Assessing the spatio-temporal patterns of road kills on selected routes between Komani and Kokstad

by

Ayrton Gino Humberto Emilio Oddone Aquino

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Supervisor: Dr S'phumelele Lucky Nkomo

Co-Supervisor: Prof Michael Gebreslasie

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PREFACE

The research described in this dissertation was carried out in the School of Agricultural, Earth and Environmental Sciences, University of KwaZulu-Natal, Howard College Campus, from March 2021 to February 2023, under the supervision of Dr S'phumelele Lucky Nkomo and Prof Michael Gebreslasie.

By submitting this dissertation, the author hereby declares that all contents in this research paper are their original work. The author declares that this thesis has not been previously submitted in any form to any other university. The author is the sole author of this thesis, and where applicable, the work and ideas of others have been correctly acknowledged and referenced in accordance with the departmental requirements.

Ayrton Gino Humberto Emilio Oddone Aquino signed…… [redacted].. Date: 8 February 2023

As the candidate's supervisor, I certify the above information to be correct to my knowledge and have approved this thesis/dissertation for submission.

Dr S.L. Nkomo signed……[redacted]…….. Date: 8 February 2023

Prof M. Gebreslasie……[redacted]……... Date: 8 February 2023

DECLARATION 1- PLAGIARISM

I, Ayrton Gino Humberto Emilio Oddone Aquino……., declare that

1. The research reported in this dissertation, except where otherwise indicated, is my original research.

2. This dissertation has not been submitted for any degree or examination at any other university.

3. This dissertation does not contain other persons' data, pictures, graphs or other information, unless specifically acknowledged as being sourced from other persons.

4. This dissertation does not contain other persons' writing, unless specifically acknowledged as being sourced from other researchers. Where other written sources have been quoted, then:

a. Their words have been re-written but the general information attributed to them has been referenced

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5. This dissertation does not contain text, graphics or tables copied and pasted from the Internet, unless specifically acknowledged, and the source being detailed in the thesis and in the References sections.

Signed

……

DECLARATION 2- MANUSCRIPTS

Oddone Aquino, A.G.H.E. and Nkomo, S.L., 2021. Spatio-temporal patterns and consequences of road kills: a review. Animals, 11(3), p.799. Doi: 10.3390/ani11030799

Oddone Aquino, A.G.H.E., Nkomo, S.L. and Gebreslasie, M. (In preparation) Spatio-temporal analysis and detection of animal road accidents and Hot spots using Geospatial technologies in selected routes of the Eastern Cape and KwaZulu-Natal, South Africa.

Signed:…… [redacted] ……

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ABSTRACT

Road kills are a challenge in the contemporary world and present potential negative impacts on society and the environment. Vehicle collisions with large animals can result in serious harm to motorists and their passengers. Those collisions that do not harm people still inevitably harm the animals involved. These harms can result in serious negative environmental impacts. The lack of attention given to the species composition of road kill perpetuates the challenges and impacts associated with animal-vehicle collisions (AVCs). Even if a species has a favourable conservation status, the impacts of AVCs can hinder local populations and ecosystem function for the areas those animals occupy. Although typically associated with road kill, wildlife is not always the category of animals in danger of animal-related accidents. Other categories of biota such as domesticated animals (pets including cats and dogs) and livestock (animals owned for agricultural purposes including cows and sheep) have been known to fall victim to collisions, which can have impacts on the people who rely on them. In a given area, if the locations and times of a group of road kills is known, spatio-temporal patterns can be identified to explicate how and why road kills occur. Evaluating patterns and trends in road kill can enable opportunities to mitigate these incidences. The aim of this study was to assess the spatio-temporal patterns of road kills on selected routes between Komani and Kokstad in order to determine the underlying causes of animal-vehicle collisions and identify appropriate mitigation measures. The objectives were to; determine the species characterisation of road kills on the selected routes, to identify the spatio-temporal patterns, examine local factors contributing to AVCs, examine the impacts of road kill on local animal populations, and recommend suitable mitigation measures for a sustainable transport system.

To achieve these objectives, a relevant road kill dataset was obtained from the Endangered Wildlife Trust, consisting of 249 road kills from 2007 to 2020, in the study area of interest. The road kill data was mapped in the study area using ArcMap 10.6 and ArcGIS Pro 3.0. The routes in the study area included the N2, N6, R56, R61, R63, R67, R349, and R396. Additionally, road infrastructure and climate data, retrieved from South African National Roads Agency SOC Ltd and South African Weather Services, respectively, were applied to identify any possible influencing factors for road kill. The road kill data was analysed using Optimised Hot Spot Analysis. A protected areas layer was incorporated to assess for a potential relationship between road kill incidents and proximity to protected areas. The climate and road infrastructure data were refined and evaluated in Microsoft Excel. The

species composition comprised 35 different species of road killed animals; 249 specimens in total. A total of 154 road kills were unidentified species. The Optimised Hot Spot Analysis revealed 24 statistically significant hot spots in the study area. Of these 24 hot spots, 21 were in the 99% confidence interval and 3 were within the 95% confidence interval. Furthermore, 23 of these statistically significant hot spots were on the R56, and 1 on the N2, all of which were closer to Kokstad than Komani. These hot spots were also found across the provincial border between the Eastern Cape and KwaZulu-Natal. Proximity to protected areas, temperature, road width and a lack of appropriate road signage and speed limits were identified as potential influencing factors. In terms of temporal trends, recorded road kills were most frequent in the month of June and in the year 2019, for the 2007-2020 reporting period. Temperature data and correlation analysis revealed a weak relationship between road kill incidents and temperature. Correlation for road kill and road widths were found to be weak, overall, but require a more comprehensive analysis and extensive, available data. Spatio-temporal analysis and field observations, however, still provided important insights into road kill studies. The impacts of these AVCs were found to be a potential compromise of species population dispersal rates, gene flow, and ecosystem functioning. To mitigate these impacts, recommendations included implementing effective road signage, incorporating the challenges of AVCs in environmental and road policies, supervision of citizen scientists, and the development of an application that utilises a Geographic Information System (GIS) to predict and assess areas for probability of AVCs. This can help improve the judgement of drivers and reduce road kills.

ABBREVIATIONS

APP Application

ARA Animal-related accident

AVC Animal-vehicle collision

CITES Convention on International Trade in Endangered Species of Wild Flora and Fauna

COVID-19 Coronavirus Disease 2019

ECA Environmental Conservation Act

EIA Environmental Impact Assessment

EMI Environmental Management Inspectorate

ESRI Environmental Systems Research Institute

EWT Endangered Wildlife Trust

GIS Geographical Information System/s

GPS Global Positioning Systems

IUCN International Union for Conservation of Nature

KDE Kernel Density Estimation

KDE+ Novel Kernel Density Estimation

NNHC Nearest neighbour hierarchical clustering

NEMA National Environmental Management Act

SANRAL South African National Roads Agency State-Owned Companies Limited

SAWS South African Weather Services

SSC Species Survival Commission

WVC Wildlife-vehicle collision

USA United States of America

UTM Universal Transverse Mercator

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CHAPTER 1: INTRODUCTION

1.1 Background:

Road accidents caused by vehicle collisions with animals continue to be a global challenge (Ascensão, 2005; da Rosa & Bager, 2012; Garriga et al, 2017; Meza-Joya et al, 2019; Valerio et al, 2019; Pagany et al, 2020). Rapid population growth and the increased demand for transportation infrastructure results in land use changes and other developments that increase the risk of animal-vehicle collisions (AVCs) (Foley et al, 2005; Mkhohlwa, 2017; Bartonička et al, 2018). These collisions occur because such developments clash with the space occupied by natural areas; that is, habitat loss and fragmentation (Fahrig, 2003). Habitat fragmentation interferes with ecosystems (Conceição & De Oliveira, 2010), forcing animals to move across fragmented patches of land by crossing roads. This subsequently increases their risk of colliding with oncoming traffic. Thus, developments in transportation infrastructure have negative effects on biodiversity; and one of these impacts, of particular importance, is AVCs. For example, the Asiaie highway located north-east of Iran was renovated and expanded in response to the high population and economic growth of the country (Kazemi et al, 2016). However, this highway had adverse effects on biodiversity due to the high number of collisions between vehicles and animals in this area (Kazemi et al, 2016). Road kill is accordingly a focal subject area in road ecology (Forman, 2003; Coffin, 2007), and requires appropriate mitigation.

There has been an evident disregard for the impact and nature of road kills when AVCs take place (Bartonička et al, 2018). Garriga et al (2017) identify AVCs as a global conservation problem. However, the consequences of AVCs affect both people and animals (Kazemi et al, 2016). The former suffers from either or both; the life-threatening impacts of dangerous AVCs and the damage inflicted on their vehicles. The latter suffers in terms of reducing species diversity and population viability. However, not all animals in AVCs die; some are merely injured (Gren & Jägerbrand, 2019). On the other hand, all road kills are the product of an animal colliding with a vehicle.

Road management, wildlife crossings and fencing have long been the response to road kill; each with varying levels of success (Hobday, 2010; Jensen, 2018; Miller et al, 2019). These mitigation measures have had varying levels of success. A study by Hobday (2010) found that reducing nighttime driving speeds can reduce the risk of road kills. Using wildlife crossings together with fencing is highly recommended; but the concurrent implementation of

both mechanisms can be costly for road management officials who lack the necessary finances (Miller et al, 2019). Lee et al (2012) saw a significant decline in AVCs and a subsequent reduced cost after the construction of an overpass. Overpasses, underpasses, and similar structures are sometimes built to accommodate a specific species or group of fauna (Collinson & Patterson-Abrolat, 2017). In some cases, the structures are built to protect motorists and, by extension, target large mammals whom pose the most significant threat to those driving the vehicles (Cramer, 2015).

Understanding the species composition of road kill assists AVC researchers in identifying which animals are most at risk and require corresponding conservation strategies in the location of concern (Coelho et al, 2008). In southern Spain, Meza-Joya et al (2019) surveyed 1535 road kills; and identified 102 species comprising these mortalities, the majority of which were mammals and birds. Species behaviour plays a role in why some animals are more likely to be victims of AVCs than others (Jacobson et al, 2016). Accordingly, transportation systems need to be sensitive to the behavioural patterns of certain species that typically encounter the road infrastructure. Indeed, several factors contribute to road kills in any given area. Previous studies (Hernandez, 1988; Langen et al, 2009; Colino-Rabanal et al, 2010; Kazemi et al, 2016; Lin, 2016; Gonçalves et al, 2018; Kim et al, 2019; Sillero et al, 2019) have found that the factors contributing to road kill include influences related to traffic and the environment. For example, Lin (2016) identified traffic volume, landscape and road conditions to be the driving factors for road kill in Kinmen Island, Taiwan. To better understand the nature and significance of road kills in a given space requires a comprehensive examination of their patterns. Of course, these patterns exist within time and space. For instance, road kills that frequently occur near a game park during the holiday period suggest that the affected areas are at risk of AVCs, thus, requiring a revision of their transportation systems (Bartonička et al, 2018; Tayade et al, 2019). Determining the underlying causes of road kills in a certain area, thus, requires first identifying the various patterns that unfold.

Identifying road kill patterns equally helps to uncover any potential clusters, specifically hot spots; where road kills occur most frequently in the area (Bartonička et al, 2018; Sillero et al, 2019). Hot spots are regarded as non-random clusters of the repeated incidence (Kalinic & Krisp, 2018). The more frequent road kills occur at a particular period and place, the more prominent these clusters are. Identifying the annual, seasonal, or monthly AVCs that take place for a given area permits accurate analysis of the temporal patterns of these collisions. Therefore, road kill hot moments or hot periods (Coelho et al, 2012; Gonçalves et al, 2018;

Ascensão et al, 2022) provide essential input regarding when road kills occur most frequently. For example, seasonality is an important temporal factor influencing the frequency of road kills, and serves to, at least partially, predict when some animals are more likely to encounter vehicles than others (Coelho et al, 2012). When and where road kills occur most frequently can, therefore, reflect contributing factors to these incidents.

Analysing road kill patterns is possible using a Geographical Information System (GIS). A GIS serves as a tool for visualising road kills; effectively quantifying and displaying recorded AVC data. To identify and analyse clusters of road incidents involving animals, a GIS provides a variety of analyses, including hot spot analysis. A hot spot analysis allows GIS users to find patterns, including clusters, and determine how meaningful they are (Kalinic & Krisp, 2018). When clusters are identified, the causes can be deduced (Bartonička et al, 2018). Understanding these patterns and their underlying causes will subsequently enable the pursuit of effective mitigation measures.

There has been a large focus on studying the spatio-temporal patterns of road kills in North America, South America, Asia and Europe (Coelho et al, 2008; Bíl et al, 2013; Choi et al, 2015; Kazemi et al, 2016; Arévalo, 2017; Bartonička et al, 2018; Kim et al, 2019). However, there are comparatively limited studies and therefore limited understanding of road kills in Africa. Indeed, Gandiwa et al (2020) assert that road kill studies in southern Africa are sparse; more broadly, there is a lack of research efforts in Africa. Particularly in South Africa, studies on the specific patterns and causes of road kill are few compared to those conducted in the United States of America (USA) (Bissonette, 2007; Arnold et al, 2018), Brazil (Grilo et al, 2016; Saranholi et al, 2016; Santos et al, 2017; Ascensão et al, 2022), Czech Republic (Bartonička et al, 2018; Bíl et al, 2019), Canada (Clevenger et al, 2003, Winton et al, 2018), and South Korea (Choi et al, 2015; Kim et al, 2019; Shin et al, 2022). Figure 1.1 illustrates a global map of the spatial distribution of 61 selected road kill studies dedicated to spatio-temporal road kill patterns, causes and related subject matter. The publication years for these studies range from 2006 to 2022 (see Appendix 1). Although these selected studies are not an exhaustive list of road kill research publications in this period, the map confirms South Africa's comparatively sparse research base for AVCs. Notwithstanding the efforts of relevant scholars (Eloff & Van Niekerk, 2005; Van Niekerk & Eloff, 2008; Collinson, 2013; Collinson et al, 2014; Shilling et al 2015; Williams et al, 2019), there has been a fragmented and inconsistent effort in addressing the challenges of AVCs in South Africa.

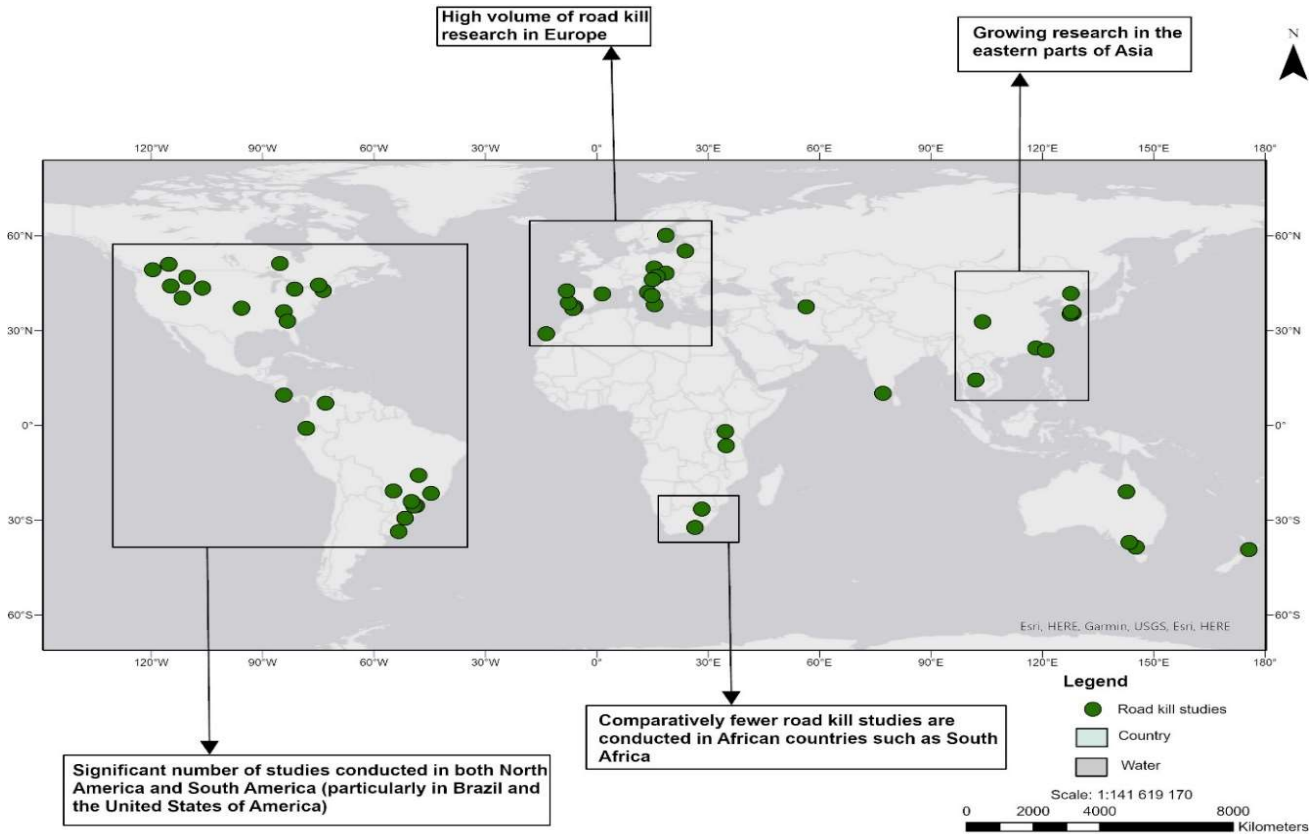

Figure 1.1: Global map of selected spatio-temporal road kill studies from 2006 to 2022 (Source: ArcGIS Online, 2023).

For instance, when Van Niekerk & Eloff (2005) studied spatial patterns of AVCs in the Eastern Cape, the authors did not consider the temporal component of these events. However, Eloff & Van Niekerk (2008) have studied the seasonal, monthly, weekly and daily patterns of animal-related accidents on a selected route between Uitenhage and Graaff-Reinet in the Eastern Cape. Little, if any focus, though, was given to the specificities of the locations on the route between Uitenhage and Graaff-Reinet. The authors evidently did not consider the pertinence of spatial patterns in their study. Thus, neither of the above studies assessed the spatio-temporal patterns of AVCs in the Eastern Cape (Van Niekerk & Eloff, 2005; Eloff & Van Niekerk, 2008).

Some of the most dangerous roads in South Africa are reportedly in the Eastern Cape Province (BusinessTech, 2019; Integrated Emergency Response, 2019). The notable presence of both wild and domestic animals that frequent these roads contributes immensely to the danger on these routes. This reality has held true for the roads along Komani and Kokstad, such as the R61 and N2, in KwaZulu-Natal and the Eastern Cape (BusinessTech, 2019). Consequently, there is a need to improve the sustainability of the transport systems located

within and around such provinces, using proactive mitigation measures that take into account the different local factors contributing to high AVCs in the area of interest. These will need to include sufficient, reliable road kill observation and reporting systems. The present study aims to assess the spatio-temporal patterns of road kill on selected routes between Komani and Kokstad in South Africa. Identifying the patterns and causes of road kill serves to accurately address the challenges associated with this phenomenon, applying subsequent, suitable recommendations.

1.2 Motivation for the study:

AVCs persist as a challenge in the contemporary world. Particularly in South Africa, there has been a lack of research on the spatio-temporal patterns of road kills to prevent and manage road accidents. The contemporary global issue of road kills needs to be explicated through concrete study. Thereafter, affirmative, proactive measures can be practiced in the areas of concern. Some roads are more at risk of having animal-related accidents than others. Identifying the locations of these high-risk areas enables appropriate and well-directed mitigation measures. For such measures to be effective and successful, however, requires identifying the factors contributing to the patterns and rate of road kills in a given area. That is, the local factors contributing to road kills need to be identified and analysed for proactive mitigation measures to be accurate in achieving the desired objectives. The environmental consequences of AVCs include loss of local animal populations (Jacobson et al, 2016), which signifies the dangerous impact of animal-related collisions on biodiversity and the overall ecosystem (Collinson & Patterson-Abrolat, 2016; Jacobson et al, 2016). Therefore, this study hopes to contribute to proactive measures that prevent significant biodiversity loss from AVCs. Both the Eastern Cape and KwaZulu-Natal provinces experience significant levels of poverty synonymous with South Africa as a whole (Mail & Guardian, 2015; Ngumbela, 2021). Given that the Eastern Cape especially suffers from extremely high rates of poverty (Ngumbela, 2021), this study will help in explicating and subsequently addressing the significant consequences of AVCs to better equip both affected provinces in managing the challenges associated with animal-related accidents. Using GIS as a tool to visualise and analyse the patterns of AVCs would, therefore, serve to examine the magnitude of road kill in the areas mentioned above. Accordingly, GIS would be used to illustrate the need for proactive mitigation measures. Thus, assessing the spatio-temporal patterns of road kills that

occur along routes between Komani and Kokstad, can support identifying when and where to implement appropriate mitigation measures for AVCs.

1.3 Aims and Objectives:

1.3.1 Aim:

To assess the spatio-temporal patterns of road kills that occur along routes between Komani and Kokstad in South Africa to identify when and where to implement appropriate mitigation measures.

1.3.2 Objectives:

- To determine the species of road kills occurring along selected routes between Komani and Kokstad in South Africa
- To analyse the spatio-temporal patterns of road kills occurring along selected routes between Komani and Kokstad in South Africa
- To examine the local factors contributing to road kills along selected routes between Komani and Kokstad in South Africa
- To evaluate the impact of road kills on affected parties
- To recommend suitable mitigation measures for a sustainable transport system on the routes between Komani and Kokstad in South Africa

1.4 Conceptual frameworks:

Adom et al (2018) defines a conceptual framework as the structure used to understand and explain relevant phenomena in a study. Three conceptual frameworks have been used in the present research study. Each of these frameworks are, consequently, integrated into explicating the events studied within the research.

1.4.1 Human-Animal interactions:

Interactions between humans and animals in shared landscapes typically raise issues of conflict and coexistence (see Figure 1.2). Land use changes and the resultant loss of natural habitat contribute to a greater number of encounters between humans and animals. There has been a stringent focus on human-wildlife conflict throughout the relevant literature (Pooley et al, 2021). Particularly, Bhatia et al (2020) reported that the number of papers covering this conflict significantly overwhelmed those focusing on coexistence. The development of a road

in natural areas implies increased interactions between humans and animals (Pooley et al, 2021). Human-wildlife conflicts are a component of human-animal interactions (Schell, 2021). The context of the road infrastructure system includes vehicles, which facilitate and drive the nature of the encounter between the person (driver) and the animal.

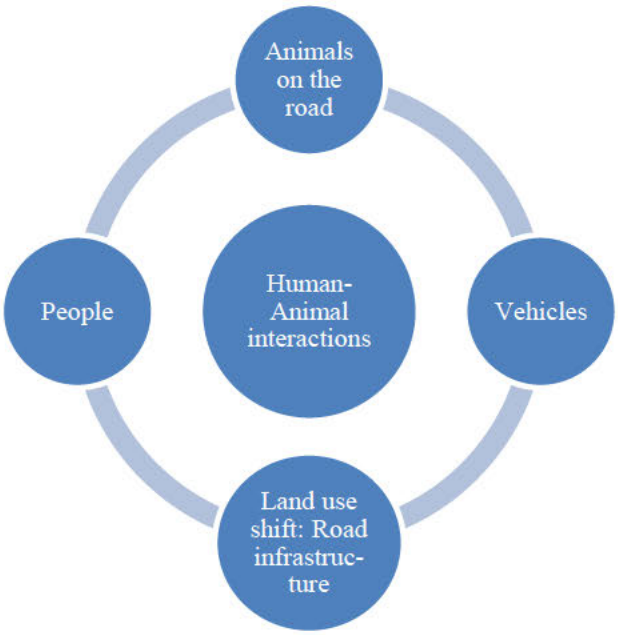

Figure 1.2: Conceptual framework illustrating the context within which human-animal interactions occur.

1.4.2 Animal-Vehicle conflict:

Wildlife-vehicle conflict is a notable subset of human-wildlife conflict (see Figure 1.3) (Schell et al, 2020). However, road kill is not limited to wildlife. Domestic animals and livestock have also previously been recorded in AVCs (Carvalho-Roel et al, 2019). Therefore, the existing framework is adapted to all animals, rather than simply wildlife. This broadens the scope of the study, and accounts for all animal victims of AVCs. These conflicts run the risk of an AVC, which poses a potential harm to both parties. The extent, to which this conflict develops into an animal-related accident, depends on a number of factors; which are reviewed in Chapter 2.

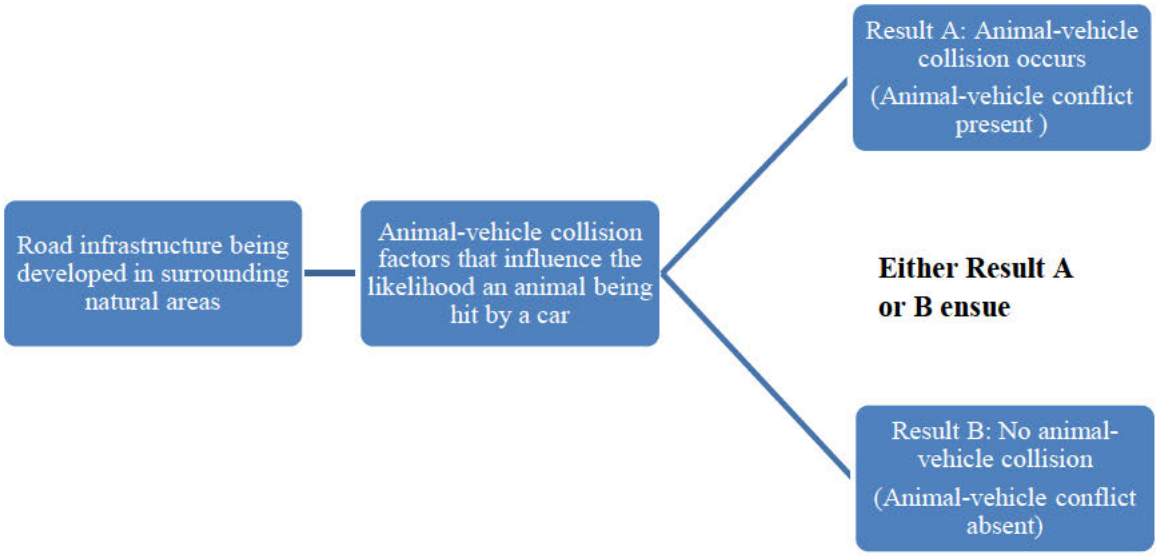

Figure 1.3: Conceptual framework for animal-vehicle conflicts, the nature of such interactions dependent on the influence of AVC factors in a given time and place.

1.4.3 Whole-Of-System approach:

A whole-of-system approach incorporates relevant parties and stakeholders in addressing a complex issue (see Figure 1.4) (Stansfield et al, 2020). The challenges of AVCs potentially affect all parties involved in the incident. The response to these challenges requires drawing from a large, accurate range of data. Police, traffic and conservation departments sharing their available road kill data, allows for an in-depth analysis of AVC patterns, to address the impacts from AVCs. However, records from hospitals and insurance companies enable an accurate examination of the financial implications of being involved in an AVC, as well as the infringements on personal health. To broaden the range of data even further, the use of citizen science is incorporated into the whole-of-system framework. Citizen science allows members of the public to engage in scientific research-based activities, such as observing and recording road kills (Saxena et al, 2019). This approach, as a result, expands the efforts and participation for addressing the challenges posed by AVCs. Consequently, this framework assists in the recommendation of suitable mitigation measures.

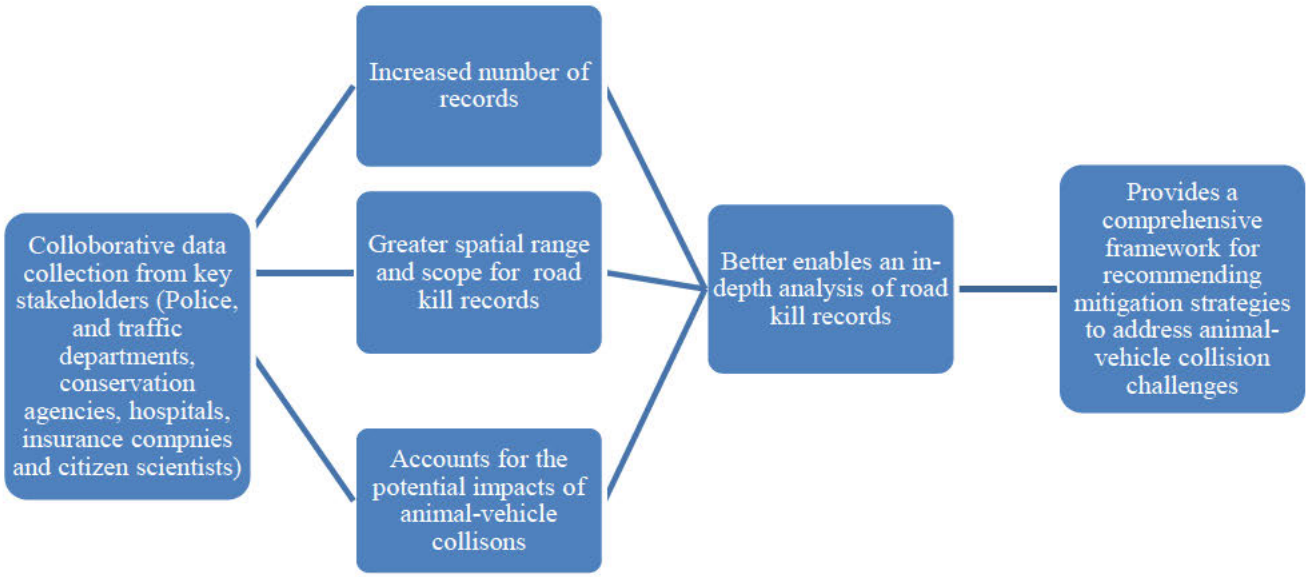

Figure 1.4: A conceptual framework applying the whole-of-systems approach to road kill data collection to better advise mitigation measures.

1.5 Conclusion:

Road kill has been introduced, in this study, as a serious environmental issue that negatively affects animal populations and ecosystem functioning. The AVCs from which they result are recognised as an equally significant threat to human safety and financial stability. These challenges are especially apparent in South Africa, providing significant rationale for a comprehensive analysis of road kill patterns. A GIS has been identified as a suitable tool for assessing these patterns, thus serving as the primary means for analysis. The aims and objectives have been outlined and serve as the affirmative guide for pursuing the study. Analysing the relevant phenomena is enhanced using the previously explained conceptual frameworks. However, addressing the challenge of AVCs first requires, a comprehensive examination of the findings from previous studies on the patterns and impacts of road kill.

CHAPTER 2: LITERATURE REVIEW

Review

Spatio-temporal patterns and consequences of road kills: A review

Ayrton Gino Humberto Emilio Oddone Aquino [1] S'phumelele Lucky Nkomo[2]

[1] Discipline of Geography, School of Agriculture, Earth & Environmental Sciences, University of KwaZulu-Natal, Durban, South Africa.
[2] Discipline of Geography, School of Agriculture, Earth & Environmental Sciences, University of KwaZulu-Natal, Durban, South Africa; sphumelelesn@gmail.com
* Correspondence: gstar7400@gmail.com, Tel.: +27 82 766 5838

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Simple Summary: Road kill continues to be a challenge in the 21st century. Numerous studies have sought to explain the causes and risks of animal-vehicle collisions that result in road kills, and how best to mitigate these events. This review evaluates the relevant literature on road kills, in order to determine how to effectively address them. Identifying methodologies and sources used in previous studies, how mortalities are normally recorded and reported was determined. Previous literature has suggested that spatial proximity to natural resources, road infrastructure, traffic volume and velocity, driver awareness, landscape, climate and weather conditions, and animal behavior are the primary factors contributing to the spatio-temporal patterns of road kills. Important socioeconomic and environmental impacts of animal-vehicle collisions that result in road kills were also identified. Current mitigation measures for addressing road kills were examined from previous studies; including road management and wildlife crossing structures. Shortcomings to strategies and methodologies for addressing animal-vehicle collisions were subsequently assessed. Thereafter, the paper analysed geospatial technologies that have been utilised in road kill studies. This review recommends focusing on all road kills in an area, using larger study locations, taking timelier observations, the increased use of citizen science, more research on nighttime driving speeds, and popularising effective road kill apps.

Abstract: The development and expansion of road networks have profoundly impacted the natural landscape and various life forms. Animals are affected by these roads in a myriad of ways, such as road mortalities. This article reviews the literature on the magnitude, spatiotemporal patterns, factors, and consequences of animal-vehicle collisions (AVCs) and the subsequent road kills. Furthermore, the review paper briefly outlines the relationship between roads and animals in the surrounding landscape and later examines the nature and impacts of AVCs. This article evaluates the statistics on the number of road kills and a critical analysis of the spatiotemporal patterns of these mortalities is also evaluated. Subsequently, the review paper examines current mitigation measures and the challenges impeding their success. The paper then concludes with an evaluation of geospatial tools (GIS) and other technologies used in road kill studies. The relevant findings of this paper are that, (1) factors influencing road kill patterns interact with one another; (2) AVCs have serious environmental, economic and social consequences; (3) road kill mitigation strategies suffer several challenges hindering their success; and (4) specific geospatial tools and other technologies have been utilised in assessing AVC road kill patterns. The review, therefore, recommends including overall road kill clusters of all animals in mortality surveys, increasing the spatial coverage of road kill observations, consistent surveying, sufficient research on nighttime driving distances and speed, utilising citizen science in all road mortality studies and incorporating GIS into all apps used for recording road kills. An increased sufficiency in road kill data coupled with improved technologies can enable more effective mitigation strategies to prevent AVCs.

Keywords: Animal-vehicle collisions, environmental impacts, habitat fragmentation, road kill, road infrastructure, spatio-temporal patterns.

2.1 Introduction:

The development and growth of road networks profoundly impact on the surrounding landscape and various life forms. Increasing population size and economic growth increases the demand for transportation infrastructure at all scales (Kazemi et al, 2016; Bartonička et al, 2018; Tayade et al, 2019). The expansion of transport infrastructure has contributed to unquestionable economic and social development (Monge-Nájera, 2018; Saxena et al, 2019). On the other hand, rapid road infrastructure development has significantly impacted on the natural landscape alterations and degradation globally (Trombulak & Frissell, 2000; Kazemi et al, 2016; Saxena et al, 2019). Road infrastructure development in steep and sensitive terrain results in environmental degradation, of which common features are roadside erosion (predominantly gullies), slumping/landslides, and rock fall, amongst others (Bartonička et al, 2018; Jaboyedoff et al, 2018; Losos et al, 2019). In addition to environmental degradation, road infrastructure development also affects animal (wild and domestic) movement. Vehicle collisions with animals are a major challenge (da Rosa & Bager, 2012; Kazemi et al, 2016; Bartonička et al, 2018; Abra et al, 2019; Fabrizio et al, 2019; Meza-Joya et al, 2019; Saxena et al, 2019; Russo et al, 2020). Animals have to manoeuvre through these modified landscapes and face the risk of a collision with a vehicle on the road (Coffin, 2007; da Rosa & Bager, 2012; Tayade et al, 2019). Hence, the increased expansion of road networks increases the risk of an AVC at a given time and place. High risks of AVCs inevitably imply an increased risk of road kills. The people involved in an AVC often experience some form of personal injury or damage to their vehicles, particularly if the vehicle collides with a large animal (Abra et al, 2019). In extreme cases, AVCs can result in human fatalities (Waetjen & Shilling, 2017; Abra et al, 2019; Ang et al, 2019). Consequently, AVCs are a serious road safety issue. The rationale for focusing on AVCs in this review, thus, emanates from the need to understand why animal road kill persists to be a common challenge throughout many countries in the 21st century.

Bartonička et al (2018) argue that strategies to combat AVCs have been either poorly implemented or hindered by research gaps. In particular, research in this context has been plagued with inconsistencies in road kill surveying, methodologies, and subsequent findings. For example, many road kill studies are taxonomy-based, focussing on grouping or targeting specific species affected by AVCs, instead of considering all animals in the study area (D'Amico et al, 2015; Bartonička et al, 2018; Canal, 2018a). A complete understanding of the nature and impact of animal-vehicle collisions is necessary to resolve the resultant

challenges. Of course, not every AVC results in the vehicle incurring damages, or the driver and their passengers suffering any injury or fatality (Martin et al, 2018; Rao & Girish, 2007). Collisions with butterflies or frogs are unlikely to affect the vehicle or people inside it. Furthermore, some animals are injured, rather than killed, in an AVC (Gren & Jägerbrand, 2019). Nevertheless, all road kills result from AVCs. Relevant authorities in road management and safety will usually address AVCs regarding how they affect the people involved. Conservationists and ecologists, however, have focused a significant amount of research on these types of accidents, in terms of road kills (Bager & da Rosa, 2010; Husby, 2016; Santos et al, 2017; Bartonička et al, 2018; Sillero et al, 2019; Valerio et al, 2019). Gaps in the literature on AVCs have reflected an inconsistent approach by both relevant authorities and specialists addressing the subject matter. If road mortalities are not properly investigated, mitigation measures are less likely to effectively address both driving safety and conservation concerns.

There has been a significant global increase in the demand and subsequent investment for road infrastructure (Smith et al, 2015; O'Brien et al, 2019). Smith et al (2015) report that roads are predicted to be the largest investment area in transport infrastructure for, at least, developing countries, in the 2014-2025 period. Rising wealth in a country enables more of its population to buy and own cars. The more members of a population that owns cars, the larger the road infrastructure required to accommodate them. That being the case, many countries invest in large, extensive road networks (Smith et al, 2015). If road infrastructure is expected to develop and expand, more space will be needed from surrounding natural areas. Thus, the ongoing growth of road networks will alter the natural landscape and various life forms' behaviours. Animals occupying and manoeuvring through these altered landscapes will inevitably enter the road network, raising the risk of an AVC.

Road infrastructure quality has often featured as a significant factor in AVC probability (Colino-Rabanal et al, 2011; Kazemi et al, 2016). Examples can be found in the United States of America (USA), where many AVCs and road kills are recorded over a myriad of roads, each with different infrastructure quality (Tardif, 2003; Schwartz et al, 2018). The USA has one of the most well-developed and expansive road infrastructures in some of its states, such as Florida, Colorado, Utah and Minnesota (Leins, 2019). Due to the large number of vehicles occupying the road at a given time, several parts of the USA are also known for high road kill incidences. Florida ranks as one of the best states in terms of road infrastructure quality (McAllister, 2019). The state is notorious for its annually large numbers of road kill;

particularly those of reptiles and amphibians, given that a significant portion of Florida consists of swamps and other types of wetland (Shwiff et al, 2007; Croshaw et al, 2019; National Oceanic and Atmospheric Administration, 2023). However, large road networks in poor condition are equally as dangerous for animals. In the Alaska State of the United States of America (USA), road infrastructure quality is notably poor, especially on the rural roads (Feigenbaum & Purnell, 2021). The state presently ranks in the top three US States with the highest number of collisions with animals (Bodine, 2023); from 2009 to 2017 there were 5084 vehicle collisions with moose (*Alces alces gigas*) in the state alone (Cunningham et al, 2022). AVCs are, thus, a potential danger on any road. Therefore, poor management and maintenance of roads can exacerbate the challenges animals and drivers face. If roads are not maintained up to expected standards, drivers stand to struggle to execute the necessary manoeuvres to avoid an accident of any kind. However, some researchers and road officials suggest that poor road quality can, in fact, force drivers to reduce their speed and increase their alertness when on roads prone to collisions of any type (Edquist et al, 2009; Western Cape Government For You, 2022). For example, in Victoria, Australia, Edquist et al (2009) found that motorists were more likely to reduce their speeds on road surfaces typically unfavourable for driving.

The recording of road kills is typically sparse of country-wide datasets. Specific roadways where AVCs commonly occur are often used as data collection points, as opposed to surveying all the road networks in a country. Taiwan is one of the few countries to record road kills on a national scale. The Global Biodiversity Information Facility (GBIF) contains a database with records of a total 46 416 road kills from 2011 to 2017 for Taiwan, with an average of 6630.86 per year, in this period (Global Biodiversity Information Facility, 2020). These statistics provide an essential source of analysis for AVC patterns on a national scale. Even so, local factors affecting the frequency of AVCs will vary across and within different roads in a country. Arévalo et al (2017) studied the spatio-temporal variations of amphibian road kills in a 4 km road segment in Costa Rica, namely, Costanera Sur. Their findings revealed that vehicle speed and traffic volume were important factors for road kills on that segment. In Nigeria, Halidu (2019) surveyed road kills in two major routes of the Kanji Lake National Park; New Bussa-Lumma and Ibbi. For this study, weather, vehicle velocity, and visibility conditions were found to have the most substantial influence over AVC probability. The different variables considered in the aforementioned studies reflect and exemplify how various road kill studies differ from another in terms of the influential factors found in the

research outcomes. In any road kill study, however, the influential variables can be used to advise mitigation for mortalities in those areas and be compared to results from studies within and outside of their country. Identifying the influencing local factors for road kills over a particular stretch of road is, thus, significant for addressing the consequences of AVCs.

AVCs present many social, economic, and environmental consequences (Cserkész et al, 2013; Bartonička et al, 2018; Kim et al, 2019; Valerio et al, 2019). Road accidents involving animals can result in severe economic costs due to the resultant fatalities, injuries and property damages (Conover et al, 1995; Kazemi et al, 2016; Waetjen & Shilling, 2017; Bartonička et al, 2018; Leins, 2019). Vehicle damage and insurance claims are especially a challenge for the persons involved in the AVC (Kazemi et al, 2016; Bartonička et al, 2018). The social consequences of these accidents are typically not evaded either. The aftermath of accumulated AVCs can threaten socioeconomic livelihoods due to the compromised road safety and imposed costs (Waetjen & Shilling, 2017). In terms of positive effects, road kills not collected by people can serve as an important food source for scavengers, potentially improving ecosystem functioning (Ratton et al, 2014). Clark (2017) explains that when scavengers consume road kills, they not only sustain themselves but reduce the potential number of road kills that get disposed of in landfills. Despite these opportunities provided by road kills, AVCs, themselves, have continued to pose a serious and negative impact on the natural environment. Species population numbers are reduced, potentially compromising ecosystem functioning in natural areas, and subsequently, conservation efforts (Taylor et al, 2002; Santos et al, 2017; Bartonička et al, 2018; Abra et al, 2019; Valerio et al, 2019). For example, D'Amico et al (2015) found that a population of the threatened Natterjack toad (*Epidalea calamita*) in the Doñana Natural Area in Spain, was significantly impacted by AVCs. Indeed, 381 of these amphibians were road killed in the study period from March 2006 to February 2007.

This review examines relevant literature regarding the nature and impacts of AVCs, as well as the consequent road kills. The review aims to provide a cogent evaluation of existing knowledge on the subject matter. Subsequently, recommendations are made to address gaps in the literature in order to advance future studies. The paper reviews six key focus areas; 1) road kill observations, reporting and recording 2) the significance of the spatio-temporal patterns of road kills locally, 3) the economic, social and environmental consequences of vehicle collisions with animals, 4) the current strategies used to mitigate animal-vehicle collisions and the resultant road kills, 5) the challenges that hinder the effectiveness of the

current mitigation measures used to address animal-vehicle collisions and 6) the use of geographical information systems and other technologies as a tool to uncover the magnitude and underlying patterns of accidents involving animals, in to order determine the most effective means to mitigate these events.

2.2 Review Methodology:

The review identified and evaluated relevant literature about animal-vehicle collisions that resulted in road kills. Articles that focus on one or more of the primary topic areas were critically searched through all available research platforms. The primary databases used to obtain all relevant knowledge and information on these focus areas included Google Scholar, EBSCOhost, Scopus, and ScienceDirect. In the database, search criteria included usage of the following keywords; “animal-related accidents (ARAs)”, “animal-vehicle collisions (AVCs)”, “clusters”, “carcass permanency”, “consequences”, “conservation” “economic impacts”, “environmental impacts”, “environmental management” “hotspots”, “hotspot analysis”, “influencing factors”, “kernel density estimation”, “location”, “modelling”, “prediction”, “road kill”, “road kill apps”, “road kill mitigation”, “road infrastructure”, “road mortality” “social impacts”, “spatio-temporal patterns”, “waste management” and “wildlife-vehicle collisions”. These keywords were either combined or singly applied as required. For example, “Hotspots of animal related accidents (ARAs)” combines two key words to identify the relevant articles. Conversely, “road kill mitigation” is used singly as this keyword suffices for the purpose of the search for that specific subject matter. Although keywords are interchangeable such as “animal-vehicle collisions (AVCs)” and “animal-related accidents (ARAs)”, applying each of these separately secures a broader variety of search results given that some authors may prefer to use one of these keywords over the other in their paper. Journals focusing on content relevant to one or more of the topic areas were selected for review. Journals included, but were not limited to, the African Journal of Ecology, the Journal of Applied Ecology, the Journal of Ecology, the Journal of Environmental Management, the Journal of Environmental, Engineering and Landscape Management, the Journal for Nature Conservation, the Journal of Transport Geography, the Journal of Wildlife Management, the European Journal of Wildlife Research and the Open Journal of Ecology.

All articles were thoroughly assessed and selected for review, based on their relevance to one or more of the aforementioned six focus areas. Although certain articles were included in the review section that they were most related and relevant to, the majority of literature

overlapped with more than one of the key topic areas. That is, numerous articles were found to have integrated more than one of the key topic areas. Consequently, most articles have been included in more than one section. The reference list of all articles has also been examined to find potential, additional literature to include in the review. Any article that was not related to at least one of the topic areas was excluded from the paper. A myriad of sources were used in this review, including journal articles, peer-reviewed literature, books, theses, reports and conference papers. Additionally, websites and newspapers were included.

2.3 Road kill observations, reporting and recording:

Road kills can be recorded using specific observation techniques (Heigl et al, 2017), such as identifying carcasses on foot, by using vehicular means of travel (Hobday & Minstrell, 2008; Bartonička et al, 2018), or engaging the public to report road kills (Vercayie & Herremans, 2015; Saxena et al, 2019). For example, in Tanzania's Kwakuchinja Wildlife Corridor, Njovu et al (2019) completed 364 daily road kill surveys on foot, from 17 August 2014 to 16 August 2015, and covering a distance of 3094 km. This study recorded 82 road kills during the period mentioned above. Similarly, Coelho et al (2012) observed road kills on foot once a month for sixteen months in Brazil's southern Atlantic Forest. They identified that 1433 road kills took place in this area, between July 2002 and October 2003. In addition, Husby (2016) monitored road kills in Norway by driving a car along a 25 km stretch of road for a total of 617 days over five years. A total of 121 road kills were recorded during this time. These findings suggest that observing road kills in the field can be time-consuming or spatially restrictive for researchers and traffic management personnel alike.

Since the surveying of present road kills is potentially time-consuming and limits the spatio-temporal coverage of observations (Vercayie & Herremans, 2015), many studies have used historical records; normally owned by transport and police departments, and conservation agencies (Colino-Rabanal et al, 2011; Bartonička et al, 2018; Kim et al, 2019). Transport and police department personnel often record road kills when an AVC has been reported and caused significant damage to the vehicle or injury to those inside it (Bartonička et al, 2018). Some conservation agencies record road kills to determine the magnitude and composition of mortalities for certain fauna and their potential impacts (Saxena et al, 2019). These datasets can represent a large spatio-temporal range of the road kills that have occurred (Colino-Rabanal & Peris, 2016). Bartonička et al (2018) obtained data for AVCs that occurred from October 2006 to December 2011 from the Police of the Czech Republic. This data accounts

for all AVCs, recorded by the police, and occurring in the country for more than five years, qualifying as a suitable source to analyse the rate of road kills. These records, thus, significantly save time and enable a more extensive, in-depth analysis of the spatio-temporal patterns of road kills. In support, Colino-Rabanal & Peris (2016) praise the use of historical records for its time efficiency and large spatio-temporal range. However, utilising such data does not usually provide users with recent recordings for the road being studied. To address this potential shortcoming; citizen science was introduced to incorporate more recent records while allowing for the same time-efficient and spatially extensive data acquisition.

Citizen science is the voluntary collection and analysis of scientific data by the general public (Saxena et al, 2019). A citizen scientist is someone who volunteers to collect or process data as part of scientific enquiry (Silvertown, 2009; Vercayie & Herremans, 2015). Members of the public are able to report the road kills they observe to the relevant authorities, using the available observation and recording systems, contributing to data for a given location or set of locations. The more members of the public who participate in citizen science, the greater number of road kills likely to be reported. Above all, using citizen science increases the spatial extent of road kill reporting by enabling members of the public to report road kills from any distance and on any road (Hsu et al, 2018; Chyn et al, 2019; Saxena et al, 2019; Englefield et al, 2020). The Taiwan Road kill Observation Network (TRON) is a citizen science project run by the Taiwan Endemic Species Research Institute, allowing members of the general public to report road kills anywhere in the country (Hsu et al, 2018; Chyn et al, 2019; GBIF, 2020). When a person identifies a road kill, they can record the time and Global Positioning System (GPS) location of the animal, take a photo and then submit all this information online to the website (Yue et al, 2019; TRON, 2020). The project staff then verifies this information before it is officially published on the network's website as open-source data (Yue et al, 2019). The data's open access platform reinforces the integrated efforts, employing engagement, between the general public, scholars, specialists, and relevant authorities. Road kills can, thus, be recorded at a national scale, without relying on just a single research facility to conduct these observations and report them to transport management authorities. This demonstrates not only the vast spatio-temporal range of road kill data, but its utility in informing mitigation measures as well. Yue et al (2019) utilised road kill data from the TRON, focusing on snake mortality records from 2006 to 2017, throughout Taiwan. The records revealed that snake road kills were very high on roads in the low to mid-elevation forests. On that account, Yue et al (2019) advised that mitigation

measures such as fences and passages should be prioritised primarily towards roads in low-mid elevation forests.

The methods for recording road kills clearly vary by technique and scale. Once road kill data is obtained, however, the aim should be to analyse the existing patterns and trends to determine the underlying, influential factors.

2.4 The significance of the spatio-temporal patterns of road kills:

This critical discussion informs how road mortality patterns reveal important trends and findings in the data collected during a given study. These patterns help determine how meaningful the clusters of road kills are (Kalinic & Krisp, 2018). Road kill clusters explicate on which particular portions of the road, and during what periods, animals are more frequently colliding with vehicles. In other words, these clusters are incidences of different road kills located spatially and temporally close together. The spatial proximity of AVCs to one another demonstrates which road kills are located close together, over a specified locale. The spatial component of road kill clusters, thus, explicates where road kills occur, and by extension, where they occur most frequently (Santos et al, 2017; Bartonička et al, 2018). Temporal proximity of AVCs to one another, on the other hand, expresses closeness of road kill occurrences to one another over time (Kim et al, 2019). The temporal component of road kill clusters reveal significant patterns and subsequently informs when animals are most susceptible to being hit by an oncoming vehicle (Santos et al, 2017). Meaningful spatial clusters are referred to as hot spots, whereas their temporal equivalents are hot periods; which jointly reflect the spatio-temporal patterns (Coelho et al, 2012; Kalinic & Krisp, 2018; Kim et al, 2019). These clusters can be identified and analysed from any spatial scale. However, Bartonička et al (2018) asserts that road kill clustering is explained specifically by local factors, such as traffic volume, vehicle velocity, and distance to specific land cover. There has, consequently, been a specific focus on the local influences over road kill clusters on transport routes, in the majority of literature. Spatio-temporal patterns are a popular topic for investigation in GIS. The analysis of road kill clustering and spatio-temporal patterns, using a GIS application, is discussed in more detail in Section 2.8.1.

In particular, the spatio-temporal patterns of road kills enable researchers and relevant authorities to uncover the influencing factors. Why certain road kills are spatially and temporally located closely to one another on specific portions of a roadway may be explained by a number of local factors. These factors will differ from one locale to another, and some

are more prominent in previous studies than others. The influences analysed in this section are, spatial proximity to natural resources and other variables; road infrastructure; traffic volume and vehicle velocity; driver awareness; landscape; climate and weather conditions; and animal behaviour.

2.4.1 Underlying factors in spatio-temporal patterns:

Spatio-temporal patterns reveal a plethora of factors influencing the existing numbers and clusters of road kills. These factors are often categorised into specific groups based on a specific system of characterisation used by the researcher/s. Different studies have grouped factors according to their own systems and criteria. For instance, Kazemi et al (2016) identified four major groups of factors for road kills. These are:

- Animal-related, behavioural and biological factors: Species population density, animal behaviour, foraging behaviour, mating, migrating, breeding and rutting
- Habitat-related factors: Habitat patches distribution, resources availability.
- Weather conditions: Temperature, precipitation, cloud cover, wind.
- Anthropogenic causes: land use, traffic density, driver-related conditions.

On the other hand, Bartonička et al (2018) groups the factors potentially responsible for AVCs into three categories:

- Species ecology and behaviour: Sex, age, dispersal, habitat use, mating, breeding and rutting.
- Traffic factors: Vehicle velocity, visibility and traffic density.
- Environmental factors: Presence of natural corridors, fragmentation.

Numerous other studies have followed suit (Romin & Bissonette, 1996; Coelho et al, 2012; Meza-Joya et al, 2019; Sillero et al, 2019), using their own classification systems. Regardless of how the road mortality factors are grouped, typically, no single influence operates in isolation. Several studies have each determined a number of relationships between different factors. Therefore, two or more factors can integrally influence the spatio-temporal patterns of road kills. A study in China by Wang et al (2020) found that road kill rates of rodents were highest in September, due to these animals foraging in the peak periods of traffic volume during that month. Although road infrastructure is a factor for mortalities (Colino-Rabanal et al, 2011), it serves as a significant context for the interrelationships between other factors.

For instance, roads alter the natural landscape and cause habitat fragmentation. Animals inhabiting these fragmented natural areas typically do not have access to all resources necessary for their survival; in the immediate patch they occupy (Meza-Joya et al, 2019). As a result, those species which require a particular food or water resource in a patch segregated by these networks typically have to manoeuvre across these roads to fulfil a particular biological need (Orlowski & Nowak, 2006; Guthrie, 2012). The proximity of these animals from the patch they currently occupy, to the one they travel to, typically influences the likelihood that they will encounter a vehicle (Bartonička et al, 2018; Valerio et al, 2019). As a result, these animals are susceptible to a vehicle collision. On the other hand, traffic density and driving speed will influence the extent of this risk (Kazemi et al, 2016; Zhang et al, 2018; Valerio et al, 2019). Thus, when and where road kills occur is the product of several integrated influencing factors. For that reason, a myriad of interactions between different factors may be considered when analysing the spatio-temporal patterns of road kills for a given area. The spatio-temporal patterns revealed in AVC datasets are, consequently, a necessary indicator of where to start considering certain factors. These factors particularly help determine which questions to ask about the road kill occurrences.

2.4.1.1 Spatial proximity to natural resources and other variables:

The nearness of road kills to one another, of course, explicates the spatial patterns of AVCs for a given stretch of road. Notwithstanding this fact, proximity to specific resources and landscape variables equally expresses a significant role in influencing the magnitude and spatio-temporal patterns of road mortalities (Clevenger et al, 2003). In fact, spatial proximity interacts with a myriad of factors that influence road kill rates and patterns (Clevenger et al, 2003). Previous studies have found that the proximity between animals, the road network and influential AVC variables significantly influence the frequency of road kill (Clevenger et al, 2003; Coelho et al, 2012; Bartonička et al, 2018; Kim et al, 2019). The distances at which animals are located from particular environmental resources, such as grassland or waterbodies, often affect their movement and, thus, increases their risk of being hit by an oncoming vehicle (Coelho et al, 2012). From 2006 to 2011, Bartonička et al (2018) found that most road kills occurred at distances of less than 350 m to forests in the Czech Republic. Accordingly, habitat and resource requirements locate some animals closer to roads and subsequently places them under increasing risk of a vehicle collision (Clevenger et al, 2003). Road kill hotspots are, as a consequence, often located within close proximity to desirable habitats for the species composing these mortalities (Langen et al, 2009). A good case in

point is that, for animals such as amphibians, nearness to a perennial waterbody is normally related to significantly high clusters of road kills (Coelho et al, 2012; Monge-Nájera, 2018, Sillero et al, 2019). Essentially all amphibians must inhabit a location near a water source for survival (Coelho et al, 2012; Monge-Nájera, 2018). When there are roads near or surrounding these waterbodies, these classes of animal are at considerably high risk of an AVC. Animals' niches located closer to the forest interior have a significantly lower probability of colliding with a vehicle. On the other hand, for some species, close proximity to other land cover, such as urban and residential areas is associated with fewer incidences of road kills (Glista et al, 2008). For example, Kim et al (2019) studied the relationship between the number of road kills and their proximity to urban areas. The authors observed that in urban areas, road kills were fewer in number. The road network, traffic volume and vehicle velocity have been found to play an equivalently significant role in probability of AVCs, in terms of their proximity to landscape variables (Clarke et al, 1998; Kim et al, 2019).

2.4.1.2 Road infrastructure:

There are several types of road infrastructure; each classified using a different system (Sautya, 2019). Road classification systems often differ between countries or regions. Road class alone cannot directly influence the number of road kill occurrences unless correlated with another factor such as traffic intensity (Lin, 2016; Kim et al, 2019). The type of road reflects its structure, function and location. The structure includes its materials, signs and markings. A considerable amount of research has been pursued in comparing the rate of AVCs in paved roads versus unpaved ones (Coelho et al, 2012; Denning & Jennissen, 2016; Williams et al, 2019). The materials, themselves, do not typically affect the number of road kills in an area. However, the design of the road can determine the habitat characteristics for which species will use it (Coffin, 2007). That being the case, some species are more susceptible than others to colliding with vehicles on certain roads. Brock & Kelt (2004) compared the abundance of kangaroo rats (*Dipodomys stephensi*) on two different roads. The study concluded that kangaroo rats used dirt roads more often than gravel ones. This is owing to *Dipodomys stephensi* preferring roads with sandy substrates and finding those with gravel material to be uncomfortable to walk on (Brock & Kelt, 2004). Accordingly, kangaroo rats were found more likely hit by oncoming vehicles on dirt roads rather than gravel ones as they use the former significantly more than the latter. Bitušík et al (2017) found that carnivorous animals were the most likely to collide with vehicles on the raised segments of two roads in the south-western part of the Banská Bystrica Province in Central Slovakia. In addition, other

factors such as traffic intensity, presence of barriers, and vehicle velocity have been found to have considerable influence on the extent of AVC risk for a particular road design (Clarke et al, 1998; Lin, 2016; Bartonička et al, 2018; Kim et al, 2019). Road signs and markings, on the other hand, can influence the chances of an AVC (Hobday, 2008). Signs and markings that are absent, unclear, or simply have not communicated the necessary action for the drivers to execute, compromises road safety, as the driver lacks the relevant information to take the correct action (Tayade et al, 2019).

The size of a road can be both explicative and causative of the number of animals colliding with vehicles (Kang et al, 2016). In western Alberta, Canada, Clevenger et al (2003) found that road kill rates for medium-sized mammals increased with road width. Similar to road design, however, the integrated influence of other factors can redirect the effect of width on road kill risks. A case in point; in the study by Bitušík et al (2017), the authors concluded that small rodents were killed by oncoming vehicles more often on narrow roads, where canopy was located nearby and above road segments. Although these narrow roads experienced low traffic intensity, the aforementioned road characteristics encouraged greater movement among small rodents.

The type of road alignment; that is horizontal or vertical, has previously been found to influence the extent to which increased vehicle velocity impacts the risk of AVCs (Husby, 2016; Sing, 2022). In Spain, Hernandez et al (1988) identified that on curved roads, as vehicle speed increases, the number of bird road kills rose to a greater extent than on straight roads. Interestingly, road alignment shares an important relationship with the driver awareness (see Section 2.4.1.4), traffic volume and vehicle velocity (see Section 2.4.1.3) (Hernandez, 1988; Romin & Bissonette, 1996; Farmer & Brooks, 2012; Husby, 2016). If drivers cannot see that they are approaching an animal along a curved or inclined road, there is a typically increased risk of an AVC (Hernandez, 1988; Klöcker et al, 2006; Farmer & Brooks, 2012). This challenge is exacerbated when there is no relevant signage to at least warn the driver of potential animals on these sections of the road (Tayade et al, 2019). Road infrastructure can, thus, influence the human-animal interactions of the surrounding environment. As previously mentioned, though, how traffic volume and velocity interact on the road infrastructure has an equal, if not more significant role influencing incidents of AVCs.

2.4.1.3 Traffic volume and velocity:

The number of vehicles traversing a road, or segment of it, exerts considerable influence on the number of road kills over a specified period of time (Clarke et al, 1998; Rincón-Aranguri et al, 2019). Traffic intensity varies with time, and on different types of roads (Hernandez, 1988; Bartonička et al, 2018). Holidays periods can often result in increased traffic volume (Eloff & Van Niekerk, 2008). Consequently, high traffic volume within this period results in a higher number and rate of road kills (Meza-Joya et al, 2019). The location or function of a road can often infer the extent of traffic volume. According to Bartonička et al (2018) and Kuhn (1987), intermediate roads experience higher traffic intensity than major highways or local access roads. Interestingly, roads that experience a high traffic volume do not always result in high road kill counts (Clevenger et al, 2003; Lin, 2016). In south-western England, a study identified that badgers (*Meles meles*) were often discouraged from using major roads with the highest traffic intensity (Clarke et al, 1998). Furthermore, this road was found to experience the highest vehicle speeds. As a result, at least one of the two aforementioned variables, high traffic volume and vehicle speeds, are present as a barrier to animal movement on the roads. In that case, such variables can act as a barrier to animal movement and reduce road kill risk.

Notwithstanding the aforementioned findings for traffic volume and vehicle speed, Rosell et al (2013) attribute the increased velocity of cars as one of the main causes of the high number of AVCs in European countries. Similarly, in India, Tayade et al (2019) noted that one of the influencing factors of Indian palm squirrel (*Funambulus palmarum*) road mortalities was high-speed driving. As with traffic volume, vehicle velocity is considerably influenced by the time of day and the specific road category on which the cars drive (Hobday 2008). The former entails that driving speeds during the day and night can vary and, as a consequence, differentially impact the number of road kills that occur between these two distinct periods (Clarke et al, 1998; Hobday, 2008). The latter is typically dependent on the speed limits assigned to the road or particular portions of it (Tayade et al, 2019). Generally, speed limits positively correlate with road kill rate (Chambers et al, 2010). Accordingly, the higher the speed limit for vehicles, the larger the number of animals that are likely to be involved in vehicle collisions (Erritzoe et al, 2003). However, some studies have shown contrary findings. Husby (2016) observed that as speed limits increased on a stretch of road in Norway, the road kill rate and the probability of certain bird species being hit by an oncoming vehicle decreased. In the context of the birds sitting on the road, as vehicle velocity increases, the likelihood of the bird flying away increases (Husby & Husby, 2014).

2.4.1.4 Driver awareness:

In the context of this study, driver awareness refers to ability of the driver to identify an animal on the road, which they are presently approaching with their vehicle, and subsequently take the appropriate avoid a collision. The vehicle's driver can exert considerable influence over the probability of an AVC occurring (Eloff & Van Niekerk, 2008). Of course, if an animal simply springs onto the road and in the immediate face of oncoming vehicles, preventing an AVC becomes far more improbable. Conversely, if a motorist is able to identify the animal well in advance and execute the necessary action, an AVC becomes far less probable. Adherence to speed limits and rules of the road can substantially reduce the number of road kills (Tayade et al, 2019). Therefore, good driver awareness is necessary for reducing the number of road kills. Unfortunately, findings from Tayade et al (2019) and Vanlaar et al (2019) indicate that road users are not typically compliant when driving; and seemingly lack the knowledge on how to avoid a collision with an animal. Particularly in the study by Vanlaar et al (2019) 2009 road users in Canada were interviewed regarding how they would try to avoid a collision with an animal on the road; almost 60% of the participants replied that they would try to swerve their vehicle to avoid the animal. This is an unfavourable and dangerous response when trying to avoid a collision with an animal (Rowden et al, 2008). However, several other factors outside of the driver's control can equally compromise the ability of drivers to prevent an AVC. Visibility conditions need to be optimal for the motorist to avoid hitting an animal with their vehicle (Kazemi et al, 2016; Bartonička et al, 2018). For that reason, the factors that influence driving visibility conditions will subsequently affect the risk of AVCs. The road's alignment can strongly influence the extent to which drivers can see the animal well in advance before a collision occurs (Romin & Bissonette, 1996). For example, hills or curves on a road segment can reduce driver visibility and increase the risk for an immediate collision (Romin & Dalton, 1992). If roads are poorly lit, or there are no proper warning signs that inform drivers to reduce their speed and remain vigilant on AVC-prone roads, then more accidents will arise (Tayade et al, 2019; Wilkins et al, 2019). Particularly during the evening, poorly lit settings can exacerbate the probability of AVCs (Wilkins et al, 2019). Poor weather conditions can further negate the effectiveness of road signage and lighting (Kazemi et al, 2016). Heavy rainfall, mist, and fog reduce driver awareness and increase the number of road kills. Driver awareness can, as a result, vary during different times of the year, based on the prevailing conditions.

2.4.1.5 Landscape:

Road kills are both a product and a symptom of the altered landscape (Coffin, 2007; Rytwinski & Fahrig, 2015; Lin, 2016; Saxena et al, 2019). Existing landscape characteristics influence the spatio-temporal patterns of road kills, due to the specific habitats and resources animals require to survive and function (Clevenger et al, 2003). Landscape characteristics are altered by changing land uses. Roads, themselves, are a land use (Mkhohlwa, 2017). Moreover, road infrastructure development, renovation and expansion constitute some of the influencing factors for other land use changes, over time, in a given area (Fiedeń, 2019). The location and function of a road can, thus, impact on its surrounding land uses. Emerging land uses such as agricultural activities, residential areas, and roads have a significant impact on animals' natural habitats (Mkhohlwa, 2017). As mentioned in Section 2.1, the development of roads in the natural landscape causes habitat fragmentation. Similarly, the surrounding land uses further fragment these areas (Fahrig, 2003; Foley, 2005). Many animals manoeuvre across the fragmented patches. When more animals cross the roads between these patches, there is a subsequently greater risk of AVCs. In the southern Pantanal, Brazil, de Souza et al (2015) found the road kills had increased with the development of the BR-262 Highway. In fact, this study surveyed 518 road mortalities on this highway between April 2011 and June 2012. Thus, land uses that alter the natural landscape can subsequently influence the probability of AVCs.

Habitat fragmentation, thus, problematises the ability of animals to reach their resources, by separating the fauna from the resource in disconnected natural patches (da Rosa & Bager, 2012). The closeness of roads to habitat patches suggests that animals occupying and manoeuvring between these areas tend to be killed more by oncoming vehicles. Natural corridors are the areas of habitat that connect animal populations that have been separated by roads and other land uses (Tewksbury et al, 2002). Natural corridors include forest edges and streams (Bartonička et al, 2018). Forest edges have been particularly significant in conservation efforts that address habitat fragmentation (Tewksbury et al, 2002). It is important to note though, that the suitability of these edges varies among different animals; as the environmental conditions differ from those in the forest (Goosem, 2007; Aspelin, 2018). Bartonička et al (2018) stated that the length of the forest edge increases the presence of AVC clusters. Animals that use these forest edges to move between habitat patches; that is, edge species, place themselves under an increased risk of being hit by an oncoming vehicle (da

Rosa et al, 2018; Wang et al, 2022). Červinka et al (2015), for instance, found a positive relationship between carnivore road mortality and forest edges in the Czech Republic.

2.4.1.6 Climate and weather conditions:

Unfavourable climate and weather conditions have a profound impact on road kill presence (Kazemi et al, 2016). Poor visibility conditions owing to heavy precipitation, mist or fog can distort the visual perception of both drivers and some animals, thereby increasing the probability of an AVC. Heavy rainfall during the day or night can also discourage the movement of some animals; thereby reducing AVCs (Santos et al, 2011). In contrast, favourable climates can encourage high levels of species abundance and richness in habitat patches (Machado et al, 2015). As a consequence, a higher number of road kills can occur when these species are active near or on the road. Notably, different species will have differing responses to climate and weather conditions. A study by Carvalho et al (2017) in the BR-050 highway of south-eastern Brazil, determined that reptile road kills increased during those periods of heavy rainfall, as opposed to drier periods.

Seasonality is typically associated with the temporal patterns of road kills (Coelho et al, 2012; Bartonička et al, 2018). Temperature, rainfall and photoperiod have been found to be associated with seasonality in influencing road kill frequency and rate (Both et al, 2008; Wells, 2010; Coelho et al, 2012). A study conducted near the Iva State Park in Brazil, between June 2002 and October 2003, found that anuran road kills were high during the summer; high temperature being the the most important, associated variable, followed by increased rainfall (Coelho et al, 2012). Photoperiod had not shown a significant direct impact on the rate of road kill but had an indirect effect on the temperature. The photoperiod expresses to anurans the season for which to mate and breed (Both et al, 2008). In fact, high photoperiod has been identified as typically conducive to the activities of amphibians (Wells, 2010; Coelho et al, 2012; Meza-Joya et al, 2018). During summer, the average number of hours of sunlight is comparatively higher and dramatically impacts the number of road kills (Both et al, 2008). Favourable, warmer temperatures and high levels of precipitation significantly affect the activities, movements, and locomotive performances of amphibians; especially anurans (Wells, 2010; Coelho et al, 2012). Interactions between temperature, rainfall and photoperiod trigger hormonal stimuli in anurans and result in higher reproductive rates (Duellman & Trueb, 1994; Saidapur & Hoque, 1995; Wells, 2010; Coelho, 2012). Thus, when temperature, precipitation and hours of sunlight concurrently increase in the summer,

anuran activity rises and, as a consequence, more of these amphibians are hit by vehicles on the road (Wells, 2010; Coelho et al, 2012). Similarly, Ascensão et al (2019) studied road kills in the state of Mato Grosso do Sul, Brazil, and found a positive relationship for yellow armadillo (*Euphractus sexcinctus*) mortalities with temperature and precipitation, in the warmer periods of the year. Typically, yellow armadillos move more frequently in the warmer months, increasing their susceptibility to collision with a vehicle. In China, Wang et al (2022) found that overall road kill rates for the species surveyed, peaked in the July to September period; that is, the summer and autumn months for the region. Specifically, however, mammal road kill rates were positively correlated to precipitation, and bird road kill rates to temperature. These results confirm that the relationship between road kill rates and climatic variables are species-specific and that road kill rates vary for different animals in relation to environmental factors (Raymond et al, 2021).

Seasonal variations in road kill patterns are typically associated with the predominant animal activities during these periods. Migratory, mating, breeding, rutting, and hunting seasons all demonstrate significantly high road kill mortalities (Romin & Bissonette, 1996; Eloff & Van Niekerk, 2008; Kim et al, 2019; Valerio et al, 2019). For example, a study in South Korea identified that male leopard cats expand their home ranges during mating season; specifically winter, and consequently experience a higher probability of colliding with a vehicle (Kim et al, 2019). Kim et al (2019) had not specifically considered temperature, precipitation or photoperiod in their study. Romin & Bissonette (1996) note that mule deer road kills are most frequent during breeding and hunting seasons at the Jordanelle Reservoir in the US. Precipitation, temperature and photoperiod were not explicitly considered in the study. What has become consistently recognised in temporal road kill studies, is the significance of animal behaviour during a particular season and how it impacts the frequency and rate of AVCs.

2.4.1.7 Animal behaviour:

The behaviour of animals has a strong influence over their probability of being hit by a vehicle (Saxena et al, 2019). Where animals migrate, forage, territorialise, mate, breed, or disperse, express their behaviour, which in turn influences their movements (Bartonička et al, 2018). A good case in point is where a herd of animals, such as ungulates, is separated by a road. The animals at the back of the herd will typically follow the dominant members who have crossed the road; thereby increasing their risk of being involved in an AVC (Eloff & Van Niekerk, 2008). Animal behaviour, evidently, influences the specific movement patterns

of different species (Inbar, 1999; Kim et al, 2019; Ascensão et al 2022). Valerio et al (2019) differentiate an animal's movement-based behaviours into two categories; daily and dispersal. Daily movements include those for the animals' foraging and mating activities, and dispersal is when animals colonise new territories (Pe'er et al, 2011). The active, foraging behaviours of some animals are often dictated by the time of day (Clarke et al, 1998). The nocturnal behaviour of badgers, wild boar and certain amphibians has often resulted in the road mortalities of these species being concentrated during the evenings (Clarke et al, 1998; Bager & da Rosa 2012; Coelho et al, 2012; Bartonička et al, 2018). The increase of road mortalities at night is equally influenced by other factors such as traffic volume (Valerio et al, 2019). In the evenings, if traffic increases beyond a certain volume, some nocturnal animals are more likely to avoid the roads (Clarke et al, 1998). A study by Jacobson et al (2016) determined that certain animals' specific behavioural responses to oncoming vehicles could influence the likelihood of an AVC; thus, some species respond more effectively to these dangers than others. These responses, in consequence, produce the spatio-temporal patterns of the road kills. In South Africa, Williams et al (2019) confirmed that during dry seasons, from the beginning of April till the end of September, serval (*Leptailurus serval*) road kills are significantly higher than during the rest of the year. A total of 54 out of the total 86 recorded road kills recorded were during the dry season. When water is scarce, servals and other carnivores expand their home ranges and often cross roads through their expanded territory (Macdonald et al, 2010). Mating season can affect animal behaviour and habitat use (Kim et al, 2019).

2.5 The consequences of animal-vehicle collisions:

2.5.1 The socioeconomic impacts of animal-vehicle collisions:

The financial consequences of AVCs can be cumbersome for owners of the vehicles involved, who must bear the costs for vehicle damages (Conover et al, 1995). On highways and selected main roads in California, wildlife-vehicle accident costs amounted to approximately 276 million US$ in 2016 (Waetjen & Shilling et al, 2017). More than 94 million US$ of this amount comprised property damages, suggesting strong inflictions to the financial security of vehicle owners. The situation is equally problematic when injuries or fatalities are incurred. The São Paulo State in Brazil averages R$ 67 048 in costs per AVC when injuries or fatalities have occurred (Abra et al, 2019). Furthermore, in Brazil, road administrators are held liable for the vast majority of AVCs, compensating R$ 2 463 380 per

year for victims in the São Paulo State alone (Abra et al, 2019). In 2003, AVCs resulted in over 200 million € in France alone (Tardif, 2003).

AVCs that result in severe vehicle damages, serious human injury or fatality, can subsequently affect social lives (Kazemi et al, 2016). From 2007 to 2016, 152 patients were admitted to Victorian hospitals in Australia due to animal-related vehicle crashes (Ang et al, 2019). For the São Paulo State in Brazil, 18.5%, or approximately 483 of an average of 2611 AVCs per year resulted in human injuries and fatalities (Abra, 2019). Individuals who have been seriously injured in AVCs may not be able to participate in certain activities. Those individuals whom have been killed in such collisions may render their households to a more vulnerable state where the remaining family members struggle to maintain their social livelihoods.

2.5.2 The environmental impacts of animal-vehicle collisions:

AVCs can be disastrous for some animal populations. The behavioural-physiological characteristics of a species influence not only their probability of being hit by an oncoming vehicle but the severity of pressure these events place on their population numbers (Visintin et al, 2016; Heigl et al, 2017; Meza-Joya et al, 2019; Filius et al, 2020). AVCs of vertebrate species lacking avoidance behaviour, having greater mobility, a larger home range and body size, lower reproductive rates and population densities, are of relevant concern to conservationists and other relevant authorities (Fahrig & Rytwinski, 2009). Several mammalian species are, as a result, part of national biodiversity concerns for different countries (Rytwinski & Fahrig, 2015). However, amphibians and reptiles are some of the world's most endangered species (Heigl et al, 2017). The behavioural traits of these vertebrate species render them increasingly susceptible to AVCs (Rytwinski & Fahrig, 2015). The resultant loss of these species numbers from road mortalities, amongst others, stands to threaten their populations. One of the core perspectives of ecology entails that individual members in ecological communities play a significant role in ecosystem functions (Palladino, 1991). Howbeit an animal’s vulnerability or endangered status, their reduced numbers stand to threaten the functioning of the ecosystems in which they exist (Tayade et al, 2019). Even the reduced population size of common species can be problematic for ecosystem functioning and services (Filius et al, 2020). Indeed, Gaston & Fuller (2008) assert that the proportional reduction of common species can cause large losses of individuals and biomass, which compromise the ecosystem's stability and functioning. Road mortalities can even act as a

barrier to animal movements, suppressing the full extent of dispersal rates and other evolutionary processes (Jacobson et al, 2016). When relevant authorities collect road kills, they are usually thrown away into landfills (Clark, 2017). These decomposing carcasses release methane emissions in landfills, which are often already filled with other organic by-products (Donaldson et al, 2016).

2.6 The current mitigation strategies available to address animal-vehicle collisions:

The growing attention of road kills in academic discourse has prompted more robust engagements among the relevant parties responsible for managing road safety or conservation. Implementing sufficient mitigation strategies for preventing AVCs potentially eliminates its impacts. This section analyses the mitigation measures currently used by relevant authorities, and includes managing road conditions, the use of overpasses and underpasses, and fencing.

2.6.1 Road usage and management:

In several AVC studies, it has been observed that increased vehicle velocity leads to significantly high road kill counts (Chambers et al, 2010; Rosell et al, 2013; Bartonička et al, 2018; Tayade et al, 2019). High vehicle speeds are especially problematic for animals in the evenings (Clarke et al, 1998; Coelho et al, 2012; Wilkins et al, 2019). For this reason, the determination of nighttime driving speeds and distances have been targeted to identify the best decision-making for the driver to avoid hitting an animal on the road (Hobday, 2010). When animals are detected from a specific distance, the drivers need to follow the cue to control their speed, in order to prevent the AVC. Structures added to the road infrastructure to prevent AVCs include wildlife crossings and fencing.

2.6.2 Wildlife crossings:

Wildlife crossings are structures built to safely and strategically guide animals from one area to another (Van der Grift & Van der Ree, 2015; Miller et al, 2019). There are three main groups of wildlife crossings; overpasses, underpasses, and road-level crossings (Beben, 2012; Miller et al, 2019). Overpasses and underpasses allow animals to cross over to another habitat, without any risk of being hit by an oncoming vehicle. This is accomplished by building these structures above and below the highways that would be utilised by animals. That is, overpasses are built above the road, and underpasses are built below it (Beben, 2012).

Structurally, overpasses can be crossings over a tunnel, landscape bridges, or large green bridges (Beben, 2012). Crossings over a tunnel are, as implied, structures built over tunnels for usage by animals. Landscape bridges exceed 100 m in width and should typically be covered with natural vegetation (Beben, 2012). Green bridges, a type of landscape bridge, are big overpasses, characterised by natural ground and vegetation covering as seen in Figure 2.1. The design of these structures primarily depends on the magnitude and composition of species they are trying to protect (Miller et al, 2019). The suitability of wildlife crossing structures, then, usually depends on the species of animal (Glista et al, 2009). Cramer (2014) monitored two overpasses in Utah specifically designed for big game, such as mule deer. They noticed that bridged wildlife crossings (including overpasses) had a higher mitigation success rate than culverts for mule deer. That is, bridges had an average 87% success rate for mule deer, compared to the 74% success rate using culverts. Moreover, shorter wildlife crossing culvert lengths were associated with reduced numbers of AVCs. Wildlife crossings may be designed to target endangered species such as desert tortoises or salamanders (Miller et al, 2019). Overpasses and underpasses improve habitat connectivity by linking natural patches (Wilkins et al, 2019). This eliminates the need for animals to use a road as a crossing mechanism. In consequence, fewer AVCs result as more animals use the overpasses and underpasses, as opposed to the road. However, the effectiveness of wildlife crossings will depend on where they are built (Valerio et al, 2019).

Figure 2.1: An example of an overpass in Montana, USA (Source: English, 2020).

Underpasses are underground passages that include tunnels and culverts that have a width between 0.5 m and 2.0 m (see Figure 2.2). Underpasses are usually aimed at small, nocturnal animals such as badgers and hedgehogs (Clevenger et al, 2001a). These structures may require a guiding system such as a wire net or fencing to lead the animal into the passage.

Figure 2.2: An example of an underpass in Victoria, Australia (Source: English, 2020).

Crossings on the road surface are the most common type of the three categories. Improved road signage and signals about the possibility of animals appearing on the road serve as one of the chief methods of reducing AVCs (Beben, 2012). These include speed limits and information signs (see Figure 2.3).

Figure 2.3: An example of a crossing at the road (name unavailable) in Edmonton, Canada (Source: Amato, 2020)**.**

2.6.3 Fencing:

Fences act as important barriers that prevent animals from getting onto the road. That is, fencing contributes significantly to road avoidance by animals (Clevenger et al, 2001b). Wildlife exclusion fencing is considered the most effective means to reduce AVCs (Jensen, 2018). A study by Rytwinski et al (2016) confirmed that fencing reduces AVCs by 54%,

regardless of whether they are combined with wildlife crossings. This finding is significant because it reflects the cost-effectiveness of fencing as a road kill mitigation measure.

2.7 Challenges that compromise the effectiveness of strategies to address AVCs:

The success of strategies to address AVCs can be impeded in two ways. Firstly, the recording and quality of road kill data can be compromised, hindering its utility in selecting or assessing mitigation measures (Bartonička et al, 2018). Secondly, the mitigation measures may suffer from internal or external influences that compromise their effectiveness in preventing AVCs (Jensen, 2018). The main challenges associated with hindering the effectiveness of road kill prevention or reduction strategies, are discussed below.

2.7.1 Inaccurate and unreliable reporting:

To manage, reduce or prevent AVCs, road kill data needs to be accurate and sufficiently explicate the spatio-temporal patterns on a stretch of road (Costa et al, 2015; Bartonička et al, 2018). Reporting of road kills is inevitably prone to some human error, such as missing a road kill during observations or recording (Coelho et al, 2012; Santos et al, 2016). These errors are normally not detrimental to the dataset's utility, since they are usually infrequent (Santos et al, 2016). Nevertheless, some major challenges compromise the reliability of road kill data for both developing and evaluating mitigation strategies.

AVCs are typically reported when they result in some form of vehicle damage or human injury (Bartonička et al, 2018). AVCs that do not pose any harm to humans are, at least, relatively less reported. Vehicle damages or human injuries normally result if the vehicle hits a significantly large animal such as an ungulate (Abra et al, 2019). Therefore, smaller animals such as amphibians, small reptiles and rodents are often at risk of being underreported (Heigl et al, 2017). This challenge is hampered by the fact that many of the road kills of smaller animals may not last long enough, on the road, to be discovered and reported (Santos et al, 2011; Guinard et al, 2012). A study by Santos et al (2016) identified that road kills of animals with a body mass of less than 100 g had a lower detection than those that were heavier. Husby (2016) established that in Norway, road kills of small birds did not last on the roads, as long as larger birds.

Generally, any road kill is expected to last on the road for one to two days before they are removed by a scavenger or other external force (Santos et al, 2011; Ratton et al, 2014). Three factors influence the carcass permanency time of road kill; the presence of scavengers,

weather and traffic volume (Santos et al, 2011; Ratton et al, 2014). Scavengers inevitably speed up road kill removal before it can be recorded (Antworth et al, 2005; Meza-Joya et al, 2019). Ratton et al (2014) observed that diurnal scavenger birds such as black vultures (*Coragyps atratus*), active near highways, significantly sped up the carcass removal rates on the roads. Additionally, the type of land cover near or surrounding the road can influence the number of scavengers, and, in turn, the removal rate of road kills. Santos et al (2016) discovered that areas with significantly high levels of savannah coverage and habitat had significantly low carcass persistence. This is attributed to the rich and diverse community of scavengers that inhabit savannah dominant habitats, as opposed to those lacking this land cover.

Weather has varying effects on road kill persistence, depending on the type of condition. Higher temperatures and dry conditions can desiccate road kills and increase their persistence on the road (Santos et al, 2016). Yet, there are still humid conditions, which soften the carcass's body, thereby increasing road kill removal rates (Santos et al, 2011). Heavy rainfall often deters scavengers from the roads, thereby perpetuating carcass persistence (Santos et al, 2011; Zhang et al, 2018). Besides, these heavy rains can also speed up the degradation of the road kill and wash away the remnants of its body (Santos et al, 2016).

Daily surveys conducted by Santos et al (2011) determined that increased traffic volume removed the road kills at an even faster rate through splatter and dismemberment of the carcasses. Moreover, the study concluded that smaller animals are removed at a faster rate than larger fauna. In contrast, some animals that have been hit by oncoming vehicles might not necessarily die on the road; in fact, they may suffer from a fatal injury after being hit by a vehicle on the road, and then travel elsewhere to be discovered dead (Meza-Joya et al, 2019). Since road kills are normally reported on the roadway, the count of mortalities risk being inaccurate; so, if the animal has not suffered a fatal injury and the involved vehicle is unaffected, neither a road kill nor an accident is typically recorded. Hence, details of the accident's occurrence may be neglected by the relevant authorities and serve no potential utility in advising or assessing mitigation planning for the AVCs that result in road kills.

2.7.2 Methodological challenges:

On a given stretch of road, if differing methodologies are each employed for a different session of observations and separated by long time intervals, they can compromise animal mortality results (Bartonička et al, 2018). Surveys implemented at different frequencies and

durations can miss significant road kill counts on the days or periods where they are not used (Santos et al, 2016; Bartonička et al, 2018). As a result, this can obscure the temporal distributions in the data, due to missing road kill counts or clusters. According to Santos et al (2016), road kill hot spots and hot periods are negatively correlated with increasing time intervals between data collections, subsequently missing these clusters.

The taxonomic-based identification of AVC clusters is popularly used in many road kill surveys and observations (Glista et al, 2008; Arévalo et al, 2017; Carvalho-Roel et al, 2019; Meza-Joya et al, 2019). Strict focus on basing road kill counts or clusters in specific taxonomic groups overlooks the overall spatio-temporal patterns of mortalities (Bartonička et al, 2018). If the focus is only on specific animals, then some factors behind the spatio-temporal trends for the total road kill could be overlooked. This challenge is exacerbated by many smaller species' carcasses not remaining on the road long enough to be observed and recorded (Glista et al, 2009; Santos et al, 2011). If the spatio-temporal patterns of road kills are not accurately expressed in the data, optimal mitigation strategies cannot be determined. Equally problematic is the challenge of insufficient road kill data.

If road kill data is inaccurate and unreliable, then road kill prevention measures are unlikely to be effective (Lester, 2015; Bartonička et al, 2018). The mitigation procedures, themselves, are necessary to prevent as many AVCs as possible. The currently implemented mitigation measures, including fencing and wildlife-crossing structures, still face some challenges due to the environmental conditions of the surrounding landscapes within which they are used (Jensen, 2018; Canal, 2019; Tayade et al, 2019).

2.7.3 Poor enforcement of traffic laws:

Some road markings and signs are designed to lead to appropriate driver actions in order to prevent or reduce AVCs (Bartonička et al, 2018; Tayade et al, 2019). Tayade et al (2019) advocate the posting of speed limits, in order to address the challenges associated with AVCs. Speed limits do not typically reduce road kills if the animal is not easily visible to the driver (Husby, 2016). The distance between the animal and oncoming vehicles plays an important role in determining probability of an AVC occurring (Eloff & Van Niekerk, 2008; Hobday, 2010). Detection distances, specifically, are an important factor in determining the probability of an AVC. In Tasmania, the detection distances of animals differed with fur brightness; evidently species-specific (Hobday, 2010). Accordingly, driver awareness will play a significant role in preventing AVCs. Some driver attitudes also reflect a lack of awareness of

animal road mortalities, which further emphasises the weak enforcement of traffic laws (Tayade et al, 2019). In such instances, the posting of road warning signs are unlikely to mitigate AVCs. In southern Michigan in the USA, 1635 drivers responded to a questionnaire by Marcoux & Riley (2010), in regard to deer-vehicle collisions. Only 39% of the respondents said they would definitely reduce speed upon seeing a deer-crossing sign. Lee & Croft (2008) have asserted that driver awareness is paramount to the success of AVC prevention. Kioko et al (2015) conducted a study in Northern Tanzania, interviewing drivers who frequently used the 40 km and 35 km transects on the Makuyuni-Babati and Karatu-Makuyuni roads, respectively. Their findings reflected that drivers were unaware of the species most frequently hit by oncoming vehicles; that is, the majority of road kill victims were birds, but large mammals were far more recognised by motorists. Moreover, Kioko et al (2015) suggests that drivers intentionally hit those species which cause less damage to their vehicles, such as birds, dogs or frogs.

2.7.4 Counterproductive fencing:

As stated by Clevenger et al (2001b), AVCs can be clustered at fenced ends. When animals enter fenced rights-of-way from fence ends, they can become trapped by the fencing mechanism, increasing their risk of being hit by an oncoming vehicle (Puglisi et al, 1974; Foster & Humphrey,1995; Jensen, 2018). For instance, a 2 km road segment centred at the fenced ends of the Trans-Canada Highway, had a significantly high AVC rate (Clevenger et al, 2001b). Jensen (2018) states that fencing alone worsens the fragmentation effect of road infrastructure. As a consequence, fences that are not combined with wildlife crossing structures exacerbate the challenges faced by animals; as they try to manoeuvre from one habitat patch, to another. The presence of such an anthropogenic barrier, in consequence, impedes on the movement of animals and is counterproductive for reducing road kill numbers. In Utah, USA, Cramer (2014) determined that there were significantly higher mule deer success rates when wildlife crossings and fencing was combined as a mitigation measure, compared to when they were not. Additionally, on Route 175 in Quebec, Canada, road mortalities for medium-sized animals (such as porcupines) and red foxes were found to be higher in fenced ends than unfenced road segments (Bélanger-Smith, 2014).

2.8 Current geospatial technologies and software platforms in road kill research:

2.8.1 Geographic Information Systems (GIS) used in road kill studies:

GIS has been a useful tool and application in analysing road kills in space and time (Wilson, 2012; Kazemi et al, 2016; Heigl et al, 2017; Waetjen & Shilling, 2017; Bartonička et al, 2018; Kim et al, 2019). Notwithstanding the significance of temporal patterns, spatial analysis is one of the most commonly used methods for assessing the road kill patterns (Wilson, 2012; Kazemi et al, 2016; Arévalo et al, 2017; Bartonička et al, 2018; Kim et al, 2019). Spatial analysis can be defined as a means of observing the geographical patterns of data, and analysing the relationships between events occurring in a given space (Tenedório & Rocha, 2018). Consequently, spatial analysis can be used to specify locations within the geographical space in which particular events occur and assess specific distribution patterns using map visualisation, as demonstrated by Nyoni (2017). There is a range of tools and techniques used in spatial analysis, which include Kernel Density Estimation (KDE) and hotspot analysis, amongst others. One of the underlying principles for conducting a spatial analysis on road kills is the concept of spatial autocorrelation. Spatial autocorrelation considers how well object or event correlate with other nearby objects or events across a given spatial location (Altaweel, 2017). These objects or events are represented by values in spatial analysis (Kalinic & Krisp, 2018). If similar values are located near each other, there is positive autocorrelation; if very different results are located nearby, then negative autocorrelation occurs (Mitchell, 2005; Altaweel, 2017). Although the significance of similar objects being near to one another is relevant for understanding road kill patterns, the temporal component of these events offers equally important findings (Eloff & Van Niekerk, 2008; Bartonička et al, 2018). Several GIS tools and applications consider these temporal patterns of road mortalities (Kazemi et al, 2016; Arévalo et al, 2017; Bartonička et al, 2018; Meza-Joya et al, 2019). Analysing the spatio-temporal patterns of road kills is, thus, enhanced with use of certain tools, techniques and analyses in GIS. Certain apps (such as “Road kill” and “RoadWatch”) that enable more effective reporting of road kills can be used in conjunction with GIS to better assess road mortality patterns, and subsequently improve selected mitigation strategies.

The KDE method has been used by Bartonička et al (2018) to identify where AVC clusters occur along roads in the Czech Republic. The study used the KDE+ approach to determine the presence or absence of AVCs in a cluster (Bíl et al, 2013). This builds on KDE (Chung 2011) and estimates the probability density function of the underlying road kill data. The probability density function is the statistical expression that defines the likelihood of an outcome for a discrete random variable, as opposed to a continuous one (Dolan, 2019). A

challenge is that KDE produces a range of local maxima that are not differentiated from one another, because of the absence of a defined threshold. The absence of an objectively defined threshold result in clusters that are not differentially significant. In response, Bartonička et al (2018) resolved this problem by introducing Monte Carlo simulations (see Kenton, 2019), selecting only significant clusters and ranking each. Consequently, meaningful clusters were identified and the factors influencing these patterns could be determined. Clusters that are most meaningful can, further, be used to identify which portions of the road are most prone to AVCs (Bartonička et al, 2018). The study noted that 27.4% of AVCs occurred in clusters.

Hotspot analysis has been used in several AVC and road kill studies. Wilson (2012) conducted a hot spot analysis to identify critical areas of road kill occurrences in Southern California. In identifying the nearness and patterns of points (road kills), the aforementioned author was able to locate significant clusters of road kills. Eight hot spots were identified in the study, with seven of these showing high concentrations of road kill in urban land cover. This is an example of how hot spot analysis can identify important areas for mitigation. Bissonette & Cramer (2008) performed a hot spot analysis in a GIS to identify high concentrations of road kills. They subsequently provided safe wildlife passages on identified high-risk roads. Galinskaitė et al (2022) assessed animal-vehicle collisions in Lithuania using an optimised hot spot analysis, evaluating the influence of landscape structure on these events. Although hot spot analysis can inform state decision-making for mitigation measures, Waetjen & Shilling (2017) have noted the limits of its utility. These authors have previously observed that the identified hotspots only reflect reported AVCs and road kills, as opposed to the totality of that which occurred. Accordingly, the larger the number and scale of road kill observations, the more potentially reliable these records will be for better informing mitigation strategies.

2.8.2 Using smartphone and web apps for road kill observations:

Several web-based road kill reporting applications incorporate smartphone devices (Shilling et al, 2015). Participation of the public, for a larger scale of road kill reporting has been greatly encouraged through the use of apps (Vercayie & Herremans, 2015; Saxena et al, 2019). In the UK, the Project Splatter app recorded 15 631 road kills in 2019 (Project Splatter, 2020). Two apps, both developed in India, by separate conservation non-government organizations (NGOs), are freely available for use by the general public for reporting road kills; “Road kill” by the Wildlife Conservation Trust, Mumbai and “RoadWatch” by the

Wildlife Trust of India, Noida (Saxena et al, 2019). "Road kill" aims to make data collection an equal opportunity for all members of society, to improve the planning and implementation of mitigation strategies (Road kill, 2020). The "RoadWatch" app aims to map road kill hot spots and determine those species which are worst affected by AVCs (Saxena et al 2019). In the time of writing "*Saving wildlife on India's roads needs collaborative and not competitive efforts*", Saxena et al (2019) reports that the website revealed 873 road kill observations. Subsequently this app will use the collected road kill data to assess current mitigation measures. In regard to "RoadWatch", particularly, mapping of road mortality hot spots bares similarities with GIS applications in spatial and temporal analyses that examine the present clusters. However, the presence of these two apps launched by different organisations of the same country risks skewing data in the different areas visited (Saxena et al, 2019). A coalesced effort by both organisations would unify findings and better advise mitigation measures.

2.9 Conclusions and Recommendations:

This review critically analysed the patterns, factors and impacts of AVCs, paying particular attention to the subsequent road kills. Roads share an important relationship with the fauna and surrounding areas; the impacts of which were found to depend on several different factors. The development and expansion of road infrastructure pivotally alters the natural landscape and shapes human-animal interactions. One of the most significant outcomes and challenges from these interactions are road kill. To address these challenges requires evaluating the presently used methods to report, record and observe road kill. Studying the spatio-temporal patterns of road kill serves as an effective means to analyse and address underlying factors of AVCs. Spatial proximity to natural resources, quality of road infrastructure, traffic volume, vehicle velocity, landscape, climate, weather, and animal behaviour, are especially influential over where and when animal-related accidents occur. However, current mitigation strategies used to address AVCs suffer from the present gaps in research. Addressing these gaps include advancing the current GIS tools, applications and other technologies applied in road kill studies. This review recommends for more holistic road kill studies, increased spatio-temporal coverage of observations, greater usage of citizen science, and the development of road kill apps that better incorporate GIS.

CHAPTER 3: METHODS

3.1 Study area:

3.1.1 Land use activities, topography, vegetation and climate:

The study area (see Figure 3.1) is located in South Africa, and particularly in the provinces of KwaZulu-Natal and the Eastern Cape. Agriculture is the dominant land use activity in both provinces. KwaZulu-Natal has a diverse range of agriculture dedicated to its land; the majority of which is used for livestock production (Trade and Investment KwaZulu-Natal, 2022). The Eastern Cape Province is well-known for its farming of fruits, goats, and dairy (Nelson Mandela Bay Tourism, 2022). The topography of the Eastern Cape is predominantly mountainous, with significant variation of slope from 0-63° (Britannica, 2020; Tesfamichael et al, 2022). KwaZulu-Natal is similarly hilly and mountainous, and this is especially true for Kokstad and its surrounding areas (Turpie et al, 2021; South African History Online, 2022). There are 40 protected areas found in the study area, including nature reserves and marine protected areas (see Figure 3.4). These protected areas feature a large biodiversity of fauna, including some with threatened conservation status. For example, north of the Eastern Cape, is the Matatiele Nature Reserve, a conservation site for the endangered bird species, Rudd's Lark (*Heteromirafra ruddi*) (BirdLife, 2023). Near Komani, is the Lawrence De Lange Nature Reserve, which features several large mammals such as giraffe (*Giraffa camelopardalis*) and rhinoceros (*Ceratotherium simum* (South Africa Venues, 2023). The Cedarville Protected Environment serves as a habitat for endangered bird species such as the wattled crane (*Grus carunculata*) and grey crown crane (*Balearica regulorum*) (European Outdoor Conservation Association, 2018). Although the Eastern Cape and KwaZulu-Natal Provinces feature ten biomes overall, only eight of these are found in the study area; namely, Albany thicket, Azonal vegetation, Forest, Grassland, Indian Ocean Coastal Belt, Nama-Karoo, Savannah, and Waterbodies (Muchina & Rutherford, 2006; Klopper et al, 2020; Tesfamichael et al, 2022). The vegetation of the research area varies and includes dense, herbaceous, woody, alluvial, and multi-layered varieties, as well as grasses, thickets, trees, succulents, semi-succulents, and shrubs (Muchina & Rutherford, 2006). Regarding climate, the portion of the study area in the Eastern Cape typically experiences lower temperatures in the eastern parts, and warmer ones in the west (Zhengming et al, 2015). Average rainfall in the east of the Eastern Cape typically ranges between 15 mm to 104 mm per month; the south-western parts of province experience a slightly higher average (Funk et al, 2015). For

the KwaZulu-Natal Province, temperatures are typically temperate inland and more tropical towards the coast (Klopper, 2020). Rainfall in KwaZulu-Natal is higher in the eastern parts of the province, at as high as 1400 mm as the mean per year, while being lower in the central areas, at approximately 900 mm (Ndlovu et al, 2021).

3.1.2 Road network:

The study focuses on selected routes located along Komani and Kokstad. Not all routes necessarily run between Komani and Kokstad. Komani, also known as Queenstown, is in the Chris Hani District Municipality, in the middle of the Eastern Cape between Cathcart and Sterkstroom. This town is held in high regard for its farming district; and particularly cattle and sheep farms (South Africa Online, 2022; Seeff, 2022). Kokstad is a small town in the Harry Gwala District Municipality off KwaZulu-Natal. This area is known for specialising in the farming of livestock (South African History Online, 2022). The geographic coordinates for Komani and Kokstad are -31.9127°S, 26.9597°E, and 30.5096°S, 29.4063°, respectively. The distance between Komani and Kokstad is approximately, 411 kilometres (km) when travelling via the N2 and R61; 398 km travelling via the R56 and R410; and 404 km travelling via the N2 and R410 (Distantias, 2021). The focus of the study area is the N2, N6, R56, R58, R61, R349, and R396 (as well as smaller connecting roads) for AVCs between Komani and Kokstad. The N2 is a national route in South Africa. The route runs along from Cape Town, in the Western Cape Province, to Durban in KwaZulu-Natal, through the Eastern Cape, and finally to Ermelo in Mpumalanga. The N6 joins East London with Bloemfontein via Komani and Maletswai. The R56 is a provincial route that connects Middleburg with Pietermaritzburg via Molteno, Maclear and Kokstad. The R61 is a provincial route that connects Beaufort West with Port Shepstone via Graaff-Reinet, Komani, Mthatha, and Port Edward. R58 is a similar route that connects Colesberg with Ngcobo via Aliwal North, Khowa, and Barkly East (National Department of Transport, 2012). The N2, between Mthatha and Kokstad and the R61, between Komani and Mthatha, are considered some of the most dangerous roads in the country; one of the reasons for this attained status is due to the frequent that occur (BusinessTech, 2019). The R63 is a provincial route in Graaf-Reinet Central that meets the N9 and R61 that share one road southwards before the R63 becomes a road on its own south-south-east in the Graaf-Reinet southern suburbs (National Department of Transport, 2012). The R67 starts from Port Alfred and travels north-north-west for 54 km as the Blaauwkrantz Pass to reach an interchange with the N2 south of the Makhanda town centre (National Department of Transport, 2012). The R349 is a regional route that runs from

the N2 north-east of East London to Kei Mouth and Morgan's Bay. The R396 is a regional route that connects the N2 north of Mthatha to Lady Frere through Maclear, Rhodes, Barkly East and Indwe (National Department of Transport, 2012).

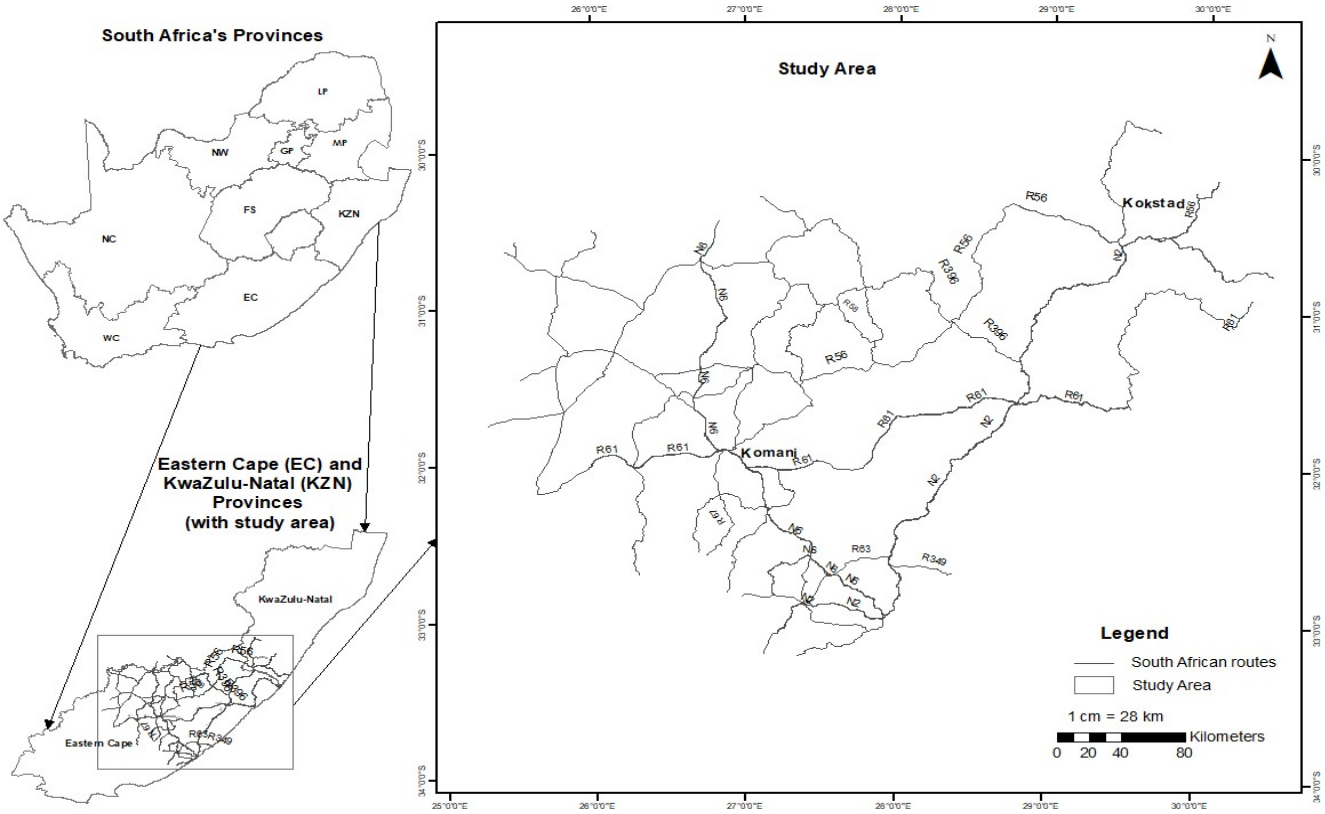


Figure 3.1: Study area including selected routes between Komani and Kokstad, in the respective provinces of the Eastern Cape and KwaZulu-Natal, South Africa (Source: ArcGIS Online, 2022).

3.2 Research methodology:

The quantitative research design was employed to study the phenomena. Quantitative methods utilise numbers and statistics, quantifying the data to identify patterns (Cresswell et al, 2003). The relevant data acquired in this study requires statistical and geostatistical analysis to make sense of the findings. A GIS-based case study approach was applied for understanding the patterns of AVCs in the study area. A case study enables the researcher to examine data or phenomena within a specific, real-life context (Yin, 2003; Zainal 2007). The researcher is, therefore, able to develop and present an in-depth study and view of a particular entity, event, or phenomenon (Rule & John, 2011). Thus, a particular set of results are

generated, and generalisations are made about the formed patterns in the data. Accordingly, different GIS techniques, including spatial autocorrelation and optimised hot spot analysis, were used to describe and present the trends in the data, through generating maps of the AVCs taking place along the routes between Komani and Kokstad. All temporal and spatial data not directly associated with AVCs were similarly analysed using statistical analyses consistent with the quantitative research approach. These statistical techniques included Spearman Rank Correlation. Figure 3.2 illustrates the research methodology for the study.

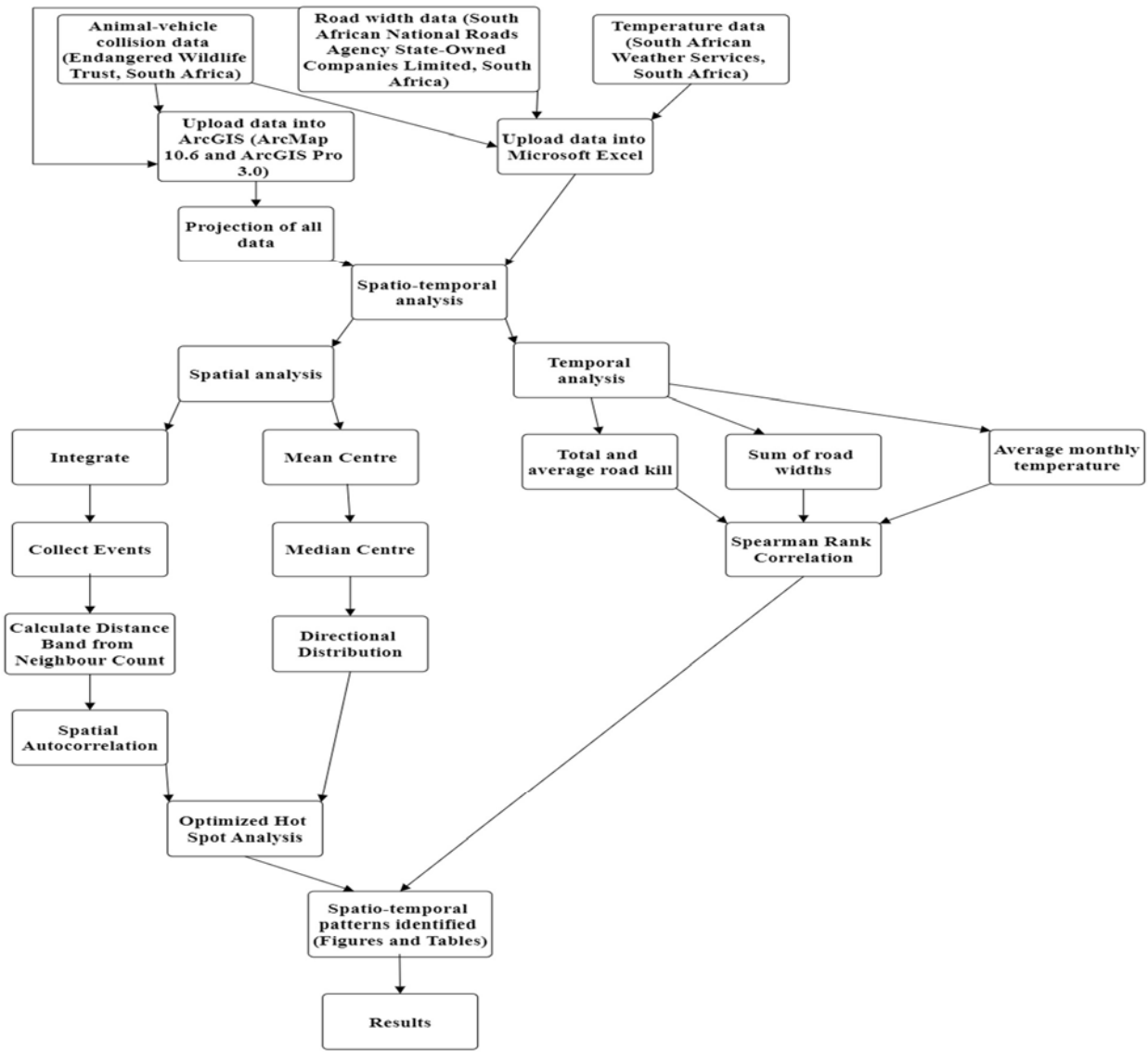


Figure 3.2: Research methodology for the present study.

3.3 Spatial data and methods:

ArcMap 10.6 and ArcGIS Pro 3.0 served as the software applications to conduct an analysis of the data and all other associated operations in a GIS. This study specifically utilised spatial

data requested from the database of the Endangered Wildlife Trust (EWT), an organisation that collects data on road kill throughout South Africa (EWT, 2023a). The EWT contains, considerably, South Africa's largest road kill database (EWT, 2023a). The data consists of the records of accidents that involved collisions with animals from the period 2007 to 2020. Associated attribute data with each point included, where possible, the date of recording, species name of the road kill, and the affiliation of the person who reported the incident. Certain components of the attribute data therefore constitute temporal elements to be used in the analysis. The road kill data has been provided in the form of a shapefile, stored in a zip folder.

When analysing the data, it should be noted that these records do not necessarily encompass all road kill in the study area, for the period from 2007 to 2020. Rather these records are simply road kills reported specifically to the EWT. All participants who record these road kills can either email the details of the road kill to the EWT, or use the organisation's official application (app), RoadWatch, available for mobile phones (EWT, 2023a). Regardless of the method used, details of the road kill identified must be submitted, including the geographical coordinates of the observation, the date of the recording, and the species name, among other important information.

These records were collected by members of the EWT, relevant authorities and citizen scientists. From the 249 records, 199 were recorded by the EWT. Two officials of the organisation, specifically, were responsible for collecting road kill data in the study area, in the period of interest; Ronelle Visagie and Bradley Gibbons (see Appendix 2). Ronelle Visagie is a coordinator at the EWT and Bradley Gibbons works as a field officer for the organisation (EWT, 2011; EWT, 2023b). One of the road kills was recorded by a member from the ISpot community in South Africa, Gerhard Diedericks (ISpot, 2023). Another road kill was recorded by a Tony Rebello, a researcher at the South African National Biodiversity Institute (iNaturalist, 2023). The remaining 48 records were from citizens scientists. A citizen scientist refers to a member of the general public, who has no scientific background or experience, but actively contributes to data collection for a specific project or initiative (Silvertown, 2009; Saxena et al, 2019). In this case, the EWT encourages citizen scientists to contribute to road kill research by either emailing the organisation details of the animal mortality they identify or using the app to record the observation. After carefully searching the EWT's associated website (EWT, 2023a), no information suggests that members of the

public are trained or supervised in recording details of the road kills they find. Furthermore, there is no clear indication of the monitoring intensity across the surveyed routes.

According to the Environmental Systems Research Institute (ESRI) (2022), incident data refers to phenomena typically represented as points. These visual representations are the subject of analysis in terms of their presence, concentration, and dispersal. The points have already been allocated locational X and Y coordinates for the longitude and latitude coordinates, respectively. These coordinates represent the latitudes and longitudes of each event. Since the spatial data already has X and Y coordinates, no geocoding was required. However, for an accurate and reliable geospatial analysis, the data was projected to a WGS 1984 Universal Transverse Mercator (UTM). This projection was applied to all other map layers included in the study.

Mean Centre, Median Centre, and Directional Distribution tools were used to evaluate the spatial distribution of road kills between Komani and Kokstad. The mean centre is used to identify the average geographic centre of concentration for all features or events (Nyoni, 2017; ESRI, 2022). Essentially, this tool returns the average X- and Y-coordinates of all features (ESRI, 2022). Thus, the mean centre spatial statistic tool was run to average the geographic centre of concentration for all road kills from the reporting period of 2007 to 2020. The median centre is a tool that returns an output location to minimise the Euclidean distance to all features (ESRI, 2022). This statistic is calculated by listing all X- and Y-coordinates in ascending order and identifying the middle value. The directional distribution tool outputs a standard deviation ellipse to illustrate and summarise the orientation of any given data (ESRI, 2022). Running this tool outputs all locations that vary in distance, by one standard deviation, from the mean centre (Wang et al, 2015; ESRI, 2022). The resultant visual can indicate where trends are oriented in the study area.

The Integrate and Collect Events tools were used as the spatial data cleaning techniques prior to the spatial autocorrelation and optimised hot spot analysis (see Sections 3.4.1 and 3.4.2). When conducting any hot spot analysis in ArcMap, the Analysis Field should be considered. The values associated with the events being analysed are typically included in the Analysis Field (ESRI, 2022). However, in many instances, incident data has no specific attribute value of interest for the study (ESRI, 2022). The intensity of the events spatially clustering or dispersing is of interest instead. If all values are the same or there is no significant value, a hot spot analysis is not viable (Nyoni, 2017). This is owing to the need for the Analysis Field

to have some variation in its input to perform the analysis (ESRI, 2022). For such instances, the incident data should be aggregated. Aggregating the data results in an ICOUNT field, which in turn serves as a suitable input for the Analysis Field. Therefore, the hot spot analysis can be successfully performed. Another reason for aggregating the data is if many points are in close spatial proximity to one another (ESRI, 2022). Since the study incorporates incident data that meet both aforementioned conditions, the Integrate and Collect Events tools were used to aggregate the data. The Integrate tool is used to assign the same coordinate location to feature (point) vertices that are within a specific distance of one another (ESRI, 2022). Given the significant proximity of the incident points, the Integrate tool was favourable for data cleaning. Thereafter, the Collect Events tool is used to aggregate data sharing the same coordinate locations.

After the Integrate and Collect Events tools have been applied to a dataset, a Conceptualisation of Spatial Relationships parameter should be selected. This parameter identifies spatial extent of neighbourhood relationships (ESRI, 2022). That is, the maximum distance at which a feature is influenced by similar, surroundings features. Features falling within the specified distance from a given feature are called neighbours and exert a degree of influence over it. The resultant neighbourhood relationships are then applied to subsequent analyses such as spatial autocorrelation and optimised hot spot analysis (see Chapter 4, Section 4.3). A distance band is recommended for incident data (ESRI, 2022), and was therefore selected as the conceptualisation for the study. Selecting an appropriate distance band is essential to ensuring each feature is sufficiently analysed in the context of its surrounding features. The Calculate Distance Band from Neighbour Count tool was used to determine a suitable distance band, thereby providing an appropriate spatial extent for the analysis. This spatial statistics tool returns three distance values based on the specified nearest neighbour, the minimum, maximum and average distances (ESRI, 2022). The maximum value is the distance between features that ensures every feature has at least the specified number of neighbours (ESRI, 2022). The minimum value refers to the distance that ensures at least one feature has the specified neighbour count (ESRI, 2022). The average value is the average distance between features and their nearest specified number of neighbours. The study used one neighbour for the tool and returned minimum, maximum, and average distances. Note that the tool uses the same unit of measurement as the dataset's coordinate system. For this study, the maximum distance was employed for the spatial

autocorrelation and optimised hot spot analysis. Therefore, every feature had at least one neighbour for the maximum distance.

Road infrastructure data was acquired from the South African National Roads Agency SOC Ltd (SANRAL) (see Appendix 3). The data was provided in the form of Microsoft Excel spreadsheets that consisted of road widths. Most road segments on the national network are managed by SANRAL (Williams et al, 2019), but the organisation only recently took responsibility for some of the provincial and local roads (SANRAL, 2022). Only the R56 and N2 could be accessed for the purposes of this analysis, due to time constraints and the lack of data available for the other roads surveyed in the study. Spearman Rank Correlation was used to test for correlation between road width and road kill. This type of correlation is useful for data that has outliers or is nonlinear (Schober et al, 2018). The equation can be expressed as follows:

$$p = 1 - \frac{6\Sigma d_i^2}{n(n^2 - 1)}$$

Where p is the Spearman Rank correlation coefficient, d_i is the difference between the two ranks of each observation, and n is the number of observations (Astivia & Zumbo, 2017).

Traffic data is, of course, a useful and prominent source for determining the extent of influence that vehicular movement has over road kills (Pagany, 2020). However, no traffic data was used in this study due to a lack of availability and accessibility.

3.4 GIS Spatial Statistics Techniques:

The following spatial statistics will be used to organise, describe, and present the records of AVCs that take place between Komani and Kokstad. The order in which these tools are discussed is based on the established workflow for the study.

3.4.1 Spatial Autocorrelation:

After running the Integrate and Collect Events tools, a spatial autocorrelation, or Global Moran's I, was used to determine whether the road kill data is clustered, dispersed, or random (Mitchell, 2005). This is realised when the variables in one location are considered and compared with those of every other location (Achu et al, 2019). Nyoni (2017) and Achu et al (2019) express this comparison as follows:

$$I = \frac{N \sum_i \sum_j W_{ij}(X_i - \bar{X})(X_j - \bar{X})}{\left(\sum_i \sum_j W_{ij}\right) \sum_i (X_i - \bar{X})\left(X_j - \bar{X}\right)^2}$$

In the context of this study, N is number of road kills, X_i and X_j are the observations at locations i and j, respectively, $\bar{X}$ is the mean of X, and W_{ij} represents the spatial weights between i and j.

The output of a spatial autocorrelation is the Moran's I index, Expected Index, Variance, z-score, and p-value (ESRI, 2022). These values indicate whether the clusters, if any, are statistically significant. For instance, a positive Moran's I and statistically significant z-scores and p-values indicate non-random clusters (see Figure 3.3) (Achu et al, 2019; 2021). A p-value is a probability about the observed pattern. A small p-value indicates a low probability that the observed spatial pattern occurs randomly (Mitchell, 2005). However, the z-score needs to fall within a range of certain values for the pattern to be non-random, and therefore significant. Z-scores are standard deviations, calculated in hotspot analysis. The local sum for a selected feature and its neighbours is compared the sum of all other features; and the actual local sum is significantly different from that of the expected local sum (Kalinic & Krisp, 2018). Generally, for any event data, a very large z-score and small p-value suggests an intense clustering of high values, resulting in a hotspot (Kalinic & Krisp, 2018). For example, critical z-scores when using a 90% confidence level are – 1.65 and + 1.65 standard deviations; the p-value associated with this confidence level is 0.10 (Mitchell, 2005). If the z-score is lower than – 1.65 or greater than + 1.65, then the p-value is smaller than 0.10, and the pattern is not random (Mitchell, 2005). If the pattern is meaningful, then there are considerable, underlying factors that have contributed to its presence. Spatial autocorrelation therefore serves to identify patterns in the phenomena, and the extent to which they are relevant in understanding the arrangement of the given features.

When running this tool, it is imperative to select an appropriate conceptualisation of spatial relationships (see Section 3.3). The Fixed Distance Band parameter was selected as the conceptualisation of spatial relationships. The maximum distance output from the Calculate Distance from Neighbor Count was applied as the value for the Fixed Distance Band parameter (see Section 3.3).

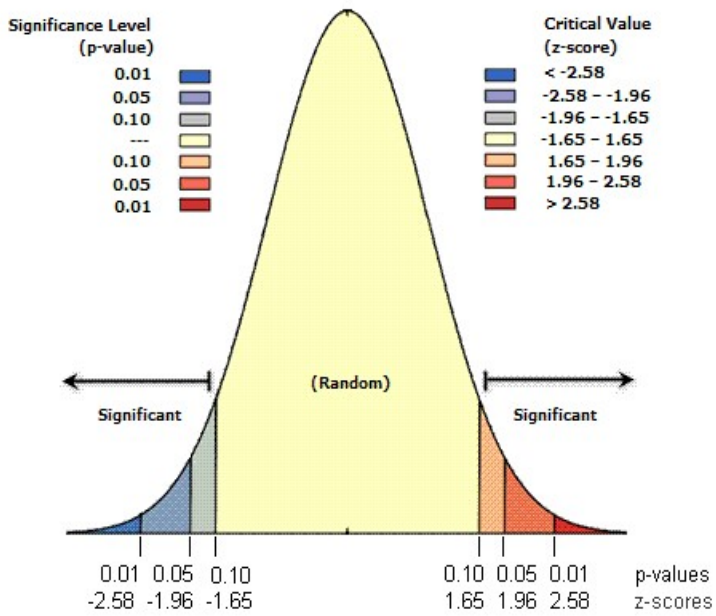


Figure 3.3: Global Moran's I values distribution (Source: ESRI, 2022).

3.4.2 Optimised Hot Spot Analysis:

Since incident data has been utilised for the study, the Optimised Hot Analysis tool was specifically run for road kills between Komani and Kokstad from 2007 to 2020. To understand optimised hot spot analysis, some background should be given to the Hotspot analysis tool in ArcGIS. Hotspot analysis, or the Getis-Ord Gi* statistic, allows for the researcher to determine whether clusters are random or explained by a spatial process; that is, non-random (Silverman, 1986; Kalinic & Krisp, 2018). The Getis-Ord statistics can be split into the G and Gi* statistic (Getis & Ord, 1992). The G statistic represents the global autocorrelation index and analyses the evidence of spatial patterns (Nyoni, 2017). Gi* statistics, on the other hand, are a local spatial autocorrelation index, used for differentiating cluster structures of high or low concentration (Manepalli & Bham, 2011). Getis & Ord (1992) express the Gi* statistic as follows:

$$G_i^* = \frac{\sum_{j=1}^{n} w_{ij} x_j}{\sum_{j=1}^{n} xj}$$

Gi* represents the statistic that describes the spatial dependency of incident i over all n events, xj represents the magnitude of variable X at incident location j over all n (j may equal i), and wij represents the weight value between event i and j, that represents their spatial

interrelationship (Songchitruksa & Zeng, 2010). Similar to KDE, hotspot analysis represents a feature or event as a point in GIS, and assigns it a value (Kalinic & Krisp, 2018). Taking the case of AVCs, each would have a value and be aggregated.

The Collect Events tool was used as input feature for the optimised hot spot analysis. The resultant ICOUNT served as the analysis field. Similar to running the Spatial Autocorrelation tool, the maximum distance of 39005,14 m was used as the input for the Distance Band parameter.

Given that these events serve as the spatial data, each AVC will have a neighbourhood, which comprises a group of other AVCs that surround it (Kalinic & Krisp, 2018). For a feature to be statistically significant, it will have a high value, surrounded by features that also have high values; or conversely, the feature can have a low value and be surrounded by other low values (Kalinic & Krisp, 2018). A high value surrounded by other, similarly high values is a hotspot. A cold spot, however, is a low value surrounded by other, similarly low values (Mitchell, 2005). When running a hotspot analysis, p-values and z-scores are considered to determine the significance of the clusters. Thus, a hotspot analysis will demonstrate if the AVCs clusters are non-random and, if they are, what spatio-temporal process might explain this pattern. The Optimised Hotspot Analysis tool performs hotspot analysis tool in ArcMap, using parameters that have been derived from characteristics in the data (Mitchell, 2005). This means that the characteristics of the road kill data serve as the parameters for determining how meaningful the clusters are.

3.4.3 Observations:

The observations of the research area's road conditions and instances of road kill serve to enhance the study's understanding of the contributing factors towards these events. If the surrounding environment can be realistically visualised, further knowledge is obtained about what makes certain locations a hot spot. For this purpose, field observations were carried out on sampled roads of the study area. Specifically, the R56, R58, R61, and N2 were surveyed in terms of road conditions and surrounding landscape. Photographs were taken using a Samsung Galaxy A04. The areas observed around these routes included Matatiele, Cedarville, Kokstad, Mount Fletcher, Elliot, Mthatha, Idutywa, Qumbu, Port St Johns, Mount Ayliff, Bizana, Flagstaff, Port Edward, Cala, Komani, and Butterworth, among others.

3.4.4 Protected Areas:

The ArcGIS Online platform provided the study with an open-source layer, that consisted of protected areas within the vicinity of the study area. A protected area refers to any space of conservation with intended protection because of its ecological or cultural value (International Union for Conservation of Nature, 2022). These spaces are typically occupied by several fauna. Figure 3.4 illustrates the protected areas included in the study.

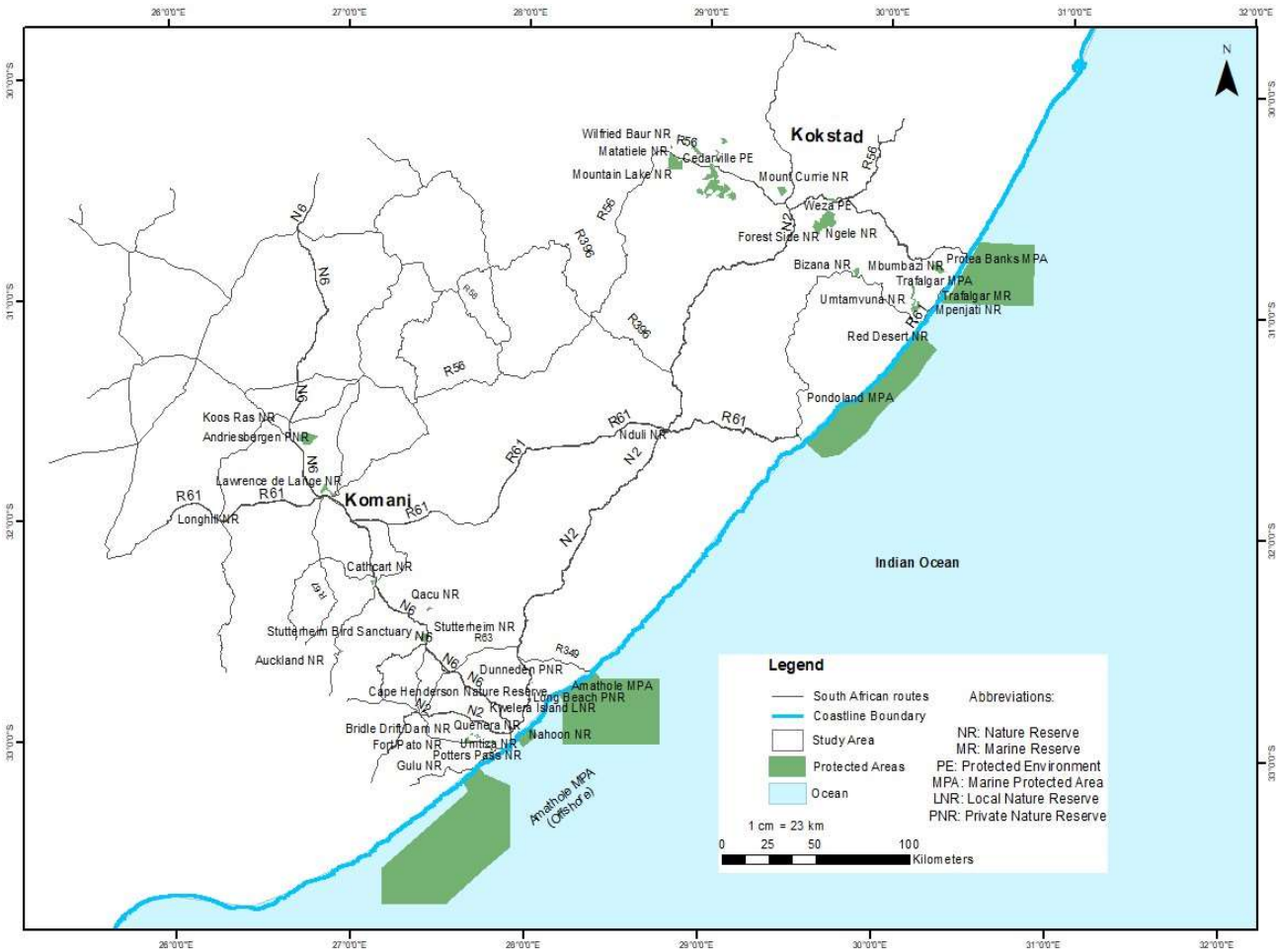


Figure 3.4: Protected areas in the study area (Source: ArcGIS Online, 2022).

3.5 Temporal data and methods:

Where applicable, road kill attribute data was exported from ArcMap to the Microsoft Excel spreadsheet for analysis. This data was compared with the acquired temperature readings to identify any potential relationships between road kill and temperature.

Climate data has been acquired from South African Weather Services (SAWS) (see Appendix 4), recorded by specific weather stations. This data was provided in the form of spreadsheets in Microsoft Excel. Unfortunately, the lack of data available for rainfall prevented incorporating precipitation into the analysis. Temperature data was recorded at the weather

stations of Komani, Kokstad, Aliwal-North, Barkly East, Bisho, Buffelsfontein, East London, Elliot, Matatiele, and Umthatha. Correlation analysis was performed using Spearman Ramk Correlation (see Section 3.3) for temperature and road kill in Microsoft Excel. In some instances, records contained missing or unreliable valuables. This was clarified by the provider of the dataset. Accordingly, the data has been analysed with consideration given to these challenges.

3.6 Analysis of applicable policies and legislation:

To provide a more comprehensive evaluation of the road kill patterns and the impacts of AVCs, several policies and legislation were examined for their relevance to AVCs. Those policies that focused on issues pertaining to the natural environment, conservation, biodiversity, or transport were selected for the study for further analysis.

CHAPTER 4: RESULTS

4.1 Spatial distribution of road kill:

The spatial component of road kill can assist road officials, conservationists and other relevant authorities in addressing where to combat AVCs. Those routes that have the most frequent instances of road kill should obviously be of concern when trying to mitigate collisions. Figure 4.1 displays the distribution of road kills within the study area. Most of the recorded road kills are prevalent on the R56, R58, N2, N6 R61, R63, R67, R349, R396, and smaller connecting roads. Some road kills have been identified off route. The Protected Areas layer is included in the analysis to evaluate for potential influencing factors such as proximity to these protected areas. This distribution can be better assessed using measures of central tendency (see Section 4.3.1). However, before exploring the spatial patterns in the data, it is useful to identify the species composition of road kill for the study area. The species composition can serve to infer some of the underlying factors of AVCs, and therefore serve as a guide for the outcome of the optimised hot spot analysis.

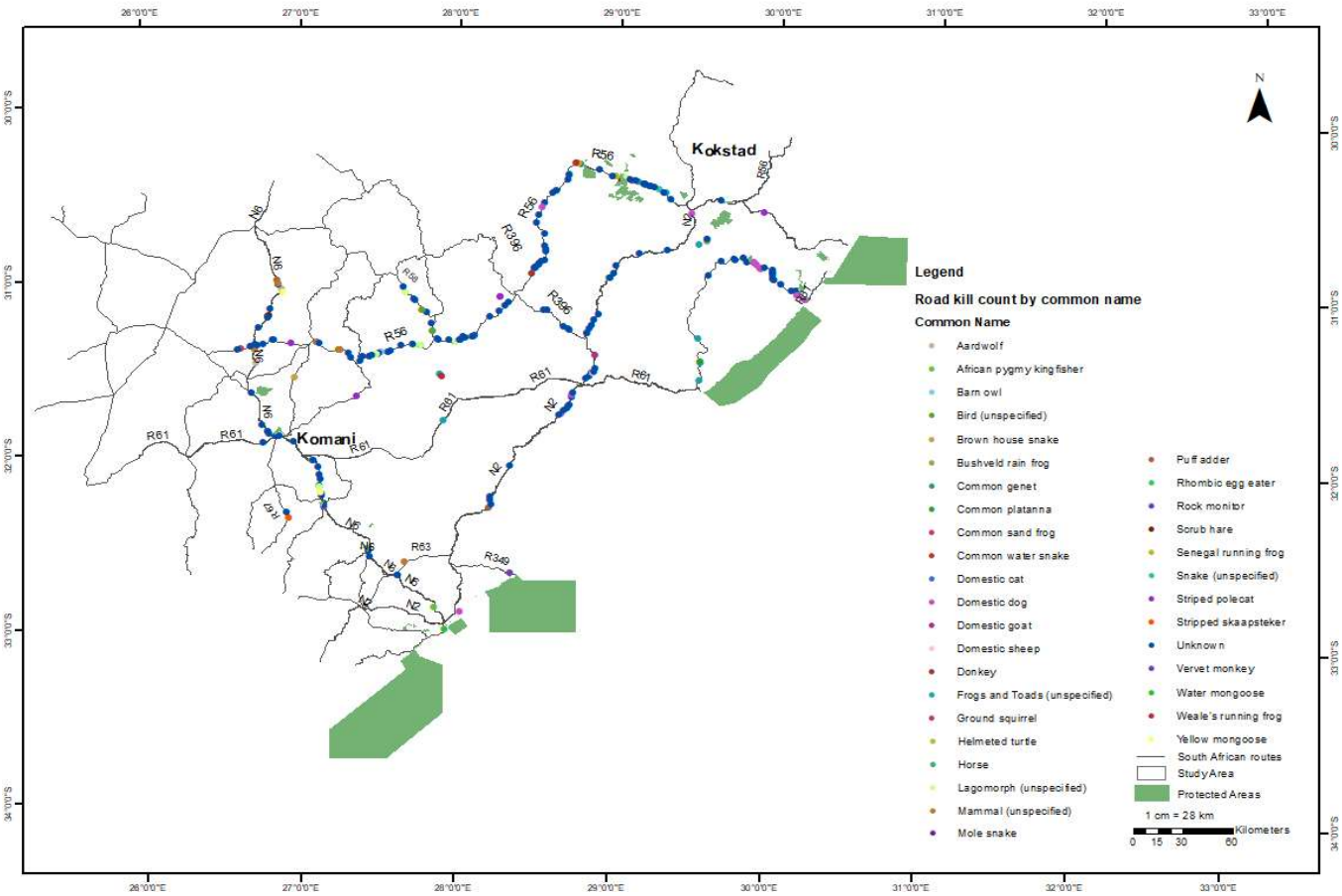


Figure 4.1: Spatial distribution of road kills based across the study area from the reporting period of 2007 to 2020.

The use of various colours denotes which species is grouped under a specific common name. For instance, note that barn owl (*Tyto alba*) road kills are symbolised with the colour Pennsylvanian 2. This helps visualise where specific animals are often colliding with vehicles. There is a rather noticeable feature of mostly unidentified, unknown animals comprising the road kill count. The comparison between counts for unknown animals and those that were identifiable becomes explicit in Figure 4.2.

Based on the records, a total of 35 different species accounted for road kill on the routes of the N2, N6, R56, R61, R396, and smaller connecting roads. However, some species such as lagomorphs, frogs and toads, were not specified as a particular species. The majority of road kills were characterised as unknown species. These road kills cover the majority of the study area on all routes, except the R63 and R349 (see Figure 4.1). In total, 154, or 61,88% of the recorded road kills were not identified as any particular species (see Figure 4.2). The highest number of known road kills were domestic dogs (*Canis lupus familiaris*), followed by unspecified frogs and toads, and lagomorphs that could not be specified further than the taxonomic order Lagomorpha (see Figure 4.2).

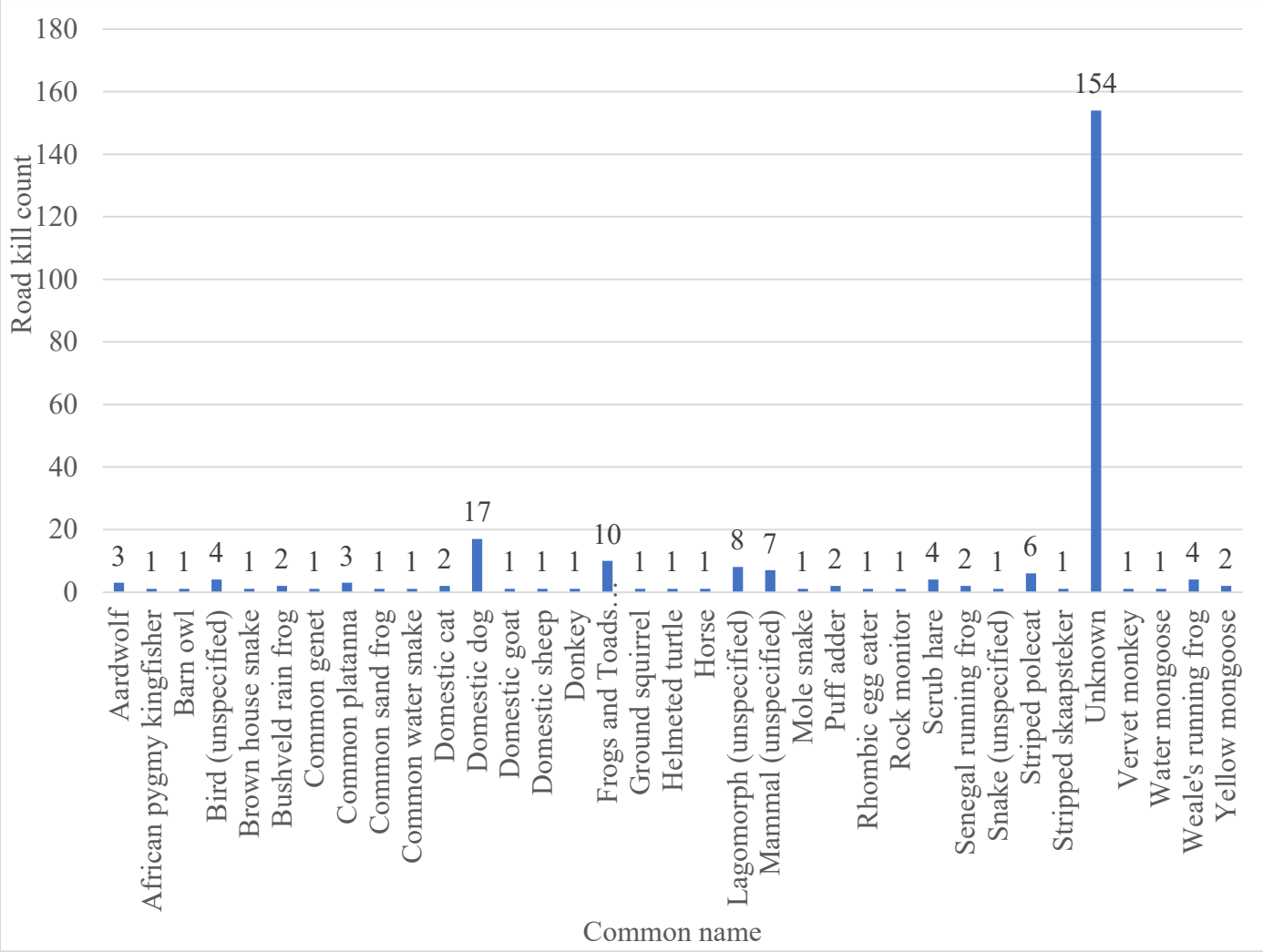


Figure 4.2: Number of road kills per species.

Based on the acquired attribute data, a significant number of these animals could be described only as blood splatters and stains upon observation. Figure 4.3 shows the specific proportion of unknown animals that were either identified as blood stains or had no stated means of identification. Among the 154 unknown road kills, 98, or 63,64% of these were simply smears and stains of blood on the roads on which they were found.

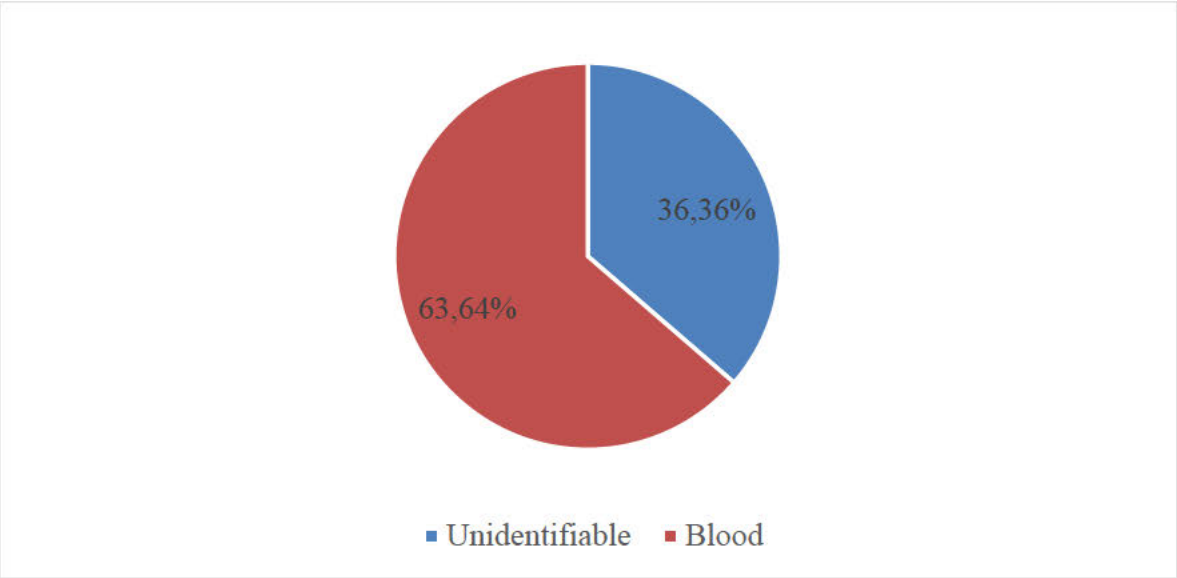


Figure 4.3: Proportion of unknown animal road kill traces.

Table 4.1 provides a list of all road killed species, their conservation status and population trends. The International Union for Conservation of Nature (IUCN Red List) (2022) and the Convention on International Trade in Endangered Species of Wild Flora and Fauna (CITES) (2022) were used as relevant guides on the conservation status of the identified species. No species was found to be under a threatened or endangered status. Trend in population numbers for each species were mostly either stable, increasing, unclarified, unknown or showing no trend at all (Amphibia Web, 2002; IUCN Species Survival Commission (SSC) Amphibian Specialist Group, 2013a; IUCN SSC Amphibian Specialist Group, 2013b; IUCN SSC Amphibian Specialist Group, 2013c; Do Linh San et al, 2015a; Do Linh San et al, 2015b; Gaubert et al, 2015; Green, 2015; Stuart et al, 2015; BirdLife International, 2016; Cassola, 2016; BirdLife International, 2019; Robinson et al, 2019; Alexander et al, 2021; Beraduccii et al, 2021A; Beraduccii et al, 2021B; Butynski & De Jong, 2022; Clement, 2022; Dewey & Bhagat, 2022; iNaturalist, 2022; Mileski, 2022; Pagan, 2022; Reavill, 2022; Toenjes, 2022; Wagner, 2022). However, vervet monkeys, water mongoose and scrub hare were all found to have decreasing trends in population numbers (Butynski & De Jong, 2022; Don Linh San, 2015a; Robinson et al 2019). The only road killed species that showed decreasing trends in population numbers were, thus, the scrub hare (*Lepus saxatilis*), vervet monkey (*Chlorocebus pygerythrus*), and water mongoose (*Atilax paludinosus*).

Table 4.1: Conservation status and population trends for road killed species (Sources: (Amphibia Web, 2002; IUCN Species Survival Commission (SSC) Amphibian Specialist Group, 2013a; IUCN SSC Amphibian Specialist Group, 2013b; IUCN SSC Amphibian Specialist Group, 2013c; Do Linh San et al, 2015a; Do Linh San et al, 2015b; Gaubert et al, 2015; Green, 2015; Stuart et al, 2015; BirdLife International, 2016; Cassola, 2016; BirdLife International, 2019; Robinson et al, 2019; Alexander et al, 2021; Beraduccii et al, 2021A; Beraduccii et al, 2021B; Butynski & De Jong, 2022; Clement, 2022; Dewey & Bhagat, 2022; iNaturalist, 2022; Mileski, 2022; Pagan, 2022; Reavill, 2022; Toenjes, 2022; Wagner, 2022).

Common name	**Conservation status**	**Population trend**
Aardwolf (*Proteles cristata*)	Least concern	Stable
African pygmy kingfisher (*Ispidina picta*)	Least concern	Stable
Barn owl (*Tyto alba*)	Least concern	Stable
Bird (unspecified)	Least concern	Stable
Brown house snake (*Lamprophis capensis*)	Least concern	Stable

Bushveld rain frog (*Breviceps adspersus*)	Least concern	Trend unknown
Common sand frog (*Tomopterna cryptotis*)	Least concern	Stable
Common genet (*Genetta genetta*)	Least concern	Stable
Common platanna (*Xenopus laevis*)	Least concern	Stable
Common water snake (*Lycodonomorphus rufulus*)	Least concern	Stable
Domestic cat (*Felis catus*)	Abundant	No trend
Domestic dog (*Canis lupus familiaris*)	Not threatened	No trend
Domestic goat (*Capra hircus*)	No special status	Stable
Domestic sheep (*Ovis aries*)	No special status	Increasing trend

Donkey (*Equus asinus*)	Least concern	No trend
Frogs and toads (Unspecified)	Species unclarified	Species unclarified
Ground squirrel (*Xerus inauris*)	Least concern	Stable
Helmeted turtle (*Pelomedusa subrufa*)	Least concern	Trend unknown
Horse (*Equus ferus caballus*)	No special status	Increasing trend
Lagomorph (unspecified)	Species unclarified	Species unclarified
Mammal (unspecified)	Species unclarified	Species unclarified
Mole snake (*Pseudaspis cana*)	Least concern	Trend unknown
Puff adder (*Bitis arietans*)	Least concern	Stable

Rhombic egg eater (*Dasypeltis scabra*)	Least concern	Trend unknown
Rock monitor (*Varanus albigularis*)	Least concern	Stable
Scrub hare (*Lepus saxatilis*)	Least concern	Decreasing trend
Senegal running frog (*Kassina senegalensis*)	Least concern	Trend unknown
Snake (unspecified)	Species unclarified	Species unclarified
Striped Polecat (*Ictonyx striatus*)	Least concern	Stable
Stripped skaapsteker (*Psammophylax tritaeniatus*)	Least concern	Trend unknown
Unknown (Unidentifiable)	Species unclarified	Species unclarified
Vervet monkey (*Chlorocebus pygerythrus*)	Least concern	Decreasing trend

Water mongoose (*Atilax paludinosus*)	Least concern	Decreasing trend
Weale's running frog (*Semnodactylus wealii*)	Least concern	Trend unknown
Yellow mongoose (*Cynictis penicillata*)	Least concern	Stable

4.2 Identifying road kill by classes:

Given that 154 species were classified as completely unknown, these animals were categorised as such when assessing road kill class. The unidentified road kills obviously spanned the widest spatial distribution compared to the other classes found on the road network; and the majority of which were found on the R56; more than 60 in number (see Figure 4.4). Mammalian road mortalities were the largest known class of road kill, followed by amphibians, reptiles, and finally avians (see Figure 4.5). The majority of road kills for mammals, amphibians, reptiles and birds were all found on the R56; at counts of 15, 12, 4 and 3, respectively (see Figure 4.4).

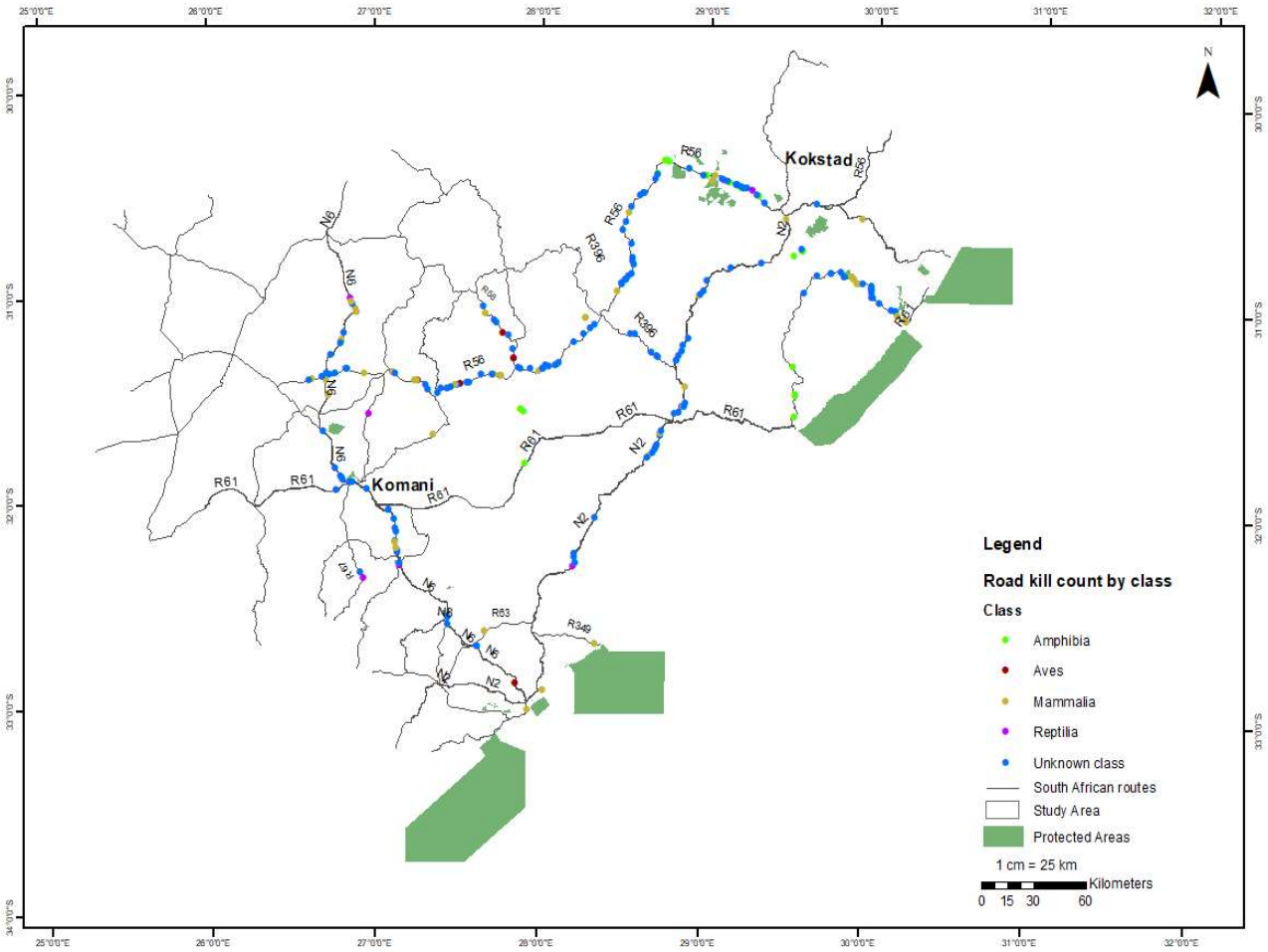


Figure 4.4: Spatial distribution of road kills based on species class from 2007-2020**.**

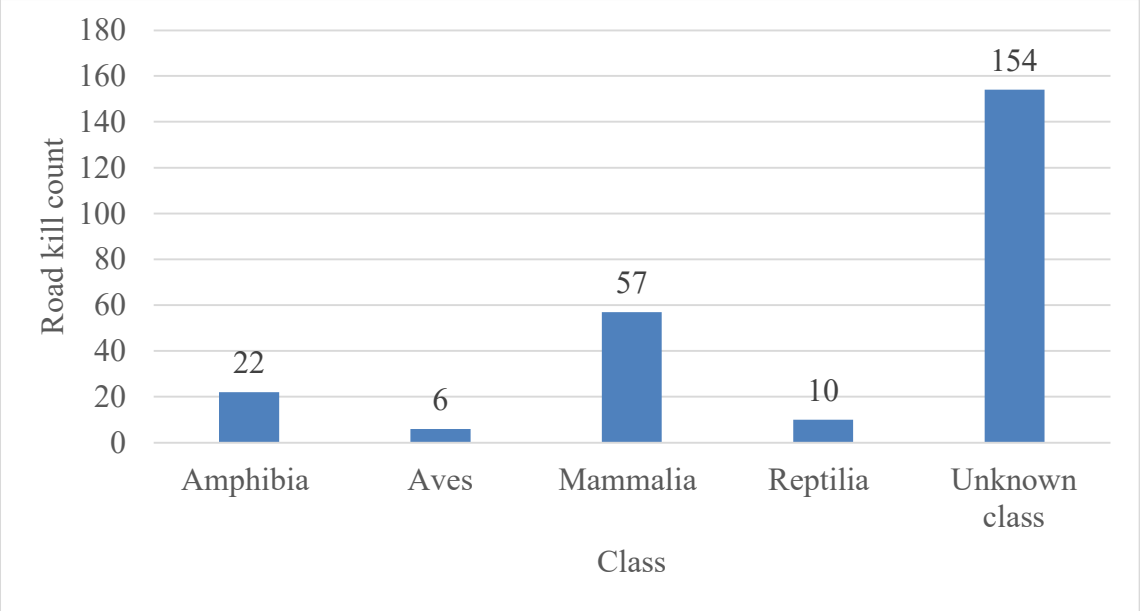


Figure 4.5: Counts for all classes of road kill**.**

4.3 Assessing the spatial patterns of road kill:

4.3.1 Exploring the spatial patterns of the road kill dataset:

The spatial distribution of road kill was evaluated using the mean centre, median centre and directional distribution. The output indicates that the mean is located fairly in the centre of the study area, though arguably closer to the north of this space. The median centre tool was run to return a value used in conjunction with the mean centre (see Figure 4.6). The results of the median centre demonstrate a location that is nearly identical to the mean centre of the road kills. This output suggests that there are no locations that have significant influence on the average location of features (Burt et al, 2009; ESRI, 2022). Therefore, there were not any locations with a strong influence on the average location of AVCs. The directional distribution's output demonstrates that the standard deviation ellipse is situated from south-west to north-east, with a rotation of 66.34 m (see Figure 4.6). A significant number of locations are located within one standard deviation of the mean centre; several of these road kills are found in the north-west, north-east and south-east quadrants. These results guide the visualisation of how AVCs are distributed across the study area and assist in identifying potential relationships between different features. The orientation of the standard deviation ellipse suggests that road kills concentrate more intensely towards Komani and Kokstad. This might be owing to their proximity to protected areas.

Prior to running the Spatial Autocorrelation and Optimised Hot Spot Analysis tools, the Calculate Distance from Neighbour Count was run to utilise to maximum distance. The results of the tool were minimum, maximum and average distances of 9.57 m, 39005.14 m, and 3118.68 m, respectively. Each feature accordingly had at least one neighbour for a maximum distance of 39005.14 m. As mentioned in Section 3.4, this distance was applied to all spatial analyses in the study.

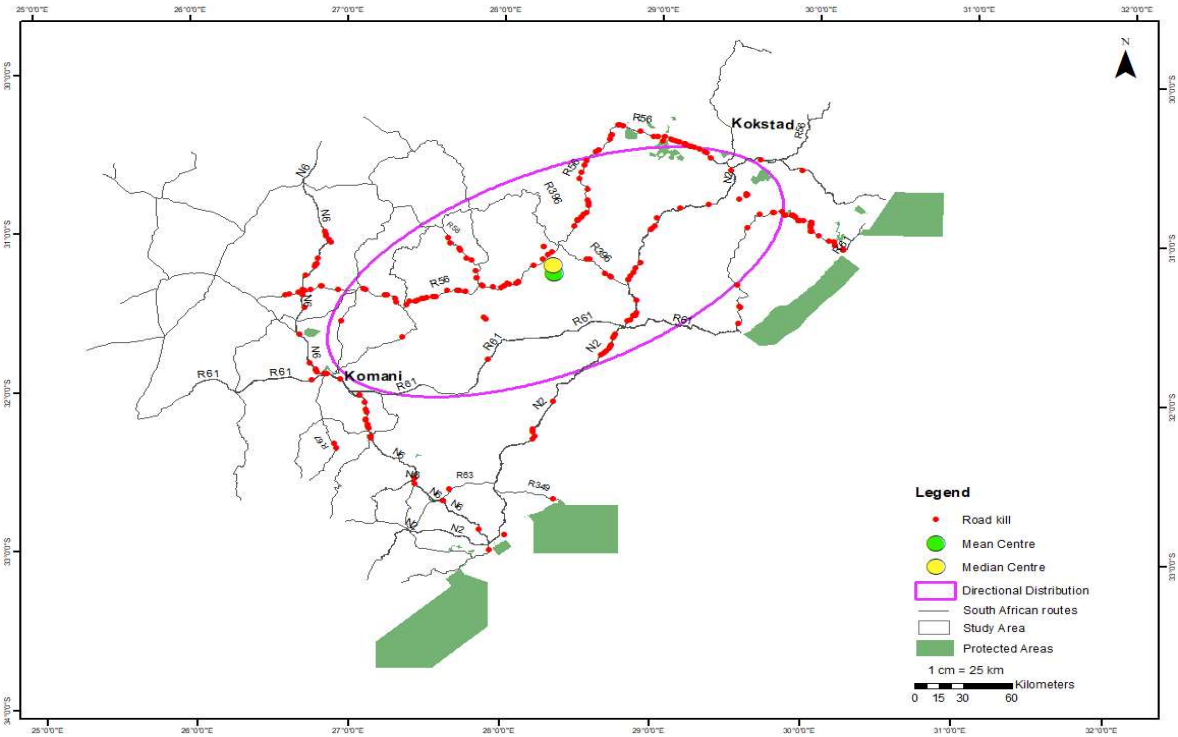


Figure 4.6: Mean centre, median centre, and directional distribution of road kills between Komani and Kokstad from 2007-2020.

4.3.2 Spatial Autocorrelation of total road kills between Komani and Kokstad from 2007-2020:

The tool's output reflected a z-score of approximately 2.63 and a p-value of 0.01, indicating a less than 1% likelihood of spatial randomness for road kill (see Figure 4.7). These results serve as grounds to reject the null hypothesis. Therefore, there is a high probability of statistically significant clustering among the AVCs in the study area. Evidence is also found in Moran's Index; that is approximately 0.05, which suggests that there is indeed, significant clustering for the study area.

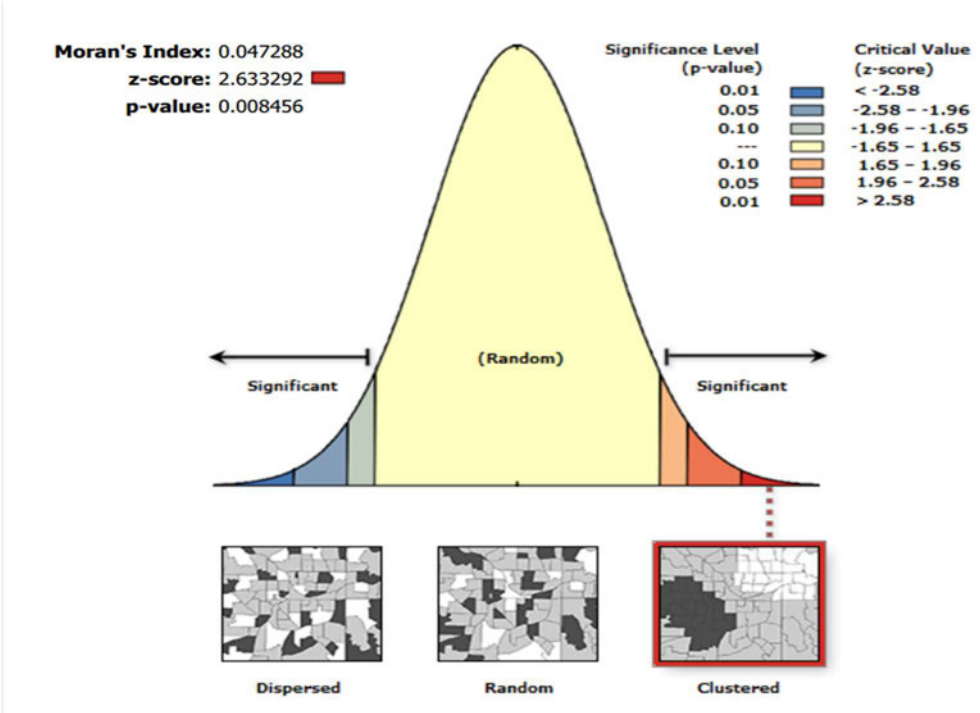


Figure 4.7: Spatial Autocorrelation of road kills between Komani and Kokstad from 2007 to 2020.

4.3.3 Optimised hot spot analysis of road kills between Komani and Kokstad from 2007-2020:

The optimised hotspot analysis tool returned 24 statistically significant hot spots (see Figure 4.8). Of these hot spots, 21 were within the 99% confidence interval and 3 were in the 95% confidence interval. All statistically significant hot spots were located on the R56 and N2 near Kokstad. On the R56, there were 23 statistically significant hot spots, whereas there was only statistically significant hot spot on the N2. The statistically significant hot spots on the R56 consisted of 21 within the 99% confidence interval, and 2 within the 95% confidence interval. The statistically significant hot spot on the N2 was within the 95% confidence interval. Based on the locations of these statistically significant hot spots, there is a seemingly greater likelihood of AVCs near Kokstad.

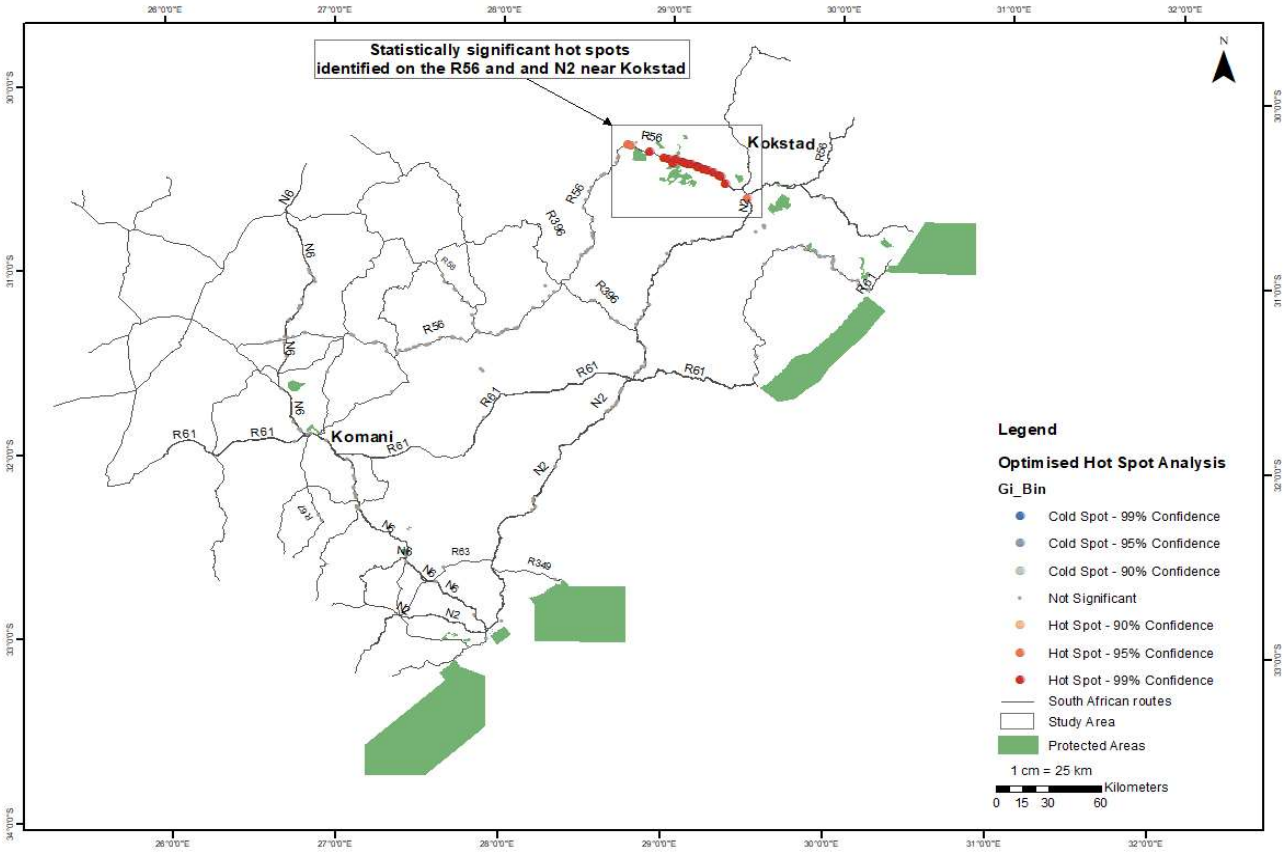


Figure 4.8: Optimised Hot Spot Analysis of road kills on selected routes between Komani and Kokstad from 2007-2020.

However, 18 of these hot spots were within the Eastern Cape, consisting of 16 at a 99% confidence interval, and 2 at a 95% confidence interval. There were only 6 statistically significant hotspots in KwaZulu-Natal, 5 at a 99% confidence interval and 1 at a 95% confidence interval. These statistically significant hot spots were found to lie roughly across or near the Eastern Cape and KwaZulu-Natal Provincial border (see Figure 4.9).

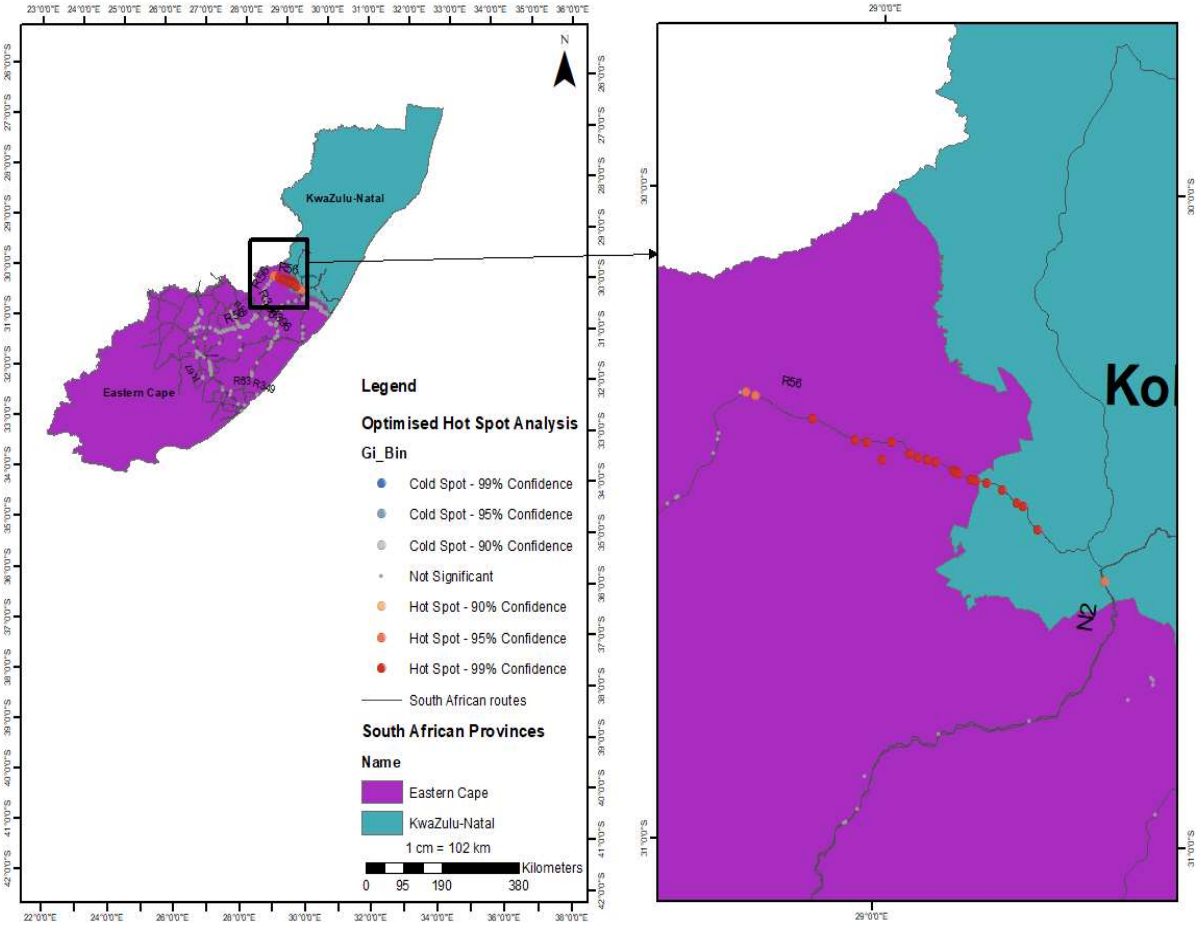


Figure 4.9: Statistically significant hot spots along the Eastern Cape and KwaZulu-Natal border.

4.4 Species characterisation within the local range of statistically significant hot spots:

From the local spatial range of statistically significant hot spots, most road kills are visibly unidentified, followed by amphibians, mammals and reptiles (see Figure 4.10). Amphibians compose the highest number of road kills among the known classes for this specified portion of the study area. These included Weale's running frog (*Semnodactylus wealii*), Senegal running frog (*Kassina senegalensis*), common platanna (*Xenopus laevis*), as well as unspecified frogs and toads. The mammals identified were scrub hare (*Lepus saxatilis*), an unspecified lagomorph, and a domestic dog (*Canis lupus familiaris*). Two reptiles were also identified within the local range of the statistically significant hot spots and composed the smallest class of road kills in this portion of the study area.

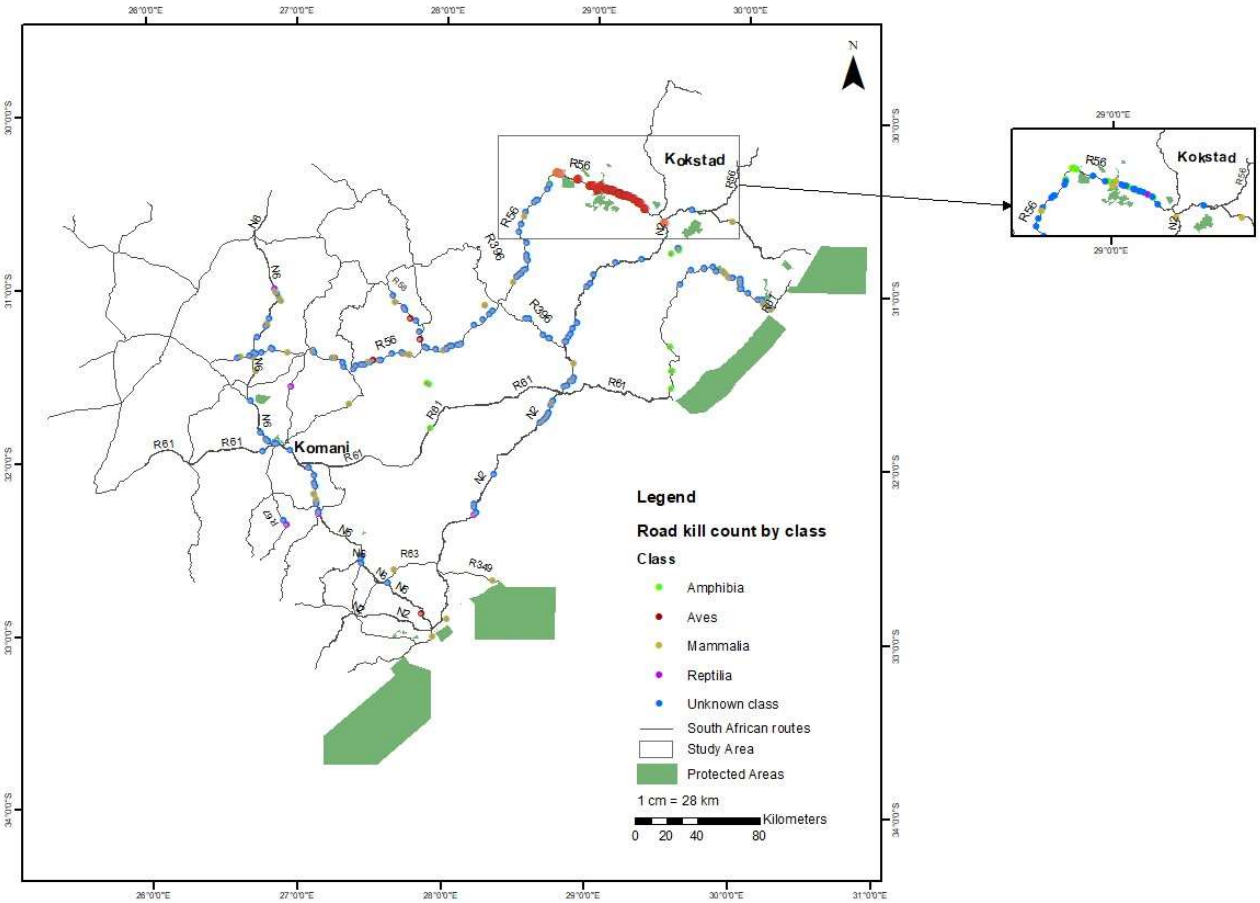


Figure 4.10: Species composition within local range of statistically significant hot spots.

4.5 Proximity to protected areas:

Statistically significant hot spots were found in close proximity to the natural areas of the Matatiele Nature Reserve, Mountain Lake Nature Reserve, Cedarville Protected Environment, Mount Currie Nature Reserve, Weza Protected Environment, and Ngele Nature Reserve (see Figure 4.11). The statistically significant hot spot on the N2 is specifically nearest to Mount Currie Nature Reserve, Weza Protected Environment, and Ngele nature reserve. Similar results are also found when considering amphibians in this part of the study area (see Sections 5.1 and 5.2).

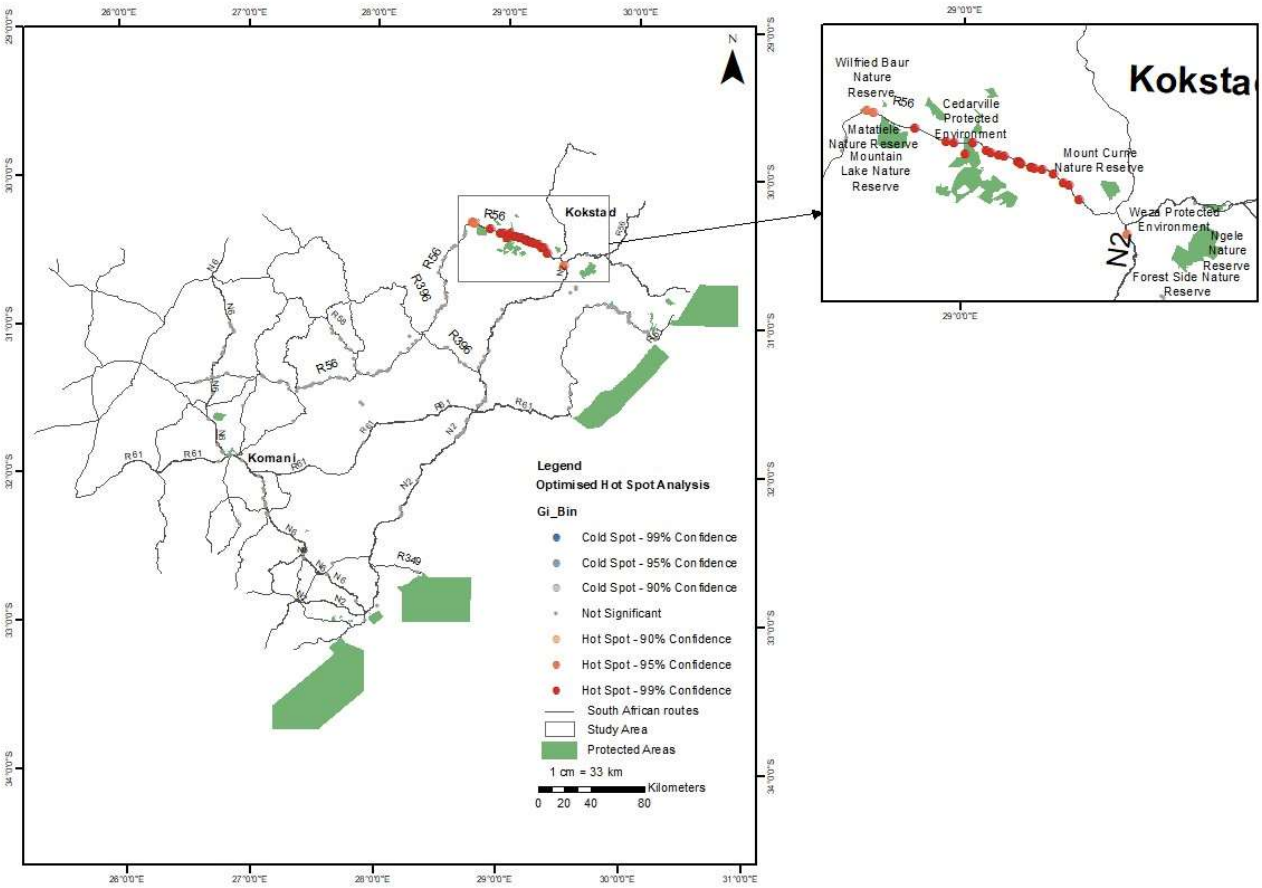


Figure 4.11: Statistically significant hot spots located near protected areas.

4.6 Road width:

The R56 and N2 were the only available data for road widths in the study area, and therefore were the only roads compared for analysis. Upon further inspection, all roads were found to be paved (SANRAL, 2022). Therefore, no relationship could be identified between the frequency of road kill, and paved and unpaved roads. Road widths for the R56 and N2 segments within the study area, were mapped and visualised (see Figure 4.12).

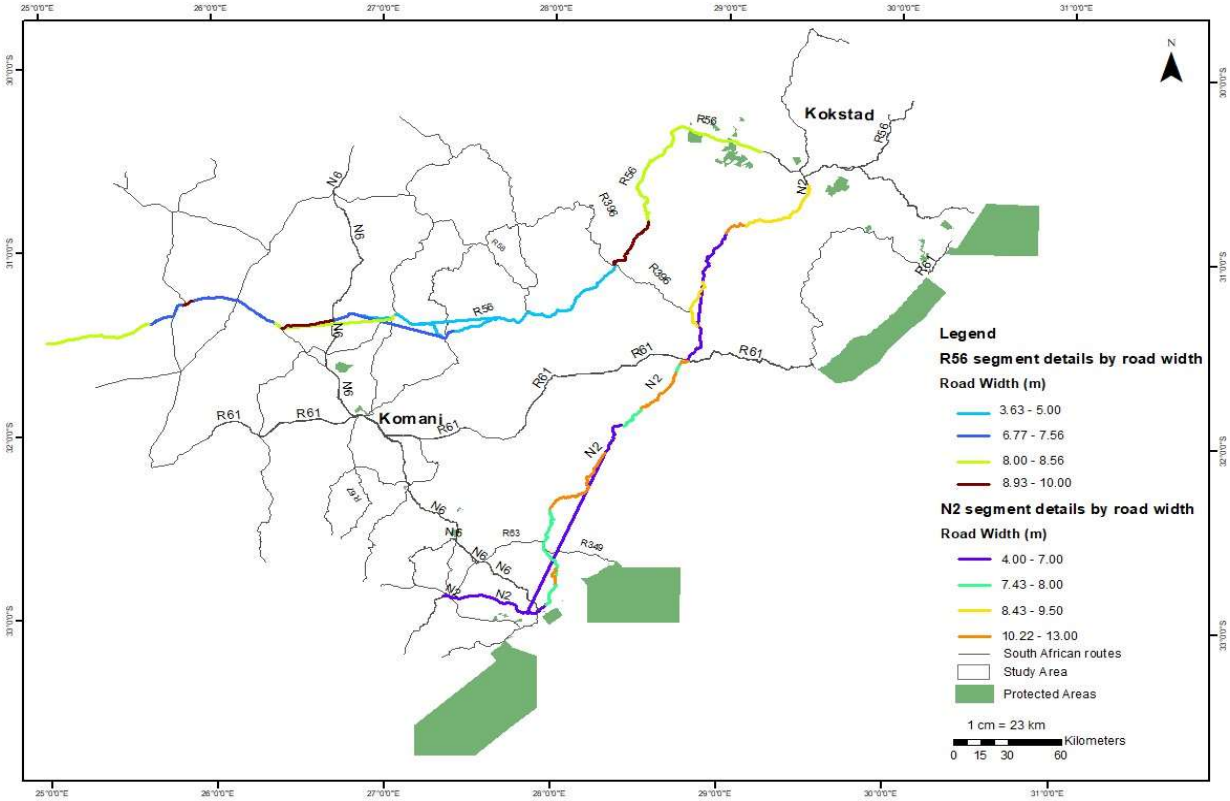
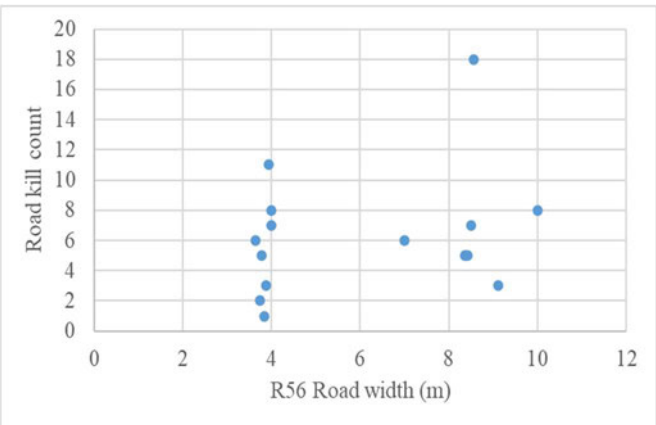
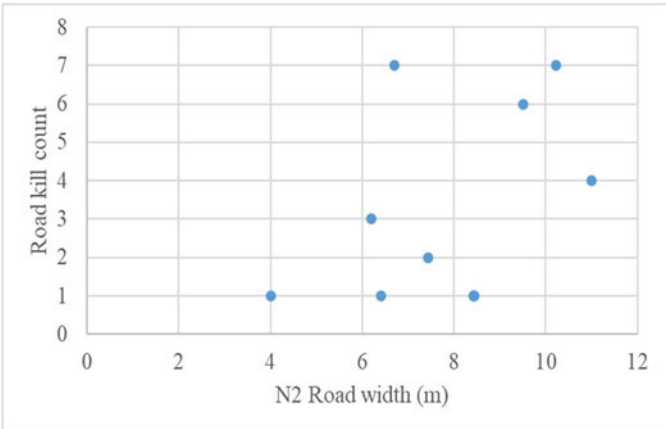


Figure 4.12: Road widths for R56 and N2 segments.

To test for any potential relationship between road width and animal mortalities, Spearman correlation was applied to the R56 and N2 both separately and combined. Analysis of the R56, particularly, found outliers and does not appear normally distributed (see Figure 4.13 A). Spearman correlation for road kills on the R56 road width returns a weak correlation (see Table 4.2). The N2 reflected a moderate and comparatively stronger correlation; that is, 0.433. This suggests a slightly positive correlation between road kill and road width on the N2 specifically, which is visualised in Figure 4.13 B.



A



B

Figure 4.13: Road kill count based on road width of the R56 (A) and N2 (B).

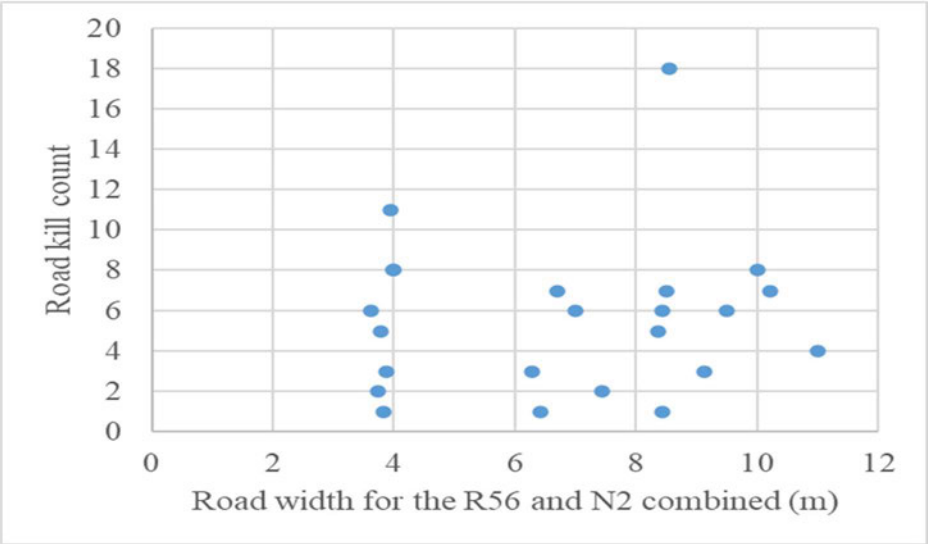


Figure 4.14: Road kill count based on the combined total road widths for the R56 and N2.

However, the overall correlation between road kill and road width for the R56 and N2, combined, revealed a very weak correlation. This value suggests that there isn't a significant relationship between road kill and road width for all the associated road width and road kill considered. Figure 4.14 equally confirms the presence of outliers and there is no normal distribution.

Table 4.2: Spearman Rank correlation value for selected roads.

Road	**Spearman correlation value**
R56	0.387
N2	0.433
R56 and N2 combined	0.195

4.7 Observations on sampled routes of the study area:

The following photographs taken, constitute the observations on the nature and condition of the sampled roads for the study area. The photographs were recorded using a Samsung Galaxy A04 Camera. The roads observed included the R56, R61, R58, and N2. Due to time

constraints and safety concerns; that is, significantly high crime rate, the N6 and short routes within the study area could not be visited for observation. These observations occurred on the sampled stretches of road that had either high or low counts of road kill. That is, observations were not restricted to stretches of road that featured hot spots.

4.7.1 R56:

The R56 features inconsistent road surface quality throughout the sampled stretches of road (see Figures 4.15 A-D). During the observations, there were no significant periods of raised road segments and curves were minimal. In the roads surveyed, the surrounding landscape is located nearby the road edges for most of this route (see Figures 4.15 A-D, K, L, O and P). Much of the surrounding landscape for the R56 consists of natural and agricultural areas (see Figures 4.15 A-O). The former includes protected areas such as nature reserves (see Figures 4.15 G and H), whereas the latter consists of either tribal or commercial farms (see Figures 4.15 A-C, E, F, I-O). For instance, the Matatiele Nature Reserve (see Figure 4.15 G) was found to be located closely to the R56. There is also metal fencing in place to restrict the movement of animals (see Figure 4.15 H). Overall, wooden and metal fencing were found in several parts of the sampled stretches of road such as those in Figures 4.15 A, C, F, I-K, N and O. In some agricultural areas, there are portions of land have been burned (see Figure 4.15 I) However, there were also roads that featured no significant fencing, such as that of Figure 4.15 L. Even in areas where fencing is present, animals were still found outside the fence (see Figures 4.15 K and O). The animals most frequently observed were livestock, including cows (*Bos taurus*), bulls (*Bos taurus*) and horses (*Equus ferus caballus*) (see Figures 4.15 B, E, K, L and O). There were few road signs relevant to informing motorists except for the occasional sign that warns of animals such as livestock (see Figure 4.15 J). There were also implemented speed limits such as the one in Figure 4.15 F. The sampled stretches of the R56 also revealed that parts of the surrounding landscape consist of wetland and various water sources (see Figure 4.15 M). Some communities also have their houses built close to the roadside; dogs (*Canis lupus familiaris*) were also found to frequent these areas (see Figure 4.15 P). The prevalence of the mammals on this road links with the majority of the mammalian road kill on the R56.

4.7.2 R61:

The R61 featured more raised road segments and curves (see Figures 4.16 A-G) compared to the R56. Some roads were also narrow (see Figures 4.16 C and E) Fencing was found in some parts of the surrounding landscape (see Figure 4.16 D). However, animals were still found to frequent this route freely regardless of whether fencing was implemented (see Figure 4.16 B). There is a lack of road signage relevant to cautioning drivers about the animals that cross these roads. Road kill of what appeared to be either a scrub hare (*Lepus saxatilis*) or another species of Lagomorph could be found on this route, in front of a curve in the road (see Figures 4.16 G and H).

4.7.3 R58:

The road surface quality and fencing structures are similar to those of the R56, although there are more curved roads on this route (see Figure 4.17 D). Livestock could be found on this route (see Figure 4.17 C), but not as prominently as the R56 and R61. There were a few road signs that served to warn drivers of the animals that cross these roads, such as in Figure 4.17 A. However, this signage was rare, and no other significant signs for warnings of animals crossing the road could be found. Wetlands and other water sources could also be observed (see Figure 4.17 B) on the R58, similar to the R56.

4.7.4 N2:

The stretches of road observed on the N2 were typically wider (see Figures 4.18 B and D) than those found on the R61. Roadside vegetation was typically not prominent on the edge of the road (see Figures 4.18 C and D). There were some instances of animals on the road, such as the group of birds, assumingly domestic ducks (*Anas platyrhynchos domesticus*) in Figure 4.18 A.

A

B

C

D

E

F

G

H

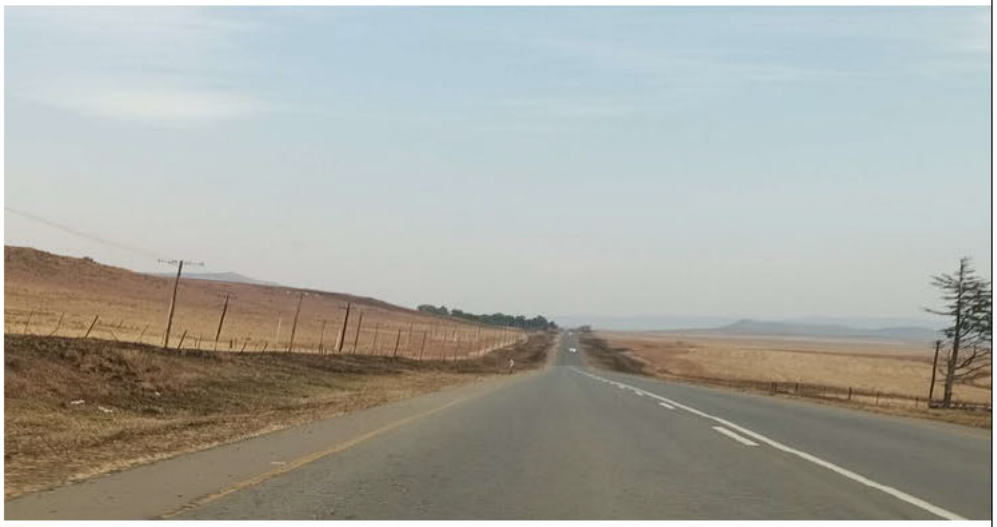
I

J

K

L

M



N

O

P

Figure 4.15 (A-P): Observations on the R56 in the Eastern Cape and KwaZulu-Natal Provinces.

A

B

C

D

E

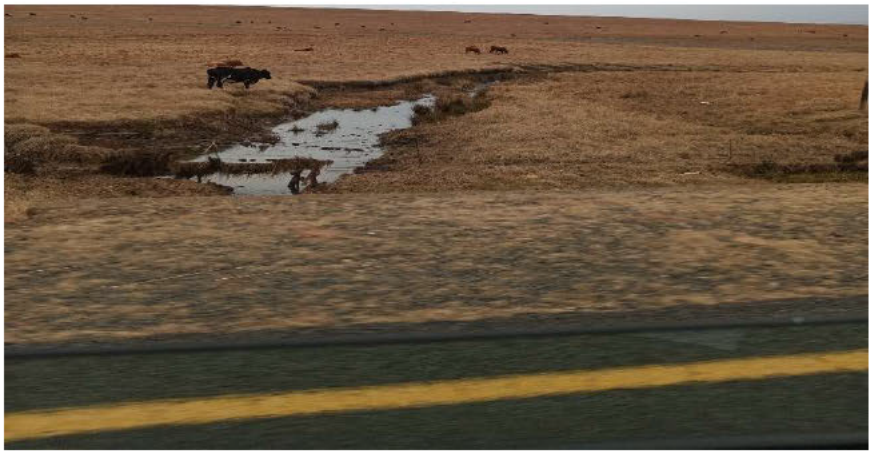
F

G

H

Figure 4.16 (A-H): Observations on the R61 in the Eastern Cape Province.

A



B

C

D

Figure 4.17 (A-D): Observations on the R58 in the Eastern Cape Province.

A

B

C

D

Figure 4.18 (A-D): Observations on the N2 in the Eastern Cape and KwaZulu-Natal Provinces.

4.8 Temporal trends in road kill data:

Road kills were considered in terms of their monthly and yearly distributions. Figure 4.20 provides a visual of the monthly distributions for road kill. Evidently, June (highlighted in Tuscan red) has had the highest count of recorded road kills for the period from 2007-2020. June road kills occurred primarily on the R56, R61 and N2. Among other trends, September road kills are particularly prominent on the N6 running south across Komani. This could suggest a frequency of road kills at the onset of spring for that route. January AVCs were most frequent on the R58 travelling towards the R56, whereas February road kills are particularly apparent on the N2. When analysing these trends, it should be, again, noted that these are only the road kills reported to the EWT within the study period (see Section 3.3). This dataset, therefore, might not totally represent all road kills in the study area.

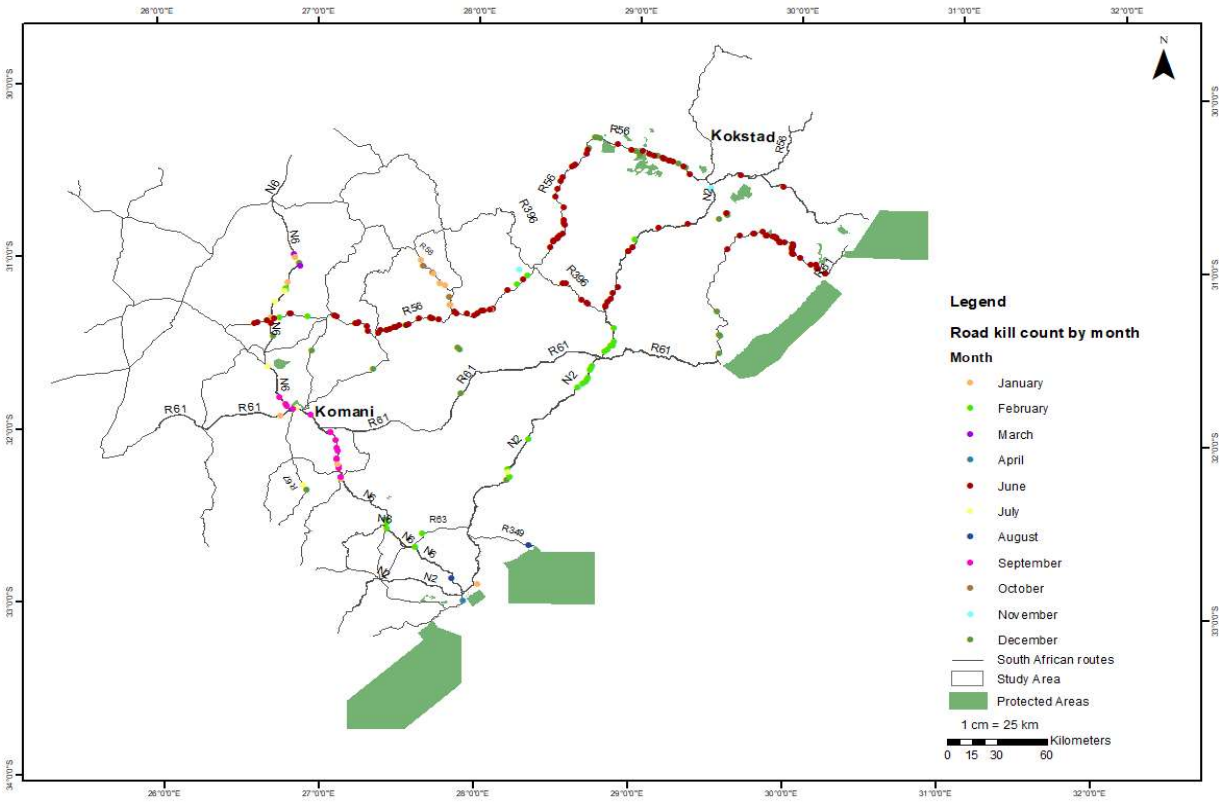


Figure 4.19: Road kill distribution based on month from the 2007-2020 reporting period.

4.8.1: Road kill counts by month:

Table 4.3 refers the exact counts of recorded road kill for each month. After June, the months of December and February had the highest road kill counts in the period from 2007-2020.

September and January follow thereafter in road kill count. October, November, March and April had fewer road kills, and none were recorded in May.

Table 4.3: Road kill counts for each month**.**

Month	**Road kill count**
January	14
February	34
March	2
April	1
May	0
June	131
July	8
August	2
September	15
October	3
November	5
December	34
Total	249

Mammal and Unknown road kills were reported mainly in June. Amphibian road kills were only identified in December; most reptile mortalities were also accounted for in this month. Bird road kill data was mostly recorded in January, but the month that closely followed for avian mortalities was June. In fact, only the amphibian and reptile road kills had no records for the month of June.

Table 4.4: Road kill count distributions for each class by the month.

Road kill class	**Proportion of counts based on month**
Amphibian	December (22 road kills)
Aves	January (3 road kills), June (2 road kills) and August (1 road kill)
Mammalia	January (4 road kills), February (9 road kills), March (1 road kill), April (1 road kill), June (29 road kills), August (1 road kill), September (2 road kills), October (1 road kill), November (5 road kills), and December

	(4 road kills)
Reptilia	January (1 road kill), March (1 road kill) and December (8 road kills)
Unknown class	January (6 road kills), February (25 road kills), June (100 road kills), July (8 road kills), September (13 road kills) and October (2 road kills)

4.8.2 Road kill counts by year:

Evaluating the spatial distribution of the road kills based on year reveals that certain routes had a higher number of recorded road kills than others (see Figure 4.20). For example, road kills recorded in 2016 were particularly prevalent on the N2, whereas those AVCs in 2017 were especially occurrent on the N6.

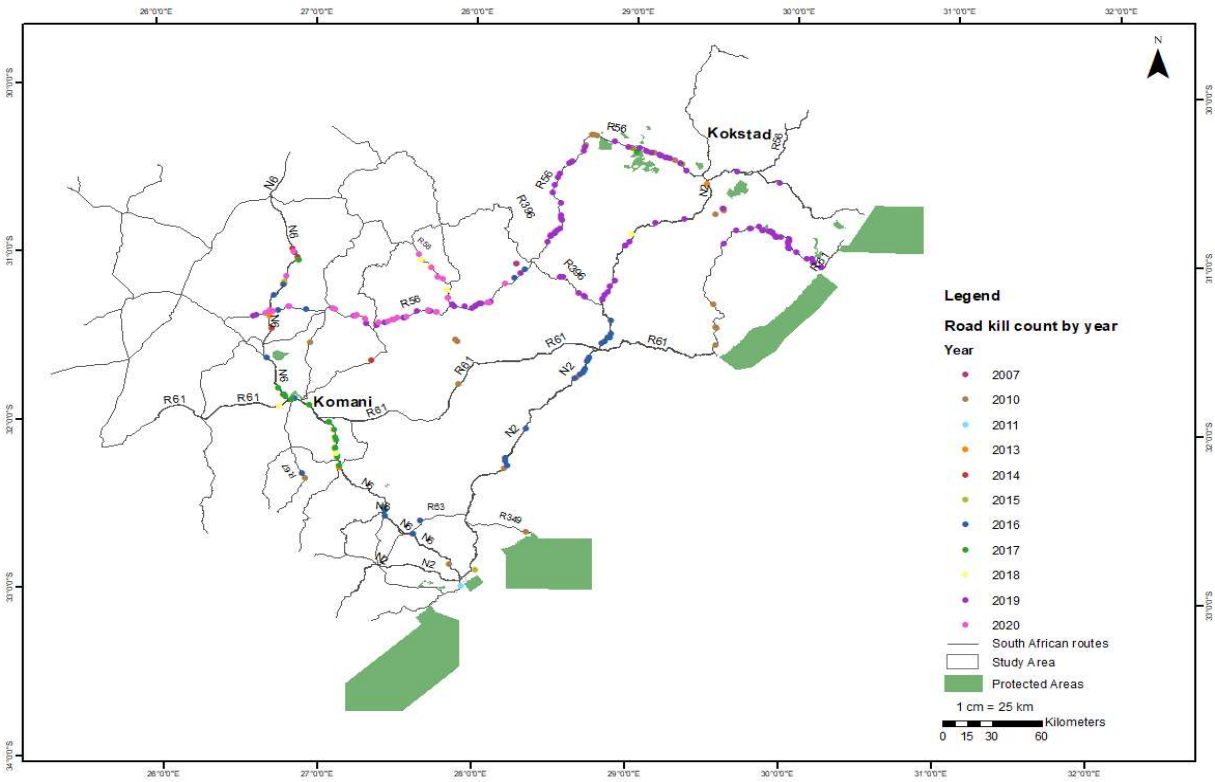


Figure 4.20: Road kill distribution classified by year.

There should be due consideration for the absence of recorded road kills in the years 2008, 2009 and 2012. Figure 4.21 illustrates total counts of road kill for the years of interest. After the 2 road kills recorded in 2007, a further 32 road kills were recorded in 2010. Only 1 road kill was recorded in 2011. There were 4, 5, and 4 road kills recorded in the years 2013, 2014, and 2015. A larger count of road kill was recorded for 2016; that is, 38 animal mortalities specifically. Fewer road kills were recorded in 2017 and 2018, at 17 and 6 respectively, averaging slightly over 11 road mortalities a year. In 2019, there were 110 identified animal mortalities, indicating a dramatic increase in the number of road kills recorded for a year. In 2020, 30 road kills had been recorded. Once again, yearly averages have not been considered for the analysis given the three years in the period that had no records of road kill.

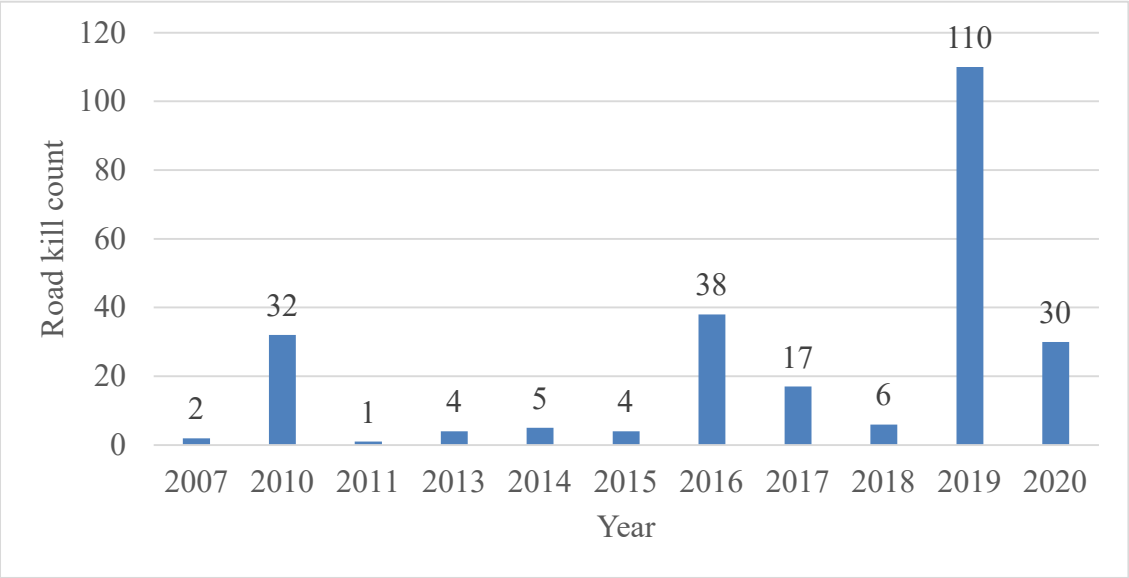


Figure 4.21: Road kill counts per year on selected routes between Komani and Kokstad from 2007 to 2020.

The two most recent years in the road kill dataset have been included for an examination of the latest road kill patterns. These results are significant to addressing AVCs given that 2019 had the highest count for road kill and 2020 had significantly fewer vehicles on the road. The highest number of road kills were recorded in 2019, at 110. Most of these AVCs occurred along the R56. Therefore, most recent road kills were recorded on the R56. Other incidents were also observed on the R61, N2 and R396. The 30 road kills that occurred in 2020 were entirely in the Eastern Cape and specifically on the N6, R56 and R58 routes. Compared to the

2019 road kill count, this figure is considerably smaller and does not have as wide a spatial distribution.

4.8.3 Road kill counts and averages by seasonality and temperature:

Instances of recorded animal-related accidents are more consistent in summer months compared to the other seasons. There is an evident lack of reported road kill in autumn, averaging only 1 road kill per month in this period. The spring months have a considerably higher total and average number of reported road kill compared to autumn but are still much lower compared to the other two seasons. The highest road kill count and average are found in the winter period, notwithstanding that the overwhelming majority of road kills were found to occur in June for the period of data collection.

Table 4.5: Total and average number of road kills per month for each season from 2007 to 2020.

Season	**Total**	**Average**
Spring	23	7.67
Summer	82	27.33
Autumn	3	1
Winter	141	47

4.8.4 Temperature analysis:

Incidents of road kill appear higher when temperatures are lower (see Figure 4.22). This coincides with the winter period, where temperatures were at their lowest. There were fewer road kill peaks on days where temperatures were higher. However, Spearman correlation found a weak, negative relationship, between temperature and road kill. Minimum temperature appeared to have a slightly stronger relationship with road kill, albeit still a weak correlation (see Table 4.6).

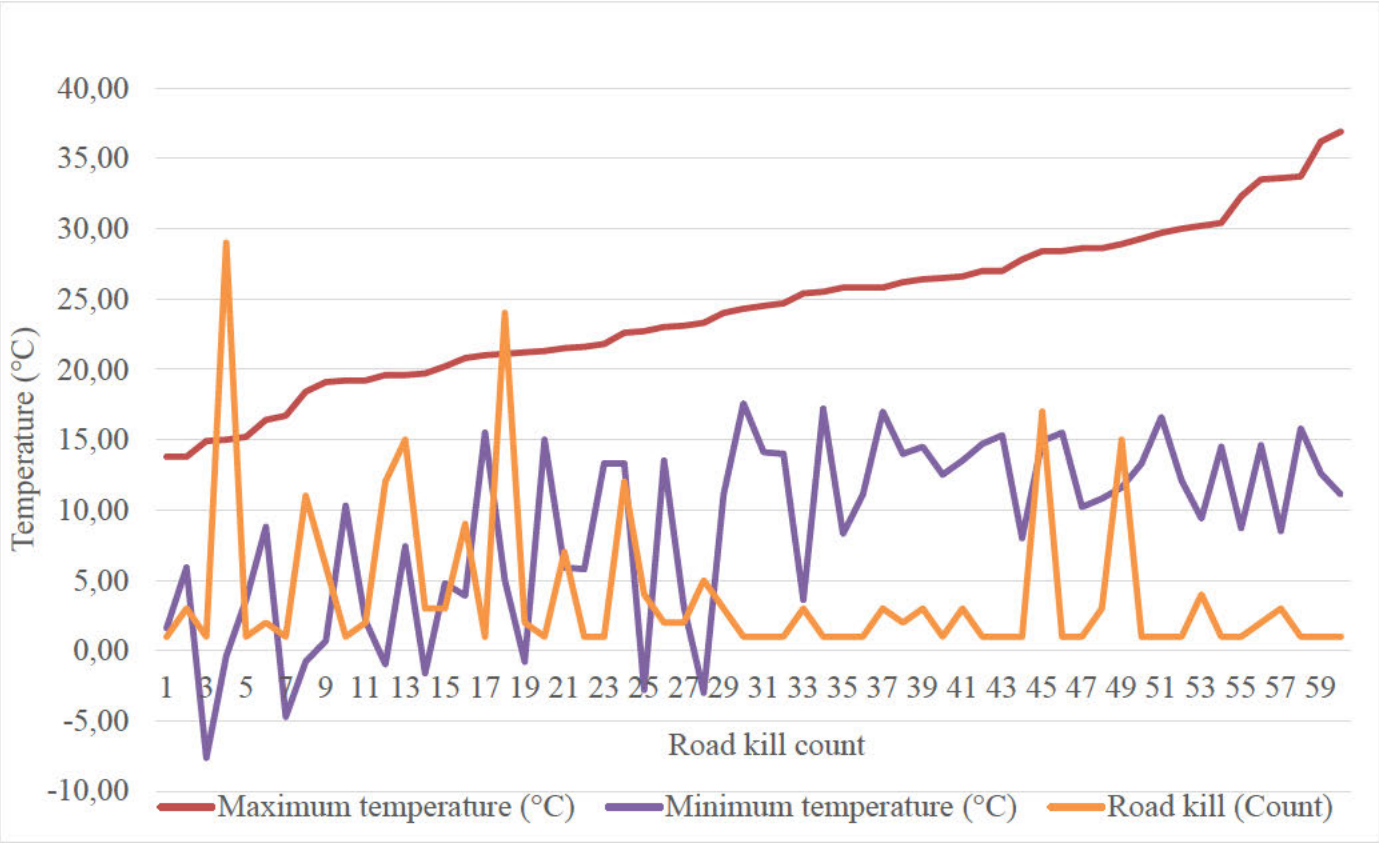


Figure 4.22: Relationship between temperature and road kill count.

Table 4.6: Spearman correlation matrix for road kill count and temperature.

Variables	Maximum temperature (°C)	Minimum temperature (°C)	Road kill count
Maximum temperature (°C)	1	0.583	-0.261
Minimum temperature (°C)	0.583	1	-0.378
Road kill count	-0.261	-0.378	1

4.9 Policies and legislation applicable to road kill:

Table 4.7 outlines and analyses the identified policies and legislation applicable to the challenges of road kill. These Acts are found to either concern issues of the environment, biodiversity, conservation, transport and land use.

Table 4.7: Applicable policies and legislation for addressing road kill.

Title	**Purpose of the Act**	**Applicability to the challenges associated with road kill**
Constitution of the Republic of South Africa 1996 (No. 108 of 1996)	Outlines the values and rights of South African people, and how Parliament, legislature and courts work.	In Section 24 of the Bill of Rights, the Act states that everyone has a right to a safe environment, and that said environment should be protected for present and future generations. This should be achieved through relevant legislation and strategies that prevent environmental degradation, promote conservation and secure ecologically sustainable development. Road kill is a challenge in the realms of ecology and conservation. Therefore, appropriate legislation and strategies are necessary to prevent these vehicle collisions.
National Environmental Management (NEMA) Act 1998 (Act No. 107 of 1998)	Provides principles for cooperative governance in environmental issues and challenges. This legislation supports all decision-making that concerns the environment and procedures for	Road development and transport activities can in fact result in environmental impacts. As a result, all public entities and officials associated with the Department of Transport (DoT) are required to adhere to the principles of the NEMA. Indeed,

	coordinating environmental functions exercised by organs of state, to provide for certain aspects of the administration and enforcement of other environmental management laws, and to provide for issues connected with the aforementioned.	functioning of the entities of the DoT, regarding environmental governance, is coordinated by the Act. Given that entities of the DoT fall under the organs of state, their environmental functions are hence organised by the NEMA.
Environmental Conservation Act (ECA) 1989 (No. 73 of 1989)	Specifically, sections 21, 22 and 26 of Part V and Schedule 1 of the ECA, identify activities that may have a negative impact on the environment. These activities include transportation, land use, land transformation, and any associated projects that require an Environmental Impact Assessment (EIA). Road and aircraft noise are also included in the ECA.	Transportation of course plays a role in road kill. Therefore, the aforementioned sections 21, 22, 26 of Part V and Schedule 1 identify the impact of transportation on the frequency of road kills.
National Environmental Management: Protected Areas Act 2003 (No. 57 of 2003)	Provides for the establishment and management of national, provincial, and local protected areas.	As evident in the study area, there are several routes that are utilised for traffic movement. Road kills have occurred near some of these protected areas.

	Anthropogenic activities that occur within protected areas may be subject to regulations, municipal by-laws or the rules of the management authority.	Thus, transport-related activities would need to be subjected to the relevant rules, regulations, and by-laws that minimise or prohibit these activities.
National Environmental Management: Biodiversity Act 2004 (No. 10 of 2004)	The Act provides for the management and conservation of biodiversity. Specifically, the Act entails the protection of species and ecosystems that warrant national protection; the sustainable use of indigenous biological resources; the fair and equitable sharing of benefits arising from bioprospecting involving indigenous biological resources; the establishment and functions of a South African National Biodiversity Institute; and for matters connected therewith.	Transport-related activities that occur in a prioritised natural environment may be identified as a threat. Road kills can compose of an expansive biodiversity, which can be compromised because of animal-vehicle collisions.
Spatial Planning and Land Use Management Act 2013 (No. 16 of 2013)	Provides a framework for spatial planning and land use management in the country. The Act	Since the Act focuses on the land use management and the urban environment, road networks would be recognised

	recognises urban planning as a technical and political process concerned with the control of the use of land and the design of the urban environment, in order to preserve the environment and reduce adverse health impacts resulting from uncoordinated planning.	as integral to spatial planning. Therefore, successful road management is necessary for the preservation of the environment. In the case of road kill, planning needs to account for the impact of road infrastructure on animal-vehicle collisions.
National Environmental Management Waste Act 2008 (No. 59 of 2008)	To reform laws regulating waste management in order to protect health and the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development. Furthermore, to regulate the management of waste by all spheres of government and provide specific measures.	The resultant road kills can generate unwanted waste, especially if they are dumped at illegal landfill sites. Appropriate strategies would be necessary to minimise this waste generation.

CHAPTER 5: DISCUSSION

5.1. Species characterisation of road kill:

The species characterisation of road kill in the study area provides a significant contribution to the integrated assessment of the factors that influence the spatio-temporal patterns of road kill. Understanding the species composition of the road kill data accordingly supports identifying which animals are more susceptible to colliding with vehicles (Jacobson et al, 2016; Saxena et al, 2019). However, as raised in Chapter 3, Section 3.3, these records are only reflective of those road kills reported to the EWT. Thus, the analysed road kill data does not necessarily represent all road kills occurring on these routes. Nevertheless, the EWT contains arguably South Africa's largest road kill database, and there are potentially significant findings from analysing why these AVCs and subsequently reported road kills occur. The fact that the majority of recorded road kills were unknown for the study is an equally important consideration. The prominence of unknown road kill in the dataset reflects the lack of expertise from citizen scientists that have not received any training in this type of data collection, although even members of the EWT could not identify some road kills. There were, of course, instances where road kills were reduced to smears and stains of blood; a challenge that requires its own remedial measures.

Mammals were the highest known class of reported road kill, domestic dogs (*Canis lupus familiaris*) comprising the highest number of road kills for this class. These results are consistent with the studies by Canal et al (2018a) and Canal et al (2018b), who found a high number of dog road kills for their studies in mammal mortalities. Although studies for domestic mammal road kills are rare, these species still feature prominently in AVCs (Carvalho-Roel et al, 2019). Amphibians were the second largest number of recorded road kills for a known class. The present study found that several amphibians, particularly frogs, were prone to colliding with a vehicle. These findings are consistent with previous studies that find these animals to be one of the most frequent victims of AVCs (D'Amico et al, 2015; Heigl et al, 2017; Zhang et al, 2018; Sillero et al, 2019). In terms of species behaviour, Collinson & Patterson-Abrolat (2016) and Jacobson et al (2016) identified some frogs as non-responsive species when faced with oncoming traffic; that is, they are more likely to continue crossing the road rather than flee or avoid the approaching vehicle. This might be due to the lack of sensory abilities or failure to recognise the oncoming vehicle as a threat as when the animal is faced with a predator (Jacobson et al, 2016). The comparatively fewer bird and

reptile species are not consistent with previous literature, such as Carvalho-Roel (2021) and Sur et al (2022), who found avians and reptiles to be the more road killed classes in their studies. Reasons for why reptiles were road killed may be related to how they respond to oncoming vehicles. Like many amphibians, certain reptiles tend to pause or slow their movements on the road when encountering a vehicle (Jacobson et al, 2016; Mazerolle et al, 2005). These behaviours exacerbate the probability of an AVC as investigated by Andrews et al (2015) and Collinson & Patterson-Abrolat (2016). The comparatively small number of reptilian road kill suggests under-reporting, given the unclear nature of data collection. Alternatively, the reptiles' reduced carcass permanency, owing to their comparatively smaller body mass, could have influenced the extent of this class being rarely observed (Lala et al, 2021). Bird road kills, specifically, are probably the result of proximity to natural resources as has been found in previous studies (da Rosa & Bager, 2012; Husby, 2016; Vidal-Vallés, 2017). Their small road kill numbers can equally be attributed to sparse reporting.

5.2 Assessing the spatio-temporal patterns and causes of road kill:

5.2.1 Increased proximity to natural and agricultural areas:

The results of the Optimised Hot Spot Analysis indicated a concentration of statistically significant hot spots near the protected areas of the Matatiele Nature Reserve, Wilfred Baur Nature Reserve, Mountain Lake Nature Reserve, Cedarville Protected Environment, Weza Protected Environment and Ngele Nature Reserve (see Figure 4.11). Field observations also confirmed this analysis (see Section 4.7.1), although several protected areas did not have nearby or clear signs to indicate their status. This is consistent with Clevenger et al (2003), Bartonička et al (2018), and Pagany (2020), whom each found that increased proximity to natural areas were associated with higher incidents of road kill. Given that protected areas are natural areas, it can be ascertained that these animals cross roads to reach fragmented habitats, especially given how close the natural areas were to the road edges. These findings are supported by Clevenger et al (2003), Fahrig (2003) and Coelho et al (2012). Proximity to protected areas appears to particularly play a role for amphibians; consistent with Coelho et al (2012) and Heigl et al (2017). Besides the hot spots, proximity to protected areas was also evident for road kill on the R61 (see Figures 4.16 G and H) and considerably maintains the same consistency with previous research as was the case for the hot spots in the present study.

Although the road kills of livestock were comparatively fewer than those of other animals, the field observations of the R56, R61, and R58 suggest that such mortalities share a potential relationship with proximity to agricultural areas. Many livestock were found to cross the roads to newer grazing land. Such findings are consistent with Hlatshwayo (2021), who similarly found that cattle (*Bos taurus*) and sheep (*Ovis aries*) frequently roamed the road to reach further grazing lands. The relevance and implications of these field observations are discussed further in Section 5.2.3.

5.2.2. Road width of statistically significant hotspots:

Correlation analysis revealed a weak correlation for the R56, a moderate and positive correlation for the N2, and very weak correlation when these road widths and mortalities are combined. The findings for the R56 and combined road widths are not consistent with previous studies by Bartonička et al (2018), Valero et al (2015) and Williams et al (2019), who found that road width plays a significant role in the likelihood of an AVC. Bartonička et al (2018) and Coffin (2007) especially found that wider segments in road networks were more prone to the risk of AVCs. However, Pagany (2020) argues that road infrastructure and quality vary globally, and that differing factors exist between locations, interacting to produce varying outcomes when animals interact with the road. Therefore, road width does not necessarily share a linear relationship with AVC risk, and the species that interact with these specific roads may have varying outcomes. In considering the weak correlations found in the study, it should be recognised that the road width data and road kill counts vary to the extent of containing outliers that can influence the analysis. Such instances are rarely found in previous research. This is perhaps prevalent in the present study owing to the comparatively smaller research area, unsystematic road kill reporting, and lack of data for the other roads in this location. The moderate correlation of the N2, itself is more consistent with previous studies (Clevenger et al, 2003; Meek, 2009). To some extent, this relationship can be visualised in Figure 4.12, for recorded road kills and the hot spot on this route.

5.2.3 Observations of sampled roads in the study area:

Observations of road conditions and surrounding landscape for the sampled routes yielded a significant number of findings. Road surface quality on the R56, for instance, is inconsistent and creates challenges for the motorists that drive on them. The quality of the road surface can have varying effects on the probability of an AVC. Given that the majority of road kill

classes and hot spots occurred on the R56, there is a potential correlation between road quality and incidences of road kill. This is similar to the findings of Feigenbaum & Purnell (2021).

Throughout all observed routes were the insufficient road signage, as well as unsuitable speed limits. Signs warning of animals were rare, which might explain the incidents of road kill in the sampled routes; especially for the observed portions of the R56 and R61. Similarly, Van Niekerk & Eloff (2005) and Tayade et al (2019) found that insufficient road signage and lack of appropriate speed limits increase the likelihood of an AVC; whether one of these mechanisms is more important than the other depends on the context of challenges in the study area. The present findings are, nonetheless, consistent with previous research.

Single or double barbed wire fences were the most commonly used fencing methods in several parts of the sampled study area. Given that several animals were observed outside of the fences, it is reasonable to assert that the present structures used to prevent AVCs have been ineffective. Previous research supports this finding, as fencing alone has proven often insufficient in preventing road kill (Clevenger et al, 2001b; Cramer, 2014; Collinson & Patterson-Abrolat, 2016). This is especially problematic, given that roads such as the ones sampled for the R56, were located close to vegetation and grazing land. This was similarly observed for the R56, located closely to the Matatiele Nature Reserve (such as seen in Figure 4.15 G-H) (Seo et al, 2015; Rendall et al, 2021). Such challenges reinforce the dangers of roadside vegetation and grasses for the animals that use them, as has been found in Fahrig (2003) and Wang et al (2022). In the R56, it was particularly found that burned soil near the edges of the road, results in increased soil fertility and the growth of grasses (Santín & Doerr, 2016; Chungu et al, 2020) that attract grazing livestock. This reinforces the influence of edge effects and proximity to desired resources, consistent with the findings from Clevenger et al (2003), da Rosa et al (2018) and Wang et al (2022). The same challenges are evident for amphibians, given that wetlands and other water sources were found near the R56; the same route that had the highest number of amphibian road kills. Considering the body of research (Puky, 2005; Coelho et al, 2012; Arévalo et al, 2017; Heigl et al, 2017; Sillero et al, 2019) that identifies proximity to habitat as a significant contributing factor to amphibian road kill, there is a potential relationship between these variables.

Although livestock were not prevalent in the road kill dataset, these particular animals were observed frequently and extensively throughout the sampled roads of the study area (see

Figures 4.15-4.18). In fact, the unclear surveying methodologies applied to the road kill data collection indicate that these animals have been likely under-reported. Their presence, especially in the R56 and R61, suggest a high risk of AVCs, and this is a valid consideration, given that collisions with livestock are notably frequent in the Eastern Cape (Mehlwana & Bovu, 2018; BusinessTech, 2019, Dayimani, 2021). Reasons for this could be due to general under-reporting (Collinson et al, 2015; Raymond et al, 2021), inconsistent surveying (Bartonička et al, 2018), or observers being unable to identify the road kill. Another, equally possible reason, that the drivers who collide with these animals take them for consumption. This was not observed at the sampled routes, but previous research suggests that many motorists consume the large mammals they kill with their car (Edelman, 2019; Jacobson, 2019; Diskin, 2020). The presence of dogs (*Canis lupus familiaris*) observed near towns, houses and near road edges can equally explain the high incidences of road kill for this species, as has been found in studies by Eslahi et al (2017), Canal et al (2018a), and Canal et al (2018b). The present findings in this study therefore suggest further research and improved survey methodologies applied to road kills of livestock and other domesticated animals, especially in the Eastern Cape.

5.2.4 Road kills by month, temperature and seasonality:

Eloff and Van Niekerk (2008) comment on how road kill count can vary according to month. The monthly averages for road kills suggest that road kills occur more consistently in the early months of the year; that is January and February. From March to May, road kills are considerably a rare occurrence, which may suggest lower traffic volume or a lack of observation. Road kills recorded in June were exceedingly high, especially for mammals. July and August had relatively fewer reported road kills. The 15 road kills observed in September were mostly classified as unknown, and, therefore, does not provide enough insight into potential contributing factors for this figure in the study period. However, it can be argued that the road kills were a result of active species attempting to mate in the spring period; often one of the preferred seasons for mating (Aldridge & Duvall, 2002; Carbia & Brown, 2020). All amphibian road kills occurred in the summer; this is similar to previous studies by Coelho et al (2012) and Meza-Joya et al (2018). These can, of course, be attributed to the increased activities of amphibians, given the more prominent photoperiod usually found in this season (Wells, 2010). The challenge with asserting vehicle volume and velocity as the key influencing factor for amphibians, or any other class of road kill, is the lack of

traffic data available to confirm this influence. Furthermore, the monthly patterns of these road kills are considerably the product of unsystematic reporting periods and data collection, since there is no training provided to the citizen scientists who record these observations. Even so, these monthly records can inform when most road kills are, to a significant extent, most likely to occur, and why some species had featured prominently in specific months.

Average road kills were few in spring and rare in autumn. The majority of road kills were recorded in summer and winter; the highest number of AVCs occurring in the latter, followed by the former. These results differ from the findings of some previous studies (Canal et al, 2018a; Grilo et al, 2009; Snow et al, 2018). However, the context and species composition play an important role when considering AVC risk (Oddone Aquino & Nkomo, 2021). The significantly higher averages of road kill for summer and winter can be attributed to the typically increased travel and traffic volume during holiday periods (Eloff & Van Niekerk, 2008). Eloff and Van Niekerk (2008) argued that holiday periods encourage travel and, therefore, result in increased traffic volume on roads. Therefore, there is a greater likelihood of road kills occurring on holiday months, although the authors do not specifically consider June as a holiday month in their article. Once again, traffic data was not available to confirm whether these roads experienced a high volume of vehicles in June for the study period. In fact, the evidently lacklustre consistency in survey periods for road kill are indicative of certain months simply having more reports than others, rather than reflecting the actual AVCs. Regarding reptilian road kills, the results evidently contrast Eloff & Van Niekerk (2008), who argued that the peak for AVCs involving reptiles were highest in either spring or autumn. Alternatively, Andrews et al (2015) states that increased sunlight and warmer temperatures, typically associated with summer, particularly attract reptiles to the road edges. Bird road kills occurred mainly in summer, consistent with the findings of Rendall et al (2021).

A serious challenge with confirming the relationship between road kill and factors such as seasonality and temperature, in this study, is the weak negative correlation for road kill and temperature. This indicates that there is no relationship between road kill, seasonality and temperature, which is not consistent with most studies that incorporate these factors (Coelho et al, 2012; da Rosa & Bager, 2012). This weak correlation could be explained by the unreliable values included in the dataset. However, these instances of not finding a significant relationship are not uncommon, as has been found in Mkhohlwa (2017), who found that

weather was not a significant factor for road kill in the Hluhluwe-Imfolozi Park, South Africa.

5.2.5 Road kill counts by the years 2019 and 2020:

Of particular interest to the study are last two years within the data collection period. The year 2019 had the highest number of recorded road kills, in the month of June. Most of the road kills occurred on the R56, and further highlights the problematic nature of this route, in recent years, for AVCs. Notwithstanding the AVC challenges on the R56, it is most likely that citizen scientists were more active in 2019, especially on this route. Conversely, in 2020, the number of recorded road kills significantly declined. This could be owing to one or both of two reasons. Reduced vehicular movement owing to Coronavirus disease (COVID-19) restrictions could have significantly reduced the likelihood of AVCs (Nguyen et al, 2021; Driessen, 2021). The reduced number of citizen scientists who were reporting road kill during the pandemic equally hinder data collection (Dörler & Heigl, 2021). This should be considered given that the spatial distribution of road kill in 2020 covers a smaller area than the road kills in 2019 (see Figure 4.20). If there are fewer active citizen scientists recording road kill, then the number and spatial range of recorded mortalities stands to be significantly reduced. These road kills occurred in January and June; the former accounting for 10 road kills, and the latter 20. However, given that South Africa had not implemented a lockdown until March of 2020 (Reuters, 2020), it cannot be asserted that the lockdown impacted road kill observations in January.

5.3 Impact on local animal populations:

The study found that all recorded species of road kill had a Least Concern conservation status. However, a declining trend in population numbers for any species presents significant conservation concerns, as recognised by the IUCN Red List (2022). Jacobson et al (2016) suggests that the conservation status alone does not determine the significance of the road kill. Thus, the impacts of AVCs on animals are not just limited to raw species numbers. Particularly for the identified species experiencing a downward trend in population numbers (IUCN Red List, 2022), there is a potential impact on local populations, genetic diversity and dispersal. Although the road kill numbers for these species were not the highest in the study, it should be noted that many road kills were unknown, including unspecified lagomorphs that could have been scrub hares. Equally significant is that the available dataset only contains

road kill records submitted to the EWT, and therefore, does not guarantee a full report of the mortalities for these species in the study period. Species distribution data for quantifying the animal populations in the study area, was also unavailable to inform the extent of the impact of AVCs on local biodiversity. Although it is acknowledged AVCs do not just affect animals, impacts on vehicle occupants could not be incorporated into the evaluation based on the unavailable data for vehicle damages or hospitalisation.

The unidentified road kills complicate the analysis of potential impacts on animal populations. Without characterisation of these road kills, the scope of impact on local biodiversity cannot be evaluated. Of course, this can considerably hamper conservation efforts if specific animal populations are not accounted in surveys. This challenge further indicates the inefficient data collection methods used by the citizen scientists, as well as members of the EWT. Nonetheless, these unknown road kills can warrant for the EWT to develop strategies that support the improved identification of species.

5.4 Applicable policies and legislation:

Addressing the challenges associated with road kill requires that effective policies be developed and implemented. Environmental policies and legislation in South Africa such as the National Environmental Management (NEMA) Act 1998 (Act No. 107 of 1998) and the National Environmental Management: Biodiversity Act 2004 (Act No. 10 of 2004) have yet to sufficiently address the challenges animals encounter on the road. If the applicability to challenges associated with AVCs are rationalised in the environmental policies and legislation, then an appropriate framework can be derived to address impacts. Subsequently, relevant tools can be developed to resolve the environmental issues associated with road kill. For example, conducting impact assessments on road developments, and including a criteria for how animals that typically use these roads, are protected or accommodated. There are several applicable laws and policies that can be utilised to address the challenges of AVCs (see Table 4.7). Given the proximity of the statistically significant hot spots to protected areas, there should be improved efforts in environmental legislature to raise awareness and reduce road kill. However, a wholistic approach is required to address these challenges, and therefore requires that all entities, including the Department of Transport, take an integrated effort towards the challenges associated with road kill. Collinson & Patterson-Abrolat (2016) developed South Africa's first guidelines for addressing the challenges of road kill. These

guidelines serve to work in unison with an environmental impact assessment (EIA), and subsequently strive towards addressing AVCs as a challenge in the natural environment.

CHAPTER 6: CONCLUSIONS AND RECOMMENDATIONS

6.1 Concluding remarks:

The patterns and causes of animal-vehicle collisions cannot be assessed independently of one another. To address the challenges associated with AVCs, an integrated approach must be taken, of which encompasses the efforts of road management authorities, conservationists, and the public. Through efficient assessment of the spatio-temporal patterns of road kill in the study, contributing factors were identified, and the impacts of the patterns were evaluated. It has been acknowledged throughout this chapter, that the road kill data was a product of potentially unplanned data collection and inconsistent surveying, which should be considered when evaluating the results of the analysis. Suitable strategies were recommended to mitigate the challenges of road kill. Further research is still required to efficiently address these challenges, especially in the Eastern Cape and KwaZulu-Natal Provinces of South Africa. This study evaluated the spatio-temporal patterns of AVCs in order to understand the causes and conditions that influenced the risk of AVCs on selected routes along Komani and Kokstad. Recommendations have been provided for suitable road kill mitigation. The study has, thus, achieved its aim, and fulfilled the research objectives.

6.2 Recommendations:

This subsection outlines several strategies and methods to not only reduce AVCs, but to improve on road kill observations. Following these recommendations stands to support a sustainable transport system.

6.2.1 Improved road signage and traffic law enforcement:

Evident in the observations is the absence of any road signage to warn of animals that may utilise the given routes. On both the R56 and N2, there are no appropriate speed limit signs. Speed limits should be designed based on the vehicle velocity identified as suitable to reduce AVCs. To identify a suitable vehicle speed for such roads, requires careful, collaborative planning among conservation scientists and traffic officials. If proper signage is in place, this can increase driver awareness and, thus, reduce the probabilities for an AVC. Road signs should be strategically placed and, if possible, images of specific animals that are prone to road kill should be incorporated in the road signs. Environmental Management Inspectorates (EMIs) can collaborate with traffic officers to ensure that drivers are following the rules when

in an area that is prone to AVCs. Curved roads should especially have signs that remind the driver to be aware of the animals that might cross the road.

6.2.2 Awareness and education campaigns:

Raising awareness, especially among motorists, is necessary to address the challenges associated with road kill. For drivers to be more cognisant of the areas when animals frequent the road, they need to recognise which species are using those roads and how their behaviours influence their reactions to oncoming traffic (Jacobson et al, 2016). This helps drivers better plan for animals that appear on the road. Educating communities in general also helps foster collaboration with relevant authorities on both reducing road kills and reporting them.

6.2.3 Utilising and improving citizen science projects:

The study found that the majority of road kill were not identified. This highlights a need for improved observation systems. Although many species were identified as blood splatters, it is also true that some members of the general public are not equipped adequately identify the species of road kill when their remnants are still intact. This is further evident among the mammals whose species were unspecified. Members of the public should be encouraged to report any road kills they find in order to assist conservationists and road management authorities in accurately mapping AVCs across relevant locations. The more people involved in these projects, the greater the spatial range of observations and the higher likelihood of consistent surveying. This can be accomplished using websites and mobile applications. Education campaigns should also assist members of the public in how to identify road kills. Citizen scientists should have the opportunity to participate in facilitated road kill data collection programmes that organise systematic and consistent surveying.

6.2.4 The development of a comprehensive road kill app:

Although there are a few apps available to the public for recording road kill, none have holistically approached the challenge that AVCs present. A road kill app should be developed that uses road kill datasets from areas of interest to inform drivers when they are entering an AVC-prone area. The app should utilise a GIS to predict where road kills are likely to occur for a specified area. This helps to prevent road kills, rather just report them. Indeed, the app should have several functions, including a means to visually recognise the species of a road

kill on site. This would require collaboration among GIS specialists, conservationists, and computer scientists.

6.2.5 Consistent surveying:

Surveying that does not occur at regular intervals can potentially compromise the integrity of road kill patterns and, thus, hinder mitigation strategies. This was evident among citizen scientists and other observers. The selected routes between Komani and Kokstad should have a strict routine for when road kills are surveyed in order to create a clearer picture of where, when and why these incidents occur. Additionally, this would prevent missed observations from low carcass permanence.

6.2.6 The construction of overpasses, underpasses, and other relevant structures:

Given that fencing can be counterproductive, the development of overpasses and underpasses are advisable to reduce human-animal interactions on roads. These structures should be accommodating and considerate for the animals based on their class of species. In the case of mammals, overpasses and underpasses are highly advised. Features of these structures should be accommodating for a potentially diverse range of species, given that not all mammals were classified based on species. For instance, Herpetile tunnels can be installed at the location of the statistically significant hot spots for amphibians to utilise for movement between habitat and resources. However, such structures can be costly and entail significant investment. A cost-benefit analysis should be employed when considering any overpass, underpass, or related structure.

6.2.7 Addressing the challenges of Animal-vehicle collisions in applicable legislation and policy:

Incorporating the challenges associated with road kill into relevant policy and legislation serves to assist the relevant authorities in gaining support from various entities. Given that the Department of Transport's environmental governance is facilitated by the National Environmental Management Act 1998 (Act No. 107 of 1998), there should be more fostered, integrated efforts, as opposed to departments working in silos. For example, increasing the spatial range of road signage to warn for animals found on these roads, particularly those found in protected areas. The provincial departments of the Eastern Cape and KwaZulu-Natal

could coalesce their efforts in trying to address AVCs. Environmental policy could be jointly implemented by these two entities to support road kill reduction initiatives.

6.2.8 Consistent application of species distribution and occupancy data:

Surveying road kill and understanding its implications for local animal populations can be better realised through utilising species distribution and occupancy data. This can equally benefit road kill research when mortalities are unknown, as this gives an indication of what species may have been road killed. This data can be generated through active monitoring of animal movement patterns.

6.2.9 Implement different mitigations based on time of day:

Some species are more prone to an AVC than others. Animals that are active at specific times of the day can have specific risks for an AVC, and, therefore, elicit a need to structure mitigations based on the time of day. For example, nighttime driving speed limits to protect any animals that are active in the evenings.

6.2.10 Conservation status should not be the sole indicator of prioritising certain road kill-prone species over others:

A species' conservation status should not be the only reason to decide whether to address the impact of AVCs on that particular animal. Even if a species has a Least Concern status, that does not suggest there are no impacts when a member of that species collides with a vehicle. Population trends should be recognised, when assessing the current prevalence of a particular species. Population dispersal and gene flow can be compromised if all species are not considered. A useful indicator for prioritisation should be to identify those species that are most susceptible to colliding with a vehicle.

6.2.11 Use Deoxyribonucleic acid (DNA) testing to identify unknown road kills:

Given that the majority of road kills were unknown in the present study, there should be efforts towards molecular testing of carcasses that have significantly deteriorated and cannot be identified by observers. Investing in or collaborating with molecular testing facilities stands to benefit road kill surveyors who report their findings to relevant authorities. Once road kills are better characterised, then accurate mitigation measures can be identified.

Therefore, molecular testing of road kill can help reduce AVCs and benefit all involved parties.

6.2.12 Increased development and availability of baseline data:

Baseline data such as that for traffic volume, climate and weather, and road infrastructure should be compiled and made more available for road kill research to enable a more comprehensive analysis of the phenomena.

6.3 Limitations of the study:

Although there were considerable efforts to provide a comprehensive assessment of spatio-temporal road kill patterns, the present study faced a number of limitations. As has been previously explained, the road killed data analysed in the study does not reflect all road kills that occurred in the study area from 2007 to 2020. Therefore, there is a potential underestimation of the full magnitude of road kills that occurred in the study area. Equally important to recognise are the challenges with verifying the recorded road kills. As citizen scientists are neither trained nor supervised, there can be notable challenges with the surveying. These included data sources that were not available for analysis, unreliable values in available data, and time constraints. Data on traffic volume was unavailable for the study and accordingly could not be used in the analysis of factors for road kill. For available data such as temperature, some values were either unreliable or simply missing from the dataset. This can, of course, potentially compromise the reliability of the results. Road width data acquisition for specific segments on the road network took a considerable amount of time, and subsequently delayed the research process. Therefore, several road segments could not be acquired for the analysis, since this would have compromised the timetable for the study. Limitations for analysis of the road killed data relate to the fact that some roads are underreported and, thus, the full extent of AVCs in the study area could not be entirely assessed. The study area was also heavily crime-ridden, and traffic volume and intensity were exceptionally high, resulting in field observations having to be quick and conservative.

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APPENDIX 1: ROAD KILL STUDIES

Authors	Name of Study	Study Area	Research key words	Road kill study focus areas	Animal road kills of interest	Road kill data collection	Main methodological techniques applied to road kill data
Arévalo et al, 2017	Spatio-temporal variation of road kills show mass mortality events for amphibians in a highly trafficked road adjacent to a national park, Costa Rica	Costanera Sur beside the Carara National Park, Costa Rica	Amphibian mass-kill, Animal-vehicle collisions, Conservation areas, Extinction threat, Tropical forest	Spatio-temporal patterns, environmental impact	Amphibians	Surveyed road kills	Quartic kernel shape function
Arnold et al, 2019	Spatial, road geometric and biotic factors associated with Barn Owl mortality along an interstate highway	Interstates 84 and 86 (I-84/86) that run east/west between Boise and Pocatello,	Avian road mortality, Carcass surveys, Farmlands, Idaho, Road kill, Shrub	Spatial patterns, spatial factors, road factors, environmental factors	Barn owl (*Tyto alba*)	Surveyed road kills	Generalised Linear Models (GLMs), Poisson distribution, log lonk, log transformation, variance inflation factors (VIFs), Spearman correlation analysis

		Idaho, USA	steppe, United States of America (USA), Wildlife–vehicle collisions				
Ascensao et al, 2022	Forecasting seasonal peaks in road kill patterns for improving road management	Mato Grosso do Sul state, Brazil	Road kill, Road kill mitigation, Seasonality, Vertebrates	Seasonal patterns, hot moments, road kill prediction, mitigation	Non-flying vertebrates	Road kill dataset obtained (Anteaters and Highways Project)	Generalised Additive Mixed Models (GAMMs)
Barthelmess, 2014	Spatial distribution of road-kills and factors influencing road mortality for mammals in Northern New York State	Northern New York, USA	Habitat fragmentation, Hotspot, Mammals, Mammal–vehicle collisions, New York	Spatial patterns, influencing factors	Mammals	Surveyed data	Kernel Density and Network Analysis, logistic regression

			State, Network-K, Road ecology, Road kill				
Bartonička et al, 2018	Identification of Local Factors Causing Clustering of Animal-Vehicle Collisions	Czech Republic	Clustering, Collision, Environmental factors, Hotspot-selection method, Mammals, Traffic	Local influencing factors, clustering, hot spots	General road kills	Road kill dataset obtained (Police of the Czech Republic)	Novel Kernel Density Estimation (KDE+), incorporated Monte Carlo simulations
Bíl et al, 2019	On reliable identification of factors influencing wildlife-vehicle collisions along roads	Czech Republic	Bayesian inference, Clustering, KDE+, Local factors, Roads, Wildlife-vehicle collisions,	Local influening factors, clustering	General road kills	Road kill dataset obtained (Police crash database)	KDE+, Bayesian inference, logistic regression, odds ratio

Borda-de-Água et al, 2019	On the identification of mortality hotspots in linear infrastructures	Federal District, Brazil	Bayesian hierarchical model, False discovery rate correction, Familywise error rate correction, Hotspot, Spatial auto-correlation	Hot spots, road variables	Burrowing owl (Athene cunicularia) and blue-back grassquit (Volatinia jacarina)	Road kill dataset obtained (Case study of Santos et al, 2016)	Poisson distribution models with familywise error rate correction, false discovery rate and Bayesian hierarchical procedure
Canal et al, 2018a	Magnitude, composition and spatio-temporal patterns of vertebrate road kill at regional scales: a study in southern Spain	Andalusia, southern Spain	Collision hotspots, Collision patterns, Human impact, Mitigation measures, Non–natural mortality, Wildlife	Wildlife-vehicle collision (WVC) patterns, hot spots, impact, mitigation	General road kills	Surveyed road kills	Chi-square goodness of fit test, nearest neighbourhood distance, K-function, Kernel Density Analysis

			vehicle collisions (WVCs)				
Carvalho et al, 2017	Influence of climate variables on road kill rates of wild vertebrates in the Cerrado Biome, Brazil	Cerrado, Brazil	Humidity, Precipitation, Road Ecology, Seasonality, Temporal patterns, Wildlife vehicle collision.	Temporal patterns, seasonality	General road kills	Surveyed road kills	T-tests
Choi et al, 2015	An Analysis of Wildlife Road kill Based on Land Cover in South Korea Expressway: In Case of Jungbu Expressway	Gyeongsangnam-do, South Korea	Road kill, Land use type, GIS, Expressway, South Korea	Hot spots, seasonal analysis, land cover	Mammals	Surveyed road kills	GIS analysis, buffering
Clevenger et al, 2003	Spatial patterns and factors influencing small vertebrate fauna road-kill aggregations	Bow River Valley, Alberta, Canada	Banff National Park, Mortality, Road ecology,	Spatial patterns, road ecology	Small vertebrates	Surveyed road kills	Neighbour K-Statistics, including Ripley's K-Statistic

			Road-kills, Spatial pattern				
Coelho et al, 2012	Anuran road-kills neighboring a peri-urban reserve in the Atlantic Forest, Brazil	Atlantic Forest Biosphere Reserve, Torres, Brazil	Amphibian, Atlantic Forest, Itapeva, Mitigation planning, Road-kill hotspots,	Hot spots, spatial variables, temporal variables, mitigation	Anurans	Surveyed road kills	Circular analysis, Rayleigh Uniformity Test, Ripley's K-Statistic, two-dimensional (2D) Hot Spot Identification Analysis
Creech et al, 2019	Differences in Spatiotemporal Patterns of Vehicle Collisions with Wildlife and Livestock	Montana, USA	Animal-vehicle collisions, Human safety, Livestock, Road ecology, Wildlife	Spatio-temporal patterns, impact	Wildlife and livestock	Road kill dataset obtained (Montana Highway Patrol)	Nonparametric Monte Carlo Approach
D'Amico et al, 2015	Vertebrate road-kill patterns in Mediterranean habitats: Who, when and where	Doñana Natural Area, Almonte, Spain	Life-history, Mitigation measures, Road	Spatio-temporal patterns, spatio-temporal factors,	General road kills	Surveyed road kills	GLMs that incorporated binomial error distribution and logit link function

			mortality, Temporal and spatial factors, Vertebrates, Wildlife road-crossing structures	mitigation			
da Rosa & Bager, 2012	Seasonality and habitat types affect road kill of neotropical birds	Pelotas and Santa Vitória do Palmar, southern Brazil	Highway, Road ecology, Road mortality, Wetland	Seasonal patterns, habitat types	Birds	Surveyed road kills	Seasonal and habitat analysis
Eloff & van Niekerk, 2008	Temporal patterns of animal-related traffic accidents in the Eastern Cape, South Africa	Eastern Cape, South Africa	Accidents, Animals, Collisions, Kudu, Temporal patterns, Traffic, Tragelaphus strepsiceros, Vehicle	Temporal patters, influencing factors	General road kills before assuming kudu	Road kill dataset obtained (Road Traffic Collision Reports, South African Police 352)	Calculations based on seasonal, monthly, weekly, daily, and hourly patterns

Fabrizio et al, 2019	Habitat suitability vs landscape connectivity determining road kill risk at a regional scale: a case study on European badger (Meles meles)	Abruzzo Region, Central Italy	Eurasian badger Meles meles, Habitat generalist, Habitat suitability, Landscape connectivity, Road kill	Landscape connectivity, spatial patterns	European badger (*Meles meles*)	Road kill dataset obtained (Study Center for ecological networks)	Habitat suitability and landscape connectivity models
Farmer & Brooks, 2012	Integrated Risk Factors for Vertebrate Road kill in Southern Ontario	Southern Ontario, Canada	Amphibians, Birds, Generalized Linear Mixed Models, Mammals, Reptiles, Road kill, Road mortality, Southern Ontario	Spatial clusters, temporal patterns, risk factors, road kill risk	General road kills	Surveyed road kills	Generalised Linear Mixed Model (GLMM) with binomial error distribution and logit link function
Filius et al,	Wildlife road kill patterns in	Tena Canton,	Amazon,	Spatial patterns,	General road	Surveyed	Ripley's K-statistic, 2D Hot Spot

2020	a fragmented landscape of the Western Amazon	Napo, Ecuador	Herpetofauna, Hotspots, Road ecology, Road kill, Spatial patterns	hot spots, influencing factors	kills	road kills	Identification Analysis, GLMs
Find'o et al, 2019	Identifying attributes associated with brown bear (Ursus arctos) road-crossing and road-kill sites	North and central Slovakia	Brown bear, Habitat attribute, Resource selection, Road crossing, Road mortality, Slovakia, Ursus arctos	Spatial patterns, environmental variables, traffic volume	Brown bear (*Ursus arctos*)	Surveyed road kills	Mixed-effects logistic model
Galinskaitė et al, 2022	The Influence of Landscape Structure on Wildlife–Vehicle Collisions: Geostatistical Analysis on Hot Spot and Habitat Proximity Relations	Lithuania	Collisions; GIS; Hot spots; Land-use type; Near distance; Wildlife–	Hot spots,proximity, land-use types	General road kills (primarily focused on Wildlife)	Road kill dataset obtained (Lithuanian Road Police Database)	Near Analysis, Optimised Hot Spot Analysis and Hot Spot Analysis tools

			vehicle collisions				
Garrah et al, 2015	Hot Spots and Hot Times: Wildlife Road Mortality in a Regional Conservation Corridor	Ontario, Canada	Conservation biology, Hot spot, Road ecology, Traffic impacts, Wildlife–vehicle collisions	Spatio-temporal patterns, hot spots, hot times, impact, conservation	General road kills	Surveyed road kills	Getis Ord Analysis, regression tree analysis
Garriga et al, 2017	Seasonal variation in vertebrate traffic casualties and its implications for mitigation measures	Catalonia, north-eastern Spain	Hotspot, Road ecology, Road mortality, Seasonality, Survey planning	Hot spots, seasonal patterns, environmental factors, mitigation	General road kills	Surveyed road kills	Poisson tests and GLMs
Gonçalves et al, 2018	Reptile road-kills in Southern Brazil: Composition, hot moments and hotspots	Rio Grande do Sul state, Brazil	Carcass detection, Carcass removal,	Hot spots, hot moments, influencing factors, land	Reptiles	Surveyed road kills	Nestimate function, circular statistics, Rayleigh test of uniformity, Ripley's K-function, GLMs, 2D Hot Spot

			Mitigation, Road-kill aggregation, Road ecology, Wildlife-vehicle collisions	cover, traffic volume, mitigation			Identification Analysis, hierarchical partioning, randomisation processes
Grilo et al, 2016	Do the size and shape of spatial units jeopardize the road mortality-risk factors estimates?	Southern Brazil	Buffer analysis, Hierarchical partitioning, Multi-scale analysis, Road segments, Wildlife–vehicle collisions	Spatial patterns, influencing variables, land-use classes	Water snake (*Helicops infrataeniatus*), D'Orbigny's slider turtle (*Trachemys dorbigni*), white-eared opossum (*Didelphis albiventris*), coypu (*Myocastor coypus*) and Molina's Hog-nosed skunk	Road kill dataset obtained (Urubu System database)	Hierarchical partioning, log-likelihood

					(*Conepatus chinga*)		
Gomes et al, 2009	Identification methods and deterministic factors of owl road kill hotspot locations in Mediterranean landscapes	Alentejo, southern Portugal	Binary logistic regression, Deterministic factors, ENFA, Hotspot identification, Kernel, Owls, Road kill	Spatial patterns, hot spots, deterministic factors	Owls	Surveyed road kills	Binary logistic regression (BLR), ecological niche factor analysis (ENFA), Kernel Density Estimation (KDE), nearest neighbour hierarchical clustering (NNHC), Malo's method
Heigl et al, 2017	Amphibian and reptile road-kills on tertiary roads in relation to landscape structure: using a citizen science approach with open-access land cover data	Between the Leithagebirge and the Lake Neusiedl in Northern Burgenland, located in eastern Austria	Anurans, Kernel density estimation, landscape ecology, participatory science, Quantum Geographic Information System (QGIS), road	Spatial patterns, hot spots, land cover, citizen science, cost efficiency estimation	Amphibians and reptiles	Surveyed road kills	Chi-squared tests, KDE+

			mortality, snakes				
Jeganathan et al, 2018	Seasonal variation in wildlife road kills in plantations and tropical rainforest in the Anamalai Hills, Western Ghats, India	Anamalai Hills, Western Ghats, India	Linear infrastructure intrusions, road kill, road ecology, Western Ghats, wildlife-vehicle collisions	Seasonal variation, habitat variables	Wildlife	Surveyed road kills	Garmin GPSMAP 60CSx; analysis was conducted for seasonal patterns, habitat type and transects
Jensen et al, 2014	Landscape factors that contribute to animale vehicle collisions in two northern Utah canyons	North central Utah: Provo Canyon, USA	Animal-vehicle collisions, elk, gap data, mule deer, normalised difference vegetation index (NDVI)	Spatial patterns, landscape factors, AVC probability	Mule deer (*Odocoileus hemionus*) and elk (*Cervus canadensis*)	Road kill dataset obtained (Utah State Police)	Digital elevation model (DEM) and NDVI (Normalised Difference Vegetation Index)

Kazemi et al, 2016	Spatio-Temporal Patterns of Wildlife Road Mortality in Golestan National Park-North East of Iran	Golestan National Park, North East of Iran	Golestan National Park, K-Function, spatio-temporal pattern, wildlife-vehicle collision (WVC)	Spatio-temporal patterns	Mammals (initial findings were General road kills)	Road kill dataset obtained (Environmental protection department of Golestan National Park)	Kernel Density Analysis, Ripley K-Function tools, temporal analysis
Kim et al, 2019	Spatio-temporal characteristics and predictions of the endangered leopard cat Prionailirus bengalensis euptilura road-kills in the Republic of Korea	Republic of Korea	Conservation, endangered species, Prionailurus bengalensis euptilura, prediction modeling, road-kills, management policy	Spatio-temporal patterns, landscape and traffic variables, prediction modelling, policy implications	Leopard cats (*Prionailurus bengalensis*)	Road kill dataset obtained (Korea Expressway Corporation)	Create Random Points tool

Langen et al, 2009	Predicting Hot Spots of Herpetofauna Road Mortality Along Highway Networks	St. Lawrence County, New York, USA	Amphibians, Habitat fragmentation, Landscape connectivity, New York State, Reptiles, Road ecology, Wetlands.	Spatial patterns, hot spots,	Reptiles and amphibians	Surveyed road kills	Logistic regression models
Langley et al, 2006	Risk Factors Associated With Fatal Animal-Vehicle Collisions in the United States, 1995–2004	USA	Animal, Collisions, Fatalities, Motorcycles, Prevention, Vehicle	Impact, temporal patterns, risk facts, prevention	General road kills	Road kill dataset obtained (National Highway Traffic Administratio n)	Descriptive statistics, Mantel-Haenszel Chi-Squared tests, Mantel-Haenszel estimation, Mantel Haenszel logit method
Lin, 2016	Landscape and Traffic Factors Affecting Animal Road Mortality	Kinmen Island, Taiwan	Ecological conservation, Geometric model,	Landscape and traffic factors, hot spots, road kill probability	General road kills	Surveyed road kills	Geometric models

			Kinmen, Road kill, Traffic flow theory	models			
Lyamuya et al, 2021	Magnitude, patterns and composition of wildlife road kill in the Serengeti ecosystem, northern Tanzania	Serengeti ecosystem, northern Tanzania	Conservation, Death, Gravel roads, Killed, Protected area	Spatio-temporal patterns, road kill magnitude, road kill composition	Wildlife	Surveyed road kills	Descriptive statistics, Chi-squared tests
Machado et al, 2015	Road kill on vertebrates in Brazil: seasonal variation and road type comparison	Lavras, Nazareno, and Camargo, Brazil	Conservation, Paved road versus dirt road, Seasonality	Seasonal variations, road type, vertebrate diversity, conservation	General road kill	Surveyed road kills	Chi-squared tests, G tests, rarefaction curve
Matthews, 2019	Patterns and composition of medium and large vertebrate road kill, based on six annual surveys along two adjoining highways in south-eastern Queensland, Australia	south-eastern Queensland, Australia	Animal–vehicle collisions, Citizen science, Ecological trap, Macropod,	Hot spots, temporal patterns, road kill magnitude, vertebrate composition	Medium and large vertebrates	Surveyed road kills	Testing for collinearity

			Wildlife management				
Meza-Joya et al, 2019	Spatio-temporal patterns of mammal road mortality in middle Magdalena Valley, Colombia	Middle Magdalena Valley, Colombia	Landscape connectivity, Mitigation measures, Mortality rates, Road kills	Spatio-temporal patterns, hot spots, landscape and traffic variables	Mammals	Surveyed road kills	Mann-Whitney, U-tests, Chi-squared tests, modified Ripley's K-test, 2D Hot Spot Indentification Analysis
Muller et al, 2014	Spatial and Temporal Relationships Between Deer Harvest and Deer–Vehicle Collisions at Oak Ridge Reservation, Tennessee	Oak Ridge Reservation, Tennessee, USA	Deer–vehicle collisions, Moon phase, Oak Ridge, Odocoileus virginianus, Tennessee, White-tailed deer	Spatio-temporal patterns, habitat variables, traffic variables	White-tailed deer (*Odocoileus virginianus*)	Surveyed road kills	Poisson regression analysis, log link function, Pearson correlation, Chi-squared tests, GLM
Neumann et al, 2012	Difference in spatiotemporal patterns of wildlife road-crossings and wildlife-vehicle	Västerbotten and Norrbotten,	Alces alces, Collision data, Generalized	Spatio-temporal patterns, environmental	Moose (*Alces alces*)	Road kill dataset obtained	GLM with binomial error distribution and logit link, GLMMs and GIS analysis

	collisions	northern Sweden	additive model, Generalized linear mixed model, Movement data, Ungulate	attributes, high-risk zones		(Swedish National Police Board)	
Njovu et al, 2019	The spatial and temporal distribution of mammal road kills in the Kwakuchinja Wildlife Corridor in Tanzania	Kwakuchinja Wildlife Corridor, northern Tanzania	Not applicable	Spatio-temporal distribution, seasonal variations, conservation	Mammals	Surveyed road kills	Mixed-effect model, glmer() function
Ogletree et al, 2019	Identifying road kill hotspots using a running average	Baldwin County, Georgia, USA	Road kill hotspots, Wildlife road mortality	Hot spots mitigation measures	General road kills	Road kill dataset obtained (Case study of Boitet and Mead, 2014)	Running average plots, linear graphs of road kill distribution
Rendall et al, 2021	Where wildlife and traffic collide: Road kill rates change through time in a	Phillip Island, Melbourne, Victoria,	Possum, Rabbit, Road kill mitigation,	Spatio-temporal factors, hot spots,	General road kills	Surveyed road kills	General Additive Models (GAMs)

	wildlife-tourism hotspot	Australia	Swamp wallaby, Vehicle collision, Wildlife mortality	taxonomy, mitigation			
Russo et al, 2020	Prioritizing road-kill mitigation areas: A spatially explicit national-scale model for an elusive carnivore	Continental Italy	Citizen science, Italy, Mustela putorius, Prioritization, Road Ecology, Road-kill, Species distribution model	Spatial distribution, road kill risk model, environmental and road variables	Polecat (*Mustela putorius*)	Road kill dataset obtained (Unnamed regional authorities, researchers, citizen scientists, and literature)	Regression analysis with binomial distribution and logit link function
Sadleir & Linklater, 2016	Annual and seasonal patterns in wildlife road-kill and their relationship with traffic density	Southern North Island, New Zealand	Brush-tailed possum, Demographic sinks, Hedgehog,	Spatio-temporal patterns, annual patterns, Seasonal patterns,	Hedgehog (*Erinaceous europaeus*), rabbit (*Oryctolagus*	Surveyed road kills	Regression analysis

			Movement barriers, Pukeko, Rabbit, Swamp harrier	Barriers, Traffic variables	*cuniculus*), possum (*Trichosurus vulpecula*), pukeko (*Porphyrio melanotus*) and swamp harriers (*Circus approximans*)		
Santos et al, 2017	Assessing the consistency of hotspot and hot-moment patterns of wildlife road mortality over time	Cerrado, Brazil	Aggregations, Mitigations, Road segments, Road kill, Scale effect	Spatio-temporal aggregations, spatial scale, temporal scale hot spots, hot moments, mitigation	Wildlife (Domestic animals were excluded from further analysis)	Surveyed road kills	Poisson distribution with mean
Saranholi et al, 2016	Road kill hotspots in a protected area of Cerrado in Brazil: planning actions to conservation	Cerrado, Brazil	Fragmentation, Mitigation, Road ecology, Road	Road kill hot spots, landscape characteristics, conservation	Mammals and birds	Surveyed road kills	Analysis of variance (ANOVA), Tukey tests and linear regression

			mortality, Wildlife conservation				
Seo et al, 2015	Disentangling road kill: the influence of landscape and season on cumulative vertebrate mortality in South Korea	Southern South Korea	Gi* statistic, Logistic regression, Road kill hotspots, Road kill landscape modeling, Road kill phenology, South Korea	Spatio-temporal patterns, hot spots, influencing factors	General road kills	Surveyed road kills	Getis-Ord Gi* Statistic
Shin et al, 2022	Citizen science and road kill trends in the Korean herpetofauna: The importance of spatially biased and unstandardized data	Republic of Korea	Citizen science, Conservation, Herpetofauna, Republic of Korea, Wildlife vehicle collisions	Spatio-temporal patterns, spatio-temporal factors, conservation	Amphibians and reptiles	Road kill dataset obtained (iNaturalist)	Chi-squared tests

Sillero et al, 2019	Influence of Landscape Factors on Amphibian Road kills at the National Level	Slovenia	Amphibian conservation, Slovenia, Road mortality, Hotspots	Spatio-temporal patterns, hot spots, landscape factors, human factors	Amphibians and reptiles	Road kill dataset obtained (Published and web resource-based citizen science projects)	GLM
Silva et al, 2020	High road kill rates in the Dong Phayayen-Khao Yai World Heritage Site: conservation implications of a rising threat to wildlife	Dong Phayayen-Khao Yai World Heritage Site, Thailand	Road ecology, Road kill, Road mortality, Thailand, Wildlife-vehicle collisions	Spatio-temporal patterns, landscape factors, conservation	Wildlife	Surveyed road kills	Ripley's K analysis, GLMs with binomial distribution and logit link, Poisson distribution, GLMMs
Snow et al, 2018	Regional-Based Mitigation to Reduce Wildlife–Vehicle Collisions	Midwest, USA	Accident, collision risk, dynamic process,	Spatio-temporal patterns, space-time influences, mitigation	White-tailed deer (*Odocoileus virginianus*)	Road kill dataset obtained (several data	Hierarchical Bayesian modeling framework

			Odocoileus virginianus, road ecology, spatio-temporal model, white-tailed deer			sources Michigan, Illinois, Iowa, and Wisconsin)	
Tejera et al, 2018	Wildlife-vehicle collisions in Lanzarote Biosphere Reserve, Canary Islands	Lanzarote, Spain	Not applicable	Spatio-temporal patterns, influencing factors, impact	Mammals and birds	Surveyed road kills	GLMS with binomial error distribution and logit link function
Valerio et al, 2021	The identification of wildlife-vehicle collision hotspots: Citizen science reveals spatial and temporal patterns	Campania Region, Italy	Land cover, road kill, road ecology, seasonal trend, spatial prioritization, urban wildlife	Spatio-temporal patterns, hot spots, citizen science, prediction, road ecology, land cover variables	General road kills	Surveyed road kills	GAM, Chi-squared tests
Valero et al, 2015	Road and traffic factors correlated to wildlife–vehicle collisions in Galicia (Spain)	Galicia, north-western Spain	Road kill, Road fencing, Risk factors,	Spatial distribution, hot spots, road and	Roe deer (*Capreolus capreolus*) and	Road kill dataset obtained	Nearest neighbour analysis, hot spot analysis, Mann-Whitney U-test, X^2-test, multiple logistic

			Ungulates, WVC	traffic factors, risk	wild boar (*Sus scrofa*)	(surveyed by assigned citizen scientists)	regression analysis
Visintin et al, 2016	A simple framework for a complex problem? Predicting wildlife–vehicle collisions	Victoria, southeast Australia	Animal, co-occurrence, kangaroo, risk, road kill, road ecology, spatial, species distribution model, speed limit, traffic volume	Spatial patterns, spatial scale, road kill risk, prediction, traffic factors, natural effects, anthropogenic effects	Eastern Grey Kangaroo (*Macropus giganteus*)	Road kill dataset obtained (Wildlife Victoria)	Collision risk model
Wang et al, 2022	Temporal patterns and factors influencing vertebrate road kill in China	Changbai Mountain National Nature Reserve, Jilin, China	Road ecology, Road mortality, Traffic casualties, Wildlife vehicle collisions	Temporal patterns, temporal factors, traffic factors, impact, prediction	General road kills	Surveyed road kills	Poisson distribution

Williams et al, 2019	Using road patrol data to identify factors associated with carnivore road kill counts	Durban and Johannesburg, South Africa	Human-wildlife conflict, Road ecology, Wildlife management, Wildlife-vehicle collision	Spatial distribution, temporal patterns, environmental variables, anthropogenic variables, prediction	Serval (*Leptailurus serval*)	Surveyed road kills	Generalised Linear Mixed-Effect model with negative binomial distribution and log link, Poisson distribution, Mantel tests
Winton et al, 2018	Estimating actual versus detected road mortality rates for a northern viper	White Lake Basin, British Columbia, Canada	Bias experiments, Mortality estimates, Observer detection, Snake, Road mortality, Scavenging	Spatial variation, prediction, scavenging influence	Western rattlesnake (*Crotalus oreganus*)	Surveyed road kills	Kruskal-Wallis One Way ANOVA
Yue et al, 2019	Informing Snake Road kill Mitigation Strategies in Taiwan Using Citizen	Taiwan	Citizen science, East Asia, Habitat	Spatial patterns, natural history, traffic factors,	Snakes	Surveyed road kills	Maximum entropy models

	Science		use, Maximum entropy models, Reptile, Road mortality	landscape factors, mitigation			
Zhang et al, 2018	Daytime driving decreases amphibian road kill	Wanglang National Nature Reserve, Sichuan, China	Bufo andrewsi, Rana chensinensis, Road mortality, Mitigation measures, Wanglang NNR	Spatio-temporal patterns, hot spots, hot moments, driving factors, road mortality vulnerability	Alpine stream salamander (*Batrachuperus tibetanus*), Asiatic grass frog (*R. chensinensis*), Andrew's toad (*Bufo andrewsi*), Chuanbei toothed toad (*Oreolalax chuanbeiensis*), Xizang alpine toad (*Scutiger boulengeri*)	Surveyed road kills	Kruskal-Wallis test, VIF, GLMS, Chi-squared tests, Poisson distribution

APPENDIX 2: ROAD KILL DATA

*For consistency of binomial nomenclature, any species unknown, unidentified, or not specified to at least the Genus level does not have italics applied to their scientific name.

OBJECT ID	id_nr	Date	decimalLat	decimalLon	Class	Scientific	Category	Recorded by	Institution	Website data capture	Common
1	WTP000001	2010-08-01	-32.6793	28.3367	Mammalia	*Chlorocebus pygerythrus*	Wildlife	GVI	Public	Email	Vervet monkey
2	WTP000073	2013-06-05	-31.4001	26.7014	Mammalia	Mammalia*	Wildlife	Derek van der Merwe	Public	Cellphone app	Mammal (unspecified)
3	WTP000285	2013-11-13	-30.5942	29.4528	Mammalia	*Canis lupus familiaris*	Domestic	Aliénor Brassine	Public	Email	Domestic dog
4	WTP000286	2013-11-13	-31.7566	28.6527	Mammalia	*Canis lupus familiaris*	Domestic	Aliénor Brassine	Public	Email	Domestic dog
5	WTP000370	2013-01-18	-32.3021	27.1415	Reptilia	*Varanus albigularis*	Wildlife	Derek van der Merwe	Public	Cellphone app	Rock monitor
6	WTP000465	2011-04-21	-33.0061	27.9233	Mammalia	*Atilax paludinosus*	Wildlife	Gregg Brett	Public	Email	Water mongoose
7	WTP000508	2007-11-24	-31.0867	28.2594	Mammalia	*Ictonyx striatus*	Wildlife	Gerhard Diedericks	iSpot	Website data capture	Striped polecat
8	WTP000625	2010-08-31	-32.8771	27.8506	Aves	*Ispidina picta*	Wildlife	Gregg Brett	Public	Email	African pygmy kingfisher
9	WTP000889	2014-03-06	-31.0014	26.8461	Reptilia	*Bitis arietans*	Wildlife	Amber Jackson via Christine Coppinger	Public	Email	Puff adder
10	WTP005135	2014-11-23	-31.2103	26.7888	Mammalia	*Proteles cristata*	Wildlife	Jan van der Walt	Public	Email	Aardwolf
11	WTP005292	2014-12-11	-31.4758	26.7136	Mammalia	*Proteles cristata*	Wildlife	Jan van der	Public	Email	Aardwolf

								Walt			
12	WTP005341	2014-12-22	-31.6649	27.3463	Mammalia	*Ictonyx striatus*	Wildlife	Not given	Public	Cellphone app	Striped polecat
13	WTP005367	2014-12-30	-31.051	26.8754	Mammalia	*Proteles cristata*	Wildlife	Jan van der Walt	Public	Email	Aardwolf
14	WTP005440	2015-01-02	-32.9061	28.0183	Mammalia	*Canis lupus familiaris*	Domestic	Sharonne Dewing	Public	Email	Domestic dog
15	WTP005544	2015-02-03	-31.2102	26.7889	Mammalia	*Lepus saxatilis*	Wildlife	Jan van der Walt	Public	Email	Scrub hare
16	WTP005559	2015-02-05	-31.2093	26.7894	Mammalia	*Lepus saxatilis*	Wildlife	Pieter de Klerk	Public	Email	Scrub hare
17	WTP005571	2015-02-09	-31.2015	26.794	Mammalia	*Lepus saxatilis*	Wildlife	Jan van der Walt	Public	Email	Scrub hare
18	WTP010409	2010-12-19	-32.3655	26.9201	Reptilia	*Psammophylax tritaeniatus*	Wildlife	Beryl Wilson	Public	Email	Stripped skaapsteker
19	WTP010412	2010-12-19	-31.5618	26.9534	Reptilia	*Lamprophis capensis*	Wildlife	Beryl Wilson	Public	Email	Brown house snake
20	WTP010413	2010-12-19	-31.4386	27.4305	Reptilia	*Pseudaspis cana*	Wildlife	Beryl Wilson	Public	Email	Mole snake
21	WTP010414	2010-12-19	-31.3699	27.7048	Reptilia	*Pelomedusa subrufa*	Wildlife	Beryl Wilson	Public	Email	Helmeted turtle
22	WTP010415	2010-12-19	-31.5402	27.8731	Amphibia	Frog and toad species (unspecified)*	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
23	WTP010416	2010-12-19	-31.5505	27.8904	Amphibia	*Semnodactylus wealii*	Wildlife	Beryl Wilson	Public	Email	Weale's running frog
24	WTP010417	2010-12-19	-31.8045	27.9009	Amphibia	Frog and toad species (unspecified)	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
25	WTP010418	2010-12-20	-32.3039	28.1981	Reptilia	*Bitis arietans*	Wildlife	Beryl Wilson	Public	Email	Puff adder
26	WTP010419	2010-12-20	-31.553	29.5244	Amphibia	Frog and toad species (unspecified)	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
27	WTP010420	2010-12-20	-31.4521	29.5302	Amphibia	Frog and toad species	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)

						(unspecified)					
28	WTP010421	2010-12-20	-31.4478	29.5263	Amphibia	*Xenopus laevis*	Wildlife	Beryl Wilson	Public	Email	Common platanna
29	WTP010422	2010-12-20	-31.3116	29.5099	Amphibia	Frog and toad species (unspecified)	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
30	WTP010423	2010-12-20	-30.7737	29.5057	Amphibia	Frog and toad species (unspecified)	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
31	WTP010424	2010-12-20	-30.7498	29.5554	Amphibia	*Breviceps adspersus*	Wildlife	Beryl Wilson	Public	Email	Bushveld rain frog
32	WTP010425	2010-12-20	-30.7418	29.5555	Amphibia	*Breviceps adspersus*	Wildlife	Beryl Wilson	Public	Email	Bushveld rain frog
33	WTP010426	2010-12-21	-30.4812	29.289	Amphibia	Frog and toad species (unspecified)	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
34	WTP010427	2010-12-21	-30.458	29.2475	Reptilia	Serpentes*	Wildlife	Beryl Wilson	Public	Email	Snake (unspecified)
35	WTP010428	2010-12-21	-30.4424	29.186	Amphibia	*Xenopus laevis*	Wildlife	Beryl Wilson	Public	Email	Common platanna
36	WTP010430	2010-12-21	-30.4424	29.186	Amphibia	*Semnodactylus wealii*	Wildlife	Beryl Wilson	Public	Email	Weale's running frog
37	WTP010432	2010-12-21	-30.4333	29.1595	Amphibia	Frog and toad species (unspecified)	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
38	WTP010433	2010-12-21	-30.4168	29.1136	Amphibia	*Tomopterna cryptotis*	Wildlife	Beryl Wilson	Public	Email	Common sand frog
39	WTP010434	2010-12-21	-30.4168	29.1136	Amphibia	Frog and toad species (unspecified)	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
40	WTP010435	2010-12-21	-30.4096	29.0772	Reptilia	*Lycodonomorphus rufulus*	Wildlife	Beryl Wilson	Public	Email	Common water snake
41	WTP010436	2010-12-21	-30.3878	28.9752	Amphibia	*Semnodactylus wealii*	Wildlife	Beryl Wilson	Public	Email	Weale's running frog
42	WTP010437	2010-12-21	-30.3878	28.9752	Amphibia	*Kassina senegalensis*	Wildlife	Beryl Wilson	Public	Email	Senegal running frog
43	WTP010438	2010-12-21	-30.3201	28.7539	Amphibia	*Xenopus sp.*	Wildlife	Beryl Wilson	Public	Email	Common platanna

44	WTP010439	2010-12-21	-30.3137	28.7351	Amphibia	*Kassina senegalensis*	Wildlife	Beryl Wilson	Public	Email	Senegal running frog
45	WTP010440	2010-12-21	-30.3139	28.7242	Amphibia	*Semnodactylus wealii*	Wildlife	Beryl Wilson	Public	Email	Weale's running frog
46	WTP010441	2010-12-21	-30.3778	28.6813	Amphibia	Frog and toad species (unspecified)	Wildlife	Beryl Wilson	Public	Email	Frogs and Toads (unspecified)
47	WTP010442	2010-12-21	-31.2912	27.8292	Reptilia	*Dasypeltis scabra*	Wildlife	Beryl Wilson	Public	Email	Rhombic egg eater
48	WTP010893	2007-11-24	-31.0867	28.2594	Mammalia	*Ictonyx striatus*	Wildlife	Tony Rebelo	SANBI	Email	Striped polecat
49	WTP011516	2016-02-09	-32.5567	27.432	Unknown	Unknown*	Wildlife	Ronelle Visagie	EWT	Email	Unknown
50	WTP011517	2016-02-09	-32.5885	27.4336	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
51	WTP011518	2016-02-09	-32.6974	27.6154	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
52	WTP011519	2016-02-09	-32.6987	27.617	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
53	WTP011520	2016-02-09	-32.6204	27.6611	Mammalia	Mammalia	Wildlife	Ronelle Visagie	EWT	Email	Mammal (unspecified)
54	WTP011521	2016-02-10	-32.2874	28.2134	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
55	WTP011522	2016-02-10	-32.2406	28.2024	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
56	WTP011523	2016-02-10	-32.0641	28.3286	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
57	WTP011524	2016-02-10	-31.766	28.6376	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
58	WTP011525	2016-02-10	-31.7422	28.6691	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
59	WTP011526	2016-02-10	-31.7288	28.6854	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
60	WTP011527	2016-02-10	-31.7164	28.6931	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown

61	WTP011528	2016-02-10	-31.7066	28.6997	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
62	WTP011529	2016-02-10	-31.6603	28.7151	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
63	WTP011530	2016-02-10	-31.6507	28.7186	Mammalia	*Canis lupus familiaris*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
64	WTP011531	2016-02-10	-31.6377	28.7233	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
65	WTP011532	2016-02-10	-31.5525	28.802	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
66	WTP011533	2016-02-10	-31.5422	28.8234	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
67	WTP011534	2016-02-10	-31.5183	28.8424	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
68	WTP011535	2016-02-10	-31.5184	28.8438	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
69	WTP011536	2016-02-10	-31.5186	28.8494	Mammalia	Ovis aries	Livestock	Ronelle Visagie	EWT	Email	Domestic sheep
70	WTP011537	2016-02-10	-31.5167	28.8565	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
71	WTP011538	2016-02-10	-31.4978	28.8633	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
72	WTP011539	2016-02-10	-31.4193	28.8619	Mammalia	*Capra aegagrus hircus*	Livestock	Ronelle Visagie	EWT	Email	Domestic goat
73	WTP011540	2016-02-11	-31.1216	28.3105	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
74	WTP011541	2016-02-11	-31.1706	28.2491	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
75	WTP011542	2016-02-11	-31.3384	28.0043	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
76	WTP011543	2016-02-11	-31.412	27.5469	Mammalia	*Ictonyx striatus*	Wildlife	Ronelle Visagie	EWT	Email	Striped polecat
77	WTP011544	2016-02-11	-31.3645	26.9314	Mammalia	*Ictonyx striatus*	Wildlife	Ronelle Visagie	EWT	Email	Striped polecat

78	WTP011545	2016-02-11	-31.3664	26.7539	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
79	WTP012319	2016-07-14	-32.2566	28.2023	Unknown	Unknown	Wildlife	Bradley Gibbons	EWT	Email	Unknown
80	WTP012322	2016-07-16	-32.3361	26.9028	Unknown	Unknown	Wildlife	Bradley Gibbons	EWT	Email	Unknown
81	WTP012323	2016-07-16	-31.8944	26.857	Unknown	Unknown	Wildlife	Bradley Gibbons	EWT	Email	Unknown
82	WTP012324	2016-07-16	-31.8681	26.7836	Unknown	Unknown	Wildlife	Bradley Gibbons	EWT	Email	Unknown
83	WTP012325	2016-07-16	-31.6495	26.6783	Unknown	Unknown	Wildlife	Bradley Gibbons	EWT	Email	Unknown
84	WTP012326	2016-07-16	-31.2762	26.7239	Unknown	Unknown	Wildlife	Bradley Gibbons	EWT	Email	Unknown
85	WTP012327	2016-07-16	-31.2181	26.784	Unknown	Unknown	Wildlife	Bradley Gibbons	EWT	Email	Unknown
86	WTP012328	2016-07-16	-31.0267	26.8545	Unknown	Unknown	Wildlife	Bradley Gibbons	EWT	Email	Unknown
87	WTP015906	2017-03-10	-31.0682	26.8845	Mammalia	*Cynictis penicillata*	Wildlife	Ronelle Visagie	EWT	Email	Yellow mongoose
88	WTP017854	2017-09-07	-31.83	26.7483	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
89	WTP017855	2017-09-07	-31.8727	26.7872	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
90	WTP017856	2017-09-07	-31.8824	26.7944	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
91	WTP017857	2017-09-07	-31.8974	26.8381	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
92	WTP017858	2017-09-07	-31.9316	26.9452	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
93	WTP017859	2017-09-07	-32.0342	27.0714	Mammalia	*Genetta genetta*	Wildlife	Ronelle Visagie	EWT	Email	Common genet
94	WTP017860	2017-09-07	-32.0345	27.0743	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown

95	WTP017861	2017-09-07	-32.0766	27.1062	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
96	WTP017862	2017-09-07	-32.1214	27.1125	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
97	WTP017863	2017-09-07	-32.1417	27.1182	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
98	WTP017864	2017-09-07	-32.1851	27.112	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
99	WTP017865	2017-09-07	-32.1895	27.1118	Mammalia	Leporidae	Wildlife	Ronelle Visagie	EWT	Email	Lagomorph (unspecified)
100	WTP017866	2017-09-07	-32.2296	27.1256	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
101	WTP017867	2017-09-07	-32.2426	27.1278	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
102	WTP017868	2017-09-07	-32.2904	27.1423	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
103	WTP018636	2018-02-25	-30.9	28.9827	Unknown	Unknown	Wildlife	Anonymous	Public	Cellphone app	Unknown
104	WTP018903	2017-12-12	-30.4137	29.0067	Mammalia	*Lepus saxatilis*	Wildlife	Thabo Madlala	Public	Cellphone app	Scrub hare
105	WTP020229	2018-10-31	-31.0711	27.6547	Mammalia	*Lepus sp.*	Wildlife	Ronelle Visagie	EWT	Email	Lagomorph (unspecified)
106	WTP020975	2018-01-15	-31.9375	26.757	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
107	WTP021572	2018-10-31	-31.1064	27.7116	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
108	WTP021573	2018-10-31	-31.2461	27.8206	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
109	WTP021789	2018-01-16	-32.218	27.1229	Mammalia	*Cynictis penicillata*	Wildlife	Ronelle Visagie	EWT	Email	Yellow mongoose
110	WTP023484	2019-06-24	-31.3579	27.0983	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
111	WTP023485	2019-06-24	-31.401	27.2337	Mammalia	*Lepus sp.*	Wildlife	Ronelle Visagie	EWT	Email	Lagomorph (unspecified)

112	WTP023486	2019-06-24	-31.4008	27.2361	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
113	WTP023487	2019-06-24	-31.4469	27.3098	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
114	WTP023488	2019-06-24	-31.4385	27.4309	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
115	WTP023489	2019-06-24	-31.4224	27.4822	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
116	WTP023490	2019-06-24	-31.4116	27.5494	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
117	WTP023491	2019-06-24	-31.3716	27.6332	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
118	WTP023492	2019-06-24	-31.3331	27.8566	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
119	WTP023493	2019-06-24	-31.3414	27.8683	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
120	WTP023494	2019-06-24	-31.343	27.9308	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
121	WTP023495	2019-06-24	-31.3527	27.9816	Mammalia	*Lepus sp.*	Wildlife	Ronelle Visagie	EWT	Email	Lagomorph (unspecified)
122	WTP023496	2019-06-24	-31.3227	28.0229	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
123	WTP023497	2019-06-24	-31.326	28.0382	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
124	WTP023498	2019-06-24	-31.3124	28.098	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
125	WTP023499	2019-06-24	-31.1397	28.287	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
126	WTP023500	2019-06-24	-31.1645	28.5335	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
127	WTP023501	2019-06-24	-31.1643	28.5564	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
128	WTP023502	2019-06-24	-31.2555	28.6553	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown

129	WTP023503	2019-06-24	-31.2711	28.6896	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
130	WTP023504	2019-06-24	-31.2765	28.6954	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
131	WTP023505	2019-06-24	-31.2915	28.8051	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
132	WTP023506	2019-06-24	-31.29	28.8065	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
133	WTP023507	2019-06-24	-31.2662	28.8203	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
134	WTP023508	2019-06-24	-31.2467	28.8387	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
135	WTP023509	2019-06-24	-31.216	28.849	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
136	WTP023510	2019-06-24	-31.1824	28.8787	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
137	WTP023511	2019-06-24	-30.972	28.9421	Mammalia	*Equus ferus caballus*	Wildlife	Ronelle Visagie	EWT	Email	Horse
138	WTP023512	2019-06-24	-30.9703	28.9464	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
139	WTP023513	2019-06-24	-30.9504	28.9681	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
140	WTP023514	2019-06-24	-30.8325	29.1293	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
141	WTP023515	2019-06-24	-30.8093	29.3092	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
142	WTP023516	2019-06-24	-30.7383	29.5507	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
143	WTP023517	2019-06-24	-30.8662	29.8066	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
144	WTP023518	2019-06-24	-30.8672	29.8507	Mammalia	*Felis catus*	Domestic	Ronelle Visagie	EWT	Email	Domestic cat
145	WTP023519	2019-06-24	-30.868	29.8532	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog

146	WTP023520	2019-06-24	-30.8786	29.8679	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
147	WTP023521	2019-06-24	-30.8999	29.8897	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
148	WTP023522	2019-06-24	-30.9015	29.8948	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
149	WTP023523	2019-06-25	-30.9497	29.5648	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
150	WTP023524	2019-06-25	-30.8673	29.6425	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
151	WTP023525	2019-06-25	-30.8525	29.7259	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
152	WTP023526	2019-06-25	-30.8547	29.7311	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
153	WTP023527	2019-06-25	-30.8438	29.7839	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
154	WTP023528	2019-06-25	-30.865	29.8055	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
155	WTP023529	2019-06-25	-30.8672	29.8508	Mammalia	*Felis catus*	Domestic	Ronelle Visagie	EWT	Email	Domestic cat
156	WTP023530	2019-06-25	-30.8677	29.8523	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
157	WTP023531	2019-06-25	-30.8773	29.8671	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
158	WTP023532	2019-06-25	-30.8996	29.8888	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
159	WTP023533	2019-06-25	-30.9017	29.8954	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
160	WTP023534	2019-06-25	-30.9006	29.9199	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
161	WTP023535	2019-06-25	-30.9104	29.9726	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
162	WTP023536	2019-06-25	-30.9214	29.9727	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown

163	WTP023537	2019-06-25	-30.9256	29.9717	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
164	WTP023538	2019-06-25	-30.9283	29.9711	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
165	WTP023539	2019-06-25	-30.9428	29.97	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
166	WTP023540	2019-06-25	-30.9625	29.9713	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
167	WTP023541	2019-06-25	-30.9661	29.9772	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
168	WTP023542	2019-06-25	-30.9671	29.9782	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
169	WTP023543	2019-06-25	-30.9921	30.0227	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
170	WTP023544	2019-06-25	-31.0253	30.092	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
171	WTP023545	2019-06-25	-31.0281	30.1203	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
172	WTP023546	2019-06-25	-31.0291	30.1226	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
173	WTP023547	2019-06-25	-31.0504	30.1317	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
174	WTP023548	2019-06-25	-31.0516	30.1325	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
175	WTP023549	2019-06-25	-31.0731	30.1811	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
176	WTP023550	2019-06-25	-31.0768	30.1837	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
177	WTP023551	2019-06-25	-31.0782	30.1854	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
178	WTP023554	2019-06-27	-30.5827	29.9076	Mammalia	*Ictonyx striatus*	Wildlife	Ronelle Visagie	EWT	Email	Striped polecat
179	WTP023555	2019-06-27	-30.5184	29.6355	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown

180	WTP023556	2019-06-27	-30.5173	29.3198	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
181	WTP023557	2019-06-27	-30.4765	29.2759	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
182	WTP023558	2019-06-27	-30.4473	29.2155	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
183	WTP023559	2019-06-27	-30.4438	29.1941	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
184	WTP023560	2019-06-27	-30.4422	29.1846	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
185	WTP023561	2019-06-27	-30.4314	29.1548	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
186	WTP023562	2019-06-27	-30.4306	29.153	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
187	WTP023563	2019-06-27	-30.4286	29.1481	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
188	WTP023564	2019-06-27	-30.4135	29.0971	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
189	WTP023565	2019-06-27	-30.4038	29.062	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
190	WTP023566	2019-06-27	-30.3873	29.0255	Mammalia	*Lepus sp.*	Wildlife	Ronelle Visagie	EWT	Email	Lagomorph (unspecified)
191	WTP023567	2019-06-27	-30.3856	28.953	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
192	WTP023568	2019-06-27	-30.3543	28.8685	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
193	WTP023569	2019-06-27	-30.3874	28.6789	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
194	WTP023570	2019-06-27	-30.4091	28.6711	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
195	WTP023571	2019-06-27	-30.4757	28.6024	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
196	WTP023572	2019-06-27	-30.4778	28.5978	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown

197	WTP023573	2019-06-27	-30.4876	28.5814	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
198	WTP023574	2019-06-27	-30.5472	28.5255	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
199	WTP023575	2019-06-27	-30.571	28.5138	Mammalia	*Canis lupus*	Domestic	Ronelle Visagie	EWT	Email	Domestic dog
200	WTP023576	2019-06-27	-30.6158	28.4944	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
201	WTP023577	2019-06-27	-30.6599	28.4785	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
202	WTP023578	2019-06-27	-30.7225	28.5318	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
203	WTP023579	2019-06-27	-30.7951	28.5347	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
204	WTP023580	2019-06-27	-30.812	28.5381	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
205	WTP023581	2019-06-27	-30.8267	28.5426	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
206	WTP023582	2019-06-27	-30.8741	28.5302	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
207	WTP023583	2019-06-27	-30.8856	28.511	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
208	WTP023584	2019-06-27	-30.8988	28.4975	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
209	WTP023585	2019-06-27	-30.9008	28.4951	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
210	WTP023586	2019-06-27	-30.9166	28.4744	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
211	WTP023587	2019-06-27	-30.9196	28.4725	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
212	WTP023588	2019-06-27	-30.9223	28.4708	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
213	WTP023589	2019-06-27	-30.9558	28.4513	Mammalia	*Equus asinus*	Wildlife	Ronelle Visagie	EWT	Email	Donkey

214	WTP023590	2019-06-27	-31.3174	28.0926	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
215	WTP023591	2019-06-27	-31.3417	28.0012	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
216	WTP023592	2019-06-27	-31.3718	27.7145	Mammalia	*Lepus sp.*	Wildlife	Ronelle Visagie	EWT	Email	Lagomorph (unspecified)
217	WTP023593	2019-06-27	-31.4611	27.3731	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
218	WTP023594	2019-06-27	-31.3947	26.6149	Mammalia	*Xerus inauris*	Wildlife	Ronelle Visagie	EWT	Email	Ground squirrel
219	WTP023595	2019-06-27	-31.4016	26.5907	Unknown	Unknown	Unknown	Ronelle Visagie	EWT	Email	Unknown
220	WTP025146	2020-01-29	-31.16779337	26.80324962	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
221	WTP025149	2020-01-29	-31.01806227	26.85180714	Mammalia	Mammalia	Wildlife	Ronelle Visagie	EWT	Email	Mammal (unspecified)
222	WTP025150	2020-01-29	-31.36729692	26.70145884	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
223	WTP025151	2020-01-29	-31.37578037	27.75293784	Aves	Bird species (unspecified)	Wildlife	Ronelle Visagie	EWT	Email	Bird (unspecified)
224	WTP025152	2020-01-30	-31.3206829	28.08188364	Mammalia	Mammalia	Wildlife	Ronelle Visagie	EWT	Email	Mammal (unspecified)
225	WTP025153	2020-01-30	-31.29130171	27.82931404	Aves	Bird species (unspecified)	Wildlife	Ronelle Visagie	EWT	Email	Bird (unspecified)
226	WTP025154	2020-01-30	-31.17963627	27.79448341	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
227	WTP025155	2020-01-30	-31.1675189	27.76041019	Aves	Bird species (unspecified)	Wildlife	Ronelle Visagie	EWT	Email	Bird (unspecified)

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228	WTP025156	2020-01-30	-31.11532613	27.72000115	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
229	WTP025157	2020-01-30	-31.0368886	27.64137177	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
230	WTP025685	2020-06-03	-31.37347607	26.71818587	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
231	WTP025686	2020-06-03	-31.34413322	26.81902107	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
232	WTP025687	2020-06-03	-31.34573883	26.824458	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
233	WTP025688	2020-06-03	-31.35847361	27.09970805	Mammalia	Mammalia	Wildlife	Ronelle Visagie	EWT	Email	Mammal (unspecified)
234	WTP025689	2020-06-03	-31.36456329	27.11034254	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
235	WTP025690	2020-06-03	-31.42181825	27.29982656	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
236	WTP025691	2020-06-03	-31.44125488	27.38978691	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
237	WTP025692	2020-06-03	-31.40906981	27.56393526	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
238	WTP025693	2020-06-03	-31.36844266	27.70072428	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown

239	WTP025694	2020-06-03	-31.37607145	27.75307601	Mammalia	*Lepus sp.*	Wildlife	Ronelle Visagie	EWT	Email	Lagomorph (unspecified)
240	WTP025695	2020-06-04	-31.20550723	28.18989436	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
241	WTP025696	2020-06-04	-31.32154014	28.07943639	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
242	WTP025697	2020-06-04	-31.41355549	27.50707855	Aves	*Tyto alba*	Wildlife	Ronelle Visagie	EWT	Email	Barn owl
243	WTP025698	2020-06-04	-31.42226008	27.48685389	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
244	WTP025699	2020-06-04	-31.42326922	27.47506084	Mammalia	*Lepus sp.*	Wildlife	Ronelle Visagie	EWT	Email	Lagomorph (unspecified)
245	WTP025700	2020-06-04	-31.43487817	27.44889785	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown
246	WTP025701	2020-06-04	-31.39865807	27.24829238	Aves	Bird species (unspecified)	Wildlife	Ronelle Visagie	EWT	Email	Bird (unspecified)
247	WTP025702	2020-06-04	-31.39956475	27.24404058	Mammalia	Mammalia	Wildlife	Ronelle Visagie	EWT	Email	Mammal (unspecified)
248	WTP025703	2020-06-04	-31.40059914	27.23969015	Mammalia	Mammalia	Wildlife	Ronelle Visagie	EWT	Email	Mammal (unspecified)
249	WTP025704	2020-06-04	-31.38469545	26.67294811	Unknown	Unknown	Wildlife	Ronelle Visagie	EWT	Email	Unknown

APPENDIX 3: ROAD WIDTH DATA

A. R56

OBJECTID	ROAD_ID1	ROAD_ID	KM_DIST	Road Width (m)	Latitude Decimal Degrees	Longitude Decimal Degrees
1	56	R05601E	1.2	8.15	-31.4935	25.0155
2	56	R05601E	1.4	8.15	-31.4938	25.0168
3	56	R05601E	1.6	8.15	-31.4934	25.0189
4	56	R05601E	1.8	8.15	-31.4932	25.0210
5	56	R05601E	2	8.15	-31.4930	25.0231
6	56	R05601E	2.2	8.15	-31.4930	25.0252
7	56	R05601E	2.4	8.15	-31.4930	25.0273
8	56	R05601E	2.6	8.15	-31.4930	25.0294
9	56	R05601E	2.8	8.15	-31.4930	25.0315
10	56	R05601E	3	8.15	-31.4931	25.0336
11	56	R05601E	3.2	8.15	-31.4933	25.0357
12	56	R05601E	3.4	8.15	-31.4931	25.0378
13	56	R05601E	3.6	8.15	-31.4931	25.0399
14	56	R05601E	3.8	8.15	-31.4932	25.0420
15	56	R05601E	4	8.15	-31.4932	25.0441
16	56	R05601E	4.2	8.15	-31.4932	25.0462
17	56	R05601E	4.4	8.15	-31.4932	25.0485
18	56	R05601E	4.6	8.15	-31.4933	25.0505
19	56	R05601E	4.8	8.15	-31.4933	25.0526
20	56	R05601E	5	8.15	-31.4933	25.0547
21	56	R05601E	5.2	8.15	-31.4933	25.0568
22	56	R05601E	5.4	8.15	-31.4935	25.0589
23	56	R05601E	5.6	8.15	-31.4934	25.0610

24	56	R05601E	5.8	8.15	-31.4935	25.0631
25	56	R05601E	6	8.15	-31.4932	25.0652
26	56	R05601E	6.2	8.15	-31.4930	25.0673
27	56	R05601E	6.4	8.15	-31.4926	25.0694
28	56	R05601E	6.6	8.15	-31.4922	25.0716
29	56	R05601E	6.8	8.15	-31.4918	25.0735
30	56	R05601E	7	8.15	-31.4916	25.0755
31	56	R05601E	7.2	8.15	-31.4910	25.0776
32	56	R05601E	7.4	8.15	-31.4906	25.0796
33	56	R05601E	7.6	8.15	-31.4902	25.0819
34	56	R05601E	7.8	8.15	-31.4898	25.0837
35	56	R05601E	8	8.15	-31.4894	25.0858
36	56	R05601E	8.2	8.15	-31.4890	25.0879
37	56	R05601E	8.4	8.15	-31.4886	25.0899
38	56	R05601E	8.6	8.15	-31.4882	25.0921
39	56	R05601E	8.8	8.15	-31.4878	25.0940
40	56	R05601E	9	8.15	-31.4874	25.0961
41	56	R05601E	9.2	8.15	-31.4870	25.0981
42	56	R05601E	9.4	8.15	-31.4865	25.1001
43	56	R05601E	9.6	8.15	-31.4859	25.1021
44	56	R05601E	9.8	8.15	-31.4854	25.1042
45	56	R05601E	10	8.15	-31.4848	25.1062
46	56	R05601E	10.2	8.15	-31.4843	25.1082
47	56	R05601E	10.4	8.15	-31.4837	25.1102
48	56	R05601E	10.6	8.15	-31.4832	25.1122
49	56	R05601E	10.8	8.15	-31.4826	25.1143
50	56	R05601E	11	8.15	-31.4820	25.1162
51	56	R05601E	11.2	8.15	-31.4815	25.1182
52	56	R05601E	11.4	8.15	-31.4809	25.1202

53	56	R05601E	11.6	8.15	-31.4804	25.1222
54	56	R05601E	11.8	8.15	-31.4798	25.1242
55	56	R05601E	12	8.15	-31.4793	25.1262
56	56	R05601E	12.2	8.15	-31.4787	25.1282
57	56	R05601E	12.4	8.15	-31.4781	25.1302
58	56	R05601E	12.6	8.15	-31.4776	25.1322
59	56	R05601E	12.8	8.15	-31.4770	25.1342
60	56	R05601E	13	8.15	-31.4766	25.1363
61	56	R05601E	13.2	8.15	-31.4761	25.1383
62	56	R05601E	13.4	8.15	-31.4756	25.1403
63	56	R05601E	13.6	8.15	-31.4751	25.1424
64	56	R05601E	13.8	8.15	-31.4746	25.1444
65	56	R05601E	14	8.15	-31.4742	25.1464
66	56	R05601E	14.2	8.15	-31.4737	25.1484
67	56	R05601E	14.4	8.15	-31.4732	25.1505
68	56	R05601E	14.6	8.15	-31.4727	25.1526
69	56	R05601E	14.8	8.15	-31.4724	25.1546
70	56	R05601E	15	8.15	-31.4725	25.1569
71	56	R05601E	15.2	8.15	-31.4726	25.1588
72	56	R05601E	15.4	8.15	-31.4729	25.1609
73	56	R05601E	15.6	8.15	-31.4729	25.1630
74	56	R05601E	15.8	8.15	-31.4727	25.1651
75	56	R05601E	16	8.15	-31.4724	25.1672
76	56	R05601E	16.2	8.15	-31.4722	25.1692
77	56	R05601E	16.4	8.15	-31.4719	25.1713
78	56	R05601E	16.6	8.15	-31.4716	25.1734
79	56	R05601E	16.8	8.15	-31.4713	25.1755
80	56	R05601E	17	8.15	-31.4710	25.1776
81	56	R05601E	17.2	8.15	-31.4707	25.1796

82	56	R05601E	17.4	8.15	-31.4704	25.1817
83	56	R05601E	17.6	8.15	-31.4701	25.1838
84	56	R05601E	17.8	8.15	-31.4698	25.1859
85	56	R05601E	18	8.15	-31.4695	25.1880
86	56	R05601E	18.2	8.15	-31.4692	25.1900
87	56	R05601E	18.4	8.15	-31.4689	25.1921
88	56	R05601E	18.6	8.15	-31.4686	25.1944
89	56	R05601E	18.8	8.15	-31.4683	25.1963
90	56	R05601E	19	8.15	-31.4680	25.1984
91	56	R05601E	19.2	8.15	-31.4677	25.2004
92	56	R05601E	19.4	8.15	-31.4674	25.2025
93	56	R05601E	19.6	8.15	-31.4671	25.2046
94	56	R05601E	19.8	8.15	-31.4668	25.2067
95	56	R05601E	20	8.15	-31.4664	25.2087
96	56	R05601E	20.2	8.15	-31.4659	25.2107
97	56	R05601E	20.4	8.15	-31.4654	25.2128
98	56	R05601E	20.6	8.15	-31.4649	25.2148
99	56	R05601E	20.8	8.15	-31.4644	25.2168
100	56	R05601E	21	8.15	-31.4639	25.2188
101	56	R05601E	21.2	8.15	-31.4635	25.2209
102	56	R05601E	21.4	8.15	-31.4628	25.2229
103	56	R05601E	21.6	8.15	-31.4623	25.2249
104	56	R05601E	21.8	8.15	-31.4618	25.2269
105	56	R05601E	22	8.15	-31.4613	25.2289
106	56	R05601E	22.2	8.15	-31.4608	25.2309
107	56	R05601E	22.4	8.15	-31.4603	25.2330
108	56	R05601E	22.6	8.15	-31.4598	25.2350
109	56	R05601E	22.8	8.15	-31.4592	25.2370
110	56	R05601E	23	8.15	-31.4588	25.2390

111	56	R05601E	23.2	8.15	-31.4585	25.2411
112	56	R05601E	23.4	8.15	-31.4581	25.2432
113	56	R05601E	23.6	8.15	-31.4578	25.2453
114	56	R05601E	23.8	8.15	-31.4575	25.2473
115	56	R05601E	24	8.15	-31.4572	25.2494
116	56	R05601E	24.2	8.15	-31.4569	25.2515
117	56	R05601E	24.4	8.15	-31.4565	25.2536
118	56	R05601E	24.6	8.15	-31.4562	25.2556
119	56	R05601E	24.8	8.15	-31.4559	25.2577
120	56	R05601E	25	8.15	-31.4556	25.2598
121	56	R05601E	25.2	8.15	-31.4552	25.2618
122	56	R05601E	25.4	8.15	-31.4549	25.2639
123	56	R05601E	25.6	8.15	-31.4546	25.2660
124	56	R05601E	25.8	8.15	-31.4543	25.2682
125	56	R05601E	26	8.15	-31.4540	25.2701
126	56	R05601E	26.2	8.15	-31.4538	25.2722
127	56	R05601E	26.4	8.15	-31.4534	25.2743
128	56	R05601E	26.6	8.15	-31.4535	25.2765
129	56	R05601E	26.8	8.15	-31.4536	25.2785
130	56	R05601E	27	8.15	-31.4538	25.2806
131	56	R05601E	27.2	8.15	-31.4541	25.2827
132	56	R05601E	27.4	8.15	-31.4543	25.2848
133	56	R05601E	27.6	8.15	-31.4546	25.2869
134	56	R05601E	27.8	8.15	-31.4548	25.2889
135	56	R05601E	28	8.15	-31.4552	25.2910
136	56	R05601E	28.2	8.15	-31.4552	25.2931
137	56	R05601E	28.4	8.15	-31.4552	25.2952
138	56	R05601E	28.6	8.15	-31.4552	25.2973
139	56	R05601E	28.8	8.15	-31.4552	25.2996

140	56	R05601E	29	8.15	-31.4553	25.3016
141	56	R05601E	29.2	8.15	-31.4553	25.3037
142	56	R05601E	29.4	8.15	-31.4553	25.3058
143	56	R05601E	29.6	8.15	-31.4553	25.3079
144	56	R05601E	29.8	8.15	-31.4554	25.3100
145	56	R05601E	30	8.15	-31.4554	25.3121
146	56	R05601E	30.2	8.15	-31.4552	25.3142
147	56	R05601E	30.4	8.15	-31.4549	25.3163
148	56	R05601E	30.6	8.15	-31.4545	25.3183
149	56	R05601E	30.8	8.15	-31.4542	25.3204
150	56	R05601E	31	8.15	-31.4538	25.3225
151	56	R05601E	31.2	8.15	-31.4535	25.3245
152	56	R05601E	31.4	8.15	-31.4531	25.3266
153	56	R05601E	31.6	8.15	-31.4528	25.3287
154	56	R05601E	31.8	8.15	-31.4524	25.3307
155	56	R05601E	32	8.15	-31.4521	25.3328
156	56	R05601E	32.2	8.15	-31.4519	25.3349
157	56	R05601E	32.4	8.15	-31.4516	25.3370
158	56	R05601E	32.6	8.15	-31.4513	25.3391
159	56	R05601E	32.8	8.15	-31.4512	25.3412
160	56	R05601E	33	8.15	-31.4516	25.3432
161	56	R05601E	33.2	8.15	-31.4527	25.3450
162	56	R05601E	33.4	8.15	-31.4538	25.3465
163	56	R05601E	33.6	8.15	-31.4551	25.3480
164	56	R05601E	33.8	8.15	-31.4563	25.3496
165	56	R05601E	34	8.15	-31.4574	25.3512
166	56	R05601E	34.2	8.15	-31.4580	25.3532
167	56	R05601E	34.4	8.15	-31.4582	25.3552
168	56	R05601E	34.6	8.15	-31.4584	25.3573

169	56	R05601E	34.8	8.15	-31.4586	25.3594
170	56	R05601E	35	8.15	-31.4588	25.3615
171	56	R05601E	35.2	8.15	-31.4589	25.3639
172	56	R05601E	35.4	8.15	-31.4591	25.3657
173	56	R05601E	35.6	8.15	-31.4593	25.3678
174	56	R05601E	35.8	8.15	-31.4594	25.3699
175	56	R05601E	36	8.15	-31.4596	25.3720
176	56	R05601E	36.2	8.15	-31.4598	25.3741
177	56	R05601E	36.4	8.15	-31.4599	25.3762
178	56	R05601E	36.6	8.15	-31.4601	25.3783
179	56	R05601E	36.8	8.15	-31.4603	25.3804
180	56	R05601E	37	8.15	-31.4604	25.3827
181	56	R05601E	37.2	8.15	-31.4606	25.3846
182	56	R05601E	37.4	8.15	-31.4608	25.3867
183	56	R05601E	37.6	8.15	-31.4610	25.3888
184	56	R05601E	37.8	8.15	-31.4613	25.3909
185	56	R05601E	38	8.15	-31.4613	25.3930
186	56	R05601E	38.2	8.15	-31.4615	25.3951
187	56	R05601E	38.4	8.15	-31.4616	25.3972
188	56	R05601E	38.6	8.15	-31.4618	25.3993
189	56	R05601E	38.8	8.15	-31.4621	25.4015
190	56	R05601E	39	8.15	-31.4621	25.4035
191	56	R05601E	39.2	8.15	-31.4623	25.4056
192	56	R05601E	39.4	8.15	-31.4625	25.4077
193	56	R05601E	39.6	8.15	-31.4626	25.4098
194	56	R05601E	39.8	8.15	-31.4628	25.4119
195	56	R05601E	40	8.15	-31.4629	25.4140
196	56	R05601E	40.2	8.15	-31.4633	25.4161
197	56	R05601E	40.4	8.15	-31.4632	25.4182

198	56	R05601E	40.6	8.15	-31.4634	25.4204
199	56	R05601E	40.8	8.15	-31.4636	25.4224
200	56	R05601E	41	8.15	-31.4638	25.4245
201	56	R05601E	41.2	8.15	-31.4639	25.4266
202	56	R05601E	41.4	8.15	-31.4641	25.4287
203	56	R05601E	41.6	8.15	-31.4643	25.4308
204	56	R05601E	41.8	8.15	-31.4646	25.4329
205	56	R05601E	42	8.15	-31.4646	25.4350
206	56	R05601E	42.2	8.15	-31.4648	25.4371
207	56	R05601E	42.4	8.15	-31.4650	25.4392
208	56	R05601E	42.6	8.15	-31.4650	25.4413
209	56	R05601E	42.8	8.15	-31.4644	25.4433
210	56	R05601E	43	8.15	-31.4637	25.4452
211	56	R05601E	43.2	8.15	-31.4630	25.4472
212	56	R05601E	43.4	8.15	-31.4623	25.4491
213	56	R05601E	43.6	8.15	-31.4616	25.4511
214	56	R05601E	43.8	8.15	-31.4610	25.4530
215	56	R05601E	44	8.15	-31.4603	25.4549
216	56	R05601E	44.2	8.15	-31.4596	25.4569
217	56	R05601E	44.4	8.15	-31.4590	25.4588
218	56	R05601E	44.6	8.15	-31.4582	25.4608
219	56	R05601E	44.8	8.15	-31.4578	25.4627
220	56	R05601E	45	8.15	-31.4569	25.4648
221	56	R05601E	45.2	8.15	-31.4561	25.4667
222	56	R05601E	45.4	8.15	-31.4559	25.4687
223	56	R05601E	45.6	8.15	-31.4554	25.4708
224	56	R05601E	45.8	8.15	-31.4549	25.4728
225	56	R05601E	46	8.15	-31.4544	25.4748
226	56	R05601E	46.2	8.15	-31.4536	25.4768

227	56	R05601E	46.4	8.15	-31.4531	25.4788
228	56	R05601E	46.6	8.15	-31.4525	25.4808
229	56	R05601E	46.8	8.15	-31.4520	25.4830
230	56	R05601E	47	8.15	-31.4515	25.4848
231	56	R05601E	47.2	8.15	-31.4509	25.4868
232	56	R05601E	47.4	8.15	-31.4504	25.4888
233	56	R05601E	47.6	8.15	-31.4498	25.4908
234	56	R05601E	47.8	8.15	-31.4493	25.4928
235	56	R05601E	48	8.15	-31.4487	25.4948
236	56	R05601E	48.2	8.15	-31.4482	25.4968
237	56	R05601E	48.4	8.15	-31.4476	25.4989
238	56	R05601E	48.6	8.15	-31.4471	25.5009
239	56	R05601E	48.8	8.15	-31.4465	25.5029
240	56	R05601E	49	8.15	-31.4460	25.5049
241	56	R05601E	49.2	8.15	-31.4454	25.5069
242	56	R05601E	49.4	8.15	-31.4449	25.5089
243	56	R05601E	49.6	8.15	-31.4443	25.5109
244	56	R05601E	49.8	8.15	-31.4438	25.5129
245	56	R05601E	50	8.15	-31.4430	25.5148
246	56	R05601E	50.2	8.15	-31.4421	25.5167
247	56	R05601E	50.4	8.15	-31.4413	25.5185
248	56	R05601E	50.6	8.15	-31.4404	25.5203
249	56	R05601E	50.8	8.15	-31.4397	25.5223
250	56	R05601E	51	8.15	-31.4396	25.5243
251	56	R05601E	51.2	8.15	-31.4398	25.5264
252	56	R05601E	51.4	8.15	-31.4396	25.5285
253	56	R05601E	51.6	8.15	-31.4387	25.5304
254	56	R05601E	51.8	8.15	-31.4373	25.5319
255	56	R05601E	52	8.15	-31.4358	25.5328

256	56	R05601E	52.2	8.15	-31.4344	25.5341
257	56	R05601E	52.4	8.15	-31.4332	25.5356
258	56	R05601E	52.6	8.15	-31.4321	25.5373
259	56	R05601E	52.8	8.15	-31.4310	25.5390
260	56	R05601E	53	8.15	-31.4299	25.5407
261	56	R05601E	53.2	8.15	-31.4288	25.5424
262	56	R05601E	53.4	8.15	-31.4277	25.5440
263	56	R05601E	53.6	8.15	-31.4266	25.5457
264	56	R05601E	53.8	8.15	-31.4255	25.5474
265	56	R05601E	54	8.15	-31.4245	25.5491
266	56	R05601E	54.2	8.15	-31.4234	25.5508
267	56	R05601E	54.4	8.15	-31.4223	25.5524
268	56	R05601E	54.6	8.15	-31.4212	25.5541
269	56	R05601E	54.8	8.15	-31.4201	25.5558
270	56	R05601E	55	8.15	-31.4190	25.5575
271	56	R05601E	55.2	8.15	-31.4179	25.5591
272	56	R05601E	55.4	8.15	-31.4168	25.5608
273	56	R05601E	55.6	8.15	-31.4157	25.5625
274	56	R05601E	55.8	8.15	-31.4146	25.5643
275	56	R05601E	56	8.15	-31.4135	25.5661
276	56	R05601E	56.2	8.15	-31.4125	25.5675
277	56	R05601E	56.4	8.15	-31.4114	25.5692
278	56	R05601E	56.6	8.15	-31.4103	25.5709
279	56	R05601E	56.8	8.15	-31.4093	25.5726
280	56	R05601E	57	8.15	-31.4081	25.5743
281	56	R05601E	57.2	8.15	-31.4070	25.5759
282	56	R05601E	57.4	8.15	-31.4059	25.5776
283	56	R05601E	57.6	8.15	-31.4048	25.5793
284	56	R05601E	57.8	8.15	-31.4037	25.5810

285	56	R05601E	58	8.15	-31.4026	25.5826
286	56	R05601E	58.2	8.15	-31.4015	25.5843
287	56	R05601E	58.4	8.15	-31.4008	25.5861
288	56	R05601E	58.6	8.15	-31.3998	25.5880
289	56	R05601E	58.8	8.15	-31.3993	25.5902
290	56	R05601E	59	8.15	-31.3987	25.5920
291	56	R05601E	59.2	8.15	-31.3982	25.5940
292	56	R05601E	59.4	8.15	-31.3976	25.5960
293	56	R05601E	59.6	8.15	-31.3971	25.5980
294	56	R05601E	59.8	8.15	-31.3965	25.6001
295	56	R05601E	60	8.15	-31.3960	25.6021
296	56	R05601E	60.2	8.15	-31.3954	25.6041
297	56	R05601E	60.4	8.15	-31.3949	25.6061
298	56	R05601E	60.6	8.15	-31.3943	25.6083
299	56	R05601E	60.8	8.15	-31.3940	25.6101
300	56	R05601E	61	8.15	-31.3939	25.6123
301	56	R05601E	61.2	8.15	-31.3940	25.6143
302	56	R05601E	61.4	8.15	-31.3940	25.6164
303	56	R05601E	61.6	8.15	-31.3941	25.6185
304	56	R05601E	61.8	8.15	-31.3942	25.6206
305	56	R05601E	61.8	7.14	-31.3942	25.6206
306	56	R05601E	62	7.14	-31.3948	25.6227
307	56	R05601E	62.2	7.14	-31.3952	25.6249
308	56	R05601E	62.4	7.14	-31.3955	25.6268
309	56	R05601E	62.6	7.14	-31.3958	25.6289
310	56	R05601E	62.8	7.14	-31.3955	25.6310
311	56	R05601E	63	7.14	-31.3948	25.6329
312	56	R05601E	63.2	7.14	-31.3940	25.6348
313	56	R05601E	63.4	7.14	-31.3933	25.6367

314	56	R05601E	63.6	7.14	-31.3924	25.6386
315	56	R05601E	63.8	7.14	-31.3912	25.6401
316	56	R05601E	64	7.14	-31.3899	25.6417
317	56	R05601E	64.2	7.14	-31.3887	25.6432
318	56	R05601E	64.4	7.14	-31.3877	25.6448
319	56	R05601E	64.6	7.14	-31.3864	25.6465
320	56	R05601E	64.8	7.14	-31.3854	25.6482
321	56	R05601E	65	7.14	-31.3843	25.6499
322	56	R05601E	65.2	7.14	-31.3833	25.6516
323	56	R05601E	65.4	7.14	-31.3823	25.6533
324	56	R05601E	65.6	7.14	-31.3812	25.6553
325	56	R05601E	65.8	7.14	-31.3801	25.6567
326	56	R05601E	66	7.14	-31.3791	25.6585
327	56	R05601E	66.2	7.14	-31.3781	25.6602
328	56	R05601E	66.4	7.14	-31.3774	25.6621
329	56	R05601E	66.6	7.14	-31.3765	25.6640
330	56	R05601E	66.8	7.14	-31.3757	25.6659
331	56	R05601E	67	7.14	-31.3749	25.6678
332	56	R05601E	67.2	7.14	-31.3741	25.6697
333	56	R05601E	67.4	7.14	-31.3735	25.6716
334	56	R05601E	67.6	7.14	-31.3726	25.6735
335	56	R05601E	67.8	7.14	-31.3721	25.6754
336	56	R05601E	68	7.14	-31.3716	25.6775
337	56	R05601E	68.2	7.14	-31.3712	25.6796
338	56	R05601E	68.4	7.14	-31.3709	25.6816
339	56	R05601E	68.6	7.14	-31.3705	25.6837
340	56	R05601E	68.8	7.14	-31.3698	25.6856
341	56	R05601E	69	7.14	-31.3690	25.6876
342	56	R05601E	69.2	7.14	-31.3682	25.6894

343	56	R05601E	69.4	7.14	-31.3674	25.6913
344	56	R05601E	69.6	7.14	-31.3666	25.6932
345	56	R05601E	69.8	7.14	-31.3661	25.6951
346	56	R05601E	70	7.14	-31.3651	25.6970
347	56	R05601E	70.2	7.14	-31.3643	25.6989
348	56	R05601E	70.4	7.14	-31.3635	25.7008
349	56	R05601E	70.6	7.14	-31.3627	25.7027
350	56	R05601E	70.8	7.14	-31.3619	25.7046
351	56	R05601E	71	7.14	-31.3612	25.7065
352	56	R05601E	71.2	7.14	-31.3604	25.7084
353	56	R05601E	71.4	7.14	-31.3596	25.7100
354	56	R05601E	71.6	7.14	-31.3589	25.7122
355	56	R05601E	71.8	7.14	-31.3584	25.7142
356	56	R05601E	72	7.14	-31.3581	25.7163
357	56	R05601E	72.2	7.14	-31.3577	25.7184
358	56	R05601E	72.4	7.14	-31.3574	25.7204
359	56	R05601E	72.6	7.14	-31.3570	25.7223
360	56	R05601E	72.8	7.14	-31.3567	25.7246
361	56	R05601E	73	7.14	-31.3563	25.7266
362	56	R05601E	73.2	7.14	-31.3560	25.7287
363	56	R05601E	73.4	7.14	-31.3556	25.7308
364	56	R05601E	73.6	7.14	-31.3553	25.7328
365	56	R05601E	73.8	7.14	-31.3549	25.7349
366	56	R05601E	74	7.14	-31.3547	25.7370
367	56	R05601E	74.2	7.14	-31.3544	25.7391
368	56	R05601E	74.4	7.14	-31.3541	25.7413
369	56	R05601E	74.6	7.14	-31.3538	25.7432
370	56	R05601E	74.8	7.14	-31.3535	25.7454
371	56	R05601E	75	7.14	-31.3533	25.7474

372	56	R05601E	75.2	7.14	-31.3530	25.7494
373	56	R05601E	75.4	7.14	-31.3527	25.7515
374	56	R05601E	75.6	7.14	-31.3524	25.7536
375	56	R05601E	75.8	7.14	-31.3521	25.7557
376	56	R05601E	76	7.14	-31.3518	25.7578
377	56	R05601E	76.2	7.14	-31.3516	25.7598
378	56	R05601E	76.4	7.14	-31.3513	25.7619
379	56	R05601E	76.6	7.14	-31.3508	25.7641
380	56	R05601E	76.8	7.14	-31.3495	25.7654
381	56	R05601E	77	7.14	-31.3478	25.7662
382	56	R05601E	77.2	7.14	-31.3461	25.7669
383	56	R05601E	77.4	7.14	-31.3446	25.7677
384	56	R05601E	77.6	7.14	-31.3428	25.7684
385	56	R05601E	77.8	7.14	-31.3411	25.7692
386	56	R05601E	78	7.14	-31.3394	25.7700
387	56	R05601E	78.2	7.14	-31.3377	25.7707
388	56	R05601E	78.4	7.14	-31.3360	25.7715
389	56	R05601E	78.6	7.14	-31.3344	25.7723
390	56	R05601E	78.8	7.14	-31.3327	25.7730
391	56	R05601E	79	7.14	-31.3310	25.7737
392	56	R05601E	79.2	7.14	-31.3294	25.7740
393	56	R05601E	79.4	7.14	-31.3274	25.7743
394	56	R05601E	79.6	7.14	-31.3256	25.7746
395	56	R05601E	79.8	7.14	-31.3240	25.7752
396	56	R05601E	80	7.14	-31.3224	25.7766
397	56	R05601E	80.2	7.14	-31.3209	25.7776
398	56	R05601E	80.4	7.14	-31.3195	25.7789
399	56	R05601E	80.6	7.14	-31.3180	25.7801
400	56	R05601E	80.8	7.14	-31.3165	25.7813

401	56	R05601E	81	7.14	-31.3149	25.7822
402	56	R05601E	81.2	7.14	-31.3131	25.7824
403	56	R05601E	81.4	7.14	-31.3113	25.7823
404	56	R05601E	81.6	7.14	-31.3095	25.7821
405	56	R05601E	81.6	6.77	-31.3095	25.7821
406	56	R05601E	81.8	6.77	-31.3077	25.7821
407	56	R05601E	82	6.77	-31.3059	25.7826
408	56	R05601E	82.2	6.77	-31.3042	25.7831
409	56	R05601E	82.4	6.77	-31.3026	25.7841
410	56	R05601E	82.6	6.77	-31.3011	25.7852
411	56	R05601E	82.8	6.77	-31.2995	25.7862
412	56	R05601E	83	6.77	-31.2979	25.7873
413	56	R05601E	83.2	6.77	-31.2968	25.7888
414	56	R05601E	83.4	6.77	-31.2960	25.7907
415	56	R05601E	83.6	6.77	-31.2953	25.7927
416	56	R05601E	83.8	6.77	-31.2945	25.7946
417	56	R05601E	84	6.77	-31.2938	25.7965
418	56	R05601E	84.2	6.77	-31.2931	25.7985
419	56	R05601E	84.4	6.77	-31.2924	25.8004
420	56	R05601E	84.6	6.77	-31.2917	25.8023
421	56	R05601E	84.8	6.77	-31.2911	25.8043
422	56	R05601E	85	6.77	-31.2908	25.8064
423	56	R05601E	85.2	6.77	-31.2905	25.8085
424	56	R05601E	85.4	6.77	-31.2901	25.8105
425	56	R05601E	85.6	6.77	-31.2900	25.8126
426	56	R05601E	85.8	6.77	-31.2908	25.8145
427	56	R05601E	86	6.77	-31.2917	25.8163
428	56	R05601E	86.2	6.77	-31.2931	25.8176
429	56	R05601E	86.4	6.77	-31.2948	25.8183

430	56	R05601E	86.6	6.77	-31.2944	25.8204
431	56	R05601E	86.8	6.77	-31.2940	25.8224
432	56	R05602E	0	9	-31.2937	25.8239
433	56	R05602E	0.2	9	-31.2933	25.8260
434	56	R05602E	0.4	9	-31.2929	25.8280
435	56	R05602E	0.6	9	-31.2925	25.8301
436	56	R05602E	0.8	9	-31.2917	25.8319
437	56	R05602E	1	9	-31.2903	25.8333
438	56	R05602E	1.2	9	-31.2895	25.8351
439	56	R05602E	1.4	9	-31.2892	25.8372
440	56	R05602E	1.6	9	-31.2886	25.8393
441	56	R05602E	1.8	9	-31.2881	25.8412
442	56	R05602E	2	9	-31.2871	25.8429
443	56	R05602E	2.2	9	-31.2863	25.8447
444	56	R05602E	2.4	9	-31.2851	25.8464
445	56	R05602E	2.6	9	-31.2841	25.8482
446	56	R05602E	2.8	9	-31.2831	25.8499
447	56	R05602E	3	9	-31.2821	25.8518
448	56	R05602E	3.2	9	-31.2812	25.8534
449	56	R05602E	3.4	9	-31.2801	25.8552
450	56	R05602E	3.6	9	-31.2791	25.8569
451	56	R05602E	3.8	9	-31.2781	25.8587
452	56	R05602E	4	9	-31.2771	25.8604
453	56	R05602E	4.2	9	-31.2759	25.8621
454	56	R05602E	4.4	9	-31.2744	25.8631
455	56	R05602E	4.6	9	-31.2729	25.8643
456	56	R05602E	4.8	9	-31.2716	25.8658
457	56	R05602E	5	9	-31.2705	25.8675
458	56	R05602E	5.2	9	-31.2698	25.8693

459	56	R05602E	5.4	9	-31.2692	25.8713
460	56	R05602E	5.6	9	-31.2690	25.8734
461	56	R05602E	5.6	7.56	-31.2690	25.8734
462	56	R05602E	5.8	7.56	-31.2687	25.8755
463	56	R05602E	6	7.56	-31.2686	25.8776
464	56	R05602E	6.2	7.56	-31.2684	25.8797
465	56	R05602E	6.4	7.56	-31.2682	25.8818
466	56	R05602E	6.6	7.56	-31.2682	25.8839
467	56	R05602E	6.8	7.56	-31.2679	25.8860
468	56	R05602E	7	7.56	-31.2676	25.8880
469	56	R05602E	7.2	7.56	-31.2672	25.8901
470	56	R05602E	7.4	7.56	-31.2667	25.8921
471	56	R05602E	7.6	7.56	-31.2663	25.8941
472	56	R05602E	7.8	7.56	-31.2658	25.8962
473	56	R05602E	8	7.56	-31.2653	25.8982
474	56	R05602E	8.2	7.56	-31.2649	25.9002
475	56	R05602E	8.4	7.56	-31.2644	25.9023
476	56	R05602E	8.6	7.56	-31.2639	25.9043
477	56	R05602E	8.8	7.56	-31.2635	25.9063
478	56	R05602E	9	7.56	-31.2630	25.9084
479	56	R05602E	9.2	7.56	-31.2626	25.9104
480	56	R05602E	9.4	7.56	-31.2621	25.9124
481	56	R05602E	9.6	7.56	-31.2616	25.9146
482	56	R05602E	9.8	7.56	-31.2612	25.9165
483	56	R05602E	10	7.56	-31.2607	25.9185
484	56	R05602E	10.2	7.56	-31.2602	25.9206
485	56	R05602E	10.4	7.56	-31.2598	25.9226
486	56	R05602E	10.6	7.56	-31.2593	25.9246
487	56	R05602E	10.8	7.56	-31.2588	25.9267

488	56	R05602E	11	7.56	-31.2584	25.9287
489	56	R05602E	11.2	7.56	-31.2579	25.9307
490	56	R05602E	11.4	7.56	-31.2575	25.9327
491	56	R05602E	11.6	7.56	-31.2570	25.9348
492	56	R05602E	11.8	7.56	-31.2565	25.9368
493	56	R05602E	12	7.56	-31.2561	25.9388
494	56	R05602E	12.2	7.56	-31.2556	25.9409
495	56	R05602E	12.4	7.56	-31.2555	25.9429
496	56	R05602E	12.6	7.56	-31.2552	25.9450
497	56	R05602E	12.8	7.56	-31.2554	25.9471
498	56	R05602E	13	7.56	-31.2554	25.9493
499	56	R05602E	13.2	7.56	-31.2556	25.9513
500	56	R05602E	13.4	7.56	-31.2560	25.9534
501	56	R05602E	13.6	7.56	-31.2565	25.9554
502	56	R05602E	13.8	7.56	-31.2571	25.9574
503	56	R05602E	14	7.56	-31.2574	25.9596
504	56	R05602E	14.2	7.56	-31.2579	25.9615
505	56	R05602E	14.4	7.56	-31.2578	25.9636
506	56	R05602E	14.6	7.56	-31.2567	25.9652
507	56	R05602E	14.8	7.56	-31.2556	25.9668
508	56	R05602E	15	7.56	-31.2548	25.9687
509	56	R05602E	15.2	7.56	-31.2534	25.9699
510	56	R05602E	15.4	7.56	-31.2520	25.9712
511	56	R05602E	15.6	7.56	-31.2512	25.9731
512	56	R05602E	15.8	7.56	-31.2515	25.9751
513	56	R05602E	16	7.56	-31.2525	25.9769
514	56	R05602E	16.2	7.56	-31.2534	25.9787
515	56	R05602E	16.4	7.56	-31.2535	25.9808
516	56	R05602E	16.6	7.56	-31.2535	25.9829

517	56	R05602E	16.8	7.56	-31.2535	25.9851
518	56	R05602E	17	7.56	-31.2536	25.9871
519	56	R05602E	17.2	7.56	-31.2536	25.9892
520	56	R05602E	17.4	7.56	-31.2536	25.9913
521	56	R05602E	17.6	7.56	-31.2537	25.9934
522	56	R05602E	17.8	7.56	-31.2536	25.9955
523	56	R05602E	18	7.56	-31.2537	25.9976
524	56	R05602E	18.2	7.56	-31.2537	25.9998
525	56	R05602E	18.4	7.56	-31.2536	26.0018
526	56	R05602E	18.6	7.56	-31.2535	26.0039
527	56	R05602E	18.8	7.56	-31.2534	26.0060
528	56	R05602E	19	7.56	-31.2533	26.0081
529	56	R05602E	19.2	7.56	-31.2532	26.0102
530	56	R05602E	19.4	7.56	-31.2531	26.0123
531	56	R05602E	19.6	7.56	-31.2530	26.0144
532	56	R05602E	19.8	7.56	-31.2529	26.0165
533	56	R05602E	20	7.56	-31.2528	26.0188
534	56	R05602E	20.2	7.56	-31.2527	26.0207
535	56	R05602E	20.4	7.56	-31.2526	26.0228
536	56	R05602E	20.6	7.56	-31.2525	26.0249
537	56	R05602E	20.8	7.56	-31.2525	26.0270
538	56	R05602E	21	7.56	-31.2524	26.0291
539	56	R05602E	21.2	7.56	-31.2523	26.0312
540	56	R05602E	21.4	7.56	-31.2522	26.0333
541	56	R05602E	21.6	7.56	-31.2521	26.0354
542	56	R05602E	21.8	7.56	-31.2520	26.0377
543	56	R05602E	22	7.56	-31.2519	26.0396
544	56	R05602E	22.2	7.56	-31.2518	26.0417
545	56	R05602E	22.4	7.56	-31.2519	26.0438

546	56	R05602E	22.6	7.56	-31.2516	26.0459
547	56	R05602E	22.8	7.56	-31.2515	26.0480
548	56	R05602E	22.8	6.96	-31.2515	26.0480
549	56	R05602E	23	6.96	-31.2515	26.0501
550	56	R05602E	23.2	6.96	-31.2513	26.0522
551	56	R05602E	23.4	6.96	-31.2512	26.0543
552	56	R05602E	23.6	6.96	-31.2513	26.0566
553	56	R05602E	23.8	6.96	-31.2517	26.0585
554	56	R05602E	24	6.96	-31.2523	26.0605
555	56	R05602E	24.2	6.96	-31.2529	26.0624
556	56	R05602E	24.4	6.96	-31.2535	26.0644
557	56	R05602E	24.6	6.96	-31.2541	26.0665
558	56	R05602E	24.8	6.96	-31.2547	26.0684
559	56	R05602E	25	6.96	-31.2553	26.0704
560	56	R05602E	25.2	6.96	-31.2559	26.0723
561	56	R05602E	25.4	6.96	-31.2566	26.0743
562	56	R05602E	25.6	6.96	-31.2572	26.0763
563	56	R05602E	25.8	6.96	-31.2577	26.0783
564	56	R05602E	26	6.96	-31.2582	26.0803
565	56	R05602E	26.2	6.96	-31.2587	26.0824
566	56	R05602E	26.4	6.96	-31.2591	26.0844
567	56	R05602E	26.6	6.96	-31.2596	26.0866
568	56	R05602E	26.8	6.96	-31.2600	26.0884
569	56	R05602E	27	6.96	-31.2605	26.0905
570	56	R05602E	27.2	6.96	-31.2610	26.0926
571	56	R05602E	27.4	6.96	-31.2614	26.0945
572	56	R05602E	27.6	6.96	-31.2619	26.0966
573	56	R05602E	27.8	6.96	-31.2624	26.0986
574	56	R05602E	28	6.96	-31.2628	26.1006

575	56	R05602E	28.2	6.96	-31.2633	26.1027
576	56	R05602E	28.4	6.96	-31.2637	26.1047
577	56	R05602E	28.6	6.96	-31.2642	26.1067
578	56	R05602E	28.8	6.96	-31.2647	26.1088
579	56	R05602E	29	6.96	-31.2650	26.1108
580	56	R05602E	29.2	6.96	-31.2653	26.1129
581	56	R05602E	29.4	6.96	-31.2656	26.1150
582	56	R05602E	29.6	6.96	-31.2659	26.1171
583	56	R05602E	29.8	6.96	-31.2663	26.1191
584	56	R05602E	30	6.96	-31.2665	26.1212
585	56	R05602E	30.2	6.96	-31.2668	26.1233
586	56	R05602E	30.4	6.96	-31.2667	26.1254
587	56	R05602E	30.6	6.96	-31.2672	26.1275
588	56	R05602E	30.8	6.96	-31.2675	26.1295
589	56	R05602E	31	6.96	-31.2678	26.1316
590	56	R05602E	31	7.21	-31.2678	26.1316
591	56	R05602E	31.2	7.21	-31.2680	26.1337
592	56	R05602E	31.4	7.21	-31.2683	26.1358
593	56	R05602E	31.6	7.21	-31.2686	26.1379
594	56	R05602E	31.8	7.21	-31.2688	26.1399
595	56	R05602E	32	7.21	-31.2691	26.1420
596	56	R05602E	32.2	7.21	-31.2695	26.1441
597	56	R05602E	32.4	7.21	-31.2701	26.1461
598	56	R05602E	32.6	7.21	-31.2708	26.1480
599	56	R05602E	32.8	7.21	-31.2718	26.1498
600	56	R05602E	33	7.21	-31.2728	26.1515
601	56	R05602E	33.2	7.21	-31.2738	26.1533
602	56	R05602E	33.4	7.21	-31.2748	26.1550
603	56	R05602E	33.6	7.21	-31.2758	26.1567

604	56	R05602E	33.8	7.21	-31.2768	26.1585
605	56	R05602E	34	7.21	-31.2778	26.1602
606	56	R05602E	34.2	7.21	-31.2788	26.1620
607	56	R05602E	34.4	7.21	-31.2799	26.1637
608	56	R05602E	34.6	7.21	-31.2809	26.1654
609	56	R05602E	34.8	7.21	-31.2819	26.1672
610	56	R05602E	35	7.21	-31.2829	26.1689
611	56	R05602E	35.2	7.21	-31.2839	26.1707
612	56	R05602E	35.4	7.21	-31.2849	26.1724
613	56	R05602E	35.6	7.21	-31.2859	26.1741
614	56	R05602E	35.8	7.21	-31.2870	26.1760
615	56	R05602E	36	7.21	-31.2881	26.1775
616	56	R05602E	36.2	7.21	-31.2894	26.1790
617	56	R05602E	36.4	7.21	-31.2906	26.1805
618	56	R05602E	36.6	7.21	-31.2919	26.1820
619	56	R05602E	36.8	7.21	-31.2932	26.1835
620	56	R05602E	37	7.21	-31.2944	26.1850
621	56	R05602E	37.2	7.21	-31.2957	26.1865
622	56	R05602E	37.4	7.21	-31.2969	26.1881
623	56	R05602E	37.6	7.21	-31.2982	26.1896
624	56	R05602E	37.8	7.21	-31.2996	26.1911
625	56	R05602E	38	7.21	-31.3007	26.1926
626	56	R05602E	38.2	7.21	-31.3020	26.1941
627	56	R05602E	38.4	7.21	-31.3032	26.1958
628	56	R05602E	38.6	7.21	-31.3045	26.1971
629	56	R05602E	38.8	7.21	-31.3058	26.1986
630	56	R05602E	39	7.21	-31.3070	26.2001
631	56	R05602E	39.2	7.21	-31.3083	26.2016
632	56	R05602E	39.4	7.21	-31.3095	26.2031

633	56	R05602E	39.6	7.21	-31.3108	26.2046
634	56	R05602E	39.8	7.21	-31.3121	26.2063
635	56	R05602E	40	7.21	-31.3132	26.2077
636	56	R05602E	40.2	7.21	-31.3142	26.2095
637	56	R05602E	40.4	7.21	-31.3150	26.2114
638	56	R05602E	40.6	7.21	-31.3157	26.2133
639	56	R05602E	40.8	7.21	-31.3164	26.2153
640	56	R05602E	41	7.21	-31.3170	26.2175
641	56	R05602E	41.2	7.21	-31.3177	26.2192
642	56	R05602E	41.4	7.21	-31.3183	26.2212
643	56	R05602E	41.6	7.21	-31.3190	26.2231
644	56	R05602E	41.8	7.21	-31.3198	26.2251
645	56	R05602E	42	7.21	-31.3208	26.2267
646	56	R05602E	42.2	7.21	-31.3220	26.2283
647	56	R05602E	42.4	7.21	-31.3232	26.2298
648	56	R05602E	42.4	6.81	-31.3232	26.2298
649	56	R05602E	42.6	6.81	-31.3247	26.2314
650	56	R05602E	42.8	6.81	-31.3257	26.2329
651	56	R05602E	43	6.81	-31.3269	26.2344
652	56	R05602E	43.2	6.81	-31.3282	26.2360
653	56	R05602E	43.4	6.81	-31.3294	26.2375
654	56	R05602E	43.6	6.81	-31.3307	26.2390
655	56	R05602E	43.8	6.81	-31.3319	26.2406
656	56	R05602E	44	6.81	-31.3331	26.2421
657	56	R05602E	44.2	6.81	-31.3344	26.2438
658	56	R05602E	44.4	6.81	-31.3355	26.2453
659	56	R05602E	44.6	6.81	-31.3365	26.2470
660	56	R05602E	44.8	6.81	-31.3374	26.2489
661	56	R05602E	45	6.81	-31.3382	26.2507

662	56	R05602E	45.2	6.81	-31.3390	26.2526
663	56	R05602E	45.4	6.81	-31.3398	26.2545
664	56	R05602E	45.6	6.81	-31.3407	26.2565
665	56	R05602E	45.8	6.81	-31.3414	26.2583
666	56	R05602E	46	6.81	-31.3422	26.2602
667	56	R05602E	46.2	6.81	-31.3430	26.2621
668	56	R05602E	46.4	6.81	-31.3438	26.2640
669	56	R05602E	46.6	6.81	-31.3446	26.2659
670	56	R05602E	46.8	6.81	-31.3454	26.2677
671	56	R05602E	47	6.81	-31.3465	26.2694
672	56	R05602E	47.2	6.81	-31.3477	26.2709
673	56	R05602E	47.4	6.81	-31.3491	26.2723
674	56	R05602E	47.4	7.18	-31.3491	26.2723
675	56	R05602E	47.6	7.18	-31.3505	26.2736
676	56	R05602E	47.8	7.18	-31.3519	26.2749
677	56	R05602E	48	7.18	-31.3535	26.2762
678	56	R05602E	48.2	7.18	-31.3548	26.2775
679	56	R05602E	48.4	7.18	-31.3561	26.2789
680	56	R05602E	48.6	7.18	-31.3573	26.2805
681	56	R05602E	48.8	7.18	-31.3582	26.2823
682	56	R05602E	49	7.18	-31.3591	26.2842
683	56	R05602E	49.2	7.18	-31.3596	26.2862
684	56	R05602E	49.4	7.18	-31.3605	26.2881
685	56	R05602E	49.6	7.18	-31.3610	26.2900
686	56	R05602E	49.8	7.18	-31.3617	26.2920
687	56	R05602E	50	7.18	-31.3624	26.2939
688	56	R05602E	50.2	7.18	-31.3631	26.2959
689	56	R05602E	50.4	7.18	-31.3639	26.2978
690	56	R05602E	50.6	7.18	-31.3649	26.2997

691	56	R05602E	50.8	7.18	-31.3662	26.3010
692	56	R05602E	51	7.18	-31.3674	26.3025
693	56	R05602E	51.2	7.18	-31.3687	26.3040
694	56	R05602E	51.4	7.18	-31.3700	26.3055
695	56	R05602E	51.6	7.18	-31.3713	26.3071
696	56	R05602E	51.8	7.18	-31.3725	26.3085
697	56	R05602E	52	7.18	-31.3738	26.3099
698	56	R05602E	52.2	7.18	-31.3751	26.3114
699	56	R05602E	52.4	7.18	-31.3763	26.3130
700	56	R05602E	52.6	7.18	-31.3774	26.3147
701	56	R05602E	52.8	7.18	-31.3783	26.3165
702	56	R05602E	53	7.18	-31.3791	26.3184
703	56	R05602E	53.2	7.18	-31.3796	26.3204
704	56	R05602E	53.4	7.18	-31.3801	26.3224
705	56	R05602E	53.6	7.18	-31.3806	26.3246
706	56	R05602E	53.8	7.18	-31.3810	26.3265
707	56	R05602E	54	7.18	-31.3815	26.3285
708	56	R05602E	54.2	7.18	-31.3820	26.3306
709	56	R05602E	54.4	7.18	-31.3824	26.3326
710	56	R05602E	54.6	7.18	-31.3829	26.3346
711	56	R05602E	54.8	7.18	-31.3835	26.3367
712	56	R05602E	55	7.18	-31.3838	26.3387
713	56	R05602E	55.2	7.18	-31.3843	26.3407
714	56	R05602E	55.4	7.18	-31.3848	26.3428
715	56	R05602E	55.6	7.18	-31.3852	26.3448
716	56	R05602E	55.8	7.18	-31.3860	26.3467
717	56	R05602E	56	7.18	-31.3870	26.3485
718	56	R05602E	56.2	7.18	-31.3882	26.3500
719	56	R05602E	56.4	7.18	-31.3894	26.3515

720	56	R05602E	56.6	7.18	-31.3907	26.3531
721	56	R05602E	56.8	7.18	-31.3920	26.3546
722	56	R05602E	57	7.18	-31.3932	26.3561
723	56	R05602E	57.2	7.18	-31.3945	26.3576
724	56	R05602E	57.4	7.18	-31.3957	26.3591
725	56	R05602E	57.6	7.18	-31.3972	26.3606
726	56	R05602E	57.8	7.18	-31.3962	26.3622
727	56	R05603E	0	8	-31.3957	26.3629
728	56	R05603E	0.2	8	-31.3969	26.3643
729	56	R05603E	0.4	8	-31.3982	26.3658
730	56	R05603E	0.6	8	-31.3994	26.3674
731	56	R05603E	0.8	8	-31.4007	26.3689
732	56	R05603E	1	8	-31.4019	26.3704
733	56	R05603E	1.2	8	-31.4032	26.3719
734	56	R05603E	1.4	8	-31.4044	26.3735
735	56	R05603E	1.6	8	-31.4052	26.3754
736	56	R05603E	1.8	8	-31.4053	26.3774
737	56	R05603E	2	8	-31.4055	26.3795
738	56	R05603E	2.2	8	-31.4059	26.3815
739	56	R05603E	2.4	8	-31.4071	26.3831
740	56	R05603E	2.6	8	-31.4085	26.3844
741	56	R05603E	2.8	8	-31.4099	26.3857
742	56	R05603E	3	8	-31.4113	26.3872
743	56	R05603E	3.2	8	-31.4128	26.3883
744	56	R05603E	3.4	8	-31.4142	26.3895
745	56	R05603E	3.6	8	-31.4156	26.3906
746	56	R05603E	3.8	8	-31.4171	26.3921
747	56	R05603E	4	8	-31.4185	26.3934
748	56	R05603E	4.2	8	-31.4199	26.3947

749	56	R05603E	4.4	8	-31.4213	26.3960
750	56	R05603E	4.6	8	-31.4224	26.3977
751	56	R05603E	4.8	8	-31.4233	26.3995
752	56	R05603E	4.8	8.93	-31.4233	26.3995
753	56	R05603E	5	8.93	-31.4243	26.4014
754	56	R05603E	5.2	8.93	-31.4248	26.4033
755	56	R05603E	5.4	8.93	-31.4248	26.4054
756	56	R05603E	5.6	8.93	-31.4243	26.4074
757	56	R05603E	5.8	8.93	-31.4233	26.4091
758	56	R05603E	6	8.93	-31.4221	26.4108
759	56	R05603E	6.2	8.93	-31.4210	26.4125
760	56	R05603E	6.4	8.93	-31.4199	26.4141
761	56	R05603E	6.6	8.93	-31.4188	26.4158
762	56	R05603E	6.8	8.93	-31.4177	26.4175
763	56	R05603E	7	8.93	-31.4166	26.4191
764	56	R05603E	7.2	8.93	-31.4155	26.4208
765	56	R05603E	7.4	8.93	-31.4144	26.4225
766	56	R05603E	7.6	8.93	-31.4133	26.4241
767	56	R05603E	7.8	8.93	-31.4122	26.4258
768	56	R05603E	8	8.93	-31.4111	26.4275
769	56	R05603E	8.2	8.93	-31.4101	26.4291
770	56	R05603E	8.4	8.93	-31.4090	26.4308
771	56	R05603E	8.6	8.93	-31.4080	26.4325
772	56	R05603E	8.8	8.93	-31.4067	26.4341
773	56	R05603E	9	8.93	-31.4058	26.4359
774	56	R05603E	9.2	8.93	-31.4053	26.4380
775	56	R05603E	9.4	8.93	-31.4055	26.4400
776	56	R05603E	9.6	8.93	-31.4062	26.4420
777	56	R05603E	9.8	8.93	-31.4071	26.4438

778	56	R05603E	10	8.93	-31.4079	26.4457
779	56	R05603E	10.2	8.93	-31.4087	26.4476
780	56	R05603E	10.4	8.93	-31.4094	26.4495
781	56	R05603E	10.6	8.93	-31.4098	26.4516
782	56	R05603E	10.8	8.93	-31.4098	26.4537
783	56	R05603E	11	8.93	-31.4098	26.4558
784	56	R05603E	11.2	8.93	-31.4094	26.4578
785	56	R05603E	11.4	8.93	-31.4085	26.4596
786	56	R05603E	11.6	8.93	-31.4075	26.4614
787	56	R05603E	11.8	8.93	-31.4064	26.4631
788	56	R05603E	12	8.93	-31.4056	26.4650
789	56	R05603E	12.2	8.93	-31.4052	26.4670
790	56	R05603E	12.4	8.93	-31.4051	26.4691
791	56	R05603E	12.6	8.93	-31.4052	26.4712
792	56	R05603E	12.8	8.93	-31.4052	26.4733
793	56	R05603E	13	8.93	-31.4053	26.4754
794	56	R05603E	13.2	8.93	-31.4054	26.4777
795	56	R05603E	13.4	8.93	-31.4055	26.4796
796	56	R05603E	13.6	8.93	-31.4055	26.4817
797	56	R05603E	13.8	8.93	-31.4056	26.4838
798	56	R05603E	14	8.93	-31.4057	26.4859
799	56	R05603E	14	9.12	-31.4057	26.4859
800	56	R05603E	14.2	9.12	-31.4057	26.4880
801	56	R05603E	14.4	9.12	-31.4058	26.4901
802	56	R05603E	14.6	9.12	-31.4059	26.4923
803	56	R05603E	14.8	9.12	-31.4059	26.4944
804	56	R05603E	15	9.12	-31.4060	26.4965
805	56	R05603E	15.2	9.12	-31.4061	26.4986
806	56	R05603E	15.4	9.12	-31.4062	26.5007

807	56	R05603E	15.6	9.12	-31.4062	26.5028
808	56	R05603E	15.8	9.12	-31.4063	26.5049
809	56	R05603E	16	9.12	-31.4064	26.5070
810	56	R05603E	16.2	9.12	-31.4064	26.5091
811	56	R05603E	16.4	9.12	-31.4065	26.5112
812	56	R05603E	16.6	9.12	-31.4066	26.5133
813	56	R05603E	16.8	9.12	-31.4066	26.5154
814	56	R05603E	17	9.12	-31.4067	26.5173
815	56	R05603E	17.2	9.12	-31.4068	26.5196
816	56	R05603E	17.4	9.12	-31.4068	26.5217
817	56	R05603E	17.6	9.12	-31.4069	26.5238
818	56	R05603E	17.8	9.12	-31.4070	26.5259
819	56	R05603E	18	9.12	-31.4071	26.5280
820	56	R05603E	18.2	9.12	-31.4071	26.5301
821	56	R05603E	18.4	9.12	-31.4072	26.5323
822	56	R05603E	18.6	9.12	-31.4073	26.5343
823	56	R05603E	18.8	9.12	-31.4073	26.5364
824	56	R05603E	19	9.12	-31.4074	26.5385
825	56	R05603E	19.2	9.12	-31.4075	26.5406
826	56	R05603E	19.4	9.12	-31.4075	26.5428
827	56	R05603E	19.6	9.12	-31.4076	26.5449
828	56	R05603E	19.8	9.12	-31.4077	26.5471
829	56	R05603E	20	9.12	-31.4077	26.5491
830	56	R05603E	20.2	9.12	-31.4078	26.5512
831	56	R05603E	20.4	9.12	-31.4078	26.5533
832	56	R05603E	20.6	9.12	-31.4075	26.5553
833	56	R05603E	20.8	9.12	-31.4072	26.5574
834	56	R05603E	21	9.12	-31.4068	26.5595
835	56	R05603E	21.2	9.12	-31.4065	26.5615

836	56	R05603E	21.4	9.12	-31.4058	26.5635
837	56	R05603E	21.6	9.12	-31.4048	26.5652
838	56	R05603E	21.8	9.12	-31.4036	26.5669
839	56	R05603E	22	9.12	-31.4027	26.5687
840	56	R05603E	22.2	9.12	-31.4022	26.5707
841	56	R05603E	22.4	9.12	-31.4021	26.5730
842	56	R05603E	22.6	9.12	-31.4020	26.5749
843	56	R05603E	22.8	9.12	-31.4020	26.5770
844	56	R05603E	23	9.12	-31.4020	26.5791
845	56	R05603E	23.2	9.12	-31.4020	26.5812
846	56	R05603E	23.4	9.12	-31.4020	26.5833
847	56	R05603E	23.6	9.12	-31.4020	26.5854
848	56	R05603E	23.8	9.12	-31.4021	26.5875
849	56	R05603E	24	9.12	-31.4018	26.5896
850	56	R05603E	24.2	9.12	-31.4014	26.5918
851	56	R05603E	24.4	9.12	-31.4008	26.5937
852	56	R05603E	24.6	9.12	-31.4002	26.5957
853	56	R05603E	24.8	9.12	-31.3997	26.5977
854	56	R05603E	25	9.12	-31.3991	26.5997
855	56	R05603E	25.2	9.12	-31.3985	26.6014
856	56	R05603E	25.4	9.12	-31.3980	26.6037
857	56	R05603E	25.6	9.12	-31.3974	26.6057
858	56	R05603E	25.8	9.12	-31.3968	26.6077
859	56	R05603E	26	9.12	-31.3963	26.6097
860	56	R05603E	26.2	9.12	-31.3957	26.6116
861	56	R05603E	26.4	9.12	-31.3951	26.6136
862	56	R05603E	26.6	9.12	-31.3946	26.6156
863	56	R05603E	26.8	9.12	-31.3940	26.6176
864	56	R05603E	27	9.12	-31.3934	26.6196

865	56	R05603E	27.2	9.12	-31.3929	26.6216
866	56	R05603E	27.4	9.12	-31.3924	26.6237
867	56	R05603E	27.6	9.12	-31.3921	26.6258
868	56	R05603E	27.8	9.12	-31.3918	26.6278
869	56	R05603E	28	9.12	-31.3914	26.6299
870	56	R05603E	28.2	9.12	-31.3911	26.6322
871	56	R05603E	28.4	9.12	-31.3908	26.6340
872	56	R05603E	28.6	9.12	-31.3905	26.6361
873	56	R05603E	28.8	9.12	-31.3901	26.6382
874	56	R05603E	29	9.12	-31.3898	26.6403
875	56	R05603E	29.2	9.12	-31.3895	26.6423
876	56	R05603E	29.4	9.12	-31.3893	26.6444
877	56	R05603E	29.6	9.12	-31.3888	26.6465
878	56	R05603E	29.8	9.12	-31.3885	26.6485
879	56	R05603E	30	9.12	-31.3882	26.6506
880	56	R05603E	30.2	9.12	-31.3879	26.6527
881	56	R05603E	30.4	9.12	-31.3875	26.6550
882	56	R05603E	30.6	9.12	-31.3873	26.6568
883	56	R05603E	30.8	9.12	-31.3869	26.6586
884	56	R05603E	31	9.12	-31.3866	26.6610
885	56	R05603E	31.2	9.12	-31.3863	26.6630
886	56	R05603E	31.4	9.12	-31.3859	26.6651
887	56	R05603E	31.6	9.12	-31.3856	26.6672
888	56	R05603E	31.8	9.12	-31.3853	26.6692
889	56	R05603E	32	9.12	-31.3849	26.6713
890	56	R05603E	32.2	9.12	-31.3846	26.6734
891	56	R05603E	32.4	9.12	-31.3843	26.6755
892	56	R05603E	32.6	9.12	-31.3840	26.6775
893	56	R05603E	32.8	9.12	-31.3837	26.6796

894	56	R05603E	33	9.12	-31.3833	26.6817
895	56	R05603E	33.2	9.12	-31.3830	26.6837
896	56	R05603E	33.4	9.12	-31.3827	26.6858
897	56	R05603E	33.6	9.12	-31.3823	26.6879
898	56	R05603E	33.8	9.12	-31.3820	26.6900
899	56	R05603E	34	9.12	-31.3817	26.6920
900	56	R05603E	34.2	9.12	-31.3814	26.6941
901	56	R05603E	34.4	9.12	-31.3810	26.6962
902	56	R05603E	34.6	9.12	-31.3807	26.6982
903	56	R05603E	34.8	9.12	-31.3804	26.7003
904	56	R05603E	35	9.12	-31.3801	26.7024
905	56	R05604E	0	7	-31.3798	26.7028
906	56	R05604E	0.2	7	-31.3797	26.7049
907	56	R05604E	0.4	7	-31.3793	26.7069
908	56	R05604E	0.6	7	-31.3786	26.7088
909	56	R05604E	0.8	7	-31.3774	26.7104
910	56	R05604E	1	7	-31.3762	26.7119
911	56	R05604E	1.2	7	-31.3749	26.7135
912	56	R05604E	1.4	7	-31.3741	26.7152
913	56	R05604E	1.6	7	-31.3736	26.7173
914	56	R05604E	1.8	7	-31.3737	26.7193
915	56	R05604E	2	7	-31.3738	26.7214
916	56	R05604E	2.2	7	-31.3738	26.7235
917	56	R05604E	2.4	7	-31.3738	26.7256
918	56	R05604E	2.6	7	-31.3735	26.7277
919	56	R05604E	2.8	7	-31.3729	26.7298
920	56	R05604E	3	7	-31.3724	26.7317
921	56	R05604E	3.2	7	-31.3719	26.7337
922	56	R05604E	3.4	7	-31.3713	26.7358

923	56	R05604E	3.6	7	-31.3708	26.7378
924	56	R05604E	3.8	7	-31.3702	26.7398
925	56	R05604E	4	7	-31.3697	26.7418
926	56	R05604E	4.2	7	-31.3691	26.7438
927	56	R05604E	4.4	7	-31.3686	26.7458
928	56	R05604E	4.6	7	-31.3680	26.7479
929	56	R05604E	4.8	7	-31.3675	26.7498
930	56	R05604E	5	7	-31.3670	26.7518
931	56	R05604E	5.2	7	-31.3666	26.7538
932	56	R05604E	5.4	7	-31.3659	26.7558
933	56	R05604E	5.6	7	-31.3653	26.7578
934	56	R05604E	5.8	7	-31.3648	26.7598
935	56	R05604E	6	7	-31.3642	26.7618
936	56	R05604E	6.2	7	-31.3637	26.7639
937	56	R05604E	6.4	7	-31.3631	26.7661
938	56	R05604E	6.6	7	-31.3626	26.7679
939	56	R05604E	6.8	7	-31.3621	26.7699
940	56	R05604E	7	7	-31.3615	26.7719
941	56	R05604E	7.2	7	-31.3610	26.7739
942	56	R05604E	7.4	7	-31.3604	26.7759
943	56	R05604E	7.6	7	-31.3599	26.7779
944	56	R05604E	7.8	7	-31.3593	26.7799
945	56	R05604E	8	7	-31.3588	26.7819
946	56	R05604E	8.2	7	-31.3581	26.7838
947	56	R05604E	8.4	7	-31.3571	26.7856
948	56	R05604E	8.6	7	-31.3561	26.7871
949	56	R05604E	8.8	7	-31.3544	26.7884
950	56	R05604E	9	7	-31.3529	26.7897
951	56	R05604E	9.2	7	-31.3513	26.7905

952	56	R05604E	9.4	7	-31.3497	26.7915
953	56	R05604E	9.6	7	-31.3481	26.7925
954	56	R05604E	9.8	7	-31.3465	26.7935
955	56	R05604E	10	7	-31.3450	26.7946
956	56	R05604E	10.2	7	-31.3438	26.7961
957	56	R05604E	10.4	7	-31.3430	26.7980
958	56	R05604E	10.6	7	-31.3424	26.8000
959	56	R05604E	10.8	7	-31.3417	26.8020
960	56	R05604E	11	7	-31.3413	26.8040
961	56	R05604E	11.2	7	-31.3413	26.8061
962	56	R05604E	11.4	7	-31.3412	26.8082
963	56	R05604E	11.6	7	-31.3416	26.8102
964	56	R05604E	11.8	7	-31.3422	26.8123
965	56	R05604E	12	7	-31.3428	26.8142
966	56	R05604E	12.2	7	-31.3433	26.8162
967	56	R05604E	12.4	7	-31.3439	26.8182
968	56	R05604E	12.6	7	-31.3446	26.8202
969	56	R05604E	12.8	7	-31.3453	26.8222
970	56	R05604E	13	7	-31.3456	26.8242
971	56	R05604E	13.2	7	-31.3462	26.8262
972	56	R05604E	13.4	7	-31.3467	26.8282
973	56	R05604E	13.6	7	-31.3473	26.8302
974	56	R05604E	13.8	7	-31.3479	26.8322
975	56	R05604E	14	7	-31.3484	26.8342
976	56	R05604E	14.2	7	-31.3490	26.8362
977	56	R05604E	14.4	7	-31.3496	26.8382
978	56	R05604E	14.6	7	-31.3502	26.8402
979	56	R05604E	14.8	7	-31.3507	26.8422
980	56	R05604E	15	7	-31.3513	26.8444

981	56	R05604E	15.2	7	-31.3519	26.8462
982	56	R05604E	15.4	7	-31.3524	26.8482
983	56	R05604E	15.6	7	-31.3530	26.8502
984	56	R05604E	15.8	7	-31.3536	26.8522
985	56	R05604E	16	7	-31.3540	26.8542
986	56	R05604E	16.2	7	-31.3543	26.8563
987	56	R05604E	16.2	3.83	-31.3543	26.8563
988	56	R05604E	16.4	3.83	-31.3544	26.8584
989	56	R05604E	16.6	3.83	-31.3545	26.8605
990	56	R05604E	16.8	3.83	-31.3546	26.8626
991	56	R05604E	17	3.83	-31.3547	26.8647
992	56	R05604E	17.2	3.83	-31.3548	26.8668
993	56	R05604E	17.4	3.83	-31.3549	26.8690
994	56	R05604E	17.6	3.83	-31.3550	26.8710
995	56	R05604E	17.8	3.83	-31.3551	26.8731
996	56	R05604E	18	3.83	-31.3552	26.8752
997	56	R05604E	18.2	3.83	-31.3553	26.8773
998	56	R05604E	18.4	3.83	-31.3554	26.8794
999	56	R05604E	18.6	3.83	-31.3555	26.8815
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1001	56	R05604E	19	3.83	-31.3545	26.8856
1002	56	R05604E	19.2	3.83	-31.3548	26.8877
1003	56	R05604E	19.4	3.83	-31.3558	26.8894
1004	56	R05604E	19.6	3.83	-31.3572	26.8908
1005	56	R05604E	19.8	3.83	-31.3585	26.8925
1006	56	R05604E	20	3.83	-31.3595	26.8940
1007	56	R05604E	20.2	3.83	-31.3603	26.8959
1008	56	R05604E	20.4	3.83	-31.3611	26.8978
1009	56	R05604E	20.6	3.83	-31.3619	26.8997

1010	56	R05604E	20.8	3.83	-31.3626	26.9016
1011	56	R05604E	21	3.83	-31.3633	26.9035
1012	56	R05604E	21.2	3.83	-31.3640	26.9055
1013	56	R05604E	21.4	3.83	-31.3643	26.9075
1014	56	R05604E	21.6	3.83	-31.3649	26.9096
1015	56	R05604E	21.8	3.83	-31.3651	26.9116
1016	56	R05604E	22	3.83	-31.3655	26.9137
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1018	56	R05604E	22.4	3.83	-31.3656	26.9179
1019	56	R05604E	22.6	3.83	-31.3655	26.9200
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1026	56	R05604E	24	3.83	-31.3643	26.9347
1027	56	R05604E	24.2	3.83	-31.3642	26.9368
1028	56	R05604E	24.4	3.83	-31.3639	26.9389
1029	56	R05604E	24.6	3.83	-31.3643	26.9410
1030	56	R05604E	24.8	3.83	-31.3646	26.9430
1031	56	R05604E	25	3.83	-31.3648	26.9451
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1034	56	R05604E	25.6	3.83	-31.3656	26.9514
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1036	56	R05604E	25.8	3.95	-31.3659	26.9534
1037	56	R05604E	26	3.95	-31.3662	26.9555
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1039	56	R05604E	26.4	3.95	-31.3668	26.9597
1040	56	R05604E	26.6	3.95	-31.3669	26.9618
1041	56	R05604E	26.8	3.95	-31.3672	26.9639
1042	56	R05604E	27	3.95	-31.3675	26.9659
1043	56	R05604E	27.2	3.95	-31.3677	26.9680
1044	56	R05604E	27.4	3.95	-31.3680	26.9701
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1056	56	R05604E	29.8	3.95	-31.3712	26.9951
1057	56	R05604E	30	3.95	-31.3716	26.9972
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1059	56	R05604E	30.4	3.95	-31.3712	27.0014
1060	56	R05604E	30.6	3.95	-31.3706	27.0036
1061	56	R05604E	30.8	3.95	-31.3698	27.0052
1062	56	R05604E	31	3.95	-31.3690	27.0071
1063	56	R05604E	31.2	3.95	-31.3682	27.0090
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1065	56	R05604E	31.4	3.99	-31.3674	27.0109
1066	56	R05604E	31.6	3.99	-31.3665	27.0127
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1068	56	R05604E	32	3.99	-31.3650	27.0165
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1073	56	R05604E	33	3.99	-31.3670	27.0266
1074	56	R05604E	33.2	3.99	-31.3677	27.0285
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1078	56	R05604E	34	3.99	-31.3713	27.0357
1079	56	R05604E	34.2	3.99	-31.3726	27.0371
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1083	56	R05604E	35	3.99	-31.3769	27.0435
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1085	56	R05605E	0	8	-31.3775	27.0471
1086	56	R05605E	0.2	8	-31.3757	27.0476
1087	56	R05605E	0.4	8	-31.3740	27.0481
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1089	56	R05605E	0.8	8	-31.3705	27.0490
1090	56	R05605E	1	8	-31.3687	27.0495
1091	56	R05605E	1.2	8	-31.3669	27.0499
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1093	56	R05605E	1.6	8	-31.3634	27.0508
1094	56	R05605E	1.8	8	-31.3617	27.0513
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1097	56	R05605E	2.4	8	-31.3574	27.0551
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1099	56	R05605E	2.8	8	-31.3550	27.0582
1100	56	R05605E	2.8	3.99	-31.3550	27.0582
1101	56	R05605E	3	3.99	-31.3538	27.0598
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1103	56	R05605E	3.4	3.99	-31.3515	27.0633
1104	56	R05605E	3.6	3.99	-31.3508	27.0651
1105	56	R05605E	3.8	3.99	-31.3505	27.0671
1106	56	R05605E	4	3.99	-31.3502	27.0692
1107	56	R05605E	4.2	3.99	-31.3500	27.0712
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1110	56	R05605E	4.8	3.99	-31.3492	27.0775
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1116	56	R05605E	6	3.99	-31.3528	27.0890
1117	56	R05605E	6.2	3.99	-31.3537	27.0908
1118	56	R05605E	6.4	3.99	-31.3547	27.0926
1119	56	R05605E	6.6	3.99	-31.3556	27.0943
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1123	56	R05605E	7.4	3.99	-31.3595	27.1015
1124	56	R05605E	7.6	3.99	-31.3605	27.1032
1125	56	R05605E	7.8	3.99	-31.3614	27.1050

1126	56	R05605E	8	3.99	-31.3624	27.1068
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1135	56	R05605E	9.8	3.99	-31.3730	27.1212
1136	56	R05605E	10	3.99	-31.3742	27.1227
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1141	56	R05605E	11	3.99	-31.3802	27.1306
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1156	56	R05605E	14	3.99	-31.3963	27.1557
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1161	56	R05605E	15	3.99	-31.4007	27.1650
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1163	56	R05605E	15.2	3.78	-31.4016	27.1668
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1165	56	R05605E	15.6	3.78	-31.4033	27.1705
1166	56	R05605E	15.8	3.78	-31.4039	27.1725
1167	56	R05605E	16	3.78	-31.4039	27.1745
1168	56	R05605E	16.2	3.78	-31.4041	27.1766
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1170	56	R05605E	16.6	3.78	-31.4038	27.1809
1171	56	R05605E	16.8	3.78	-31.4037	27.1829
1172	56	R05605E	17	3.78	-31.4037	27.1850
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1174	56	R05605E	17.4	3.78	-31.4034	27.1892
1175	56	R05605E	17.6	3.78	-31.4033	27.1913
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1177	56	R05605E	18	3.78	-31.4030	27.1955
1178	56	R05605E	18.2	3.78	-31.4029	27.1976
1179	56	R05605E	18.4	3.78	-31.4030	27.2000
1180	56	R05605E	18.6	3.78	-31.4027	27.2018
1181	56	R05605E	18.8	3.78	-31.4026	27.2039
1182	56	R05605E	19	3.78	-31.4024	27.2060
1183	56	R05605E	19.2	3.78	-31.4023	27.2081

1184	56	R05605E	19.4	3.78	-31.4022	27.2102
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1187	56	R05605E	20	3.78	-31.4019	27.2166
1188	56	R05605E	20.2	3.78	-31.4017	27.2187
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1190	56	R05605E	20.6	3.78	-31.4015	27.2229
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1192	56	R05605E	21	3.78	-31.4013	27.2271
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1202	56	R05605E	23	3.78	-31.3987	27.2478
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1205	56	R05605E	23.6	3.78	-31.3973	27.2539
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1207	56	R05605E	24	3.78	-31.3965	27.2580
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1210	56	R05605E	24.6	3.78	-31.3977	27.2641
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1212	56	R05605E	25	3.78	-31.3995	27.2677

1213	56	R05605E	25.2	3.78	-31.4004	27.2695
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1216	56	R05605E	25.8	3.78	-31.4021	27.2755
1217	56	R05605E	26	3.78	-31.4022	27.2776
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1221	56	R05605E	26.6	3.74	-31.4023	27.2839
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1223	56	R05605E	27	3.74	-31.4026	27.2880
1224	56	R05605E	27.2	3.74	-31.4033	27.2900
1225	56	R05605E	27.4	3.74	-31.4043	27.2917
1226	56	R05605E	27.6	3.74	-31.4056	27.2931
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1228	56	R05605E	28	3.74	-31.4089	27.2949
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1232	56	R05605E	28.8	3.74	-31.4158	27.2973
1233	56	R05605E	29	3.74	-31.4177	27.2980
1234	56	R05605E	29.2	3.74	-31.4192	27.2987
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1239	56	R05605E	30.2	3.74	-31.4277	27.3021
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1243	56	R05605E	31	3.74	-31.4334	27.3071
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1245	56	R05605E	31.4	3.74	-31.4359	27.3101
1246	56	R05605E	31.6	3.74	-31.4376	27.3107
1247	56	R05605E	31.8	3.74	-31.4393	27.3106
1248	56	R05605E	32	3.74	-31.4413	27.3102
1249	56	R05605E	32.2	3.74	-31.4429	27.3099
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1251	56	R05605E	32.6	3.74	-31.4465	27.3097
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1254	56	R05605E	33.2	3.74	-31.4503	27.3137
1255	56	R05605E	33.4	3.74	-31.4511	27.3157
1256	56	R05605E	33.6	3.74	-31.4514	27.3177
1257	56	R05605E	33.8	3.74	-31.4523	27.3196
1258	56	R05605E	34	3.74	-31.4535	27.3211
1259	56	R05605E	34.2	3.74	-31.4550	27.3223
1260	56	R05605E	34.4	3.74	-31.4565	27.3234
1261	56	R05605E	34.6	3.74	-31.4581	27.3245
1262	56	R05605E	34.8	3.74	-31.4594	27.3259
1263	56	R05605E	35	3.74	-31.4604	27.3278
1264	56	R05605E	35.2	3.74	-31.4608	27.3298
1265	56	R05605E	35.4	3.74	-31.4612	27.3318
1266	56	R05605E	35.6	3.74	-31.4618	27.3338
1267	56	R05605E	35.8	3.74	-31.4629	27.3355
1268	56	R05605E	36	3.74	-31.4644	27.3366
1269	56	R05605E	36.2	3.74	-31.4659	27.3378
1270	56	R05605E	36.4	3.74	-31.4674	27.3389

1271	56	R05605E	36.6	3.74	-31.4689	27.3403
1272	56	R05606E	0	7	-31.4695	27.3404
1273	56	R05606E	0.2	7	-31.4710	27.3416
1274	56	R05606E	0.4	7	-31.4726	27.3427
1275	56	R05606E	0.6	7	-31.4740	27.3439
1276	56	R05606E	0.8	7	-31.4751	27.3456
1277	56	R05606E	1	7	-31.4758	27.3476
1278	56	R05606E	1.2	7	-31.4766	27.3495
1279	56	R05606E	1.4	7	-31.4770	27.3515
1280	56	R05606E	1.6	7	-31.4776	27.3535
1281	56	R05606E	1.8	7	-31.4776	27.3556
1282	56	R05606E	2	7	-31.4769	27.3576
1283	56	R05606E	2.2	7	-31.4757	27.3594
1284	56	R05606E	2.4	7	-31.4744	27.3606
1285	56	R05606E	2.6	7	-31.4730	27.3620
1286	56	R05606E	2.8	7	-31.4719	27.3634
1287	56	R05606E	3	7	-31.4704	27.3648
1288	56	R05606E	3.2	7	-31.4690	27.3662
1289	56	R05606E	3.4	7	-31.4677	27.3676
1290	56	R05606E	3.6	7	-31.4663	27.3690
1291	56	R05606E	3.8	7	-31.4650	27.3705
1292	56	R05606E	4	7	-31.4636	27.3718
1293	56	R05606E	4.2	7	-31.4620	27.3728
1294	56	R05606E	4.4	7	-31.4602	27.3730
1295	56	R05606E	4.6	7	-31.4584	27.3727
1296	56	R05606E	4.8	7	-31.4566	27.3727
1297	56	R05606E	5	7	-31.4549	27.3733
1298	56	R05606E	5.2	7	-31.4533	27.3743
1299	56	R05606E	5.4	7	-31.4516	27.3750

1300	56	R05606E	5.6	7	-31.4499	27.3756
1301	56	R05606E	5.8	7	-31.4482	27.3763
1302	56	R05606E	6	7	-31.4466	27.3773
1303	56	R05606E	6.2	7	-31.4450	27.3782
1304	56	R05606E	6.4	7	-31.4435	27.3794
1305	56	R05606E	6.6	7	-31.4425	27.3811
1306	56	R05606E	6.8	7	-31.4419	27.3831
1307	56	R05606E	7	7	-31.4418	27.3852
1308	56	R05606E	7.2	7	-31.4416	27.3873
1309	56	R05606E	7.4	7	-31.4415	27.3894
1310	56	R05606E	7.6	7	-31.4413	27.3915
1311	56	R05606E	7.8	7	-31.4412	27.3936
1312	56	R05606E	8	7	-31.4411	27.3957
1313	56	R05606E	8.2	7	-31.4409	27.3978
1314	56	R05606E	8.4	7	-31.4408	27.3999
1315	56	R05606E	8.6	7	-31.4406	27.4022
1316	56	R05606E	8.8	7	-31.4405	27.4041
1317	56	R05606E	9	7	-31.4403	27.4062
1318	56	R05606E	9.2	7	-31.4402	27.4083
1319	56	R05606E	9.2	3.94	-31.4402	27.4083
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1321	56	R05606E	9.6	3.94	-31.4399	27.4125
1322	56	R05606E	9.8	3.94	-31.4398	27.4146
1323	56	R05606E	10	3.94	-31.4396	27.4167
1324	56	R05606E	10.2	3.94	-31.4394	27.4188
1325	56	R05606E	10.4	3.94	-31.4393	27.4209
1326	56	R05606E	10.6	3.94	-31.4391	27.4230
1327	56	R05606E	10.8	3.94	-31.4390	27.4251
1328	56	R05606E	11	3.94	-31.4389	27.4272

1329	56	R05606E	11.2	3.94	-31.4387	27.4293
1330	56	R05606E	11.4	3.94	-31.4384	27.4313
1331	56	R05606E	11.6	3.94	-31.4380	27.4334
1332	56	R05606E	11.8	3.94	-31.4376	27.4354
1333	56	R05606E	12	3.94	-31.4372	27.4375
1334	56	R05606E	12.2	3.94	-31.4368	27.4395
1335	56	R05606E	12.4	3.94	-31.4364	27.4416
1336	56	R05606E	12.6	3.94	-31.4359	27.4437
1337	56	R05606E	12.8	3.94	-31.4355	27.4457
1338	56	R05606E	13	3.94	-31.4351	27.4478
1339	56	R05606E	13.2	3.94	-31.4347	27.4498
1340	56	R05606E	13.4	3.94	-31.4343	27.4519
1341	56	R05606E	13.6	3.94	-31.4340	27.4541
1342	56	R05606E	13.8	3.94	-31.4335	27.4560
1343	56	R05606E	14	3.94	-31.4333	27.4580
1344	56	R05606E	14.2	3.94	-31.4327	27.4601
1345	56	R05606E	14.4	3.94	-31.4323	27.4621
1346	56	R05606E	14.6	3.94	-31.4316	27.4641
1347	56	R05606E	14.8	3.94	-31.4306	27.4658
1348	56	R05606E	15	3.94	-31.4293	27.4673
1349	56	R05606E	15.2	3.94	-31.4280	27.4687
1350	56	R05606E	15.4	3.94	-31.4267	27.4702
1351	56	R05606E	15.6	3.94	-31.4253	27.4716
1352	56	R05606E	15.8	3.94	-31.4241	27.4732
1353	56	R05606E	16	3.94	-31.4232	27.4750
1354	56	R05606E	16.2	3.94	-31.4227	27.4770
1355	56	R05606E	16.4	3.94	-31.4225	27.4791
1356	56	R05606E	16.6	3.94	-31.4224	27.4812
1357	56	R05606E	16.8	3.94	-31.4223	27.4833

1358	56	R05606E	17	3.94	-31.4224	27.4854
1359	56	R05606E	17.2	3.94	-31.4221	27.4875
1360	56	R05606E	17.4	3.94	-31.4218	27.4896
1361	56	R05606E	17.6	3.94	-31.4211	27.4915
1362	56	R05606E	17.8	3.94	-31.4200	27.4932
1363	56	R05606E	18	3.94	-31.4189	27.4948
1364	56	R05606E	18.2	3.94	-31.4177	27.4964
1365	56	R05606E	18.4	3.94	-31.4168	27.4982
1366	56	R05606E	18.6	3.94	-31.4160	27.5001
1367	56	R05606E	18.8	3.94	-31.4151	27.5020
1368	56	R05606E	19	3.94	-31.4143	27.5039
1369	56	R05606E	19.2	3.94	-31.4137	27.5058
1370	56	R05606E	19.4	3.94	-31.4135	27.5079
1371	56	R05606E	19.6	3.94	-31.4135	27.5102
1372	56	R05606E	19.8	3.94	-31.4136	27.5121
1373	56	R05606E	20	3.94	-31.4137	27.5142
1374	56	R05606E	20.2	3.94	-31.4136	27.5163
1375	56	R05606E	20.4	3.94	-31.4133	27.5184
1376	56	R05606E	20.6	3.94	-31.4129	27.5205
1377	56	R05606E	20.8	3.94	-31.4126	27.5225
1378	56	R05606E	21	3.94	-31.4122	27.5246
1379	56	R05606E	21.2	3.94	-31.4118	27.5267
1380	56	R05606E	21.4	3.94	-31.4115	27.5287
1381	56	R05606E	21.6	3.94	-31.4115	27.5308
1382	56	R05606E	21.8	3.94	-31.4116	27.5329
1383	56	R05606E	22	3.94	-31.4114	27.5350
1384	56	R05606E	22.2	3.94	-31.4117	27.5371
1385	56	R05606E	22.4	3.94	-31.4123	27.5391
1386	56	R05606E	22.6	3.94	-31.4126	27.5412

1387	56	R05606E	22.8	3.94	-31.4124	27.5433
1388	56	R05606E	23	3.94	-31.4122	27.5453
1389	56	R05606E	23.2	3.94	-31.4119	27.5474
1390	56	R05606E	23.4	3.94	-31.4115	27.5495
1391	56	R05606E	23.6	3.94	-31.4109	27.5515
1392	56	R05606E	23.8	3.94	-31.4104	27.5535
1393	56	R05606E	24	3.94	-31.4099	27.5555
1394	56	R05606E	24.2	3.94	-31.4096	27.5576
1395	56	R05606E	24.4	3.94	-31.4095	27.5597
1396	56	R05606E	24.6	3.94	-31.4093	27.5618
1397	56	R05606E	24.8	3.94	-31.4091	27.5639
1398	56	R05606E	25	3.94	-31.4085	27.5659
1399	56	R05606E	25.2	3.94	-31.4077	27.5678
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1401	56	R05606E	25.6	3.94	-31.4060	27.5714
1402	56	R05606E	25.8	3.94	-31.4051	27.5733
1403	56	R05606E	26	3.94	-31.4043	27.5751
1404	56	R05606E	26.2	3.94	-31.4031	27.5767
1405	56	R05606E	26.4	3.94	-31.4015	27.5777
1406	56	R05606E	26.6	3.94	-31.3997	27.5781
1407	56	R05606E	26.8	3.94	-31.3980	27.5788
1408	56	R05606E	27	3.94	-31.3967	27.5802
1409	56	R05606E	27.2	3.94	-31.3957	27.5820
1410	56	R05606E	27.4	3.94	-31.3946	27.5837
1411	56	R05606E	27.6	3.94	-31.3934	27.5852
1412	56	R05606E	27.8	3.94	-31.3925	27.5870
1413	56	R05606E	28	3.94	-31.3918	27.5891
1414	56	R05606E	28.2	3.94	-31.3910	27.5908
1415	56	R05606E	28.4	3.94	-31.3903	27.5927

1416	56	R05606E	28.6	3.94	-31.3896	27.5947
1417	56	R05606E	28.8	3.94	-31.3890	27.5967
1418	56	R05606E	29	3.94	-31.3881	27.5985
1419	56	R05606E	29.2	3.94	-31.3873	27.6004
1420	56	R05606E	29.4	3.94	-31.3863	27.6022
1421	56	R05606E	29.6	3.94	-31.3855	27.6040
1422	56	R05606E	29.8	3.94	-31.3846	27.6059
1423	56	R05606E	30	3.94	-31.3840	27.6079
1424	56	R05606E	30.2	3.94	-31.3839	27.6099
1425	56	R05606E	30.4	3.94	-31.3840	27.6120
1426	56	R05606E	30.6	3.94	-31.3835	27.6141
1427	56	R05606E	30.8	3.94	-31.3824	27.6157
1428	56	R05606E	31	3.94	-31.3810	27.6171
1429	56	R05606E	31.2	3.94	-31.3802	27.6189
1430	56	R05606E	31.4	3.94	-31.3799	27.6210
1431	56	R05606E	31.6	3.94	-31.3797	27.6231
1432	56	R05606E	31.8	3.94	-31.3791	27.6253
1433	56	R05606E	32	3.94	-31.3780	27.6267
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1435	56	R05606E	32.4	3.94	-31.3753	27.6294
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1437	56	R05606E	32.8	3.94	-31.3725	27.6322
1438	56	R05606E	33	3.94	-31.3712	27.6336
1439	56	R05606E	33.2	3.94	-31.3698	27.6350
1440	56	R05606E	33.4	3.94	-31.3685	27.6365
1441	56	R05606E	33.6	3.94	-31.3676	27.6382
1442	56	R05606E	33.8	3.94	-31.3671	27.6402
1443	56	R05606E	34	3.94	-31.3673	27.6423
1444	56	R05606E	34.2	3.94	-31.3680	27.6444

1445	56	R05606E	34.4	3.94	-31.3691	27.6460
1446	56	R05606E	34.6	3.94	-31.3698	27.6480
1447	56	R05606E	34.8	3.94	-31.3708	27.6496
1448	56	R05606E	35	3.94	-31.3716	27.6515
1449	56	R05606E	35.2	3.94	-31.3720	27.6535
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1452	56	R05606E	35.8	3.94	-31.3707	27.6595
1453	56	R05606E	36	3.94	-31.3699	27.6614
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1455	56	R05606E	36.4	3.94	-31.3682	27.6651
1456	56	R05606E	36.6	3.94	-31.3673	27.6669
1457	56	R05606E	36.8	3.94	-31.3665	27.6688
1458	56	R05606E	37	3.94	-31.3656	27.6706
1459	56	R05606E	37.2	3.94	-31.3649	27.6726
1460	56	R05606E	37.4	3.94	-31.3645	27.6746
1461	56	R05606E	37.6	3.94	-31.3641	27.6767
1462	56	R05606E	37.8	3.94	-31.3641	27.6788
1463	56	R05606E	38	3.94	-31.3645	27.6808
1464	56	R05606E	38	3.99	-31.3645	27.6808
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1466	56	R05606E	38.4	3.99	-31.3662	27.6845
1467	56	R05606E	38.6	3.99	-31.3670	27.6864
1468	56	R05606E	38.8	3.99	-31.3679	27.6882
1469	56	R05606E	39	3.99	-31.3684	27.6902
1470	56	R05606E	39.2	3.99	-31.3685	27.6923
1471	56	R05606E	39.4	3.99	-31.3685	27.6944
1472	56	R05606E	39.6	3.99	-31.3686	27.6965
1473	56	R05606E	39.8	3.99	-31.3686	27.6987

1474	56	R05606E	40	3.99	-31.3686	27.7008
1475	56	R05606E	40.2	3.99	-31.3689	27.7028
1476	56	R05606E	40.4	3.99	-31.3699	27.7046
1477	56	R05606E	40.6	3.99	-31.3709	27.7064
1478	56	R05606E	40.8	3.99	-31.3716	27.7083
1479	56	R05606E	41	3.99	-31.3717	27.7103
1480	56	R05606E	41.2	3.99	-31.3715	27.7124
1481	56	R05606E	41.4	3.99	-31.3717	27.7145
1482	56	R05606E	41.6	3.99	-31.3726	27.7163
1483	56	R05606E	41.8	3.99	-31.3737	27.7180
1484	56	R05606E	42	3.99	-31.3748	27.7197
1485	56	R05606E	42.2	3.99	-31.3755	27.7216
1486	56	R05606E	42.4	3.99	-31.3760	27.7236
1487	56	R05606E	42.6	3.99	-31.3765	27.7257
1488	56	R05606E	42.8	3.99	-31.3770	27.7277
1489	56	R05606E	43	3.99	-31.3776	27.7297
1490	56	R05606E	43.2	3.99	-31.3781	27.7317
1491	56	R05606E	43.4	3.99	-31.3786	27.7337
1492	56	R05606E	43.6	3.99	-31.3791	27.7357
1493	56	R05606E	43.8	3.99	-31.3796	27.7377
1494	56	R05606E	44	3.99	-31.3802	27.7398
1495	56	R05606E	44.2	3.99	-31.3806	27.7418
1496	56	R05606E	44.4	3.99	-31.3808	27.7439
1497	56	R05606E	44.6	3.99	-31.3803	27.7460
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1499	56	R05606E	45	3.99	-31.3787	27.7496
1500	56	R05606E	45.2	3.99	-31.3773	27.7513
1501	56	R05606E	45.4	3.99	-31.3761	27.7526
1502	56	R05606E	45.6	3.99	-31.3748	27.7541

1503	56	R05606E	45.8	3.99	-31.3738	27.7559
1504	56	R05606E	46	3.99	-31.3736	27.7579
1505	56	R05606E	46.2	3.99	-31.3740	27.7600
1506	56	R05606E	46.4	3.99	-31.3751	27.7618
1507	56	R05606E	46.6	3.99	-31.3762	27.7631
1508	56	R05606E	46.8	3.99	-31.3773	27.7650
1509	56	R05606E	47	3.99	-31.3784	27.7666
1510	56	R05606E	47.2	3.99	-31.3795	27.7683
1511	56	R05606E	47.4	3.99	-31.3806	27.7700
1512	56	R05606E	47.6	3.99	-31.3818	27.7716
1513	56	R05606E	47.8	3.99	-31.3829	27.7733
1514	56	R05606E	48	3.99	-31.3840	27.7749
1515	56	R05606E	48.2	3.99	-31.3851	27.7766
1516	56	R05606E	48.4	3.99	-31.3862	27.7782
1517	56	R05606E	48.6	3.99	-31.3874	27.7799
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1519	56	R05606E	49	3.99	-31.3884	27.7838
1520	56	R05606E	49.2	3.99	-31.3886	27.7859
1521	56	R05606E	49.4	3.99	-31.3888	27.7880
1522	56	R05606E	49.6	3.99	-31.3888	27.7901
1523	56	R05606E	49.8	3.99	-31.3882	27.7921
1524	56	R05606E	50	3.99	-31.3869	27.7935
1525	56	R05606E	50.2	3.99	-31.3853	27.7945
1526	56	R05606E	50.4	3.99	-31.3838	27.7957
1527	56	R05606E	50.6	3.99	-31.3825	27.7970
1528	56	R05606E	50.8	3.99	-31.3815	27.7988
1529	56	R05606E	51	3.99	-31.3808	27.8007
1530	56	R05606E	51.2	3.99	-31.3801	27.8027
1531	56	R05606E	51.4	3.99	-31.3795	27.8046

1532	56	R05606E	51.6	3.99	-31.3788	27.8066
1533	56	R05606E	51.8	3.99	-31.3779	27.8084
1534	56	R05606E	52	3.99	-31.3763	27.8093
1535	56	R05606E	52.2	3.99	-31.3746	27.8101
1536	56	R05606E	52.4	3.99	-31.3729	27.8109
1537	56	R05606E	52.6	3.99	-31.3713	27.8119
1538	56	R05606E	52.8	3.99	-31.3696	27.8125
1539	56	R05606E	53	3.99	-31.3680	27.8135
1540	56	R05606E	53.2	3.99	-31.3666	27.8148
1541	56	R05606E	53.4	3.99	-31.3652	27.8160
1542	56	R05606E	53.6	3.99	-31.3637	27.8173
1543	56	R05606E	53.8	3.99	-31.3623	27.8186
1544	56	R05606E	54	3.99	-31.3612	27.8201
1545	56	R05606E	54.2	3.99	-31.3605	27.8221
1546	56	R05606E	54.4	3.99	-31.3594	27.8238
1547	56	R05606E	54.6	3.99	-31.3579	27.8248
1548	56	R05606E	54.8	3.99	-31.3562	27.8255
1549	56	R05606E	55	3.99	-31.3545	27.8263
1550	56	R05606E	55.2	3.99	-31.3528	27.8270
1551	56	R05606E	55.4	3.99	-31.3511	27.8277
1552	56	R05606E	55.6	3.99	-31.3494	27.8284
1553	56	R05606E	55.8	3.99	-31.3479	27.8294
1554	56	R05606E	56	3.99	-31.3464	27.8307
1555	56	R05606E	56.2	3.99	-31.3451	27.8321
1556	56	R05606E	56.4	3.99	-31.3438	27.8334
1557	56	R05606E	56.6	3.99	-31.3423	27.8348
1558	56	R05606E	56.8	3.99	-31.3409	27.8361
1559	56	R05606E	57	3.99	-31.3395	27.8375
1560	56	R05606E	57.2	3.99	-31.3381	27.8389

1561	56	R05606E	57.4	3.99	-31.3370	27.8405
1562	56	R05606E	57.6	3.99	-31.3363	27.8424
1563	56	R05606E	57.8	3.99	-31.3357	27.8444
1564	56	R05606E	58	3.99	-31.3351	27.8464
1565	56	R05607E	0	4	-31.3345	27.8480
1566	56	R05607E	0.2	4	-31.3339	27.8500
1567	56	R05607E	0.4	4	-31.3333	27.8521
1568	56	R05607E	0.6	4	-31.3327	27.8539
1569	56	R05607E	0.8	4	-31.3328	27.8560
1570	56	R05607E	1	4	-31.3338	27.8578
1571	56	R05607E	1.2	4	-31.3348	27.8595
1572	56	R05607E	1.4	4	-31.3361	27.8613
1573	56	R05607E	1.6	4	-31.3369	27.8630
1574	56	R05607E	1.8	4	-31.3381	27.8646
1575	56	R05607E	2	4	-31.3394	27.8660
1576	56	R05607E	2.2	4	-31.3407	27.8675
1577	56	R05607E	2.4	4	-31.3420	27.8690
1578	56	R05607E	2.6	4	-31.3432	27.8705
1579	56	R05607E	2.8	4	-31.3444	27.8720
1580	56	R05607E	3	4	-31.3448	27.8741
1581	56	R05607E	3.2	4	-31.3442	27.8760
1582	56	R05607E	3.4	4	-31.3433	27.8779
1583	56	R05607E	3.6	4	-31.3431	27.8799
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1585	56	R05607E	4	4	-31.3448	27.8835
1586	56	R05607E	4.2	4	-31.3458	27.8853
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1588	56	R05607E	4.6	4	-31.3475	27.8890
1589	56	R05607E	4.8	4	-31.3479	27.8911

1590	56	R05607E	5	4	-31.3482	27.8931
1591	56	R05607E	5.2	4	-31.3485	27.8952
1592	56	R05607E	5.4	4	-31.3483	27.8973
1593	56	R05607E	5.6	4	-31.3479	27.8994
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1595	56	R05607E	6	4	-31.3472	27.9035
1596	56	R05607E	6.2	4	-31.3468	27.9055
1597	56	R05607E	6.4	4	-31.3464	27.9076
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1599	56	R05607E	6.8	4	-31.3450	27.9114
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1601	56	R05607E	7.2	4	-31.3444	27.9158
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1603	56	R05607E	7.6	4	-31.3439	27.9198
1604	56	R05607E	7.8	4	-31.3437	27.9218
1605	56	R05607E	8	4	-31.3435	27.9239
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1607	56	R05607E	8.4	4	-31.3430	27.9281
1608	56	R05607E	8.6	4	-31.3429	27.9302
1609	56	R05607E	8.8	4	-31.3436	27.9321
1610	56	R05607E	9	4	-31.3449	27.9338
1611	56	R05607E	9.2	4	-31.3462	27.9351
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1613	56	R05607E	9.6	4	-31.3487	27.9382
1614	56	R05607E	9.8	4	-31.3502	27.9392
1615	56	R05607E	10	4	-31.3519	27.9404
1616	56	R05607E	10.2	4	-31.3529	27.9421
1617	56	R05607E	10.4	4	-31.3533	27.9441
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1619	56	R05607E	10.8	4	-31.3541	27.9481
1620	56	R05607E	11	4	-31.3554	27.9497
1621	56	R05607E	11.2	4	-31.3561	27.9516
1622	56	R05607E	11.4	4	-31.3568	27.9535
1623	56	R05607E	11.6	4	-31.3574	27.9555
1624	56	R05607E	11.8	4	-31.3578	27.9574
1625	56	R05607E	12	4	-31.3584	27.9595
1626	56	R05607E	12.2	4	-31.3583	27.9616
1627	56	R05607E	12.4	4	-31.3581	27.9637
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1629	56	R05607E	12.8	4	-31.3577	27.9679
1630	56	R05607E	13	4	-31.3575	27.9700
1631	56	R05607E	13.2	4	-31.3573	27.9721
1632	56	R05607E	13.4	4	-31.3571	27.9742
1633	56	R05607E	13.6	4	-31.3569	27.9762
1634	56	R05607E	13.8	4	-31.3562	27.9782
1635	56	R05607E	14	4	-31.3551	27.9798
1636	56	R05607E	14.2	4	-31.3537	27.9811
1637	56	R05607E	14.4	4	-31.3520	27.9820
1638	56	R05607E	14.6	4	-31.3504	27.9829
1639	56	R05607E	14.8	4	-31.3492	27.9844
1640	56	R05607E	15	4	-31.3485	27.9863
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1642	56	R05607E	15.4	4	-31.3473	27.9905
1643	56	R05607E	15.6	4	-31.3467	27.9923
1644	56	R05607E	15.8	4	-31.3465	27.9944
1645	56	R05607E	16	4	-31.3467	27.9965
1646	56	R05607E	16.2	4	-31.3465	27.9985
1647	56	R05607E	16.4	4	-31.3454	28.0001

1648	56	R05607E	16.6	4	-31.3437	28.0010
1649	56	R05607E	16.8	4	-31.3419	28.0011
1650	56	R05607E	17	4	-31.3402	28.0016
1651	56	R05607E	17.2	4	-31.3389	28.0033
1652	56	R05607E	17.4	4	-31.3380	28.0049
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1654	56	R05607E	17.8	4	-31.3355	28.0079
1655	56	R05607E	18	4	-31.3340	28.0091
1656	56	R05607E	18.2	4	-31.3325	28.0101
1657	56	R05607E	18.4	4	-31.3309	28.0112
1658	56	R05607E	18.6	4	-31.3293	28.0123
1659	56	R05607E	18.8	4	-31.3278	28.0133
1660	56	R05607E	19	4	-31.3262	28.0143
1661	56	R05607E	19.2	4	-31.3245	28.0149
1662	56	R05607E	19.4	4	-31.3227	28.0156
1663	56	R05607E	19.6	4	-31.3214	28.0172
1664	56	R05607E	19.8	4	-31.3209	28.0190
1665	56	R05607E	20	4	-31.3214	28.0210
1666	56	R05607E	20.2	4	-31.3225	28.0226
1667	56	R05607E	20.4	4	-31.3236	28.0243
1668	56	R05607E	20.6	4	-31.3249	28.0259
1669	56	R05607E	20.8	4	-31.3256	28.0277
1670	56	R05607E	21	4	-31.3258	28.0298
1671	56	R05607E	21.2	4	-31.3261	28.0319
1672	56	R05607E	21.4	4	-31.3259	28.0340
1673	56	R05607E	21.6	4	-31.3260	28.0363
1674	56	R05607E	21.6	3.63	-31.3260	28.0363
1675	56	R05607E	21.8	3.63	-31.3260	28.0382
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1677	56	R05607E	22.2	3.63	-31.3255	28.0424
1678	56	R05607E	22.4	3.63	-31.3251	28.0445
1679	56	R05607E	22.6	3.63	-31.3250	28.0465
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1681	56	R05607E	23	3.63	-31.3240	28.0506
1682	56	R05607E	23.2	3.63	-31.3236	28.0527
1683	56	R05607E	23.4	3.63	-31.3232	28.0548
1684	56	R05607E	23.6	3.63	-31.3228	28.0568
1685	56	R05607E	23.8	3.63	-31.3226	28.0589
1686	56	R05607E	24	3.63	-31.3231	28.0609
1687	56	R05607E	24.2	3.63	-31.3236	28.0630
1688	56	R05607E	24.4	3.63	-31.3233	28.0651
1689	56	R05607E	24.6	3.63	-31.3232	28.0672
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1691	56	R05607E	25	3.63	-31.3230	28.0714
1692	56	R05607E	25.2	3.63	-31.3230	28.0735
1693	56	R05607E	25.4	3.63	-31.3227	28.0757
1694	56	R05607E	25.6	3.63	-31.3224	28.0776
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1696	56	R05607E	26	3.63	-31.3207	28.0814
1697	56	R05607E	26.2	3.63	-31.3203	28.0834
1698	56	R05607E	26.4	3.63	-31.3202	28.0855
1699	56	R05607E	26.6	3.63	-31.3199	28.0876
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1701	56	R05607E	27	3.63	-31.3183	28.0914
1702	56	R05607E	27.2	3.63	-31.3171	28.0929
1703	56	R05607E	27.4	3.63	-31.3157	28.0944
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1705	56	R05607E	27.8	3.63	-31.3131	28.0974

1706	56	R05607E	28	3.63	-31.3118	28.0987
1707	56	R05607E	28.2	3.63	-31.3105	28.1001
1708	56	R05607E	28.4	3.63	-31.3093	28.1016
1709	56	R05607E	28.6	3.63	-31.3077	28.1027
1710	56	R05607E	28.8	3.63	-31.3060	28.1035
1711	56	R05607E	29	3.63	-31.3043	28.1043
1712	56	R05607E	29.2	3.63	-31.3026	28.1051
1713	56	R05607E	29.4	3.63	-31.3009	28.1055
1714	56	R05607E	29.6	3.63	-31.2991	28.1052
1715	56	R05607E	29.8	3.63	-31.2973	28.1049
1716	56	R05607E	30	3.63	-31.2956	28.1056
1717	56	R05607E	30.2	3.63	-31.2944	28.1071
1718	56	R05607E	30.4	3.63	-31.2933	28.1087
1719	56	R05607E	30.6	3.63	-31.2919	28.1100
1720	56	R05607E	30.8	3.63	-31.2903	28.1110
1721	56	R05607E	31	3.63	-31.2885	28.1116
1722	56	R05607E	31.2	3.63	-31.2868	28.1123
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1726	56	R05607E	32	3.63	-31.2803	28.1159
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1730	56	R05607E	32.8	3.63	-31.2737	28.1193
1731	56	R05607E	33	3.63	-31.2720	28.1198
1732	56	R05607E	33.2	3.63	-31.2702	28.1203
1733	56	R05607E	33.4	3.63	-31.2685	28.1210
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1735	56	R05607E	33.8	3.63	-31.2650	28.1219
1736	56	R05607E	34	3.63	-31.2632	28.1224
1737	56	R05607E	34.2	3.63	-31.2615	28.1229
1738	56	R05607E	34.4	3.63	-31.2597	28.1234
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1740	56	R05607E	34.8	3.63	-31.2562	28.1244
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1742	56	R05607E	35.2	3.63	-31.2527	28.1254
1743	56	R05607E	35.4	3.63	-31.2510	28.1259
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1750	56	R05607E	36.8	3.63	-31.2423	28.1364
1751	56	R05607E	37	3.63	-31.2415	28.1383
1752	56	R05607E	37.2	3.63	-31.2415	28.1404
1753	56	R05607E	37.4	3.63	-31.2420	28.1424
1754	56	R05607E	37.6	3.63	-31.2420	28.1445
1755	56	R05607E	37.8	3.63	-31.2411	28.1463
1756	56	R05607E	38	3.63	-31.2395	28.1471
1757	56	R05607E	38.2	3.63	-31.2377	28.1470
1758	56	R05607E	38.4	3.63	-31.2360	28.1469
1759	56	R05607E	38.6	3.63	-31.2342	28.1477
1760	56	R05607E	38.8	3.63	-31.2328	28.1491
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1766	56	R05607E	40	3.63	-31.2253	28.1579
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1769	56	R05607E	40.6	3.63	-31.2223	28.1632
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1773	56	R05607E	41.4	3.63	-31.2158	28.1667
1774	56	R05607E	41.6	3.63	-31.2142	28.1676
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1776	56	R05607E	42	3.63	-31.2135	28.1713
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1779	56	R05607E	42.6	3.63	-31.2109	28.1762
1780	56	R05607E	42.8	3.63	-31.2099	28.1779
1781	56	R05607E	43	3.63	-31.2092	28.1799
1782	56	R05607E	43.2	3.63	-31.2084	28.1818
1783	56	R05607E	43.4	3.63	-31.2077	28.1837
1784	56	R05607E	43.6	3.63	-31.2070	28.1857
1785	56	R05607E	43.8	3.63	-31.2063	28.1876
1786	56	R05607E	44	3.63	-31.2056	28.1895
1787	56	R05607E	44.2	3.63	-31.2049	28.1915
1788	56	R05607E	44.4	3.63	-31.2045	28.1935
1789	56	R05607E	44.6	3.63	-31.2046	28.1956
1790	56	R05607E	44.8	3.63	-31.2051	28.1977
1791	56	R05607E	45	3.63	-31.2055	28.1997
1792	56	R05607E	45.2	3.63	-31.2054	28.2018

1793	56	R05607E	45.4	3.63	-31.2049	28.2037
1794	56	R05607E	45.6	3.63	-31.2043	28.2057
1795	56	R05607E	45.8	3.63	-31.2037	28.2077
1796	56	R05607E	46	3.63	-31.2031	28.2097
1797	56	R05607E	46.2	3.63	-31.2027	28.2119
1798	56	R05607E	46.4	3.63	-31.2019	28.2137
1799	56	R05607E	46.6	3.63	-31.2013	28.2157
1800	56	R05607E	46.8	3.63	-31.2008	28.2177
1801	56	R05607E	47	3.63	-31.2002	28.2196
1802	56	R05607E	47.2	3.63	-31.1996	28.2216
1803	56	R05607E	47.4	3.63	-31.1990	28.2237
1804	56	R05607E	47.6	3.63	-31.1984	28.2256
1805	56	R05607E	47.8	3.63	-31.1978	28.2276
1806	56	R05607E	48	3.63	-31.1971	28.2295
1807	56	R05607E	48.2	3.63	-31.1963	28.2316
1808	56	R05607E	48.4	3.63	-31.1955	28.2333
1809	56	R05607E	48.6	3.63	-31.1947	28.2352
1810	56	R05607E	48.8	3.63	-31.1939	28.2370
1811	56	R05607E	48.8	3.87	-31.1939	28.2370
1812	56	R05607E	49	3.87	-31.1932	28.2390
1813	56	R05607E	49.2	3.87	-31.1929	28.2410
1814	56	R05607E	49.4	3.87	-31.1928	28.2431
1815	56	R05607E	49.6	3.87	-31.1921	28.2451
1816	56	R05607E	49.8	3.87	-31.1909	28.2465
1817	56	R05607E	50	3.87	-31.1892	28.2474
1818	56	R05607E	50.2	3.87	-31.1876	28.2482
1819	56	R05607E	50.4	3.87	-31.1858	28.2487
1820	56	R05607E	50.6	3.87	-31.1840	28.2490
1821	56	R05607E	50.8	3.87	-31.1824	28.2494

1822	56	R05607E	51	3.87	-31.1805	28.2497
1823	56	R05607E	51.2	3.87	-31.1787	28.2501
1824	56	R05607E	51.4	3.87	-31.1769	28.2503
1825	56	R05607E	51.6	3.87	-31.1751	28.2504
1826	56	R05607E	51.8	3.87	-31.1735	28.2497
1827	56	R05607E	52	3.87	-31.1716	28.2490
1828	56	R05607E	52.2	3.87	-31.1699	28.2493
1829	56	R05607E	52.4	3.87	-31.1684	28.2505
1830	56	R05607E	52.6	3.87	-31.1677	28.2524
1831	56	R05607E	52.8	3.87	-31.1674	28.2545
1832	56	R05607E	53	3.87	-31.1672	28.2566
1833	56	R05607E	53.2	3.87	-31.1668	28.2586
1834	56	R05607E	53.4	3.87	-31.1662	28.2606
1835	56	R05607E	53.6	3.87	-31.1653	28.2624
1836	56	R05607E	53.8	3.87	-31.1640	28.2639
1837	56	R05607E	54	3.87	-31.1627	28.2653
1838	56	R05607E	54.2	3.87	-31.1614	28.2668
1839	56	R05607E	54.4	3.87	-31.1600	28.2682
1840	56	R05607E	54.6	3.87	-31.1587	28.2696
1841	56	R05607E	54.8	3.87	-31.1574	28.2710
1842	56	R05607E	55	3.87	-31.1561	28.2725
1843	56	R05607E	55.2	3.87	-31.1548	28.2741
1844	56	R05607E	55.4	3.87	-31.1534	28.2753
1845	56	R05607E	55.6	3.87	-31.1521	28.2768
1846	56	R05607E	55.8	3.87	-31.1508	28.2782
1847	56	R05607E	56	3.87	-31.1497	28.2796
1848	56	R05607E	56.2	3.87	-31.1482	28.2811
1849	56	R05607E	56.4	3.87	-31.1468	28.2825
1850	56	R05607E	56.6	3.87	-31.1453	28.2836

1851	56	R05607E	56.8	3.87	-31.1437	28.2845
1852	56	R05607E	57	3.87	-31.1421	28.2855
1853	56	R05607E	57.2	3.87	-31.1405	28.2865
1854	56	R05607E	57.4	3.87	-31.1390	28.2875
1855	56	R05607E	57.6	3.87	-31.1375	28.2888
1856	56	R05607E	57.8	3.87	-31.1358	28.2896
1857	56	R05607E	58	3.87	-31.1343	28.2906
1858	56	R05607E	58.2	3.87	-31.1334	28.2924
1859	56	R05607E	58.4	3.87	-31.1331	28.2945
1860	56	R05607E	58.6	3.87	-31.1326	28.2965
1861	56	R05607E	58.8	3.87	-31.1318	28.2985
1862	56	R05607E	59	3.87	-31.1306	28.2999
1863	56	R05607E	59.2	3.87	-31.1292	28.3012
1864	56	R05607E	59.4	3.87	-31.1277	28.3024
1865	56	R05607E	59.6	3.87	-31.1262	28.3037
1866	56	R05607E	59.8	3.87	-31.1249	28.3051
1867	56	R05607E	60	3.87	-31.1242	28.3070
1868	56	R05607E	60.2	3.87	-31.1234	28.3088
1869	56	R05607E	60.4	3.87	-31.1222	28.3101
1870	56	R05607E	60.6	3.87	-31.1205	28.3113
1871	56	R05607E	60.8	3.87	-31.1192	28.3128
1872	56	R05607E	61	3.87	-31.1182	28.3146
1873	56	R05607E	61.2	3.87	-31.1173	28.3163
1874	56	R05607E	61.4	3.87	-31.1162	28.3183
1875	56	R05607E	61.6	3.87	-31.1152	28.3198
1876	56	R05607E	61.8	3.87	-31.1142	28.3216
1877	56	R05607E	62	3.87	-31.1132	28.3233
1878	56	R05607E	62.2	3.87	-31.1124	28.3251
1879	56	R05607E	62.4	3.87	-31.1114	28.3269

1880	56	R05607E	62.6	3.87	-31.1109	28.3289
1881	56	R05607E	62.8	3.87	-31.1103	28.3309
1882	56	R05607E	63	3.87	-31.1094	28.3325
1883	56	R05607E	63.2	3.87	-31.1078	28.3338
1884	56	R05607E	63.4	3.87	-31.1063	28.3351
1885	56	R05607E	63.6	3.87	-31.1052	28.3367
1886	56	R05607E	63.8	3.87	-31.1047	28.3387
1887	56	R05607E	64	3.87	-31.1039	28.3407
1888	56	R05607E	64.2	3.87	-31.1023	28.3415
1889	56	R05607E	64.4	3.87	-31.1006	28.3421
1890	56	R05607E	64.6	3.87	-31.0989	28.3428
1891	56	R05607E	64.8	3.87	-31.0973	28.3440
1892	56	R05607E	65	3.87	-31.0958	28.3451
1893	56	R05607E	65.2	3.87	-31.0942	28.3459
1894	56	R05607E	65.4	3.87	-31.0927	28.3468
1895	56	R05607E	65.6	3.87	-31.0908	28.3473
1896	56	R05607E	65.8	3.87	-31.0890	28.3472
1897	56	R05607E	66	3.87	-31.0870	28.3474
1898	56	R05607E	66.2	3.87	-31.0860	28.3487
1899	56	R05607E	66.4	3.87	-31.0845	28.3501
1900	56	R05607E	66.6	3.87	-31.0828	28.3506
1901	56	R05607E	66.8	3.87	-31.0813	28.3495
1902	56	R05607E	67	3.87	-31.0799	28.3485
1903	56	R05607E	67.2	3.87	-31.0784	28.3497
1904	56	R05607E	67.4	3.87	-31.0776	28.3516
1905	56	R05607E	67.6	3.87	-31.0764	28.3531
1906	56	R05607E	67.8	3.87	-31.0746	28.3534
1907	56	R05607E	68	3.87	-31.0729	28.3529
1908	56	R05607E	68.2	3.87	-31.0711	28.3524

1909	56	R05608E	0	10	-31.0697	28.3526
1910	56	R05608E	0.2	10	-31.0691	28.3506
1911	56	R05608E	0.4	10	-31.0685	28.3486
1912	56	R05608E	0.6	10	-31.0679	28.3466
1913	56	R05608E	0.8	10	-31.0673	28.3447
1914	56	R05608E	1	10	-31.0656	28.3449
1915	56	R05608E	1.2	10	-31.0639	28.3454
1916	56	R05608E	1.4	10	-31.0626	28.3468
1917	56	R05608E	1.6	10	-31.0611	28.3478
1918	56	R05608E	1.8	10	-31.0594	28.3484
1919	56	R05608E	2	10	-31.0576	28.3485
1920	56	R05608E	2.2	10	-31.0561	28.3473
1921	56	R05608E	2.4	10	-31.0544	28.3465
1922	56	R05608E	2.6	10	-31.0527	28.3468
1923	56	R05608E	2.8	10	-31.0522	28.3487
1924	56	R05608E	3	10	-31.0520	28.3508
1925	56	R05608E	3.2	10	-31.0517	28.3528
1926	56	R05608E	3.4	10	-31.0512	28.3548
1927	56	R05608E	3.6	10	-31.0505	28.3567
1928	56	R05608E	3.8	10	-31.0498	28.3587
1929	56	R05608E	4	10	-31.0493	28.3607
1930	56	R05608E	4.2	10	-31.0489	28.3627
1931	56	R05608E	4.4	10	-31.0485	28.3648
1932	56	R05608E	4.6	10	-31.0482	28.3669
1933	56	R05608E	4.8	10	-31.0479	28.3689
1934	56	R05608E	5	10	-31.0475	28.3710
1935	56	R05608E	5.2	10	-31.0472	28.3731
1936	56	R05608E	5.4	10	-31.0471	28.3751
1937	56	R05608E	5.6	10	-31.0471	28.3774

1938	56	R05608E	5.8	10	-31.0472	28.3793
1939	56	R05608E	6	10	-31.0473	28.3814
1940	56	R05608E	6.2	10	-31.0474	28.3835
1941	56	R05608E	6.4	10	-31.0478	28.3857
1942	56	R05608E	6.6	10	-31.0483	28.3876
1943	56	R05608E	6.8	10	-31.0481	28.3897
1944	56	R05608E	7	10	-31.0480	28.3918
1945	56	R05608E	7.2	10	-31.0482	28.3938
1946	56	R05608E	7.4	10	-31.0483	28.3959
1947	56	R05608E	7.6	10	-31.0475	28.3977
1948	56	R05608E	7.8	10	-31.0460	28.3989
1949	56	R05608E	8	10	-31.0446	28.4004
1950	56	R05608E	8.2	10	-31.0439	28.4022
1951	56	R05608E	8.4	10	-31.0439	28.4043
1952	56	R05608E	8.6	10	-31.0445	28.4062
1953	56	R05608E	8.8	10	-31.0452	28.4081
1954	56	R05608E	9	10	-31.0452	28.4102
1955	56	R05608E	9.2	10	-31.0441	28.4117
1956	56	R05608E	9.4	10	-31.0423	28.4122
1957	56	R05608E	9.6	10	-31.0405	28.4125
1958	56	R05608E	9.8	10	-31.0388	28.4130
1959	56	R05608E	10	10	-31.0370	28.4136
1960	56	R05608E	10.2	10	-31.0350	28.4141
1961	56	R05608E	10.4	10	-31.0335	28.4140
1962	56	R05608E	10.6	10	-31.0318	28.4132
1963	56	R05608E	10.8	10	-31.0303	28.4120
1964	56	R05608E	11	10	-31.0290	28.4107
1965	56	R05608E	11.2	10	-31.0274	28.4095
1966	56	R05608E	11.4	10	-31.0258	28.4086

1967	56	R05608E	11.6	10	-31.0241	28.4080
1968	56	R05608E	11.8	10	-31.0224	28.4074
1969	56	R05608E	12	10	-31.0208	28.4070
1970	56	R05608E	12.2	10	-31.0188	28.4073
1971	56	R05608E	12.4	10	-31.0171	28.4078
1972	56	R05608E	12.6	10	-31.0155	28.4090
1973	56	R05608E	12.8	10	-31.0138	28.4099
1974	56	R05608E	13	10	-31.0122	28.4108
1975	56	R05608E	13.2	10	-31.0105	28.4115
1976	56	R05608E	13.4	10	-31.0095	28.4131
1977	56	R05608E	13.6	10	-31.0095	28.4152
1978	56	R05608E	13.8	10	-31.0098	28.4174
1979	56	R05608E	14	10	-31.0094	28.4192
1980	56	R05608E	14.2	10	-31.0084	28.4210
1981	56	R05608E	14.4	10	-31.0070	28.4222
1982	56	R05608E	14.6	10	-31.0052	28.4222
1983	56	R05608E	14.8	10	-31.0035	28.4217
1984	56	R05608E	15	10	-31.0018	28.4220
1985	56	R05608E	15.2	10	-30.9999	28.4223
1986	56	R05608E	15.4	10	-30.9985	28.4236
1987	56	R05608E	15.6	10	-30.9967	28.4239
1988	56	R05608E	15.8	10	-30.9952	28.4250
1989	56	R05608E	16	10	-30.9939	28.4264
1990	56	R05608E	16.2	10	-30.9926	28.4280
1991	56	R05608E	16.4	10	-30.9914	28.4294
1992	56	R05608E	16.6	10	-30.9901	28.4309
1993	56	R05608E	16.8	10	-30.9887	28.4323
1994	56	R05608E	17	10	-30.9874	28.4338
1995	56	R05608E	17.2	10	-30.9860	28.4351

1996	56	R05608E	17.4	10	-30.9846	28.4364
1997	56	R05608E	17.6	10	-30.9832	28.4377
1998	56	R05608E	17.8	10	-30.9819	28.4391
1999	56	R05608E	18	10	-30.9805	28.4405
2000	56	R05608E	18.2	10	-30.9788	28.4412
2001	56	R05608E	18.4	10	-30.9771	28.4418
2002	56	R05608E	18.6	10	-30.9753	28.4424
2003	56	R05608E	18.8	10	-30.9738	28.4435
2004	56	R05608E	19	10	-30.9723	28.4446
2005	56	R05608E	19.2	10	-30.9705	28.4451
2006	56	R05608E	19.4	10	-30.9689	28.4462
2007	56	R05608E	19.6	10	-30.9674	28.4471
2008	56	R05608E	19.8	10	-30.9658	28.4481
2009	56	R05608E	20	10	-30.9644	28.4491
2010	56	R05608E	20.2	10	-30.9626	28.4501
2011	56	R05608E	20.4	10	-30.9609	28.4506
2012	56	R05608E	20.6	10	-30.9590	28.4508
2013	56	R05608E	20.8	10	-30.9574	28.4510
2014	56	R05608E	21	10	-30.9554	28.4512
2015	56	R05608E	21.2	10	-30.9537	28.4517
2016	56	R05608E	21.4	10	-30.9520	28.4527
2017	56	R05608E	21.6	10	-30.9504	28.4533
2018	56	R05608E	21.8	10	-30.9487	28.4541
2019	56	R05608E	22	10	-30.9471	28.4552
2020	56	R05608E	22.2	10	-30.9463	28.4570
2021	56	R05608E	22.4	10	-30.9458	28.4590
2022	56	R05608E	22.6	10	-30.9447	28.4604
2023	56	R05608E	22.8	10	-30.9429	28.4613
2024	56	R05608E	23	10	-30.9412	28.4606

2025	56	R05608E	23.2	10	-30.9394	28.4603
2026	56	R05608E	23.4	10	-30.9377	28.4600
2027	56	R05608E	23.6	10	-30.9360	28.4593
2028	56	R05608E	23.8	10	-30.9342	28.4594
2029	56	R05608E	24	10	-30.9326	28.4602
2030	56	R05608E	24.2	10	-30.9310	28.4613
2031	56	R05608E	24.4	10	-30.9299	28.4629
2032	56	R05608E	24.6	10	-30.9287	28.4645
2033	56	R05608E	24.8	10	-30.9276	28.4663
2034	56	R05608E	25	10	-30.9261	28.4677
2035	56	R05608E	25.2	10	-30.9250	28.4691
2036	56	R05608E	25.4	10	-30.9236	28.4702
2037	56	R05608E	25.6	10	-30.9218	28.4709
2038	56	R05608E	25.8	10	-30.9203	28.4719
2039	56	R05608E	26	10	-30.9187	28.4729
2040	56	R05608E	26.2	10	-30.9171	28.4740
2041	56	R05608E	26.4	10	-30.9158	28.4751
2042	56	R05608E	26.6	10	-30.9139	28.4756
2043	56	R05608E	26.8	10	-30.9121	28.4752
2044	56	R05608E	27	10	-30.9103	28.4750
2045	56	R05608E	27.2	10	-30.9092	28.4765
2046	56	R05608E	27.4	10	-30.9090	28.4786
2047	56	R05608E	27.6	10	-30.9087	28.4806
2048	56	R05608E	27.8	10	-30.9080	28.4826
2049	56	R05608E	28	10	-30.9069	28.4843
2050	56	R05608E	28.2	10	-30.9061	28.4860
2051	56	R05608E	28.4	10	-30.9048	28.4877
2052	56	R05608E	28.6	10	-30.9038	28.4894
2053	56	R05608E	28.8	10	-30.9028	28.4912

2054	56	R05608E	29	10	-30.9020	28.4930
2055	56	R05608E	29.2	10	-30.9010	28.4948
2056	56	R05608E	29.4	10	-30.8999	28.4965
2057	56	R05608E	29.6	10	-30.8984	28.4976
2058	56	R05608E	29.8	10	-30.8969	28.4987
2059	56	R05608E	30	10	-30.8952	28.4996
2060	56	R05608E	30.2	10	-30.8934	28.4993
2061	56	R05608E	30.4	10	-30.8919	28.4998
2062	56	R05608E	30.6	10	-30.8929	28.5014
2063	56	R05608E	30.8	10	-30.8943	28.5028
2064	56	R05608E	31	10	-30.8956	28.5042
2065	56	R05608E	31.2	10	-30.8971	28.5051
2066	56	R05608E	31.4	10	-30.8971	28.5071
2067	56	R05608E	31.6	10	-30.8958	28.5087
2068	56	R05608E	31.8	10	-30.8945	28.5100
2069	56	R05608E	32	10	-30.8928	28.5107
2070	56	R05608E	32.2	10	-30.8910	28.5103
2071	56	R05608E	32.4	10	-30.8892	28.5101
2072	56	R05608E	32.6	10	-30.8874	28.5102
2073	56	R05608E	32.8	10	-30.8857	28.5109
2074	56	R05608E	33	10	-30.8840	28.5116
2075	56	R05608E	33.2	10	-30.8824	28.5126
2076	56	R05608E	33.4	10	-30.8809	28.5136
2077	56	R05608E	33.6	10	-30.8793	28.5145
2078	56	R05608E	33.8	10	-30.8788	28.5166
2079	56	R05608E	34	10	-30.8790	28.5185
2080	56	R05608E	34.2	10	-30.8787	28.5205
2081	56	R05608E	34.4	10	-30.8778	28.5224
2082	56	R05608E	34.6	10	-30.8769	28.5242

2083	56	R05608E	34.8	10	-30.8761	28.5260
2084	56	R05608E	35	10	-30.8752	28.5279
2085	56	R05608E	35.2	10	-30.8743	28.5299
2086	56	R05608E	35.4	10	-30.8734	28.5315
2087	56	R05608E	35.6	10	-30.8722	28.5330
2088	56	R05608E	35.8	10	-30.8708	28.5344
2089	56	R05608E	36	10	-30.8694	28.5356
2090	56	R05608E	36.2	10	-30.8678	28.5366
2091	56	R05608E	36.4	10	-30.8665	28.5382
2092	56	R05608E	36.6	10	-30.8648	28.5389
2093	56	R05608E	36.8	10	-30.8631	28.5385
2094	56	R05608E	37	10	-30.8613	28.5385
2095	56	R05608E	37.2	10	-30.8596	28.5390
2096	56	R05608E	37.4	10	-30.8578	28.5395
2097	56	R05608E	37.6	10	-30.8561	28.5400
2098	56	R05608E	37.8	10	-30.8544	28.5406
2099	56	R05608E	38	10	-30.8527	28.5412
2100	56	R05608E	38.2	10	-30.8509	28.5418
2101	56	R05608E	38.4	10	-30.8493	28.5424
2102	56	R05608E	38.6	10	-30.8474	28.5424
2103	56	R05608E	38.8	10	-30.8457	28.5417
2104	56	R05608E	39	10	-30.8439	28.5418
2105	56	R05608E	39.2	10	-30.8422	28.5423
2106	56	R05608E	39.4	10	-30.8406	28.5433
2107	56	R05608E	39.6	10	-30.8388	28.5430
2108	56	R05608E	39.8	10	-30.8370	28.5428
2109	56	R05608E	40	10	-30.8353	28.5430
2110	56	R05608E	40.2	10	-30.8337	28.5419
2111	56	R05608E	40.2	8.37	-30.8337	28.5419

2112	56	R05608E	40.4	8.37	-30.8323	28.5406
2113	56	R05608E	40.6	8.37	-30.8306	28.5405
2114	56	R05608E	40.8	8.37	-30.8289	28.5413
2115	56	R05608E	41	8.37	-30.8274	28.5424
2116	56	R05608E	41.2	8.37	-30.8258	28.5418
2117	56	R05608E	41.4	8.37	-30.8245	28.5403
2118	56	R05608E	41.6	8.37	-30.8238	28.5385
2119	56	R05608E	41.8	8.37	-30.8223	28.5376
2120	56	R05608E	42	8.37	-30.8205	28.5370
2121	56	R05608E	42.2	8.37	-30.8194	28.5377
2122	56	R05608E	42.4	8.37	-30.8187	28.5396
2123	56	R05608E	42.6	8.37	-30.8169	28.5395
2124	56	R05608E	42.8	8.37	-30.8151	28.5391
2125	56	R05608E	43	8.37	-30.8134	28.5384
2126	56	R05608E	43.2	8.37	-30.8116	28.5381
2127	56	R05608E	43.4	8.37	-30.8101	28.5392
2128	56	R05608E	43.6	8.37	-30.8085	28.5398
2129	56	R05608E	43.8	8.37	-30.8066	28.5395
2130	56	R05608E	44	8.37	-30.8048	28.5391
2131	56	R05608E	44.2	8.37	-30.8030	28.5388
2132	56	R05608E	44.4	8.37	-30.8012	28.5384
2133	56	R05608E	44.6	8.37	-30.7992	28.5381
2134	56	R05608E	44.8	8.37	-30.7979	28.5371
2135	56	R05608E	45	8.37	-30.7964	28.5360
2136	56	R05608E	45.2	8.37	-30.7951	28.5346
2137	56	R05608E	45.4	8.37	-30.7941	28.5329
2138	56	R05608E	45.6	8.37	-30.7928	28.5318
2139	56	R05608E	45.8	8.37	-30.7918	28.5334
2140	56	R05608E	46	8.37	-30.7909	28.5351

2141	56	R05608E	46.2	8.37	-30.7914	28.5371
2142	56	R05608E	46.4	8.37	-30.7921	28.5391
2143	56	R05608E	46.6	8.37	-30.7926	28.5410
2144	56	R05608E	46.8	8.37	-30.7929	28.5431
2145	56	R05608E	47	8.37	-30.7916	28.5444
2146	56	R05608E	47.2	8.37	-30.7899	28.5452
2147	56	R05608E	47.4	8.37	-30.7881	28.5457
2148	56	R05608E	47.6	8.37	-30.7864	28.5460
2149	56	R05608E	47.8	8.37	-30.7852	28.5446
2150	56	R05608E	48	8.37	-30.7857	28.5426
2151	56	R05608E	48.2	8.37	-30.7858	28.5406
2152	56	R05608E	48.4	8.37	-30.7845	28.5391
2153	56	R05608E	48.6	8.37	-30.7831	28.5379
2154	56	R05608E	48.8	8.37	-30.7815	28.5372
2155	56	R05608E	49	8.37	-30.7798	28.5362
2156	56	R05608E	49.2	8.37	-30.7788	28.5345
2157	56	R05608E	49.4	8.37	-30.7779	28.5327
2158	56	R05608E	49.6	8.37	-30.7770	28.5309
2159	56	R05608E	49.8	8.37	-30.7761	28.5291
2160	56	R05608E	50	8.37	-30.7752	28.5273
2161	56	R05608E	50.2	8.37	-30.7743	28.5255
2162	56	R05608E	50.4	8.37	-30.7733	28.5237
2163	56	R05608E	50.6	8.37	-30.7718	28.5233
2164	56	R05608E	50.8	8.37	-30.7701	28.5238
2165	56	R05608E	51	8.37	-30.7683	28.5237
2166	56	R05608E	51.2	8.37	-30.7665	28.5235
2167	56	R05608E	51.4	8.37	-30.7647	28.5234
2168	56	R05608E	51.6	8.37	-30.7629	28.5233
2169	56	R05608E	51.8	8.37	-30.7612	28.5228

2170	56	R05608E	52	8.37	-30.7594	28.5223
2171	56	R05608E	52.2	8.37	-30.7576	28.5226
2172	56	R05608E	52.4	8.37	-30.7558	28.5226
2173	56	R05608E	52.6	8.37	-30.7540	28.5222
2174	56	R05608E	52.8	8.37	-30.7524	28.5212
2175	56	R05608E	53	8.37	-30.7509	28.5201
2176	56	R05608E	53.2	8.37	-30.7496	28.5187
2177	56	R05608E	53.4	8.37	-30.7480	28.5178
2178	56	R05608E	53.6	8.37	-30.7462	28.5174
2179	56	R05608E	53.8	8.37	-30.7444	28.5171
2180	56	R05608E	54	8.37	-30.7427	28.5176
2181	56	R05608E	54.2	8.37	-30.7411	28.5186
2182	56	R05608E	54.4	8.37	-30.7395	28.5196
2183	56	R05608E	54.6	8.37	-30.7384	28.5213
2184	56	R05608E	54.8	8.37	-30.7374	28.5230
2185	56	R05608E	55	8.37	-30.7364	28.5249
2186	56	R05608E	55.2	8.37	-30.7354	28.5265
2187	56	R05608E	55.4	8.37	-30.7343	28.5282
2188	56	R05608E	55.6	8.37	-30.7331	28.5297
2189	56	R05608E	55.8	8.37	-30.7319	28.5311
2190	56	R05608E	56	8.37	-30.7318	28.5329
2191	56	R05608E	56.2	8.37	-30.7315	28.5350
2192	56	R05608E	56.4	8.37	-30.7308	28.5366
2193	56	R05608E	56.6	8.37	-30.7293	28.5355
2194	56	R05608E	56.8	8.37	-30.7276	28.5347
2195	56	R05608E	57	8.37	-30.7260	28.5337
2196	56	R05608E	57.2	8.37	-30.7244	28.5330
2197	56	R05608E	57.4	8.37	-30.7227	28.5324
2198	56	R05608E	57.6	8.37	-30.7215	28.5322

2199	56	R05608E	57.8	8.37	-30.7201	28.5332
2200	56	R05608E	58	8.37	-30.7187	28.5344
2201	56	R05608E	58.2	8.37	-30.7172	28.5355
2202	56	R05608E	58.4	8.37	-30.7154	28.5359
2203	56	R05608E	58.6	8.37	-30.7136	28.5358
2204	56	R05608E	58.8	8.37	-30.7123	28.5342
2205	56	R05608E	59	8.37	-30.7106	28.5342
2206	56	R05608E	59.2	8.37	-30.7090	28.5331
2207	56	R05608E	59.4	8.37	-30.7073	28.5329
2208	56	R05608E	59.6	8.37	-30.7055	28.5327
2209	56	R05608E	59.8	8.37	-30.7041	28.5317
2210	56	R05608E	60	8.37	-30.7022	28.5310
2211	56	R05608E	60.2	8.37	-30.7017	28.5292
2212	56	R05608E	60.4	8.37	-30.7025	28.5274
2213	56	R05608E	60.6	8.37	-30.7037	28.5260
2214	56	R05608E	60.8	8.37	-30.7036	28.5239
2215	56	R05608E	61	8.37	-30.7031	28.5219
2216	56	R05608E	61.2	8.37	-30.7024	28.5201
2217	56	R05608E	61.4	8.37	-30.7017	28.5183
2218	56	R05608E	61.6	8.37	-30.7010	28.5161
2219	56	R05608E	61.8	8.37	-30.7003	28.5142
2220	56	R05608E	62	8.37	-30.6997	28.5123
2221	56	R05608E	62.2	8.37	-30.6990	28.5104
2222	56	R05608E	62.4	8.37	-30.6975	28.5093
2223	56	R05608E	62.6	8.37	-30.6957	28.5090
2224	56	R05608E	62.8	8.37	-30.6943	28.5080
2225	56	R05608E	63	8.37	-30.6929	28.5066
2226	56	R05608E	63.2	8.37	-30.6915	28.5052
2227	56	R05608E	63.4	8.37	-30.6902	28.5038

2228	56	R05608E	63.6	8.37	-30.6889	28.5023
2229	56	R05608E	63.8	8.37	-30.6900	28.5007
2230	56	R05608E	64	8.37	-30.6908	28.4989
2231	56	R05608E	64.2	8.37	-30.6898	28.4972
2232	56	R05608E	64.4	8.37	-30.6888	28.4955
2233	56	R05608E	64.6	8.37	-30.6878	28.4938
2234	56	R05608E	64.8	8.37	-30.6861	28.4924
2235	56	R05608E	65	8.37	-30.6849	28.4916
2236	56	R05608E	65.2	8.37	-30.6830	28.4914
2237	56	R05608E	65.4	8.37	-30.6812	28.4907
2238	56	R05608E	65.6	8.37	-30.6794	28.4903
2239	56	R05608E	65.8	8.37	-30.6777	28.4899
2240	56	R05608E	66	8.37	-30.6759	28.4895
2241	56	R05608E	66.2	8.37	-30.6741	28.4891
2242	56	R05608E	66.4	8.37	-30.6723	28.4886
2243	56	R05608E	66.6	8.37	-30.6706	28.4883
2244	56	R05608E	66.8	8.37	-30.6688	28.4884
2245	56	R05608E	67	8.37	-30.6670	28.4885
2246	56	R05608E	67.2	8.37	-30.6651	28.4885
2247	56	R05608E	67.4	8.37	-30.6634	28.4881
2248	56	R05608E	67.6	8.37	-30.6621	28.4867
2249	56	R05608E	67.8	8.37	-30.6614	28.4847
2250	56	R05608E	68	8.37	-30.6609	28.4827
2251	56	R05608E	68.2	8.37	-30.6604	28.4807
2252	56	R05608E	68.4	8.37	-30.6599	28.4787
2253	56	R05608E	68.6	8.37	-30.6594	28.4768
2254	56	R05608E	68.8	8.37	-30.6584	28.4751
2255	56	R05608E	69	8.37	-30.6566	28.4749
2256	56	R05608E	69.2	8.37	-30.6548	28.4750

2257	56	R05608E	69.4	8.37	-30.6530	28.4751
2258	56	R05608E	69.6	8.37	-30.6512	28.4754
2259	56	R05608E	69.8	8.37	-30.6495	28.4757
2260	56	R05608E	70	8.37	-30.6477	28.4751
2261	56	R05608E	70.2	8.37	-30.6460	28.4752
2262	56	R05608E	70.4	8.37	-30.6445	28.4764
2263	56	R05608E	70.6	8.37	-30.6429	28.4774
2264	56	R05608E	70.6	8.43	-30.6429	28.4774
2265	56	R05608E	70.8	8.43	-30.6411	28.4777
2266	56	R05608E	71	8.43	-30.6393	28.4780
2267	56	R05608E	71.2	8.43	-30.6378	28.4783
2268	56	R05608E	71.4	8.43	-30.6357	28.4785
2269	56	R05608E	71.6	8.43	-30.6339	28.4786
2270	56	R05608E	71.8	8.43	-30.6321	28.4787
2271	56	R05608E	72	8.43	-30.6307	28.4800
2272	56	R05608E	72.2	8.43	-30.6294	28.4815
2273	56	R05608E	72.4	8.43	-30.6281	28.4829
2274	56	R05608E	72.6	8.43	-30.6268	28.4843
2275	56	R05608E	72.8	8.43	-30.6251	28.4850
2276	56	R05608E	73	8.43	-30.6234	28.4854
2277	56	R05608E	73.2	8.43	-30.6217	28.4863
2278	56	R05608E	73.4	8.43	-30.6203	28.4876
2279	56	R05608E	73.6	8.43	-30.6191	28.4891
2280	56	R05608E	73.8	8.43	-30.6180	28.4908
2281	56	R05608E	74	8.43	-30.6168	28.4924
2282	56	R05608E	74.2	8.43	-30.6158	28.4941
2283	56	R05608E	74.4	8.43	-30.6150	28.4960
2284	56	R05608E	74.6	8.43	-30.6137	28.4975
2285	56	R05608E	74.8	8.43	-30.6124	28.4990

2286	56	R05608E	75	8.43	-30.6111	28.5003
2287	56	R05608E	75.2	8.43	-30.6094	28.5011
2288	56	R05608E	75.4	8.43	-30.6077	28.5018
2289	56	R05608E	75.6	8.43	-30.6060	28.5025
2290	56	R05608E	75.8	8.43	-30.6044	28.5034
2291	56	R05608E	76	8.43	-30.6026	28.5039
2292	56	R05608E	76.2	8.43	-30.6009	28.5040
2293	56	R05608E	76.4	8.43	-30.5991	28.5042
2294	56	R05608E	76.6	8.43	-30.5973	28.5048
2295	56	R05608E	76.8	8.43	-30.5956	28.5054
2296	56	R05608E	77	8.43	-30.5939	28.5060
2297	56	R05608E	77.2	8.43	-30.5921	28.5065
2298	56	R05608E	77.4	8.43	-30.5904	28.5071
2299	56	R05608E	77.6	8.43	-30.5889	28.5077
2300	56	R05608E	77.8	8.43	-30.5869	28.5082
2301	56	R05608E	78	8.43	-30.5852	28.5088
2302	56	R05608E	78.2	8.43	-30.5834	28.5093
2303	56	R05608E	78.4	8.43	-30.5817	28.5099
2304	56	R05608E	78.6	8.43	-30.5799	28.5105
2305	56	R05608E	78.8	8.43	-30.5782	28.5110
2306	56	R05608E	79	8.43	-30.5765	28.5118
2307	56	R05608E	79.2	8.43	-30.5755	28.5135
2308	56	R05608E	79.4	8.43	-30.5738	28.5138
2309	56	R05608E	79.6	8.43	-30.5720	28.5138
2310	56	R05608E	79.8	8.43	-30.5702	28.5137
2311	56	R05608E	80	8.43	-30.5684	28.5137
2312	56	R05608E	80.2	8.43	-30.5666	28.5136
2313	56	R05608E	80.4	8.43	-30.5648	28.5140
2314	56	R05608E	80.6	8.43	-30.5632	28.5150

2315	56	R05608E	80.8	8.43	-30.5617	28.5161
2316	56	R05608E	81	8.43	-30.5601	28.5171
2317	56	R05608E	81.2	8.43	-30.5586	28.5182
2318	56	R05608E	81.4	8.43	-30.5570	28.5193
2319	56	R05608E	81.6	8.43	-30.5554	28.5203
2320	56	R05608E	81.8	8.43	-30.5539	28.5214
2321	56	R05608E	82	8.43	-30.5523	28.5224
2322	56	R05608E	82.2	8.43	-30.5507	28.5234
2323	56	R05608E	82.4	8.43	-30.5491	28.5243
2324	56	R05608E	82.6	8.43	-30.5475	28.5252
2325	56	R05608E	82.8	8.43	-30.5460	28.5263
2326	56	R05608E	83	8.43	-30.5441	28.5266
2327	56	R05608E	83.2	8.43	-30.5423	28.5268
2328	56	R05608E	83.4	8.43	-30.5406	28.5273
2329	56	R05608E	83.6	8.43	-30.5390	28.5282
2330	56	R05608E	83.8	8.43	-30.5374	28.5292
2331	56	R05608E	84	8.43	-30.5359	28.5305
2332	56	R05608E	84.2	8.43	-30.5350	28.5321
2333	56	R05608E	84.4	8.43	-30.5335	28.5334
2334	56	R05608E	84.6	8.43	-30.5318	28.5345
2335	56	R05608E	84.8	8.43	-30.5303	28.5357
2336	56	R05608E	85	8.43	-30.5288	28.5368
2337	56	R05608E	85.2	8.43	-30.5273	28.5380
2338	56	R05608E	85.4	8.43	-30.5258	28.5391
2339	56	R05608E	85.6	8.43	-30.5241	28.5397
2340	56	R05608E	85.8	8.43	-30.5223	28.5400
2341	56	R05608E	86	8.43	-30.5205	28.5404
2342	56	R05608E	86.2	8.43	-30.5188	28.5412
2343	56	R05608E	86.4	8.43	-30.5173	28.5421

2344	56	R05608E	86.6	8.43	-30.5157	28.5432
2345	56	R05608E	86.8	8.43	-30.5139	28.5434
2346	56	R05608E	87	8.43	-30.5121	28.5434
2347	56	R05608E	87.2	8.43	-30.5103	28.5436
2348	56	R05608E	87.4	8.43	-30.5085	28.5436
2349	56	R05608E	87.6	8.43	-30.5070	28.5448
2350	56	R05608E	87.8	8.43	-30.5056	28.5461
2351	56	R05608E	88	8.43	-30.5040	28.5471
2352	56	R05608E	88.2	8.43	-30.5026	28.5482
2353	56	R05608E	88.4	8.43	-30.5027	28.5502
2354	56	R05608E	88.6	8.43	-30.5036	28.5520
2355	56	R05608E	88.8	8.43	-30.5044	28.5539
2356	56	R05608E	89	8.43	-30.5052	28.5557
2357	56	R05608E	89.2	8.43	-30.5050	28.5578
2358	56	R05608E	89.4	8.43	-30.5039	28.5593
2359	56	R05608E	89.6	8.43	-30.5023	28.5604
2360	56	R05608E	89.8	8.43	-30.5011	28.5619
2361	56	R05608E	90	8.43	-30.5000	28.5635
2362	56	R05608E	90.2	8.43	-30.4988	28.5652
2363	56	R05608E	90.4	8.43	-30.4977	28.5668
2364	56	R05608E	90.6	8.43	-30.4966	28.5684
2365	56	R05608E	90.8	8.43	-30.4954	28.5700
2366	56	R05608E	91	8.43	-30.4943	28.5717
2367	56	R05608E	91.2	8.43	-30.4932	28.5733
2368	56	R05608E	91.4	8.43	-30.4920	28.5749
2369	56	R05608E	91.6	8.43	-30.4909	28.5765
2370	56	R05608E	91.8	8.43	-30.4900	28.5781
2371	56	R05608E	92	8.43	-30.4886	28.5798
2372	56	R05608E	92.2	8.43	-30.4875	28.5811

2373	56	R05608E	92.4	8.43	-30.4863	28.5830
2374	56	R05608E	92.6	8.43	-30.4852	28.5846
2375	56	R05608E	92.8	8.43	-30.4841	28.5863
2376	56	R05608E	93	8.43	-30.4829	28.5879
2377	56	R05608E	93.2	8.43	-30.4818	28.5895
2378	56	R05608E	93.4	8.43	-30.4806	28.5913
2379	56	R05608E	93.6	8.43	-30.4799	28.5931
2380	56	R05608E	93.8	8.43	-30.4790	28.5949
2381	56	R05608E	94	8.43	-30.4782	28.5967
2382	56	R05608E	94.2	8.43	-30.4773	28.5986
2383	56	R05608E	94.4	8.43	-30.4765	28.6004
2384	56	R05608E	94.4	8.51	-30.4765	28.6004
2385	56	R05608E	94.6	8.51	-30.4756	28.6024
2386	56	R05608E	94.8	8.51	-30.4750	28.6041
2387	56	R05608E	95	8.51	-30.4736	28.6059
2388	56	R05608E	95.2	8.51	-30.4730	28.6077
2389	56	R05608E	95.4	8.51	-30.4722	28.6096
2390	56	R05608E	95.6	8.51	-30.4716	28.6115
2391	56	R05608E	95.8	8.51	-30.4712	28.6136
2392	56	R05608E	96	8.51	-30.4711	28.6157
2393	56	R05608E	96.2	8.51	-30.4710	28.6177
2394	56	R05608E	96.4	8.51	-30.4704	28.6198
2395	56	R05608E	96.6	8.51	-30.4694	28.6214
2396	56	R05608E	96.8	8.51	-30.4679	28.6226
2397	56	R05608E	97	8.51	-30.4662	28.6233
2398	56	R05608E	97.2	8.51	-30.4645	28.6241
2399	56	R05608E	97.4	8.51	-30.4628	28.6248
2400	56	R05608E	97.6	8.51	-30.4614	28.6258
2401	56	R05608E	97.8	8.51	-30.4595	28.6263

2402	56	R05608E	98	8.51	-30.4578	28.6271
2403	56	R05608E	98.2	8.51	-30.4561	28.6279
2404	56	R05608E	98.4	8.51	-30.4543	28.6282
2405	56	R05608E	98.6	8.51	-30.4525	28.6281
2406	56	R05608E	98.8	8.51	-30.4507	28.6280
2407	56	R05608E	99	8.51	-30.4490	28.6281
2408	56	R05608E	99.2	8.51	-30.4474	28.6293
2409	56	R05608E	99.4	8.51	-30.4465	28.6310
2410	56	R05608E	99.6	8.51	-30.4458	28.6328
2411	56	R05608E	99.8	8.51	-30.4441	28.6340
2412	56	R05608E	100	8.51	-30.4424	28.6344
2413	56	R05608E	100.2	8.51	-30.4406	28.6345
2414	56	R05608E	100.4	8.51	-30.4390	28.6354
2415	56	R05608E	100.6	8.51	-30.4379	28.6371
2416	56	R05608E	100.8	8.51	-30.4368	28.6388
2417	56	R05608E	101	8.51	-30.4353	28.6398
2418	56	R05608E	101.2	8.51	-30.4336	28.6404
2419	56	R05608E	101.4	8.51	-30.4319	28.6411
2420	56	R05608E	101.6	8.51	-30.4305	28.6424
2421	56	R05608E	101.8	8.51	-30.4295	28.6442
2422	56	R05608E	102	8.51	-30.4287	28.6461
2423	56	R05608E	102.2	8.51	-30.4279	28.6480
2424	56	R05608E	102.4	8.51	-30.4271	28.6498
2425	56	R05608E	102.6	8.51	-30.4268	28.6519
2426	56	R05608E	102.8	8.51	-30.4266	28.6539
2427	56	R05608E	103	8.51	-30.4258	28.6557
2428	56	R05608E	103.2	8.51	-30.4245	28.6573
2429	56	R05608E	103.4	8.51	-30.4233	28.6588
2430	56	R05608E	103.6	8.51	-30.4225	28.6606

2431	56	R05608E	103.8	8.51	-30.4221	28.6626
2432	56	R05608E	104	8.51	-30.4216	28.6646
2433	56	R05608E	104.2	8.51	-30.4204	28.6660
2434	56	R05608E	104.4	8.51	-30.4187	28.6672
2435	56	R05608E	104.6	8.51	-30.4171	28.6679
2436	56	R05608E	104.8	8.51	-30.4155	28.6681
2437	56	R05608E	105	8.51	-30.4135	28.6682
2438	56	R05608E	105.2	8.51	-30.4119	28.6691
2439	56	R05608E	105.4	8.51	-30.4103	28.6702
2440	56	R05608E	105.6	8.51	-30.4088	28.6712
2441	56	R05608E	105.8	8.51	-30.4072	28.6723
2442	56	R05608E	106	8.51	-30.4056	28.6734
2443	56	R05608E	106.2	8.51	-30.4041	28.6744
2444	56	R05608E	106.4	8.51	-30.4023	28.6747
2445	56	R05608E	106.6	8.51	-30.4005	28.6748
2446	56	R05608E	106.8	8.51	-30.3987	28.6752
2447	56	R05608E	107	8.51	-30.3970	28.6758
2448	56	R05608E	107.2	8.51	-30.3952	28.6763
2449	56	R05608E	107.4	8.51	-30.3935	28.6768
2450	56	R05608E	107.6	8.51	-30.3919	28.6770
2451	56	R05608E	107.8	8.51	-30.3899	28.6771
2452	56	R05608E	108	8.51	-30.3883	28.6779
2453	56	R05608E	108.2	8.51	-30.3868	28.6792
2454	56	R05608E	108.4	8.51	-30.3854	28.6805
2455	56	R05608E	108.6	8.51	-30.3840	28.6817
2456	56	R05608E	108.8	8.51	-30.3823	28.6825
2457	56	R05608E	109	8.51	-30.3808	28.6821
2458	56	R05608E	109.2	8.51	-30.3788	28.6815
2459	56	R05608E	109.4	8.51	-30.3771	28.6810

2460	56	R05608E	109.6	8.51	-30.3753	28.6805
2461	56	R05608E	109.8	8.51	-30.3736	28.6800
2462	56	R05608E	110	8.51	-30.3718	28.6801
2463	56	R05608E	110.2	8.51	-30.3700	28.6801
2464	56	R05608E	110.4	8.51	-30.3683	28.6793
2465	56	R05608E	110.6	8.51	-30.3669	28.6784
2466	56	R05608E	110.8	8.51	-30.3651	28.6775
2467	56	R05608E	111	8.51	-30.3634	28.6766
2468	56	R05608E	111.2	8.51	-30.3618	28.6757
2469	56	R05608E	111.4	8.51	-30.3602	28.6748
2470	56	R05608E	111.6	8.51	-30.3586	28.6738
2471	56	R05608E	111.8	8.51	-30.3569	28.6729
2472	56	R05608E	112	8.51	-30.3553	28.6720
2473	56	R05608E	112.2	8.51	-30.3537	28.6710
2474	56	R05608E	112.4	8.51	-30.3520	28.6704
2475	56	R05608E	112.6	8.51	-30.3502	28.6701
2476	56	R05608E	112.8	8.51	-30.3484	28.6702
2477	56	R05608E	113	8.51	-30.3466	28.6704
2478	56	R05608E	113.2	8.51	-30.3448	28.6704
2479	56	R05608E	113.4	8.51	-30.3430	28.6701
2480	56	R05608E	113.6	8.51	-30.3413	28.6707
2481	56	R05608E	113.8	8.51	-30.3404	28.6725
2482	56	R05608E	114	8.51	-30.3398	28.6744
2483	56	R05608E	114.2	8.51	-30.3392	28.6764
2484	56	R05608E	114.4	8.51	-30.3385	28.6783
2485	56	R05608E	114.6	8.51	-30.3378	28.6802
2486	56	R05608E	114.8	8.51	-30.3366	28.6818
2487	56	R05608E	115	8.51	-30.3354	28.6834
2488	56	R05608E	115.2	8.51	-30.3342	28.6849

2489	56	R05608E	115.4	8.51	-30.3330	28.6865
2490	56	R05608E	115.6	8.51	-30.3318	28.6880
2491	56	R05608E	115.8	8.51	-30.3306	28.6896
2492	56	R05608E	116	8.51	-30.3294	28.6912
2493	56	R05608E	116.2	8.51	-30.3285	28.6929
2494	56	R05608E	116.4	8.51	-30.3278	28.6949
2495	56	R05608E	116.6	8.51	-30.3272	28.6968
2496	56	R05608E	116.8	8.51	-30.3265	28.6987
2497	56	R05608E	117	8.51	-30.3259	28.7007
2498	56	R05608E	117.2	8.51	-30.3254	28.7027
2499	56	R05608E	117.4	8.51	-30.3249	28.7047
2500	56	R05608E	117.6	8.51	-30.3241	28.7065
2501	56	R05608E	117.8	8.51	-30.3233	28.7084
2502	56	R05608E	118	8.51	-30.3227	28.7103
2503	56	R05608E	118.2	8.51	-30.3220	28.7123
2504	56	R05608E	118.4	8.51	-30.3214	28.7142
2505	56	R05608E	118.6	8.51	-30.3207	28.7162
2506	56	R05608E	118.8	8.51	-30.3197	28.7179
2507	56	R05608E	119	8.51	-30.3187	28.7196
2508	56	R05608E	119.2	8.51	-30.3175	28.7212
2509	56	R05608E	119.4	8.51	-30.3160	28.7223
2510	56	R05608E	119.6	8.51	-30.3144	28.7233
2511	56	R05608E	119.8	8.51	-30.3134	28.7248
2512	56	R05608E	120	8.51	-30.3125	28.7268
2513	56	R05608E	120.2	8.51	-30.3124	28.7288
2514	56	R05608E	120.4	8.51	-30.3128	28.7308
2515	56	R05608E	120.6	8.51	-30.3132	28.7328
2516	56	R05608E	120.8	8.51	-30.3137	28.7348
2517	56	R05608E	121	8.51	-30.3141	28.7368

2518	56	R05608E	121.2	8.51	-30.3145	28.7389
2519	56	R05608E	121.4	8.51	-30.3149	28.7409
2520	56	R05608E	121.6	8.51	-30.3153	28.7429
2521	56	R05608E	121.8	8.51	-30.3157	28.7450
2522	56	R05608E	122	8.51	-30.3163	28.7469
2523	56	R05608E	122.2	8.51	-30.3173	28.7486
2524	56	R05608E	122.4	8.51	-30.3183	28.7504
2525	56	R05608E	122.6	8.51	-30.3193	28.7521
2526	56	R05608E	122.8	8.51	-30.3201	28.7540
2527	56	R05608E	123	8.51	-30.3207	28.7559
2528	56	R05608E	123.2	8.51	-30.3212	28.7579
2529	56	R05608E	123.4	8.51	-30.3215	28.7600
2530	56	R05608E	123.6	8.51	-30.3218	28.7621
2531	56	R05608E	123.8	8.51	-30.3223	28.7640
2532	56	R05608E	124	8.51	-30.3231	28.7659
2533	56	R05608E	124.2	8.51	-30.3239	28.7678
2534	56	R05608E	124.4	8.51	-30.3249	28.7696
2535	56	R05608E	124.6	8.51	-30.3256	28.7715
2536	56	R05608E	124.8	8.51	-30.3263	28.7734
2537	56	R05608E	125	8.51	-30.3266	28.7754
2538	56	R05608E	125.2	8.51	-30.3267	28.7776
2539	56	R05608E	125.4	8.51	-30.3272	28.7795
2540	56	R05608E	125.6	8.51	-30.3283	28.7811
2541	56	R05608E	125.8	8.51	-30.3294	28.7827
2542	56	R05608E	126	8.51	-30.3309	28.7841
2543	56	R05608E	126.2	8.51	-30.3320	28.7856
2544	56	R05608E	126.4	8.51	-30.3330	28.7873
2545	56	R05608E	126.6	8.51	-30.3341	28.7890
2546	56	R05608E	126.8	8.51	-30.3351	28.7907

2547	56	R05608E	127	8.51	-30.3361	28.7924
2548	56	R05608E	127.2	8.51	-30.3372	28.7941
2549	56	R05608E	127.4	8.51	-30.3382	28.7958
2550	56	R05608E	127.6	8.51	-30.3393	28.7975
2551	56	R05608E	127.6	8.56	-30.3393	28.7975
2552	56	R05608E	127.8	8.56	-30.3407	28.7988
2553	56	R05608E	128	8.56	-30.3414	28.8007
2554	56	R05608E	128.2	8.56	-30.3419	28.8027
2555	56	R05608E	128.4	8.56	-30.3424	28.8047
2556	56	R05608E	128.6	8.56	-30.3430	28.8068
2557	56	R05608E	128.8	8.56	-30.3435	28.8087
2558	56	R05608E	129	8.56	-30.3441	28.8107
2559	56	R05608E	129.2	8.56	-30.3446	28.8126
2560	56	R05608E	129.4	8.56	-30.3452	28.8146
2561	56	R05608E	129.6	8.56	-30.3457	28.8166
2562	56	R05608E	129.8	8.56	-30.3463	28.8186
2563	56	R05608E	130	8.56	-30.3468	28.8206
2564	56	R05608E	130.2	8.56	-30.3473	28.8226
2565	56	R05608E	130.4	8.56	-30.3479	28.8246
2566	56	R05608E	130.6	8.56	-30.3485	28.8265
2567	56	R05608E	130.8	8.56	-30.3490	28.8285
2568	56	R05608E	131	8.56	-30.3495	28.8305
2569	56	R05608E	131.2	8.56	-30.3500	28.8326
2570	56	R05608E	131.4	8.56	-30.3506	28.8345
2571	56	R05608E	131.6	8.56	-30.3512	28.8365
2572	56	R05608E	131.8	8.56	-30.3516	28.8385
2573	56	R05608E	132	8.56	-30.3521	28.8405
2574	56	R05608E	132.2	8.56	-30.3524	28.8426
2575	56	R05608E	132.4	8.56	-30.3525	28.8446

2576	56	R05608E	132.6	8.56	-30.3527	28.8467
2577	56	R05608E	132.8	8.56	-30.3529	28.8488
2578	56	R05608E	133	8.56	-30.3530	28.8510
2579	56	R05608E	133.2	8.56	-30.3532	28.8529
2580	56	R05608E	133.4	8.56	-30.3533	28.8551
2581	56	R05608E	133.6	8.56	-30.3534	28.8571
2582	56	R05608E	133.8	8.56	-30.3534	28.8592
2583	56	R05608E	134	8.56	-30.3536	28.8613
2584	56	R05608E	134.2	8.56	-30.3538	28.8633
2585	56	R05608E	134.4	8.56	-30.3540	28.8654
2586	56	R05608E	134.6	8.56	-30.3544	28.8675
2587	56	R05608E	134.8	8.56	-30.3544	28.8695
2588	56	R05608E	135	8.56	-30.3547	28.8716
2589	56	R05608E	135.2	8.56	-30.3555	28.8735
2590	56	R05608E	135.4	8.56	-30.3561	28.8754
2591	56	R05608E	135.6	8.56	-30.3569	28.8773
2592	56	R05608E	135.8	8.56	-30.3578	28.8791
2593	56	R05608E	136	8.56	-30.3586	28.8810
2594	56	R05608E	136.2	8.56	-30.3594	28.8828
2595	56	R05608E	136.4	8.56	-30.3603	28.8847
2596	56	R05608E	136.6	8.56	-30.3611	28.8865
2597	56	R05608E	136.8	8.56	-30.3619	28.8884
2598	56	R05608E	137	8.56	-30.3627	28.8902
2599	56	R05608E	137.2	8.56	-30.3636	28.8921
2600	56	R05608E	137.4	8.56	-30.3644	28.8939
2601	56	R05608E	137.6	8.56	-30.3652	28.8958
2602	56	R05608E	137.8	8.56	-30.3661	28.8976
2603	56	R05608E	138	8.56	-30.3669	28.8995
2604	56	R05608E	138.2	8.56	-30.3677	28.9013

2605	56	R05608E	138.4	8.56	-30.3685	28.9032
2606	56	R05608E	138.6	8.56	-30.3693	28.9051
2607	56	R05608E	138.8	8.56	-30.3700	28.9070
2608	56	R05608E	139	8.56	-30.3707	28.9089
2609	56	R05608E	139.2	8.56	-30.3714	28.9110
2610	56	R05608E	139.4	8.56	-30.3721	28.9125
2611	56	R05608E	139.6	8.56	-30.3728	28.9147
2612	56	R05608E	139.8	8.56	-30.3735	28.9166
2613	56	R05608E	140	8.56	-30.3742	28.9185
2614	56	R05608E	140.2	8.56	-30.3750	28.9204
2615	56	R05608E	140.4	8.56	-30.3759	28.9222
2616	56	R05608E	140.6	8.56	-30.3769	28.9241
2617	56	R05608E	140.8	8.56	-30.3779	28.9257
2618	56	R05608E	141	8.56	-30.3789	28.9274
2619	56	R05608E	141.2	8.56	-30.3799	28.9289
2620	56	R05608E	141.4	8.56	-30.3808	28.9309
2621	56	R05608E	141.6	8.56	-30.3818	28.9327
2622	56	R05608E	141.8	8.56	-30.3823	28.9346
2623	56	R05608E	142	8.56	-30.3830	28.9366
2624	56	R05608E	142.2	8.56	-30.3834	28.9386
2625	56	R05608E	142.4	8.56	-30.3837	28.9407
2626	56	R05608E	142.6	8.56	-30.3840	28.9428
2627	56	R05608E	142.8	8.56	-30.3843	28.9448
2628	56	R05608E	143	8.56	-30.3846	28.9469
2629	56	R05608E	143.2	8.56	-30.3849	28.9491
2630	56	R05608E	143.4	8.56	-30.3852	28.9510
2631	56	R05608E	143.6	8.56	-30.3855	28.9530
2632	56	R05608E	143.8	8.56	-30.3858	28.9551
2633	56	R05608E	144	8.56	-30.3864	28.9571

2634	56	R05608E	144.2	8.56	-30.3864	28.9593
2635	56	R05608E	144.4	8.56	-30.3867	28.9612
2636	56	R05608E	144.6	8.56	-30.3871	28.9633
2637	56	R05608E	144.8	8.56	-30.3874	28.9653
2638	56	R05608E	145	8.56	-30.3876	28.9674
2639	56	R05608E	145.2	8.56	-30.3877	28.9695
2640	56	R05608E	145.4	8.56	-30.3877	28.9716
2641	56	R05608E	145.6	8.56	-30.3877	28.9737
2642	56	R05608E	145.8	8.56	-30.3877	28.9757
2643	56	R05608E	146	8.56	-30.3877	28.9778
2644	56	R05608E	146.2	8.56	-30.3877	28.9799
2645	56	R05608E	146.4	8.56	-30.3877	28.9820
2646	56	R05608E	146.6	8.56	-30.3876	28.9841
2647	56	R05608E	146.8	8.56	-30.3876	28.9862
2648	56	R05608E	147	8.56	-30.3877	28.9883
2649	56	R05608E	147.2	8.56	-30.3877	28.9903
2650	56	R05608E	147.4	8.56	-30.3878	28.9924
2651	56	R05608E	147.6	8.56	-30.3879	28.9945
2652	56	R05608E	147.8	8.56	-30.3880	28.9966
2653	56	R05608E	148	8.56	-30.3881	28.9987
2654	56	R05608E	148.2	8.56	-30.3882	29.0007
2655	56	R05608E	148.4	8.56	-30.3883	29.0028
2656	56	R05608E	148.6	8.56	-30.3884	29.0049
2657	56	R05608E	148.8	8.56	-30.3885	29.0070
2658	56	R05608E	149	8.56	-30.3886	29.0091
2659	56	R05608E	149.2	8.56	-30.3887	29.0112
2660	56	R05608E	149.4	8.56	-30.3888	29.0132
2661	56	R05608E	149.6	8.56	-30.3889	29.0153
2662	56	R05608E	149.8	8.56	-30.3890	29.0174

2663	56	R05608E	150	8.56	-30.3889	29.0195
2664	56	R05608E	150.2	8.56	-30.3885	29.0215
2665	56	R05608E	150.4	8.56	-30.3879	29.0235
2666	56	R05608E	150.6	8.56	-30.3874	29.0254
2667	56	R05608E	150.8	8.56	-30.3866	29.0274
2668	56	R05608E	151	8.56	-30.3860	29.0293
2669	56	R05608E	151.2	8.56	-30.3855	29.0313
2670	56	R05608E	151.4	8.56	-30.3855	29.0334
2671	56	R05608E	151.6	8.56	-30.3862	29.0353
2672	56	R05608E	151.8	8.56	-30.3871	29.0372
2673	56	R05608E	152	8.56	-30.3877	29.0391
2674	56	R05608E	152.2	8.56	-30.3885	29.0410
2675	56	R05608E	152.4	8.56	-30.3893	29.0428
2676	56	R05608E	152.6	8.56	-30.3901	29.0447
2677	56	R05608E	152.8	8.56	-30.3909	29.0466
2678	56	R05608E	153	8.56	-30.3919	29.0483
2679	56	R05608E	153.2	8.56	-30.3929	29.0503
2680	56	R05608E	153.4	8.56	-30.3941	29.0516
2681	56	R05608E	153.6	8.56	-30.3955	29.0529
2682	56	R05608E	153.8	8.56	-30.3970	29.0542
2683	56	R05608E	154	8.56	-30.3984	29.0554
2684	56	R05608E	154.2	8.56	-30.3999	29.0566
2685	56	R05608E	154.4	8.56	-30.4013	29.0579
2686	56	R05608E	154.6	8.56	-30.4025	29.0594
2687	56	R05608E	154.8	8.56	-30.4035	29.0612
2688	56	R05608E	155	8.56	-30.4040	29.0632
2689	56	R05608E	155.2	8.56	-30.4044	29.0652
2690	56	R05608E	155.4	8.56	-30.4050	29.0672
2691	56	R05608E	155.6	8.56	-30.4060	29.0689

2692	56	R05608E	155.8	8.56	-30.4067	29.0707
2693	56	R05608E	156	8.56	-30.4079	29.0725
2694	56	R05608E	156.2	8.56	-30.4087	29.0743
2695	56	R05608E	156.4	8.56	-30.4093	29.0763
2696	56	R05608E	156.6	8.56	-30.4099	29.0783
2697	56	R05608E	156.8	8.56	-30.4101	29.0804
2698	56	R05608E	157	8.56	-30.4105	29.0824
2699	56	R05608E	157.2	8.56	-30.4109	29.0844
2700	56	R05608E	157.4	8.56	-30.4114	29.0865
2701	56	R05608E	157.6	8.56	-30.4118	29.0885
2702	56	R05608E	157.8	8.56	-30.4122	29.0905
2703	56	R05608E	158	8.56	-30.4126	29.0926
2704	56	R05608E	158.2	8.56	-30.4130	29.0946
2705	56	R05608E	158.4	8.56	-30.4134	29.0966
2706	56	R05608E	158.6	8.56	-30.4138	29.0986
2707	56	R05608E	158.8	8.56	-30.4142	29.1007
2708	56	R05608E	159	8.56	-30.4146	29.1027
2709	56	R05608E	159.2	8.56	-30.4150	29.1048
2710	56	R05608E	159.4	8.56	-30.4154	29.1068
2711	56	R05608E	159.6	8.56	-30.4158	29.1088
2712	56	R05608E	159.8	8.56	-30.4162	29.1110
2713	56	R05608E	160	8.56	-30.4166	29.1129
2714	56	R05608E	160.2	8.56	-30.4170	29.1149
2715	56	R05608E	160.4	8.56	-30.4174	29.1167
2716	56	R05608E	160.6	8.56	-30.4180	29.1190
2717	56	R05608E	160.8	8.56	-30.4182	29.1210
2718	56	R05608E	161	8.56	-30.4186	29.1230
2719	56	R05608E	161.2	8.56	-30.4191	29.1250
2720	56	R05608E	161.4	8.56	-30.4199	29.1269

2721	56	R05608E	161.6	8.56	-30.4207	29.1288
2722	56	R05608E	161.8	8.56	-30.4214	29.1307
2723	56	R05608E	162	8.56	-30.4222	29.1326
2724	56	R05608E	162.2	8.56	-30.4230	29.1347
2725	56	R05608E	162.4	8.56	-30.4237	29.1364
2726	56	R05608E	162.6	8.56	-30.4245	29.1382
2727	56	R05608E	162.8	8.56	-30.4253	29.1401
2728	56	R05608E	163	8.56	-30.4261	29.1420
2729	56	R05608E	163.2	8.56	-30.4268	29.1440
2730	56	R05608E	163.4	8.56	-30.4276	29.1458
2731	56	R05608E	163.6	8.56	-30.4284	29.1477
2732	56	R05608E	163.8	8.56	-30.4291	29.1496
2733	56	R05608E	164	8.56	-30.4299	29.1514
2734	56	R05608E	164.2	8.56	-30.4307	29.1533
2735	56	R05608E	164.4	8.56	-30.4315	29.1552
2736	56	R05608E	164.6	8.56	-30.4322	29.1571
2737	56	R05608E	164.8	8.56	-30.4330	29.1590
2738	56	R05608E	165	8.56	-30.4338	29.1609
2739	56	R05608E	165.2	8.56	-30.4345	29.1628
2740	56	R05608E	165.4	8.56	-30.4353	29.1646
2741	56	R05608E	165.6	8.56	-30.4361	29.1665
2742	56	R05608E	165.8	8.56	-30.4368	29.1684
2743	56	R05608E	166	8.56	-30.4376	29.1705
2744	56	R05608E	166.2	8.56	-30.4384	29.1722
2745	56	R05608E	166.4	8.56	-30.4392	29.1741
2746	56	R05608E	166.6	8.56	-30.4399	29.1760
2747	56	R05608E	166.8	8.56	-30.4407	29.1778
2748	56	R05608E	167	8.56	-30.4413	29.1798
2749	56	R05608E	167.2	8.56	-30.4417	29.1819

2750	56	R05608E	167.4	8.56	-30.4420	29.1840
2751	56	R05608E	167.6	8.56	-30.4423	29.1859
2752	56	R05608E	167.8	8.56	-30.4427	29.1880
2753	56	R05608E	168	8.56	-30.4430	29.1900
2754	56	R05608E	168.2	8.56	-30.4434	29.1921
2755	56	R05608E	168.4	8.56	-30.4437	29.1941
2756	56	R05608E	168.6	8.56	-30.4440	29.1962

B. N2

OBJECT ID	ROAD_ID1	ROAD_ID	KM_DIST	Road Width (m)	Latitude Decimal Degrees	Longitude Decimal Degrees
1	N002	N00215E	0	6.94	-32.8803	27.3518
2	N002	N00215E	0.2	6.94	-32.8794	27.3536
3	N002	N00215E	0.4	6.94	-32.8793	27.3557
4	N002	N00215E	0.6	6.94	-32.8791	27.3578
5	N002	N00215E	0.8	6.94	-32.8790	27.3600
6	N002	N00215E	1	6.94	-32.8783	27.3619
7	N002	N00215E	1.2	6.94	-32.8774	27.3638
8	N002	N00215E	1.4	6.94	-32.8767	27.3657
9	N002	N00215E	1.6	6.94	-32.8765	27.3678
10	N002	N00215E	1.8	6.94	-32.8769	27.3699
11	N002	N00215E	2	6.94	-32.8776	27.3719
12	N002	N00215E	2.2	6.94	-32.8783	27.3738
13	N002	N00215E	2.4	6.94	-32.8790	27.3758
14	N002	N00215E	2.6	6.94	-32.8797	27.3778
15	N002	N00215E	2.8	6.94	-32.8804	27.3798
16	N002	N00215E	3	6.94	-32.8806	27.3819
17	N002	N00215E	3.2	6.94	-32.8800	27.3839

18	N002	N00215E	3.4	6.94	-32.8792	27.3858
19	N002	N00215E	3.6	6.94	-32.8802	27.3873
20	N002	N00215E	3.8	6.94	-32.8817	27.3884
21	N002	N00215E	4	6.94	-32.8833	27.3895
22	N002	N00215E	4.2	6.94	-32.8848	27.3905
23	N002	N00215E	4.4	6.94	-32.8856	27.3919
24	N002	N00215E	4.6	6.94	-32.8847	27.3937
25	N002	N00215E	4.8	6.94	-32.8838	27.3956
26	N002	N00215E	5	6.94	-32.8851	27.3968
27	N002	N00215E	5.2	6.94	-32.8867	27.3979
28	N002	N00215E	5.4	6.94	-32.8883	27.3990
29	N002	N00215E	5.6	6.94	-32.8897	27.4004
30	N002	N00215E	5.8	6.94	-32.8906	27.4021
31	N002	N00215E	6	6.94	-32.8911	27.4042
32	N002	N00215E	6.2	6.94	-32.8911	27.4063
33	N002	N00215E	6.4	6.94	-32.8909	27.4084
34	N002	N00215E	6.6	6.94	-32.8907	27.4105
35	N002	N00215E	6.8	6.94	-32.8905	27.4127
36	N002	N00215E	7	6.94	-32.8903	27.4148
37	N002	N00215E	7.2	6.94	-32.8901	27.4169
38	N002	N00215E	7.4	6.94	-32.8899	27.4190
39	N002	N00215E	7.6	6.94	-32.8897	27.4211
40	N002	N00215E	7.8	6.94	-32.8895	27.4233
41	N002	N00215E	8	6.94	-32.8893	27.4254
42	N002	N00215E	8.2	6.94	-32.8891	27.4276
43	N002	N00215E	8.4	6.94	-32.8890	27.4296
44	N002	N00215E	8.6	6.94	-32.8887	27.4318
45	N002	N00215E	8.8	6.94	-32.8885	27.4339
46	N002	N00215E	9	6.94	-32.8887	27.4360
47	N002	N00215E	9.2	6.94	-32.8895	27.4379

48	N002	N00215E	9.4	6.94	-32.8908	27.4394
49	N002	N00215E	9.6	6.94	-32.8923	27.4405
50	N002	N00215E	9.8	6.94	-32.8938	27.4417
51	N002	N00215E	10	6.94	-32.8953	27.4430
52	N002	N00215E	10.2	6.94	-32.8964	27.4445
53	N002	N00215E	10.4	6.94	-32.8971	27.4465
54	N002	N00215E	10.6	6.94	-32.8972	27.4488
55	N002	N00215E	10.8	6.94	-32.8967	27.4507
56	N002	N00215E	11	6.94	-32.8959	27.4526
57	N002	N00215E	11.2	6.94	-32.8950	27.4546
58	N002	N00215E	11.4	6.94	-32.8942	27.4564
59	N002	N00215E	11.6	6.94	-32.8935	27.4583
60	N002	N00215E	11.8	6.94	-32.8930	27.4603
61	N002	N00215E	12	6.94	-32.8926	27.4624
62	N002	N00215E	12.2	6.94	-32.8923	27.4645
63	N002	N00215E	12.4	6.94	-32.8918	27.4666
64	N002	N00215E	12.6	6.94	-32.8910	27.4685
65	N002	N00215E	12.8	6.94	-32.8899	27.4702
66	N002	N00215E	13	6.94	-32.8888	27.4719
67	N002	N00215E	13.2	6.94	-32.8877	27.4735
68	N002	N00215E	13.4	6.94	-32.8865	27.4752
69	N002	N00215E	13.6	6.94	-32.8854	27.4768
70	N002	N00215E	13.8	6.94	-32.8844	27.4786
71	N002	N00215E	14	6.94	-32.8837	27.4806
72	N002	N00215E	14.2	6.94	-32.8833	27.4827
73	N002	N00215E	14.4	6.94	-32.8832	27.4848
74	N002	N00215E	14.6	6.94	-32.8831	27.4869
75	N002	N00215E	14.8	6.94	-32.8830	27.4890
76	N002	N00215E	15	6.94	-32.8829	27.4912
77	N002	N00215E	15.2	6.94	-32.8827	27.4933

78	N002	N00215E	15.4	6.94	-32.8826	27.4954
79	N002	N00215E	15.6	6.94	-32.8825	27.4976
80	N002	N00215E	15.8	6.94	-32.8824	27.4997
81	N002	N00215E	16	6.94	-32.8823	27.5018
82	N002	N00215E	16.2	6.94	-32.8821	27.5040
83	N002	N00215E	16.4	6.94	-32.8820	27.5061
84	N002	N00215E	16.6	6.94	-32.8819	27.5082
85	N002	N00215E	16.8	6.94	-32.8818	27.5104
86	N002	N00215E	17	6.94	-32.8817	27.5125
87	N002	N00215E	17.2	6.94	-32.8816	27.5146
88	N002	N00215E	17.4	6.94	-32.8816	27.5168
89	N002	N00215E	17.6	6.94	-32.8816	27.5191
90	N002	N00215E	17.8	6.94	-32.8816	27.5211
91	N002	N00215E	18	6.94	-32.8816	27.5232
92	N002	N00215E	18.2	6.94	-32.8816	27.5253
93	N002	N00215E	18.4	6.94	-32.8816	27.5275
94	N002	N00215E	18.6	6.94	-32.8815	27.5296
95	N002	N00215E	18.8	6.94	-32.8815	27.5317
96	N002	N00215E	19	6.94	-32.8815	27.5339
97	N002	N00215E	19.2	6.94	-32.8815	27.5360
98	N002	N00215E	19.4	6.94	-32.8815	27.5381
99	N002	N00215E	19.6	6.94	-32.8815	27.5403
100	N002	N00215E	19.8	6.94	-32.8815	27.5424
101	N002	N00215E	20	6.94	-32.8815	27.5446
102	N002	N00215E	20.2	6.94	-32.8815	27.5469
103	N002	N00215E	20.4	6.94	-32.8815	27.5488
104	N002	N00215E	20.6	6.94	-32.8814	27.5510
105	N002	N00215E	20.8	6.94	-32.8814	27.5531
106	N002	N00215E	21	6.94	-32.8812	27.5552
107	N002	N00215E	21.2	6.94	-32.8807	27.5573

108	N002	N00215E	21.4	6.94	-32.8800	27.5592
109	N002	N00215E	21.6	6.94	-32.8792	27.5612
110	N002	N00215E	21.8	6.94	-32.8784	27.5631
111	N002	N00215E	22	6.94	-32.8777	27.5652
112	N002	N00215E	22.2	6.94	-32.8769	27.5671
113	N002	N00215E	22.4	6.94	-32.8764	27.5689
114	N002	N00215E	22.6	6.94	-32.8754	27.5708
115	N002	N00215E	22.8	6.94	-32.8746	27.5728
116	N002	N00215E	23	6.94	-32.8741	27.5748
117	N002	N00215E	23.2	6.94	-32.8739	27.5769
118	N002	N00215E	23.4	6.94	-32.8743	27.5790
119	N002	N00215E	23.6	6.94	-32.8747	27.5811
120	N002	N00215E	23.8	6.94	-32.8751	27.5832
121	N002	N00215E	24	6.94	-32.8756	27.5852
122	N002	N00215E	24.2	6.94	-32.8761	27.5873
123	N002	N00215E	24.4	6.94	-32.8765	27.5893
124	N002	N00215E	24.6	6.94	-32.8770	27.5915
125	N002	N00215E	24.8	6.94	-32.8775	27.5935
126	N002	N00215E	25	6.94	-32.8780	27.5955
127	N002	N00215E	25.2	6.94	-32.8784	27.5976
128	N002	N00215E	25.4	6.94	-32.8790	27.5996
129	N002	N00215E	25.6	6.94	-32.8794	27.6017
130	N002	N00215E	25.8	6.94	-32.8799	27.6038
131	N002	N00215E	26	6.94	-32.8803	27.6059
132	N002	N00215E	26.2	6.94	-32.8808	27.6079
133	N002	N00215E	26.4	6.94	-32.8813	27.6100
134	N002	N00215E	26.6	6.94	-32.8817	27.6120
135	N002	N00215E	26.8	6.94	-32.8822	27.6141
136	N002	N00215E	27	6.94	-32.8827	27.6161
137	N002	N00215E	27.2	6.94	-32.8831	27.6182

138	N002	N00215E	27.4	6.94	-32.8837	27.6203
139	N002	N00215E	27.6	6.94	-32.8841	27.6223
140	N002	N00215E	27.8	6.94	-32.8846	27.6244
141	N002	N00215E	28	6.94	-32.8850	27.6265
142	N002	N00215E	28.2	6.94	-32.8855	27.6285
143	N002	N00215E	28.4	6.94	-32.8860	27.6306
144	N002	N00215E	28.6	6.94	-32.8865	27.6326
145	N002	N00215E	28.8	6.94	-32.8869	27.6347
146	N002	N00215E	29	6.94	-32.8874	27.6368
147	N002	N00215E	29.2	6.94	-32.8879	27.6388
148	N002	N00215E	29.4	6.94	-32.8884	27.6409
149	N002	N00215E	29.6	6.94	-32.8888	27.6430
150	N002	N00215E	29.8	6.94	-32.8893	27.6452
151	N002	N00215E	30	6.94	-32.8898	27.6471
152	N002	N00215E	30.2	6.94	-32.8902	27.6491
153	N002	N00215E	30.4	6.94	-32.8910	27.6511
154	N002	N00215E	30.6	6.94	-32.8917	27.6530
155	N002	N00215E	30.8	6.94	-32.8927	27.6549
156	N002	N00215E	31	6.94	-32.8934	27.6568
157	N002	N00215E	31.2	6.94	-32.8942	27.6587
158	N002	N00215E	31.4	6.94	-32.8951	27.6606
159	N002	N00215E	31.6	6.94	-32.8959	27.6625
160	N002	N00215E	31.8	6.94	-32.8967	27.6644
161	N002	N00215E	32	6.94	-32.8976	27.6662
162	N002	N00215E	32.2	6.94	-32.8984	27.6681
163	N002	N00215E	32.4	6.94	-32.8993	27.6702
164	N002	N00215E	32.6	6.94	-32.9001	27.6719
165	N002	N00215E	32.8	6.94	-32.9010	27.6738
166	N002	N00215E	33	6.94	-32.9018	27.6757
167	N002	N00215E	33.2	6.94	-32.9027	27.6776

168	N002	N00215E	33.4	6.94	-32.9035	27.6795
169	N002	N00215E	33.6	6.94	-32.9044	27.6813
170	N002	N00215E	33.8	6.94	-32.9055	27.6830
171	N002	N00215E	34	6.94	-32.9069	27.6844
172	N002	N00215E	34.2	6.94	-32.9085	27.6854
173	N002	N00215E	34.4	6.94	-32.9101	27.6863
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175	N002	N00215E	34.8	6.94	-32.9135	27.6876
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178	N002	N00215E	35.4	6.94	-32.9173	27.6920
179	N002	N00215E	35.6	6.94	-32.9177	27.6941
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183	N002	N00215E	36.4	6.94	-32.9170	27.7026
184	N002	N00215E	36.6	6.94	-32.9168	27.7047
185	N002	N00215E	36.8	6.94	-32.9169	27.7068
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189	N002	N00215E	37.6	6.94	-32.9191	27.7148
190	N002	N00215E	37.8	6.94	-32.9195	27.7169
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192	N002	N00215E	38.2	6.94	-32.9198	27.7211
193	N002	N00215E	38.4	6.94	-32.9196	27.7232
194	N002	N00215E	38.6	6.94	-32.9193	27.7253
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196	N002	N00215E	39	6.94	-32.9187	27.7295
197	N002	N00215E	39.2	6.94	-32.9179	27.7315

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209	N002	N00215E	41.6	6.94	-32.9183	27.7558
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212	N002	N00215E	42.2	6.94	-32.9206	27.7615
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218	N002	N00215E	43.4	6.94	-32.9237	27.7737
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222	N002	N00215E	44.2	6.94	-32.9274	27.7810
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224	N002	N00215E	44.6	6.94	-32.9293	27.7847
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227	N002	N00216E	0.2	4	-32.9333	27.7887

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261	N002	N00216E	7	4	-32.9711	27.8319
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337	N002	N00216E	22	7	-32.9259	27.9643
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339	N002	N00216E	22.2	7.77	-32.9250	27.9661
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343	N002	N00216E	23	7.77	-32.9218	27.9737
344	N002	N00216E	23.2	7.77	-32.9203	27.9752
345	N002	N00216E	23.4	7.77	-32.9191	27.9764
346	N002	N00216E	23.6	7.77	-32.9175	27.9777
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363	N002	N00216E	27	7.77	-32.8929	27.9856
364	N002	N00216E	27.2	7.77	-32.8914	27.9856
365	N002	N00216E	27.4	7.77	-32.8893	27.9855
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394	N002	N00216E	33	7.5	-32.8437	28.0034
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446	N002	N00216E	43.2	10.7	-32.7712	28.0170
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454	N002	N00216E	44.8	10.7	-32.7662	28.0020
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456	N002	N00216E	45.2	10.7	-32.7627	28.0023
457	N002	N00216E	45.4	10.7	-32.7609	28.0028
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460	N002	N00216E	46	10.7	-32.7558	28.0047
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462	N002	N00216E	46.4	10.7	-32.7528	28.0071
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464	N002	N00216E	46.8	10.7	-32.7501	28.0099
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466	N002	N00216E	47.2	10.7	-32.7479	28.0133
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468	N002	N00216E	47.6	10.7	-32.7457	28.0167
469	N002	N00216E	47.8	10.7	-32.7446	28.0184
470	N002	N00216E	48	10.7	-32.7432	28.0199
471	N002	N00216E	48.2	10.7	-32.7415	28.0204
472	N002	N00216E	48.4	10.7	-32.7399	28.0204
473	N002	N00216E	48.6	10.7	-32.7380	28.0202
474	N002	N00216E	48.8	10.7	-32.7362	28.0200
475	N002	N00216E	49	10.7	-32.7344	28.0200
476	N002	N00216E	49.2	10.7	-32.7326	28.0204
477	N002	N00216E	49.4	10.7	-32.7309	28.0211
478	N002	N00216E	49.6	10.7	-32.7293	28.0221
479	N002	N00216E	49.8	10.7	-32.7279	28.0234
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481	N002	N00216E	50	7.5	-32.7267	28.0250
482	N002	N00216E	50.2	7.5	-32.7255	28.0266
483	N002	N00216E	50.4	7.5	-32.7242	28.0280
484	N002	N00216E	50.6	7.5	-32.7224	28.0286
485	N002	N00216E	50.8	7.5	-32.7206	28.0287
486	N002	N00216E	51	7.5	-32.7188	28.0289
487	N002	N00216E	51.2	7.5	-32.7170	28.0290
488	N002	N00216E	51.4	7.5	-32.7152	28.0294
489	N002	N00216E	51.6	7.5	-32.7135	28.0293
490	N002	N00216E	51.8	7.5	-32.7117	28.0295
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500	N002	N00216E	53.8	7.5	-32.6968	28.0202
501	N002	N00216E	54	7.5	-32.6950	28.0205
502	N002	N00216E	54.2	7.5	-32.6932	28.0209
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504	N002	N00216E	54.6	7.5	-32.6896	28.0213
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522	N002	N00216E	58.2	7.5	-32.6746	27.9961
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525	N002	N00216E	58.8	7.5	-32.6697	27.9933
526	N002	N00216E	59	7.5	-32.6679	27.9927
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530	N002	N00216E	59.8	7.5	-32.6615	27.9891
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533	N002	N00216E	60.4	7.5	-32.6587	27.9837
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535	N002	N00216E	60.8	7.5	-32.6569	27.9801
536	N002	N00216E	61	7.5	-32.6558	27.9783
537	N002	N00216E	61.2	7.5	-32.6546	27.9767
538	N002	N00216E	61.4	7.5	-32.6533	27.9753
539	N002	N00216E	61.6	7.5	-32.6519	27.9739
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541	N002	N00216E	62	7.5	-32.6489	27.9715
542	N002	N00216E	62.2	7.5	-32.6474	27.9703
543	N002	N00216E	62.4	7.5	-32.6459	27.9691
544	N002	N00216E	62.6	7.5	-32.6444	27.9679
545	N002	N00216E	62.8	7.5	-32.6429	27.9667
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547	N002	N00216E	63.2	7.5	-32.6399	27.9644
548	N002	N00216E	63.4	7.5	-32.6384	27.9632
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550	N002	N00216E	63.8	7.5	-32.6354	27.9608
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552	N002	N00216E	64.2	7.5	-32.6325	27.9584
553	N002	N00216E	64.4	7.5	-32.6310	27.9572
554	N002	N00216E	64.6	7.5	-32.6295	27.9560
555	N002	N00216E	64.8	7.5	-32.6280	27.9548
556	N002	N00216E	65	7.5	-32.6265	27.9536
557	N002	N00216E	65.2	7.5	-32.6250	27.9525

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562	N002	N00216E	66.2	7.5	-32.6170	27.9476
563	N002	N00216E	66.4	7.5	-32.6152	27.9470
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566	N002	N00216E	67	7.5	-32.6099	27.9479
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568	N002	N00216E	67.4	7.5	-32.6064	27.9490
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579	N002	N00216E	69.6	7.5	-32.5869	27.9515
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586	N002	N00216E	71	7.5	-32.5754	27.9574
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606	N002	N00216E	75	7.5	-32.5489	27.9635
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616	N002	N00216E	77	7.5	-32.5330	27.9698
617	N002	N00216E	77.2	7.5	-32.5316	27.9710

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619	N002	N00216E	77.6	7.5	-32.5280	27.9716
620	N002	N00216E	77.8	7.5	-32.5265	27.9727
621	N002	N00216E	78	7.5	-32.5250	27.9737
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623	N002	N00216E	78.4	7.5	-32.5224	27.9763
624	N002	N00216E	78.6	7.5	-32.5215	27.9783
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628	N002	N00216E	79.4	7.5	-32.5169	27.9793
629	N002	N00216E	79.6	7.5	-32.5153	27.9791
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641	N002	N00217E	1.2	8	-32.4987	27.9842
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646	N002	N00217E	2.2	8	-32.4934	27.9924
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687	N002	N00217E	10.2	8	-32.4429	27.9955
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724	N002	N00217E	17.2	11	-32.3876	27.9954
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727	N002	N00217E	17.8	11	-32.3831	27.9988
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732	N002	N00217E	18.8	11	-32.3760	28.0052
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1028	N002	N00218E	8.6	4	-32.0291	28.3459
1029	N002	N00218E	8.8	4	-32.0280	28.3476
1030	N002	N00218E	9	4	-32.0269	28.3492
1031	N002	N00218E	9.2	4	-32.0258	28.3509
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1034	N002	N00218E	9.8	4	-32.0218	28.3550
1035	N002	N00218E	10	4	-32.0202	28.3553
1036	N002	N00218E	10.2	4	-32.0182	28.3556
1037	N002	N00218E	10.4	4	-32.0164	28.3559

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1042	N002	N00218E	11.4	4	-32.0077	28.3542
1043	N002	N00218E	11.6	4	-32.0059	28.3548
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1045	N002	N00218E	12	4	-32.0025	28.3559
1046	N002	N00218E	12.2	4	-32.0008	28.3566
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1051	N002	N00218E	13.2	4	-31.9936	28.3627
1052	N002	N00218E	13.4	4	-31.9918	28.3625
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1065	N002	N00218E	16	4	-31.9709	28.3510
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1082	N002	N00218E	19.4	4	-31.9489	28.3661
1083	N002	N00218E	19.6	4	-31.9492	28.3682
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1085	N002	N00218E	20	4	-31.9499	28.3724
1086	N002	N00218E	20.2	4	-31.9503	28.3745
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1090	N002	N00218E	21	4	-31.9483	28.3825
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1109	N002	N00218E	24.6	7.61	-31.9458	28.4201
1110	N002	N00218E	24.8	7.61	-31.9452	28.4220
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1112	N002	N00218E	25.2	7.61	-31.9433	28.4257
1113	N002	N00218E	25.4	7.61	-31.9421	28.4271
1114	N002	N00218E	25.6	7.61	-31.9411	28.4287
1115	N002	N00218E	25.8	7.61	-31.9393	28.4297
1116	N002	N00218E	26	7.61	-31.9376	28.4303
1117	N002	N00218E	26.2	7.61	-31.9361	28.4316
1118	N002	N00218E	26.4	7.61	-31.9344	28.4323
1119	N002	N00218E	26.6	7.61	-31.9327	28.4327
1120	N002	N00218E	26.8	7.61	-31.9309	28.4331
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1132	N002	N00218E	29	7.43	-31.9191	28.4487
1133	N002	N00218E	29.2	7.43	-31.9176	28.4498
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1135	N002	N00218E	29.6	7.43	-31.9166	28.4536
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1138	N002	N00218E	30.2	7.43	-31.9165	28.4599
1139	N002	N00218E	30.4	7.43	-31.9164	28.4621
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1146	N002	N00218E	31.8	7.43	-31.9066	28.4660
1147	N002	N00218E	32	7.43	-31.9057	28.4679
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1152	N002	N00218E	33	7.43	-31.8974	28.4698
1153	N002	N00218E	33.2	7.43	-31.8956	28.4694
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1157	N002	N00218E	34	7.43	-31.8893	28.4731

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1160	N002	N00218E	34.6	7.43	-31.8860	28.4781
1161	N002	N00218E	34.8	7.43	-31.8849	28.4798
1162	N002	N00218E	35	7.43	-31.8838	28.4814
1163	N002	N00218E	35.2	7.43	-31.8829	28.4833
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1167	N002	N00218E	36	7.43	-31.8818	28.4916
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1170	N002	N00218E	36.6	7.43	-31.8795	28.4971
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1172	N002	N00218E	37	7.43	-31.8764	28.4993
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1182	N002	N00218E	39	7.43	-31.8659	28.5135
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1185	N002	N00218E	39.6	7.43	-31.8609	28.5140
1186	N002	N00218E	39.8	7.43	-31.8594	28.5151
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1193	N002	N00218E	41	10.22	-31.8493	28.5183
1194	N002	N00218E	41.2	10.22	-31.8483	28.5203
1195	N002	N00218E	41.4	10.22	-31.8471	28.5216
1196	N002	N00218E	41.6	10.22	-31.8459	28.5232
1197	N002	N00218E	41.8	10.22	-31.8451	28.5251
1198	N002	N00218E	42	10.22	-31.8443	28.5271
1199	N002	N00218E	42.2	10.22	-31.8434	28.5288
1200	N002	N00218E	42.4	10.22	-31.8423	28.5305
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1202	N002	N00218E	42.8	10.22	-31.8398	28.5335
1203	N002	N00218E	43	10.22	-31.8394	28.5355
1204	N002	N00218E	43.2	10.22	-31.8393	28.5377
1205	N002	N00218E	43.4	10.22	-31.8396	28.5397
1206	N002	N00218E	43.6	10.22	-31.8403	28.5417
1207	N002	N00218E	43.8	10.22	-31.8401	28.5437
1208	N002	N00218E	44	10.22	-31.8390	28.5454
1209	N002	N00218E	44.2	10.22	-31.8377	28.5468
1210	N002	N00218E	44.4	10.22	-31.8359	28.5471
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1214	N002	N00218E	45.2	10.22	-31.8334	28.5541
1215	N002	N00218E	45.4	10.22	-31.8337	28.5562
1216	N002	N00218E	45.6	10.22	-31.8340	28.5583
1217	N002	N00218E	45.8	10.22	-31.8344	28.5604

1218	N002	N00218E	46	10.22	-31.8343	28.5625
1219	N002	N00218E	46.2	10.22	-31.8333	28.5642
1220	N002	N00218E	46.4	10.22	-31.8319	28.5650
1221	N002	N00218E	46.6	10.22	-31.8299	28.5654
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1225	N002	N00218E	47.4	10.22	-31.8232	28.5681
1226	N002	N00218E	47.6	10.22	-31.8219	28.5696
1227	N002	N00218E	47.8	10.22	-31.8209	28.5713
1228	N002	N00218E	48	10.22	-31.8201	28.5732
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1240	N002	N00218E	50.4	10.22	-31.8090	28.5946
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1245	N002	N00218E	51.4	10.22	-31.8055	28.6040
1246	N002	N00218E	51.6	10.22	-31.8051	28.6060
1247	N002	N00218E	51.8	10.22	-31.8048	28.6081

1248	N002	N00218E	52	10.22	-31.8046	28.6102
1249	N002	N00218E	52.2	10.22	-31.8041	28.6123
1250	N002	N00218E	52.4	10.22	-31.8038	28.6143
1251	N002	N00218E	52.6	10.22	-31.8031	28.6162
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1260	N002	N00218E	54.4	10.22	-31.7874	28.6155
1261	N002	N00218E	54.6	10.22	-31.7860	28.6168
1262	N002	N00218E	54.8	10.22	-31.7846	28.6181
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1265	N002	N00218E	55.4	10.22	-31.7799	28.6198
1266	N002	N00218E	55.6	10.22	-31.7780	28.6202
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1268	N002	N00218E	56	10.22	-31.7748	28.6221
1269	N002	N00218E	56.2	10.22	-31.7731	28.6229
1270	N002	N00218E	56.4	10.22	-31.7715	28.6241
1271	N002	N00218E	56.6	10.22	-31.7701	28.6254
1272	N002	N00218E	56.8	10.22	-31.7691	28.6270
1273	N002	N00218E	57	10.22	-31.7684	28.6289
1274	N002	N00218E	57.2	10.22	-31.7678	28.6309
1275	N002	N00218E	57.4	10.22	-31.7674	28.6330
1276	N002	N00218E	57.6	10.22	-31.7668	28.6350
1277	N002	N00218E	57.8	10.22	-31.7659	28.6371

1278	N002	N00218E	58	10.22	-31.7657	28.6390
1279	N002	N00218E	58.2	10.22	-31.7655	28.6411
1280	N002	N00218E	58.4	10.22	-31.7646	28.6430
1281	N002	N00218E	58.6	10.22	-31.7637	28.6448
1282	N002	N00218E	58.8	10.22	-31.7625	28.6464
1283	N002	N00218E	59	10.22	-31.7612	28.6478
1284	N002	N00218E	59.2	10.22	-31.7598	28.6492
1285	N002	N00218E	59.4	10.22	-31.7585	28.6506
1286	N002	N00218E	59.6	10.22	-31.7571	28.6521
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1288	N002	N00218E	60	10.22	-31.7544	28.6549
1289	N002	N00218E	60.2	10.22	-31.7531	28.6563
1290	N002	N00218E	60.4	10.22	-31.7517	28.6577
1291	N002	N00218E	60.6	10.22	-31.7504	28.6591
1292	N002	N00218E	60.8	10.22	-31.7490	28.6605
1293	N002	N00218E	61	10.22	-31.7477	28.6619
1294	N002	N00218E	61.2	10.22	-31.7463	28.6633
1295	N002	N00218E	61.4	10.22	-31.7451	28.6649
1296	N002	N00218E	61.6	10.22	-31.7440	28.6665
1297	N002	N00218E	61.8	10.22	-31.7429	28.6682
1298	N002	N00218E	62	10.22	-31.7417	28.6698
1299	N002	N00218E	62.2	10.22	-31.7406	28.6714
1300	N002	N00218E	62.4	10.22	-31.7392	28.6728
1301	N002	N00218E	62.6	10.22	-31.7377	28.6739
1302	N002	N00218E	62.8	10.22	-31.7362	28.6751
1303	N002	N00218E	63	10.22	-31.7354	28.6770
1304	N002	N00218E	63.2	10.22	-31.7350	28.6791
1305	N002	N00218E	63.4	10.22	-31.7345	28.6811
1306	N002	N00218E	63.6	10.22	-31.7334	28.6827
1307	N002	N00218E	63.8	10.22	-31.7320	28.6840

1308	N002	N00218E	64	10.22	-31.7303	28.6848
1309	N002	N00218E	64.2	10.22	-31.7287	28.6857
1310	N002	N00218E	64.4	10.22	-31.7270	28.6866
1311	N002	N00218E	64.6	10.22	-31.7254	28.6874
1312	N002	N00218E	64.8	10.22	-31.7237	28.6883
1313	N002	N00218E	65	10.22	-31.7221	28.6893
1314	N002	N00218E	65.2	10.22	-31.7207	28.6904
1315	N002	N00218E	65.4	10.22	-31.7190	28.6914
1316	N002	N00218E	65.6	10.22	-31.7174	28.6925
1317	N002	N00218E	65.8	10.22	-31.7159	28.6935
1318	N002	N00218E	66	10.22	-31.7143	28.6946
1319	N002	N00218E	66.2	10.22	-31.7127	28.6956
1320	N002	N00218E	66.4	10.22	-31.7112	28.6967
1321	N002	N00218E	66.6	10.22	-31.7096	28.6977
1322	N002	N00218E	66.8	10.22	-31.7080	28.6987
1323	N002	N00218E	67	10.22	-31.7065	28.6998
1324	N002	N00218E	67.2	10.22	-31.7049	28.7008
1325	N002	N00218E	67.4	10.22	-31.7033	28.7019
1326	N002	N00218E	67.6	10.22	-31.7017	28.7029
1327	N002	N00218E	67.8	10.22	-31.7002	28.7039
1328	N002	N00218E	68	10.22	-31.6985	28.7046
1329	N002	N00218E	68.2	10.22	-31.6968	28.7047
1330	N002	N00218E	68.4	10.22	-31.6949	28.7041
1331	N002	N00218E	68.6	10.22	-31.6932	28.7035
1332	N002	N00218E	68.8	10.22	-31.6914	28.7033
1333	N002	N00218E	69	10.22	-31.6897	28.7038
1334	N002	N00218E	69.2	10.22	-31.6880	28.7047
1335	N002	N00218E	69.4	10.22	-31.6863	28.7052
1336	N002	N00218E	69.6	10.22	-31.6846	28.7059
1337	N002	N00218E	69.8	10.22	-31.6829	28.7066

1338	N002	N00218E	70	10.22	-31.6812	28.7073
1339	N002	N00218E	70.2	10.22	-31.6794	28.7075
1340	N002	N00218E	70.4	10.22	-31.6776	28.7076
1341	N002	N00218E	70.6	10.22	-31.6759	28.7082
1342	N002	N00218E	70.8	10.22	-31.6743	28.7092
1343	N002	N00218E	71	10.22	-31.6725	28.7096
1344	N002	N00218E	71.2	10.22	-31.6707	28.7096
1345	N002	N00218E	71.4	10.22	-31.6690	28.7102
1346	N002	N00218E	71.6	10.22	-31.6675	28.7112
1347	N002	N00218E	71.8	10.22	-31.6662	28.7126
1348	N002	N00218E	72	10.22	-31.6647	28.7138
1349	N002	N00218E	72.2	10.22	-31.6630	28.7146
1350	N002	N00218E	72.4	10.22	-31.6613	28.7151
1351	N002	N00218E	72.6	10.22	-31.6597	28.7152
1352	N002	N00218E	72.8	10.22	-31.6577	28.7152
1353	N002	N00218E	73	10.22	-31.6561	28.7152
1354	N002	N00218E	73	7.44	-31.6561	28.7152
1355	N002	N00218E	73.2	7.44	-31.6541	28.7153
1356	N002	N00218E	73.4	7.44	-31.6524	28.7161
1357	N002	N00218E	73.6	7.44	-31.6512	28.7177
1358	N002	N00218E	73.8	7.44	-31.6502	28.7194
1359	N002	N00218E	74	7.44	-31.6486	28.7205
1360	N002	N00218E	74.2	7.44	-31.6469	28.7208
1361	N002	N00218E	74.4	7.44	-31.6451	28.7205
1362	N002	N00218E	74.6	7.44	-31.6433	28.7203
1363	N002	N00218E	74.8	7.44	-31.6415	28.7203
1364	N002	N00218E	75	7.44	-31.6399	28.7213
1365	N002	N00218E	75.2	7.44	-31.6385	28.7226
1366	N002	N00218E	75.4	7.44	-31.6370	28.7239
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1368	N002	N00218E	75.8	7.44	-31.6343	28.7265
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1371	N002	N00218E	76.4	7.44	-31.6290	28.7281
1372	N002	N00218E	76.6	7.44	-31.6273	28.7288
1373	N002	N00218E	76.8	7.44	-31.6257	28.7298
1374	N002	N00218E	77	7.44	-31.6242	28.7309
1375	N002	N00218E	77.2	7.44	-31.6226	28.7319
1376	N002	N00218E	77.4	7.44	-31.6209	28.7326
1377	N002	N00218E	77.6	7.44	-31.6191	28.7330
1378	N002	N00218E	77.8	7.44	-31.6174	28.7335
1379	N002	N00218E	78	7.44	-31.6156	28.7340
1380	N002	N00218E	78.2	7.44	-31.6136	28.7346
1381	N002	N00218E	78.4	7.44	-31.6123	28.7357
1382	N002	N00218E	78.6	7.44	-31.6110	28.7371
1383	N002	N00218E	78.8	7.44	-31.6096	28.7384
1384	N002	N00218E	79	7.44	-31.6082	28.7398
1385	N002	N00218E	79.2	7.44	-31.6069	28.7412
1386	N002	N00218E	79.2	11.76	-31.6069	28.7412
1387	N002	N00218E	79.4	11.76	-31.6055	28.7426
1388	N002	N00218E	79.6	11.76	-31.6041	28.7439
1389	N002	N00218E	79.8	11.76	-31.6027	28.7455
1390	N002	N00218E	80	11.76	-31.6011	28.7460
1391	N002	N00218E	80.2	11.76	-31.5993	28.7462
1392	N002	N00218E	80.4	11.76	-31.5977	28.7475
1393	N002	N00218E	80.6	11.76	-31.5966	28.7491
1394	N002	N00218E	80.8	11.76	-31.5958	28.7506
1395	N002	N00218E	81	11.76	-31.5946	28.7524
1396	N002	N00218E	81.2	11.76	-31.5939	28.7543
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1398	N002	N00218E	81.6	11.76	-31.5943	28.7586
1399	N002	N00218E	81.8	11.76	-31.5940	28.7606
1400	N002	N00218E	82	11.76	-31.5937	28.7627
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1402	N002	N00218E	82.4	11.76	-31.5931	28.7668
1403	N002	N00218E	82.6	11.76	-31.5930	28.7688
1404	N002	N00218E	82.8	11.76	-31.5931	28.7709
1405	N002	N00218E	83	11.76	-31.5933	28.7730
1406	N002	N00218E	83.2	11.76	-31.5935	28.7751
1407	N002	N00218E	83.4	11.76	-31.5925	28.7768
1408	N002	N00218E	83.6	11.76	-31.5925	28.7789
1409	N002	N00218E	83.8	11.76	-31.5926	28.7810
1410	N002	N00218E	84	11.76	-31.5926	28.7831
1411	N002	N00218E	84.2	11.76	-31.5927	28.7852
1412	N002	N00218E	84.4	11.76	-31.5928	28.7874
1413	N002	N00218E	84.6	11.76	-31.5928	28.7896
1414	N002	N00218E	84.8	11.76	-31.5913	28.7899
1415	N002	N00218E	85	11.76	-31.5895	28.7901
1416	N002	N00219EX	0	6.7	-31.5883	28.7900
1417	N002	N00219EX	0.2	6.7	-31.5865	28.7901
1418	N002	N00219EX	0.4	6.7	-31.5848	28.7909
1419	N002	N00219EX	0.6	6.7	-31.5831	28.7913
1420	N002	N00219EX	0.8	6.7	-31.5813	28.7912
1421	N002	N00219EX	1	6.7	-31.5795	28.7913
1422	N002	N00219EX	1.2	6.7	-31.5777	28.7914
1423	N002	N00219EX	1.4	6.7	-31.5759	28.7915
1424	N002	N00219EX	1.6	6.7	-31.5741	28.7916
1425	N002	N00219EX	1.8	6.7	-31.5724	28.7924
1426	N002	N00219EX	2	6.7	-31.5710	28.7935
1427	N002	N00219EX	2.2	6.7	-31.5694	28.7947

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1429	N002	N00219EX	2.6	6.7	-31.5659	28.7961
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1431	N002	N00219EX	3	6.7	-31.5624	28.7970
1432	N002	N00219EX	3.2	6.7	-31.5607	28.7977
1433	N002	N00219EX	3.4	6.7	-31.5590	28.7984
1434	N002	N00219EX	3.6	6.7	-31.5573	28.7991
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1437	N002	N00219EX	4.2	6.7	-31.5526	28.8019
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1440	N002	N00219EX	4.8	6.7	-31.5507	28.8078
1441	N002	N00219EX	5	6.7	-31.5501	28.8098
1442	N002	N00219EX	5.2	6.7	-31.5496	28.8118
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1447	N002	N00219EX	6.2	6.7	-31.5446	28.8202
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1449	N002	N00219EX	6.6	6.7	-31.5422	28.8233
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1455	N002	N00219EX	7.8	6.7	-31.5336	28.8305
1456	N002	N00219EX	8	6.7	-31.5322	28.8319
1457	N002	N00219EX	8.2	6.7	-31.5306	28.8327

1458	N002	N00219EX	8.4	6.7	-31.5288	28.8333
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1460	N002	N00219EX	8.8	6.7	-31.5254	28.8336
1461	N002	N00219EX	9	6.7	-31.5235	28.8336
1462	N002	N00219EX	9.2	6.7	-31.5217	28.8336
1463	N002	N00219EX	9.4	6.7	-31.5201	28.8345
1464	N002	N00219EX	9.6	6.7	-31.5190	28.8361
1465	N002	N00219EX	9.8	6.7	-31.5183	28.8381
1466	N002	N00219EX	10	6.7	-31.5181	28.8402
1467	N002	N00219EX	10.2	6.7	-31.5183	28.8423
1468	N002	N00219EX	10.4	6.7	-31.5185	28.8444
1469	N002	N00219EX	10.6	6.7	-31.5186	28.8465
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1472	N002	N00219EX	11.2	6.7	-31.5177	28.8527
1473	N002	N00219EX	11.4	6.7	-31.5172	28.8547
1474	N002	N00219EX	11.6	6.7	-31.5167	28.8567
1475	N002	N00219EX	11.8	6.7	-31.5158	28.8585
1476	N002	N00219EX	12	6.7	-31.5144	28.8599
1477	N002	N00219EX	12.2	6.7	-31.5128	28.8609
1478	N002	N00219EX	12.4	6.7	-31.5112	28.8617
1479	N002	N00219EX	12.6	6.7	-31.5094	28.8621
1480	N002	N00219EX	12.8	6.7	-31.5076	28.8623
1481	N002	N00219EX	13	6.7	-31.5058	28.8625
1482	N002	N00219EX	13.2	6.7	-31.5040	28.8627
1483	N002	N00219EX	13.4	6.7	-31.5022	28.8628
1484	N002	N00219EX	13.6	6.7	-31.5004	28.8630
1485	N002	N00219EX	13.8	6.7	-31.4987	28.8632
1486	N002	N00219EX	14	6.7	-31.4968	28.8634
1487	N002	N00219EX	14.2	6.7	-31.4952	28.8636

1488	N002	N00219EX	14.4	6.7	-31.4932	28.8638
1489	N002	N00219EX	14.6	6.7	-31.4914	28.8640
1490	N002	N00219EX	14.8	6.7	-31.4896	28.8640
1491	N002	N00219EX	15	6.7	-31.4880	28.8632
1492	N002	N00219EX	15.2	6.7	-31.4863	28.8624
1493	N002	N00219EX	15.4	6.7	-31.4846	28.8615
1494	N002	N00219EX	15.6	6.7	-31.4830	28.8607
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1497	N002	N00219EX	16.2	6.7	-31.4779	28.8585
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1501	N002	N00219EX	17	6.7	-31.4707	28.8580
1502	N002	N00219EX	17.2	6.7	-31.4689	28.8579
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1504	N002	N00219EX	17.4	6.41	-31.4671	28.8578
1505	N002	N00219EX	17.6	6.41	-31.4653	28.8575
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1507	N002	N00219EX	18	6.41	-31.4618	28.8567
1508	N002	N00219EX	18.2	6.41	-31.4602	28.8569
1509	N002	N00219EX	18.4	6.41	-31.4582	28.8566
1510	N002	N00219EX	18.6	6.41	-31.4564	28.8566
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1512	N002	N00219EX	19	6.41	-31.4530	28.8574
1513	N002	N00219EX	19.2	6.41	-31.4512	28.8571
1514	N002	N00219EX	19.4	6.41	-31.4495	28.8565
1515	N002	N00219EX	19.6	6.41	-31.4477	28.8566
1516	N002	N00219EX	19.8	6.41	-31.4459	28.8574
1517	N002	N00219EX	20	6.41	-31.4442	28.8579

1518	N002	N00219EX	20.2	6.41	-31.4426	28.8586
1519	N002	N00219EX	20.4	6.41	-31.4407	28.8587
1520	N002	N00219EX	20.6	6.41	-31.4391	28.8587
1521	N002	N00219EX	20.8	6.41	-31.4371	28.8586
1522	N002	N00219EX	21	6.41	-31.4355	28.8588
1523	N002	N00219EX	21.2	6.41	-31.4335	28.8590
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1525	N002	N00219EX	21.6	6.41	-31.4300	28.8600
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1527	N002	N00219EX	22	6.41	-31.4265	28.8611
1528	N002	N00219EX	22.2	6.41	-31.4248	28.8616
1529	N002	N00219EX	22.4	6.41	-31.4230	28.8622
1530	N002	N00219EX	22.6	6.41	-31.4212	28.8623
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1532	N002	N00219EX	23	6.41	-31.4177	28.8615
1533	N002	N00219EX	23.2	6.41	-31.4160	28.8609
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1537	N002	N00219EX	24	6.41	-31.4100	28.8564
1538	N002	N00219EX	24.2	6.41	-31.4085	28.8550
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1540	N002	N00219EX	24.6	6.41	-31.4057	28.8524
1541	N002	N00219EX	24.8	6.41	-31.4044	28.8510
1542	N002	N00219EX	25	6.41	-31.4032	28.8494
1543	N002	N00219EX	25.2	6.41	-31.4023	28.8476
1544	N002	N00219EX	25.4	6.41	-31.4015	28.8457
1545	N002	N00219EX	25.6	6.41	-31.4008	28.8438
1546	N002	N00219EX	25.8	6.41	-31.3999	28.8419
1547	N002	N00219EX	25.8	9.5	-31.3999	28.8419

1548	N002	N00219EX	26	9.5	-31.3988	28.8402
1549	N002	N00219EX	26.2	9.5	-31.3975	28.8388
1550	N002	N00219EX	26.4	9.5	-31.3961	28.8375
1551	N002	N00219EX	26.6	9.5	-31.3947	28.8362
1552	N002	N00219EX	26.8	9.5	-31.3932	28.8349
1553	N002	N00219EX	27	9.5	-31.3918	28.8337
1554	N002	N00219EX	27.2	9.5	-31.3904	28.8324
1555	N002	N00219EX	27.4	9.5	-31.3888	28.8314
1556	N002	N00219EX	27.6	9.5	-31.3871	28.8308
1557	N002	N00219EX	27.8	9.5	-31.3853	28.8305
1558	N002	N00219EX	28	9.5	-31.3835	28.8300
1559	N002	N00219EX	28.2	9.5	-31.3822	28.8290
1560	N002	N00219EX	28.4	9.5	-31.3808	28.8273
1561	N002	N00219EX	28.6	9.5	-31.3802	28.8254
1562	N002	N00219EX	28.8	9.5	-31.3803	28.8233
1563	N002	N00219EX	29	9.5	-31.3807	28.8212
1564	N002	N00219EX	29.2	9.5	-31.3808	28.8191
1565	N002	N00219EX	29.4	9.5	-31.3807	28.8170
1566	N002	N00219EX	29.6	9.5	-31.3806	28.8149
1567	N002	N00219EX	29.8	9.5	-31.3805	28.8128
1568	N002	N00219EX	30	9.5	-31.3799	28.8109
1569	N002	N00219EX	30.2	9.5	-31.3791	28.8090
1570	N002	N00219EX	30.4	9.5	-31.3776	28.8083
1571	N002	N00219EX	30.6	9.5	-31.3759	28.8087
1572	N002	N00219EX	30.8	9.5	-31.3744	28.8095
1573	N002	N00219EX	31	9.5	-31.3725	28.8102
1574	N002	N00219EX	31.2	9.5	-31.3707	28.8097
1575	N002	N00219EX	31.4	9.5	-31.3690	28.8094
1576	N002	N00219EX	31.6	9.5	-31.3671	28.8097
1577	N002	N00219EX	31.8	9.5	-31.3654	28.8101

1578	N002	N00219EX	32	9.5	-31.3636	28.8102
1579	N002	N00219EX	32.2	9.5	-31.3618	28.8100
1580	N002	N00219EX	32.4	9.5	-31.3600	28.8100
1581	N002	N00219EX	32.6	9.5	-31.3582	28.8097
1582	N002	N00219EX	32.8	9.5	-31.3564	28.8100
1583	N002	N00219EX	33	9.5	-31.3546	28.8105
1584	N002	N00219EX	33.2	9.5	-31.3529	28.8110
1585	N002	N00219EX	33.4	9.5	-31.3511	28.8113
1586	N002	N00219EX	33.6	9.5	-31.3493	28.8112
1587	N002	N00219EX	33.8	9.5	-31.3476	28.8109
1588	N002	N00219EX	34	9.5	-31.3457	28.8104
1589	N002	N00219EX	34.2	9.5	-31.3440	28.8100
1590	N002	N00219EX	34.4	9.5	-31.3422	28.8096
1591	N002	N00219EX	34.6	9.5	-31.3404	28.8092
1592	N002	N00219EX	34.8	9.5	-31.3387	28.8089
1593	N002	N00219EX	35	9.5	-31.3369	28.8084
1594	N002	N00219EX	35.2	9.5	-31.3351	28.8080
1595	N002	N00219EX	35.4	9.5	-31.3333	28.8077
1596	N002	N00219EX	35.6	9.5	-31.3316	28.8073
1597	N002	N00219EX	35.8	9.5	-31.3298	28.8070
1598	N002	N00219EX	36	9.5	-31.3280	28.8067
1599	N002	N00219EX	36.2	9.5	-31.3262	28.8063
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1601	N002	N00219EX	36.6	9.5	-31.3226	28.8057
1602	N002	N00219EX	36.8	9.5	-31.3209	28.8053
1603	N002	N00219EX	37	9.5	-31.3191	28.8047
1604	N002	N00219EX	37.2	9.5	-31.3175	28.8037
1605	N002	N00219EX	37.4	9.5	-31.3161	28.8025
1606	N002	N00219EX	37.6	9.5	-31.3147	28.8012
1607	N002	N00219EX	37.8	9.5	-31.3132	28.7999

1608	N002	N00219EX	38	9.5	-31.3115	28.7991
1609	N002	N00219EX	38.2	9.5	-31.3098	28.7989
1610	N002	N00219EX	38.4	9.5	-31.3080	28.7988
1611	N002	N00219EX	38.6	9.5	-31.3062	28.7991
1612	N002	N00219EX	38.8	9.5	-31.3044	28.7993
1613	N002	N00219EX	39	9.5	-31.3027	28.7987
1614	N002	N00219EX	39.2	9.5	-31.3009	28.7984
1615	N002	N00219EX	39.4	9.5	-31.2991	28.7986
1616	N002	N00219EX	39.6	9.5	-31.2974	28.7994
1617	N002	N00219EX	39.8	9.5	-31.2960	28.8007
1618	N002	N00219EX	40	9.5	-31.2946	28.8020
1619	N002	N00219EX	40.2	9.5	-31.2932	28.8035
1620	N002	N00219EX	40.4	9.5	-31.2918	28.8047
1621	N002	N00219EX	40.6	9.5	-31.2904	28.8060
1622	N002	N00219EX	40.8	9.5	-31.2891	28.8074
1623	N002	N00219EX	41	9.5	-31.2877	28.8087
1624	N002	N00219EX	41.2	9.5	-31.2862	28.8098
1625	N002	N00219EX	41.4	9.5	-31.2844	28.8102
1626	N002	N00219EX	41.6	9.5	-31.2826	28.8098
1627	N002	N00219EX	41.8	9.5	-31.2808	28.8095
1628	N002	N00219EX	42	9.5	-31.2790	28.8096
1629	N002	N00219EX	42.2	9.5	-31.2773	28.8104
1630	N002	N00219EX	42.4	9.5	-31.2758	28.8115
1631	N002	N00219EX	42.6	9.5	-31.2744	28.8130
1632	N002	N00219EX	42.8	9.5	-31.2730	28.8141
1633	N002	N00219EX	43	9.5	-31.2716	28.8154
1634	N002	N00219EX	43.2	9.5	-31.2701	28.8168
1635	N002	N00219EX	43.4	9.5	-31.2687	28.8180
1636	N002	N00219EX	43.6	9.5	-31.2673	28.8193
1637	N002	N00219EX	43.8	9.5	-31.2659	28.8206

1638	N002	N00219EX	44	9.5	-31.2642	28.8218
1639	N002	N00219EX	44.2	9.5	-31.2630	28.8231
1640	N002	N00219EX	44.4	9.5	-31.2616	28.8244
1641	N002	N00219EX	44.6	9.5	-31.2602	28.8257
1642	N002	N00219EX	44.8	9.5	-31.2587	28.8270
1643	N002	N00219EX	45	9.5	-31.2573	28.8283
1644	N002	N00219EX	45.2	9.5	-31.2559	28.8296
1645	N002	N00219EX	45.4	9.5	-31.2546	28.8309
1646	N002	N00219EX	45.6	9.5	-31.2530	28.8322
1647	N002	N00219EX	45.8	9.5	-31.2516	28.8334
1648	N002	N00219EX	46	9.5	-31.2502	28.8348
1649	N002	N00219EX	46.2	9.5	-31.2486	28.8362
1650	N002	N00219EX	46.4	9.5	-31.2476	28.8376
1651	N002	N00219EX	46.6	9.5	-31.2462	28.8391
1652	N002	N00219EX	46.8	9.5	-31.2448	28.8403
1653	N002	N00219EX	47	9.5	-31.2433	28.8415
1654	N002	N00219EX	47.2	9.5	-31.2421	28.8430
1655	N002	N00219EX	47.4	9.5	-31.2409	28.8446
1656	N002	N00219EX	47.6	9.5	-31.2397	28.8462
1657	N002	N00219EX	47.8	9.5	-31.2383	28.8477
1658	N002	N00219EX	48	9.5	-31.2368	28.8487
1659	N002	N00219EX	48.2	9.5	-31.2352	28.8496
1660	N002	N00219EX	48.4	9.5	-31.2334	28.8494
1661	N002	N00219EX	48.6	9.5	-31.2320	28.8482
1662	N002	N00219EX	48.8	9.5	-31.2306	28.8469
1663	N002	N00219EX	49	9.5	-31.2289	28.8461
1664	N002	N00219EX	49.2	9.5	-31.2271	28.8462
1665	N002	N00219EX	49.4	9.5	-31.2253	28.8465
1666	N002	N00219EX	49.6	9.5	-31.2239	28.8460
1667	N002	N00219EX	49.8	9.5	-31.2222	28.8449

1668	N002	N00219EX	50	9.5	-31.2204	28.8444
1669	N002	N00219EX	50.2	9.5	-31.2187	28.8451
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1671	N002	N00219EX	50.6	9.5	-31.2164	28.8483
1672	N002	N00219EX	50.8	9.5	-31.2154	28.8500
1673	N002	N00219EX	51	9.5	-31.2143	28.8517
1674	N002	N00219EX	51.2	9.5	-31.2132	28.8533
1675	N002	N00219EX	51.4	9.5	-31.2117	28.8546
1676	N002	N00219EX	51.6	9.5	-31.2101	28.8555
1677	N002	N00219EX	51.8	9.5	-31.2085	28.8565
1678	N002	N00219EX	52	9.5	-31.2069	28.8574
1679	N002	N00219EX	52.2	9.5	-31.2052	28.8582
1680	N002	N00219EX	52.4	9.5	-31.2035	28.8587
1681	N002	N00219EX	52.6	9.5	-31.2018	28.8590
1682	N002	N00219EX	52.8	9.5	-31.1999	28.8595
1683	N002	N00219EX	53	9.5	-31.1982	28.8601
1684	N002	N00219EX	53.2	9.5	-31.1967	28.8612
1685	N002	N00219EX	53.4	9.5	-31.1954	28.8626
1686	N002	N00219EX	53.6	9.5	-31.1940	28.8641
1687	N002	N00219EX	53.8	9.5	-31.1929	28.8656
1688	N002	N00219EX	54	9.5	-31.1919	28.8674
1689	N002	N00219EX	54.2	9.5	-31.1912	28.8694
1690	N002	N00219EX	54.4	9.5	-31.1906	28.8713
1691	N002	N00219EX	54.6	9.5	-31.1901	28.8734
1692	N002	N00219EX	54.8	9.5	-31.1895	28.8753
1693	N002	N00219EX	55	9.5	-31.1889	28.8773
1694	N002	N00219EX	55.2	9.5	-31.1879	28.8791
1695	N002	N00219EX	55.4	9.5	-31.1863	28.8802
1696	N002	N00219EX	55.6	9.5	-31.1846	28.8801
1697	N002	N00219EX	55.8	9.5	-31.1829	28.8793

1698	N002	N00219EX	56	9.5	-31.1815	28.8780
1699	N002	N00219EX	56.2	9.5	-31.1800	28.8767
1700	N002	N00219EX	56.4	9.5	-31.1785	28.8755
1701	N002	N00219EX	56.6	9.5	-31.1770	28.8743
1702	N002	N00219EX	56.8	9.5	-31.1758	28.8731
1703	N002	N00219EX	57	9.5	-31.1741	28.8719
1704	N002	N00219EX	57.2	9.5	-31.1726	28.8707
1705	N002	N00219EX	57.4	9.5	-31.1712	28.8696
1706	N002	N00219EX	57.6	9.5	-31.1697	28.8682
1707	N002	N00219EX	57.8	9.5	-31.1682	28.8671
1708	N002	N00219EX	58	9.5	-31.1664	28.8667
1709	N002	N00219EX	58.2	9.5	-31.1646	28.8672
1710	N002	N00219EX	58.4	9.5	-31.1629	28.8680
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1714	N002	N00219EX	59	6.41	-31.1577	28.8697
1715	N002	N00219EX	59.2	6.41	-31.1560	28.8696
1716	N002	N00219EX	59.4	6.41	-31.1546	28.8683
1717	N002	N00219EX	59.6	6.41	-31.1533	28.8669
1718	N002	N00219EX	59.8	6.41	-31.1515	28.8669
1719	N002	N00219EX	60	6.41	-31.1498	28.8675
1720	N002	N00219EX	60.2	6.41	-31.1481	28.8681
1721	N002	N00219EX	60.4	6.41	-31.1463	28.8682
1722	N002	N00219EX	60.6	6.41	-31.1445	28.8683
1723	N002	N00219EX	60.8	6.41	-31.1427	28.8686
1724	N002	N00219EX	61	6.41	-31.1409	28.8689
1725	N002	N00219EX	61.2	6.41	-31.1391	28.8694
1726	N002	N00219EX	61.4	6.41	-31.1373	28.8695
1727	N002	N00219EX	61.6	6.41	-31.1355	28.8699

1728	N002	N00219EX	61.8	6.41	-31.1338	28.8702
1729	N002	N00219EX	62	6.41	-31.1320	28.8705
1730	N002	N00219EX	62.2	6.41	-31.1302	28.8710
1731	N002	N00219EX	62.4	6.41	-31.1284	28.8714
1732	N002	N00219EX	62.6	6.41	-31.1267	28.8720
1733	N002	N00219EX	62.8	6.41	-31.1250	28.8726
1734	N002	N00219EX	63	6.41	-31.1233	28.8732
1735	N002	N00219EX	63.2	6.41	-31.1215	28.8736
1736	N002	N00219EX	63.4	6.41	-31.1198	28.8734
1737	N002	N00219EX	63.6	6.41	-31.1181	28.8725
1738	N002	N00219EX	63.8	6.41	-31.1166	28.8714
1739	N002	N00219EX	64	6.41	-31.1152	28.8704
1740	N002	N00219EX	64.2	6.41	-31.1135	28.8692
1741	N002	N00219EX	64.4	6.41	-31.1119	28.8681
1742	N002	N00219EX	64.6	6.41	-31.1104	28.8670
1743	N002	N00219EX	64.8	6.41	-31.1088	28.8660
1744	N002	N00219EX	65	6.41	-31.1072	28.8652
1745	N002	N00219EX	65.2	6.41	-31.1054	28.8651
1746	N002	N00219EX	65.4	6.41	-31.1036	28.8652
1747	N002	N00219EX	65.6	6.41	-31.1018	28.8653
1748	N002	N00219EX	65.8	6.41	-31.1001	28.8660
1749	N002	N00219EX	66	6.41	-31.0991	28.8677
1750	N002	N00219EX	66.2	6.41	-31.0979	28.8693
1751	N002	N00219EX	66.4	6.41	-31.0966	28.8706
1752	N002	N00219EX	66.6	6.41	-31.0952	28.8720
1753	N002	N00219EX	66.8	6.41	-31.0938	28.8734
1754	N002	N00219EX	67	6.41	-31.0925	28.8748
1755	N002	N00219EX	67.2	6.41	-31.0912	28.8761
1756	N002	N00219EX	67.4	6.41	-31.0898	28.8775
1757	N002	N00219EX	67.6	6.41	-31.0884	28.8788

1758	N002	N00219EX	67.8	6.41	-31.0867	28.8795
1759	N002	N00219EX	68	6.41	-31.0849	28.8800
1760	N002	N00219EX	68.2	6.41	-31.0832	28.8807
1761	N002	N00219EX	68.4	6.41	-31.0816	28.8817
1762	N002	N00219EX	68.6	6.41	-31.0801	28.8829
1763	N002	N00219EX	68.8	6.41	-31.0787	28.8842
1764	N002	N00219EX	69	6.41	-31.0779	28.8860
1765	N002	N00219EX	69.2	6.41	-31.0767	28.8876
1766	N002	N00219EX	69.4	6.41	-31.0758	28.8894
1767	N002	N00219EX	69.6	6.41	-31.0749	28.8912
1768	N002	N00219EX	69.8	6.41	-31.0742	28.8932
1769	N002	N00219EX	70	6.41	-31.0735	28.8951
1770	N002	N00219EX	70.2	6.41	-31.0727	28.8969
1771	N002	N00219EX	70.4	6.41	-31.0719	28.8987
1772	N002	N00219EX	70.6	6.41	-31.0702	28.8999
1773	N002	N00219EX	70.8	6.41	-31.0685	28.9005
1774	N002	N00219EX	71	6.41	-31.0668	28.9006
1775	N002	N00219EX	71.2	6.41	-31.0649	28.9008
1776	N002	N00219EX	71.4	6.41	-31.0636	28.8994
1777	N002	N00219EX	71.6	6.41	-31.0625	28.8978
1778	N002	N00219EX	71.8	6.41	-31.0612	28.8962
1779	N002	N00219EX	72	6.41	-31.0596	28.8963
1780	N002	N00219EX	72.2	6.41	-31.0587	28.8981
1781	N002	N00219EX	72.4	6.41	-31.0575	28.8996
1782	N002	N00219EX	72.6	6.41	-31.0561	28.9008
1783	N002	N00219EX	72.8	6.41	-31.0546	28.8998
1784	N002	N00219EX	73	6.41	-31.0534	28.8982
1785	N002	N00219EX	73.2	6.41	-31.0522	28.8968
1786	N002	N00219EX	73.4	6.41	-31.0509	28.8952
1787	N002	N00219EX	73.6	6.41	-31.0497	28.8937

1788	N002	N00219EX	73.6	6.28	-31.0497	28.8937
1789	N002	N00219EX	73.8	6.28	-31.0486	28.8920
1790	N002	N00219EX	74	6.28	-31.0474	28.8904
1791	N002	N00219EX	74.2	6.28	-31.0463	28.8888
1792	N002	N00219EX	74.4	6.28	-31.0452	28.8871
1793	N002	N00219EX	74.6	6.28	-31.0440	28.8855
1794	N002	N00219EX	74.8	6.28	-31.0424	28.8846
1795	N002	N00219EX	75	6.28	-31.0407	28.8849
1796	N002	N00219EX	75.2	6.28	-31.0394	28.8863
1797	N002	N00219EX	75.4	6.28	-31.0384	28.8880
1798	N002	N00219EX	75.6	6.28	-31.0372	28.8896
1799	N002	N00219EX	75.8	6.28	-31.0357	28.8908
1800	N002	N00219EX	76	6.28	-31.0342	28.8920
1801	N002	N00219EX	76.2	6.28	-31.0327	28.8932
1802	N002	N00219EX	76.4	6.28	-31.0311	28.8938
1803	N002	N00219EX	76.6	6.28	-31.0294	28.8931
1804	N002	N00219EX	76.8	6.28	-31.0284	28.8915
1805	N002	N00219EX	77	6.28	-31.0273	28.8899
1806	N002	N00219EX	77.2	6.28	-31.0256	28.8893
1807	N002	N00219EX	77.4	6.28	-31.0239	28.8901
1808	N002	N00219EX	77.6	6.28	-31.0223	28.8910
1809	N002	N00219EX	77.8	6.28	-31.0211	28.8925
1810	N002	N00219EX	78	6.28	-31.0199	28.8940
1811	N002	N00219EX	78.2	6.28	-31.0191	28.8959
1812	N002	N00219EX	78.4	6.28	-31.0183	28.8977
1813	N002	N00219EX	78.6	6.28	-31.0181	28.8998
1814	N002	N00219EX	78.8	6.28	-31.0188	28.9017
1815	N002	N00219EX	79	6.28	-31.0202	28.9030
1816	N002	N00219EX	79.2	6.28	-31.0213	28.9044
1817	N002	N00219EX	79.4	6.28	-31.0201	28.9056

1818	N002	N00219EX	79.6	6.28	-31.0183	28.9055
1819	N002	N00219EX	79.8	6.28	-31.0166	28.9063
1820	N002	N00219EX	80	6.28	-31.0153	28.9076
1821	N002	N00219EX	80.2	6.28	-31.0141	28.9091
1822	N002	N00219EX	80.4	6.28	-31.0129	28.9107
1823	N002	N00219EX	80.6	6.28	-31.0117	28.9123
1824	N002	N00219EX	80.8	6.28	-31.0105	28.9138
1825	N002	N00219EX	81	6.28	-31.0093	28.9154
1826	N002	N00219EX	81.2	6.28	-31.0083	28.9170
1827	N002	N00219EX	81.4	6.28	-31.0069	28.9185
1828	N002	N00219EX	81.6	6.28	-31.0057	28.9201
1829	N002	N00219EX	81.8	6.28	-31.0047	28.9216
1830	N002	N00219EX	82	6.28	-31.0030	28.9228
1831	N002	N00219EX	82.2	6.28	-31.0012	28.9232
1832	N002	N00219EX	82.4	6.28	-30.9995	28.9233
1833	N002	N00219EX	82.6	6.28	-30.9976	28.9234
1834	N002	N00219EX	82.8	6.28	-30.9959	28.9238
1835	N002	N00219EX	83	6.28	-30.9941	28.9241
1836	N002	N00219EX	83.2	6.28	-30.9923	28.9240
1837	N002	N00219EX	83.4	6.28	-30.9905	28.9235
1838	N002	N00219EX	83.6	6.28	-30.9888	28.9230
1839	N002	N00219EX	83.8	6.28	-30.9870	28.9230
1840	N002	N00219EX	84	6.28	-30.9855	28.9238
1841	N002	N00219EX	84.2	6.28	-30.9837	28.9247
1842	N002	N00219EX	84.4	6.28	-30.9821	28.9256
1843	N002	N00219EX	84.6	6.28	-30.9804	28.9265
1844	N002	N00219EX	84.8	6.28	-30.9789	28.9277
1845	N002	N00219EX	85	6.28	-30.9776	28.9291
1846	N002	N00219EX	85.2	6.28	-30.9765	28.9308
1847	N002	N00219EX	85.4	6.28	-30.9757	28.9326

1848	N002	N00219EX	85.6	6.28	-30.9749	28.9346
1849	N002	N00219EX	85.8	6.28	-30.9742	28.9365
1850	N002	N00219EX	86	6.28	-30.9735	28.9384
1851	N002	N00219EX	86.2	6.28	-30.9727	28.9403
1852	N002	N00219EX	86.4	6.28	-30.9717	28.9422
1853	N002	N00219EX	86.6	6.28	-30.9712	28.9441
1854	N002	N00219EX	86.8	6.28	-30.9704	28.9460
1855	N002	N00219EX	87	6.28	-30.9694	28.9477
1856	N002	N00219EX	87.2	6.28	-30.9684	28.9496
1857	N002	N00219EX	87.4	6.28	-30.9674	28.9512
1858	N002	N00219EX	87.6	6.28	-30.9663	28.9529
1859	N002	N00219EX	87.8	6.28	-30.9653	28.9546
1860	N002	N00219EX	88	6.28	-30.9641	28.9562
1861	N002	N00219EX	88.2	6.28	-30.9627	28.9576
1862	N002	N00219EX	88.4	6.28	-30.9612	28.9587
1863	N002	N00219EX	88.6	6.28	-30.9599	28.9599
1864	N002	N00219EX	88.8	6.28	-30.9583	28.9610
1865	N002	N00219EX	89	6.28	-30.9568	28.9622
1866	N002	N00219EX	89.2	6.28	-30.9553	28.9634
1867	N002	N00219EX	89.4	6.28	-30.9538	28.9646
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1869	N002	N00219EX	89.8	6.28	-30.9510	28.9672
1870	N002	N00219EX	90	6.28	-30.9498	28.9688
1871	N002	N00219EX	90.2	6.28	-30.9489	28.9706
1872	N002	N00219EX	90.4	6.28	-30.9480	28.9724
1873	N002	N00219EX	90.6	6.28	-30.9470	28.9742
1874	N002	N00219EX	90.8	6.28	-30.9454	28.9751
1875	N002	N00219EX	91	6.28	-30.9439	28.9752
1876	N002	N00219EX	91.2	6.28	-30.9418	28.9748
1877	N002	N00219EX	91.4	6.28	-30.9400	28.9746

1878	N002	N00219EX	91.6	6.28	-30.9382	28.9745
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1880	N002	N00219EX	92	6.28	-30.9346	28.9742
1881	N002	N00219EX	92.2	6.28	-30.9329	28.9749
1882	N002	N00219EX	92.4	6.28	-30.9314	28.9760
1883	N002	N00219EX	92.6	6.28	-30.9300	28.9773
1884	N002	N00219EX	92.8	6.28	-30.9285	28.9785
1885	N002	N00219EX	93	6.28	-30.9270	28.9798
1886	N002	N00219EX	93.2	6.28	-30.9256	28.9810
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1888	N002	N00219EX	93.6	6.28	-30.9230	28.9838
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1892	N002	N00219EX	94.4	6.28	-30.9219	28.9907
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1895	N002	N00219EX	95	6.28	-30.9175	28.9882
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1898	N002	N00219EX	95.6	6.28	-30.9124	28.9902
1899	N002	N00219EX	95.8	6.28	-30.9107	28.9909
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1901	N002	N00219EX	96.2	6.28	-30.9072	28.9919
1902	N002	N00219EX	96.4	6.28	-30.9054	28.9923
1903	N002	N00219EX	96.6	6.28	-30.9037	28.9929
1904	N002	N00219EX	96.8	6.28	-30.9020	28.9934
1905	N002	N00219EX	97	6.28	-30.9003	28.9941
1906	N002	N00219EX	97.2	6.28	-30.8986	28.9948
1907	N002	N00219EX	97.4	6.28	-30.8970	28.9957

1908	N002	N00219EX	97.6	6.28	-30.8955	28.9966
1909	N002	N00219EX	97.8	6.28	-30.8936	28.9971
1910	N002	N00219EX	98	6.28	-30.8918	28.9970
1911	N002	N00220EX	0	13	-30.8900	28.9969
1912	N002	N00220EX	0.2	13	-30.8883	28.9968
1913	N002	N00220EX	0.4	13	-30.8867	28.9977
1914	N002	N00220EX	0.6	13	-30.8852	28.9989
1915	N002	N00220EX	0.8	13	-30.8837	29.0001
1916	N002	N00220EX	1	13	-30.8823	29.0013
1917	N002	N00220EX	1.2	13	-30.8808	29.0025
1918	N002	N00220EX	1.4	13	-30.8796	29.0040
1919	N002	N00220EX	1.6	13	-30.8787	29.0059
1920	N002	N00220EX	1.8	13	-30.8777	29.0076
1921	N002	N00220EX	2	13	-30.8761	29.0085
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1926	N002	N00220EX	3	13	-30.8682	29.0111
1927	N002	N00220EX	3.2	13	-30.8668	29.0125
1928	N002	N00220EX	3.4	13	-30.8655	29.0139
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1931	N002	N00220EX	4	13	-30.8616	29.0182
1932	N002	N00220EX	4.2	13	-30.8605	29.0199
1933	N002	N00220EX	4.4	13	-30.8598	29.0218
1934	N002	N00220EX	4.6	13	-30.8596	29.0238
1935	N002	N00220EX	4.8	13	-30.8590	29.0259
1936	N002	N00220EX	5	13	-30.8578	29.0274
1937	N002	N00220EX	5.2	13	-30.8562	29.0284

1938	N002	N00220EX	5.4	13	-30.8547	29.0294
1939	N002	N00220EX	5.6	13	-30.8534	29.0309
1940	N002	N00220EX	5.8	13	-30.8527	29.0329
1941	N002	N00220EX	6	13	-30.8527	29.0349
1942	N002	N00220EX	6.2	13	-30.8532	29.0369
1943	N002	N00220EX	6.4	13	-30.8528	29.0389
1944	N002	N00220EX	6.6	13	-30.8517	29.0405
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1946	N002	N00220EX	7	13	-30.8495	29.0438
1947	N002	N00220EX	7.2	13	-30.8484	29.0455
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1953	N002	N00220EX	8.4	13	-30.8504	29.0575
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1955	N002	N00220EX	8.8	13	-30.8516	29.0615
1956	N002	N00220EX	9	13	-30.8516	29.0636
1957	N002	N00220EX	9.2	13	-30.8514	29.0656
1958	N002	N00220EX	9.4	13	-30.8508	29.0676
1959	N002	N00220EX	9.6	13	-30.8501	29.0695
1960	N002	N00220EX	9.8	13	-30.8492	29.0713
1961	N002	N00220EX	10	13	-30.8477	29.0723
1962	N002	N00220EX	10.2	13	-30.8459	29.0728
1963	N002	N00220EX	10.4	13	-30.8444	29.0738
1964	N002	N00220EX	10.6	13	-30.8428	29.0748
1965	N002	N00220EX	10.8	13	-30.8410	29.0748
1966	N002	N00220EX	11	13	-30.8393	29.0755
1967	N002	N00220EX	11.2	13	-30.8382	29.0770

1968	N002	N00220EX	11.4	13	-30.8374	29.0788
1969	N002	N00220EX	11.6	13	-30.8370	29.0810
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1971	N002	N00220EX	12	13	-30.8394	29.0837
1972	N002	N00220EX	12.2	13	-30.8399	29.0858
1973	N002	N00220EX	12.4	13	-30.8411	29.0874
1974	N002	N00220EX	12.6	13	-30.8422	29.0888
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1976	N002	N00220EX	13	13	-30.8455	29.0901
1977	N002	N00220EX	13.2	13	-30.8472	29.0909
1978	N002	N00220EX	13.4	13	-30.8482	29.0925
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1982	N002	N00220EX	14.2	13	-30.8488	29.1010
1983	N002	N00220EX	14.2	8.44	-30.8488	29.1010
1984	N002	N00220EX	14.4	8.44	-30.8486	29.1029
1985	N002	N00220EX	14.6	8.44	-30.8485	29.1050
1986	N002	N00220EX	14.8	8.44	-30.8484	29.1071
1987	N002	N00220EX	15	8.44	-30.8486	29.1092
1988	N002	N00220EX	15.2	8.44	-30.8486	29.1113
1989	N002	N00220EX	15.4	8.44	-30.8490	29.1133
1990	N002	N00220EX	15.6	8.44	-30.8490	29.1154
1991	N002	N00220EX	15.8	8.44	-30.8490	29.1175
1992	N002	N00220EX	16	8.44	-30.8489	29.1196
1993	N002	N00220EX	16.2	8.44	-30.8487	29.1216
1994	N002	N00220EX	16.4	8.44	-30.8477	29.1233
1995	N002	N00220EX	16.6	8.44	-30.8460	29.1241
1996	N002	N00220EX	16.8	8.44	-30.8442	29.1240
1997	N002	N00220EX	17	8.44	-30.8425	29.1238

1998	N002	N00220EX	17.2	8.44	-30.8407	29.1241
1999	N002	N00220EX	17.4	8.44	-30.8392	29.1251
2000	N002	N00220EX	17.6	8.44	-30.8381	29.1267
2001	N002	N00220EX	17.8	8.44	-30.8365	29.1276
2002	N002	N00220EX	18	8.44	-30.8347	29.1277
2003	N002	N00220EX	18.2	8.44	-30.8332	29.1286
2004	N002	N00220EX	18.4	8.44	-30.8318	29.1301
2005	N002	N00220EX	18.6	8.44	-30.8306	29.1316
2006	N002	N00220EX	18.8	8.44	-30.8295	29.1333
2007	N002	N00220EX	19	8.44	-30.8290	29.1353
2008	N002	N00220EX	19.2	8.44	-30.8290	29.1373
2009	N002	N00220EX	19.4	8.44	-30.8294	29.1394
2010	N002	N00220EX	19.6	8.44	-30.8298	29.1416
2011	N002	N00220EX	19.8	8.44	-30.8302	29.1435
2012	N002	N00220EX	20	8.44	-30.8306	29.1455
2013	N002	N00220EX	20.2	8.44	-30.8308	29.1476
2014	N002	N00220EX	20.4	8.44	-30.8302	29.1495
2015	N002	N00220EX	20.6	8.44	-30.8301	29.1516
2016	N002	N00220EX	20.8	8.44	-30.8305	29.1538
2017	N002	N00220EX	21	8.44	-30.8307	29.1557
2018	N002	N00220EX	21.2	8.44	-30.8300	29.1576
2019	N002	N00220EX	21.4	8.44	-30.8285	29.1588
2020	N002	N00220EX	21.6	8.44	-30.8268	29.1595
2021	N002	N00220EX	21.8	8.44	-30.8251	29.1602
2022	N002	N00220EX	22	8.44	-30.8234	29.1609
2023	N002	N00220EX	22.2	8.44	-30.8217	29.1616
2024	N002	N00220EX	22.4	8.44	-30.8202	29.1626
2025	N002	N00220EX	22.6	8.44	-30.8189	29.1641
2026	N002	N00220EX	22.8	8.44	-30.8181	29.1660
2027	N002	N00220EX	23	8.44	-30.8177	29.1680

2028	N002	N00220EX	23.2	8.44	-30.8179	29.1701
2029	N002	N00220EX	23.4	8.44	-30.8184	29.1721
2030	N002	N00220EX	23.6	8.44	-30.8189	29.1741
2031	N002	N00220EX	23.6	8.43	-30.8189	29.1741
2032	N002	N00220EX	23.8	8.43	-30.8193	29.1762
2033	N002	N00220EX	24	8.43	-30.8198	29.1781
2034	N002	N00220EX	24.2	8.43	-30.8197	29.1802
2035	N002	N00220EX	24.4	8.43	-30.8189	29.1821
2036	N002	N00220EX	24.6	8.43	-30.8177	29.1837
2037	N002	N00220EX	24.8	8.43	-30.8166	29.1853
2038	N002	N00220EX	25	8.43	-30.8154	29.1868
2039	N002	N00220EX	25.2	8.43	-30.8142	29.1884
2040	N002	N00220EX	25.4	8.43	-30.8131	29.1902
2041	N002	N00220EX	25.6	8.43	-30.8133	29.1923
2042	N002	N00220EX	25.8	8.43	-30.8135	29.1943
2043	N002	N00220EX	26	8.43	-30.8144	29.1963
2044	N002	N00220EX	26.2	8.43	-30.8155	29.1979
2045	N002	N00220EX	26.4	8.43	-30.8163	29.1997
2046	N002	N00220EX	26.6	8.43	-30.8172	29.2015
2047	N002	N00220EX	26.8	8.43	-30.8179	29.2034
2048	N002	N00220EX	27	8.43	-30.8183	29.2054
2049	N002	N00220EX	27.2	8.43	-30.8186	29.2075
2050	N002	N00220EX	27.4	8.43	-30.8192	29.2095
2051	N002	N00220EX	27.6	8.43	-30.8198	29.2116
2052	N002	N00220EX	27.8	8.43	-30.8204	29.2134
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2054	N002	N00220EX	28.2	8.43	-30.8216	29.2173
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2056	N002	N00220EX	28.6	8.43	-30.8229	29.2212
2057	N002	N00220EX	28.8	8.43	-30.8235	29.2232

2058	N002	N00220EX	29	8.43	-30.8241	29.2252
2059	N002	N00220EX	29.2	8.43	-30.8247	29.2271
2060	N002	N00220EX	29.4	8.43	-30.8252	29.2291
2061	N002	N00220EX	29.6	8.43	-30.8252	29.2312
2062	N002	N00220EX	29.8	8.43	-30.8250	29.2333
2063	N002	N00220EX	30	8.43	-30.8248	29.2354
2064	N002	N00220EX	30.2	8.43	-30.8246	29.2374
2065	N002	N00220EX	30.4	8.43	-30.8242	29.2395
2066	N002	N00220EX	30.6	8.43	-30.8235	29.2414
2067	N002	N00220EX	30.8	8.43	-30.8225	29.2431
2068	N002	N00220EX	31	8.43	-30.8213	29.2446
2069	N002	N00220EX	31.2	8.43	-30.8205	29.2465
2070	N002	N00220EX	31.4	8.43	-30.8207	29.2486
2071	N002	N00220EX	31.6	8.43	-30.8218	29.2502
2072	N002	N00220EX	31.8	8.43	-30.8229	29.2519
2073	N002	N00220EX	32	8.43	-30.8230	29.2541
2074	N002	N00220EX	32.2	8.43	-30.8221	29.2557
2075	N002	N00220EX	32.4	8.43	-30.8212	29.2576
2076	N002	N00220EX	32.6	8.43	-30.8209	29.2596
2077	N002	N00220EX	32.8	8.43	-30.8205	29.2616
2078	N002	N00220EX	33	8.43	-30.8199	29.2636
2079	N002	N00220EX	33.2	8.43	-30.8194	29.2656
2080	N002	N00220EX	33.4	8.43	-30.8186	29.2676
2081	N002	N00220EX	33.6	8.43	-30.8183	29.2695
2082	N002	N00220EX	33.8	8.43	-30.8175	29.2714
2083	N002	N00220EX	34	8.43	-30.8165	29.2732
2084	N002	N00220EX	34.2	8.43	-30.8157	29.2748
2085	N002	N00220EX	34.4	8.43	-30.8154	29.2770
2086	N002	N00220EX	34.6	8.43	-30.8153	29.2791
2087	N002	N00220EX	34.8	8.43	-30.8153	29.2812

2088	N002	N00220EX	35	8.43	-30.8155	29.2833
2089	N002	N00220EX	35.2	8.43	-30.8153	29.2854
2090	N002	N00220EX	35.4	8.43	-30.8153	29.2875
2091	N002	N00220EX	35.6	8.43	-30.8153	29.2896
2092	N002	N00220EX	35.8	8.43	-30.8151	29.2917
2093	N002	N00220EX	36	8.43	-30.8146	29.2937
2094	N002	N00220EX	36.2	8.43	-30.8140	29.2956
2095	N002	N00220EX	36.4	8.43	-30.8137	29.2977
2096	N002	N00220EX	36.6	8.43	-30.8137	29.2999
2097	N002	N00220EX	36.8	8.43	-30.8129	29.3016
2098	N002	N00220EX	37	8.43	-30.8117	29.3031
2099	N002	N00220EX	37.2	8.43	-30.8104	29.3046
2100	N002	N00220EX	37.4	8.43	-30.8096	29.3064
2101	N002	N00220EX	37.6	8.43	-30.8093	29.3085
2102	N002	N00220EX	37.8	8.43	-30.8093	29.3108
2103	N002	N00220EX	38	8.43	-30.8092	29.3127
2104	N002	N00220EX	38.2	8.43	-30.8092	29.3148
2105	N002	N00220EX	38.4	8.43	-30.8092	29.3168
2106	N002	N00220EX	38.6	8.43	-30.8092	29.3189
2107	N002	N00220EX	38.8	8.43	-30.8091	29.3210
2108	N002	N00220EX	39	8.43	-30.8082	29.3229
2109	N002	N00220EX	39	8.61	-30.8082	29.3229
2110	N002	N00220EX	39.2	8.61	-30.8070	29.3245
2111	N002	N00220EX	39.4	8.61	-30.8057	29.3259
2112	N002	N00220EX	39.6	8.61	-30.8047	29.3274
2113	N002	N00220EX	39.8	8.61	-30.8035	29.3290
2114	N002	N00220EX	40	8.61	-30.8025	29.3309
2115	N002	N00220EX	40.2	8.61	-30.8019	29.3328
2116	N002	N00220EX	40.4	8.61	-30.8015	29.3349
2117	N002	N00220EX	40.6	8.61	-30.8015	29.3371

2118	N002	N00220EX	40.8	8.61	-30.8015	29.3391
2119	N002	N00220EX	41	8.61	-30.8016	29.3411
2120	N002	N00220EX	41.2	8.61	-30.8016	29.3432
2121	N002	N00220EX	41.4	8.61	-30.8016	29.3453
2122	N002	N00220EX	41.6	8.61	-30.8018	29.3474
2123	N002	N00220EX	41.8	8.61	-30.8017	29.3495
2124	N002	N00220EX	42	8.61	-30.8018	29.3516
2125	N002	N00220EX	42.2	8.61	-30.8018	29.3537
2126	N002	N00220EX	42.4	8.61	-30.8018	29.3558
2127	N002	N00220EX	42.6	8.61	-30.8015	29.3578
2128	N002	N00220EX	42.8	8.61	-30.8013	29.3599
2129	N002	N00220EX	43	8.61	-30.8008	29.3619
2130	N002	N00220EX	43.2	8.61	-30.8003	29.3641
2131	N002	N00220EX	43.4	8.61	-30.7991	29.3655
2132	N002	N00220EX	43.6	8.61	-30.7974	29.3662
2133	N002	N00220EX	43.8	8.61	-30.7957	29.3668
2134	N002	N00220EX	44	8.61	-30.7940	29.3674
2135	N002	N00220EX	44.2	8.61	-30.7923	29.3679
2136	N002	N00220EX	44.4	8.61	-30.7905	29.3685
2137	N002	N00220EX	44.6	8.61	-30.7888	29.3690
2138	N002	N00220EX	44.8	8.61	-30.7870	29.3696
2139	N002	N00220EX	45	8.61	-30.7854	29.3702
2140	N002	N00220EX	45.2	8.61	-30.7836	29.3708
2141	N002	N00220EX	45.4	8.61	-30.7819	29.3716
2142	N002	N00220EX	45.6	8.61	-30.7805	29.3729
2143	N002	N00220EX	45.8	8.61	-30.7794	29.3745
2144	N002	N00220EX	46	8.61	-30.7781	29.3760
2145	N002	N00220EX	46.2	8.61	-30.7766	29.3771
2146	N002	N00220EX	46.4	8.61	-30.7751	29.3783
2147	N002	N00220EX	46.6	8.61	-30.7736	29.3794

2148	N002	N00220EX	46.8	8.61	-30.7721	29.3807
2149	N002	N00220EX	47	8.61	-30.7706	29.3818
2150	N002	N00220EX	47.2	8.61	-30.7695	29.3834
2151	N002	N00220EX	47.4	8.61	-30.7685	29.3851
2152	N002	N00220EX	47.6	8.61	-30.7675	29.3869
2153	N002	N00220EX	47.8	8.61	-30.7666	29.3887
2154	N002	N00220EX	48	8.61	-30.7659	29.3906
2155	N002	N00220EX	48.2	8.61	-30.7654	29.3926
2156	N002	N00220EX	48.4	8.61	-30.7651	29.3947
2157	N002	N00220EX	48.6	8.61	-30.7651	29.3968
2158	N002	N00220EX	48.8	8.61	-30.7653	29.3988
2159	N002	N00220EX	49	8.61	-30.7655	29.4009
2160	N002	N00220EX	49.2	8.61	-30.7650	29.4029
2161	N002	N00220EX	49.4	8.61	-30.7638	29.4044
2162	N002	N00220EX	49.6	8.61	-30.7627	29.4061
2163	N002	N00220EX	49.8	8.61	-30.7625	29.4081
2164	N002	N00220EX	50	8.61	-30.7623	29.4102
2165	N002	N00220EX	50.2	8.61	-30.7611	29.4118
2166	N002	N00220EX	50.4	8.61	-30.7596	29.4128
2167	N002	N00220EX	50.6	8.61	-30.7580	29.4140
2168	N002	N00220EX	50.8	8.61	-30.7564	29.4150
2169	N002	N00220EX	51	8.61	-30.7549	29.4160
2170	N002	N00220EX	51.2	8.61	-30.7535	29.4171
2171	N002	N00220EX	51.4	8.61	-30.7518	29.4181
2172	N002	N00220EX	51.6	8.61	-30.7503	29.4192
2173	N002	N00220EX	51.8	8.61	-30.7487	29.4203
2174	N002	N00220EX	52	8.61	-30.7472	29.4213
2175	N002	N00220EX	52.2	8.61	-30.7456	29.4224
2176	N002	N00220EX	52.4	8.61	-30.7441	29.4236
2177	N002	N00220EX	52.6	8.61	-30.7427	29.4249

2178	N002	N00220EX	52.8	8.61	-30.7414	29.4263
2179	N002	N00220EX	53	8.61	-30.7401	29.4277
2180	N002	N00220EX	53.2	8.61	-30.7388	29.4292
2181	N002	N00220EX	53.4	8.61	-30.7374	29.4305
2182	N002	N00220EX	53.6	8.61	-30.7356	29.4310
2183	N002	N00220EX	53.8	8.61	-30.7340	29.4304
2184	N002	N00220EX	54	8.61	-30.7325	29.4291
2185	N002	N00220EX	54.2	8.61	-30.7308	29.4287
2186	N002	N00220EX	54.4	8.61	-30.7290	29.4291
2187	N002	N00220EX	54.6	8.61	-30.7272	29.4294
2188	N002	N00220EX	54.8	8.61	-30.7254	29.4298
2189	N002	N00220EX	55	8.61	-30.7237	29.4302
2190	N002	N00220EX	55.2	8.61	-30.7220	29.4309
2191	N002	N00220EX	55.4	8.61	-30.7204	29.4318
2192	N002	N00220EX	55.6	8.61	-30.7188	29.4329
2193	N002	N00220EX	55.8	8.61	-30.7173	29.4340
2194	N002	N00220EX	56	8.61	-30.7158	29.4351
2195	N002	N00220EX	56.2	8.61	-30.7142	29.4362
2196	N002	N00220EX	56.4	8.61	-30.7127	29.4373
2197	N002	N00220EX	56.6	8.61	-30.7111	29.4385
2198	N002	N00220EX	56.8	8.61	-30.7096	29.4394
2199	N002	N00220EX	57	8.61	-30.7078	29.4405
2200	N002	N00220EX	57.2	8.61	-30.7066	29.4414
2201	N002	N00220EX	57.4	8.61	-30.7050	29.4421
2202	N002	N00220EX	57.6	8.61	-30.7031	29.4429
2203	N002	N00220EX	57.8	8.61	-30.7014	29.4437
2204	N002	N00220EX	58	8.61	-30.6998	29.4445
2205	N002	N00220EX	58.2	8.61	-30.6981	29.4453
2206	N002	N00220EX	58.4	8.61	-30.6964	29.4463
2207	N002	N00220EX	58.6	8.61	-30.6948	29.4469

2208	N002	N00220EX	58.8	8.61	-30.6931	29.4477
2209	N002	N00220EX	59	8.61	-30.6915	29.4487
2210	N002	N00220EX	59.2	8.61	-30.6902	29.4499
2211	N002	N00220EX	59.4	8.61	-30.6887	29.4513
2212	N002	N00220EX	59.6	8.61	-30.6875	29.4529
2213	N002	N00220EX	59.8	8.61	-30.6866	29.4546
2214	N002	N00220EX	60	8.61	-30.6856	29.4564
2215	N002	N00220EX	60.2	8.61	-30.6847	29.4582
2216	N002	N00220EX	60.4	8.61	-30.6834	29.4596
2217	N002	N00220EX	60.6	8.61	-30.6817	29.4605
2218	N002	N00220EX	60.8	8.61	-30.6800	29.4608
2219	N002	N00220EX	61	8.61	-30.6782	29.4611
2220	N002	N00220EX	61.2	8.61	-30.6764	29.4614
2221	N002	N00220EX	61.4	8.61	-30.6749	29.4626
2222	N002	N00220EX	61.6	8.61	-30.6742	29.4645
2223	N002	N00220EX	61.8	8.61	-30.6741	29.4665
2224	N002	N00220EX	62	8.61	-30.6736	29.4685
2225	N002	N00220EX	62.2	8.61	-30.6723	29.4700
2226	N002	N00220EX	62.4	8.61	-30.6707	29.4709
2227	N002	N00220EX	62.6	8.61	-30.6690	29.4716
2228	N002	N00220EX	62.8	8.61	-30.6672	29.4718
2229	N002	N00220EX	63	8.61	-30.6654	29.4718
2230	N002	N00220EX	63.2	8.61	-30.6636	29.4721
2231	N002	N00220EX	63.4	8.61	-30.6622	29.4733
2232	N002	N00220EX	63.6	8.61	-30.6607	29.4746
2233	N002	N00220EX	63.8	8.61	-30.6591	29.4753
2234	N002	N00220EX	64	8.61	-30.6574	29.4747
2235	N002	N00220EX	64.2	8.61	-30.6559	29.4737
2236	N002	N00220EX	64.4	8.61	-30.6541	29.4736
2237	N002	N00220EX	64.6	8.61	-30.6527	29.4721

2238	N002	N00220EX	64.8	8.61	-30.6522	29.4702
2239	N002	N00220EX	65	8.61	-30.6505	29.4692
2240	N002	N00220EX	65.2	8.61	-30.6487	29.4692
2241	N002	N00220EX	65.4	8.61	-30.6469	29.4691
2242	N002	N00220EX	65.6	8.61	-30.6451	29.4696
2243	N002	N00220EX	65.8	8.61	-30.6439	29.4712
2244	N002	N00220EX	66	8.61	-30.6437	29.4731
2245	N002	N00220EX	66.2	8.61	-30.6450	29.4745
2246	N002	N00220EX	66.4	8.61	-30.6456	29.4763
2247	N002	N00220EX	66.6	8.61	-30.6444	29.4779
2248	N002	N00220EX	66.8	8.61	-30.6429	29.4788
2249	N002	N00220EX	67	8.61	-30.6410	29.4785
2250	N002	N00220EX	67.2	8.61	-30.6392	29.4782
2251	N002	N00220EX	67.4	8.61	-30.6380	29.4768
2252	N002	N00220EX	67.6	8.61	-30.6379	29.4748
2253	N002	N00220EX	67.8	8.61	-30.6365	29.4737
2254	N002	N00220EX	68	8.61	-30.6352	29.4723
2255	N002	N00220EX	68.2	8.61	-30.6336	29.4715
2256	N002	N00220EX	68.4	8.61	-30.6322	29.4725
2257	N002	N00220EX	68.6	8.61	-30.6308	29.4740
2258	N002	N00220EX	68.8	8.61	-30.6291	29.4746
2259	N002	N00220EX	69	8.61	-30.6274	29.4741
2260	N002	N00220EX	69.2	8.61	-30.6259	29.4730

APPENDIX 4: CLIMATE DATA

A. Temperature

Maximum temperature of the day (in °C)

---- indicates that data is not yet available or was not requested

*** indicates that data is missing or not yet available in the current month

= indicates that the average for the month is unreliable due to missing daily values

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	23.5	25.7
2	---	---	---	---	---	---	---	---	---	---	25.9	30
3	---	---	---	---	---	---	---	---	---	---	23.1	22.6
4	---	---	---	---	---	---	---	---	---	---	22.9	22.8
5	---	---	---	---	---	---	---	---	---	---	25	22.6
6	---	---	---	---	---	---	---	---	---	---	20.9	20
7	---	---	---	---	---	---	---	---	---	---	25.4	19.9
8	---	---	---	---	---	---	---	---	---	---	22	20.9
9	---	---	---	---	---	---	---	---	---	---	23	25.6
10	---	---	---	---	---	---	---	---	---	---	23.6	28.2
11	---	---	---	---	---	---	---	---	---	---	24.8	24.8
12	---	---	---	---	---	---	---	---	---	---	22.2	24.3

13	---	---	---	---	---	---	---	---	---	---	26.8	22.7
14	---	---	---	---	---	---	---	---	---	---	24.2	22.8
15	---	---	---	---	---	---	---	---	---	---	23.6	22.8
16	---	---	---	---	---	---	---	---	---	---	19.1	23.9
17	---	---	---	---	---	---	---	---	---	---	22.6	25.4
18	---	---	---	---	---	---	---	---	---	---	25.8	22.2
19	---	---	---	---	---	---	---	---	---	---	24.2	22.6
20	---	---	---	---	---	---	---	---	---	---	22.6	27.9
21	---	---	---	---	---	---	---	---	---	---	24	26.3
22	---	---	---	---	---	---	---	---	---	---	22.5	28.6
23	---	---	---	---	---	---	---	---	---	---	23.7	29
24	---	---	---	---	---	---	---	---	---	---	20.4	22.2
25	---	---	---	---	---	---	---	---	---	---	22.3	25.3
26	---	---	---	---	---	---	---	---	---	---	28.3	25.1
27	---	---	---	---	---	---	---	---	---	---	19.1	25
28	---	---	---	---	---	---	---	---	---	---	21.3	25.1
29	---	---	---	---	---	---	---	---	---	---	24.7	26
30	---	---	---	---	---	---	---	---	---	---	26	28.6
31	---	---	---	---	---	---	---	---	---	---	***	30.7
Avg											23.4	24.8

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22.9	24	29.1	25.7	24	23	19.1	21.3	20.7	23.1	24.2	23
2	25.7	25.3	22.9	29.1	20.2	21.8	24.2	31.1	19.7	21.6	25.1	21.7

3	21.1	28.5	22.8	23.9	21.1	23.3	29.2	22.5	19.5	18.1	21.2	28.3
4	21.1	25.3	25.6	19.3	20.9	19.7	20.9	25.7	25.5	18.4	22.1	23.7
5	23.7	27.5	29.5	21.3	24.8	23.1	27.1	28.4	21.7	20.5	21.2	23.8
6	29.9	27.2	24.1	24.3	27.6	26.4	28.2	21.8	21.8	21.8	21.4	21.6
7	25.7	28	27.6	23	20.1	21.7	16.2	28	18.9	25.2	22.7	22.6
8	21.1	29.8	29.1	24.7	24.3	23.9	22.1	27.3	20.2	22.1	26.8	24.2
9	25	30.1	35.2	36.4	32.2	17.3	30.3	17	23	19.9	19.3	26.3
10	36.9	31.1	27.8	21.5	24.4	17.1	30.1	15.3	19.9	25.4	20.8	26.8
11	24.2	27.6	27.5	24.5	22.6	17.4	16.8	18.4	19.7	18.6	26.8	21.1
12	24.2	30.3	27.3	25.9	20.4	20.6	15.5	23.1	25.4	15.5	22.8	20.3
13	24.9	26.4	24.2	32.1	31.4	23.8	19.8	26.5	23.5	16.6	22.5	25.3
14	32.7	24.6	24.3	32.5	29.9	19.3	24.8	19.9	32.6	22.9	21.5	21.6
15	23.1	33.3	23.8	21	18.5	11.3	17	21.8	21.3	17.8	26.9	20.2
16	23	25.2	26.7	19.4	24.7	14.3	19.7	20	19.9	19.6	21.3	19.3
17	25.3	24.1	23.5	26.9	29.6	17.7	18.1	23.5	15.5	22.3	19.1	23.9
18	29.1	26	25.3	23.2	31.1	20.8	23.6	22	20.2	25.8	22.7	27.1
19	23.3	27.3	26.8	23.4	22.1	25.7	26	15.1	20.5	22	29.7	24.7
20	23.9	27.3	27.2	21.5	23.8	19.7	26.1	17.8	21	23.4	23.2	24.8
21	26.1	35.1	28.7	23.8	22.9	26.9	21.5	24.1	20.6	22.3	23.3	25.2
22	34.3	25.9	24.8	23.4	24.5	17.3	31.3	24.2	23.8	20	22	28.8
23	26	25.3	25.4	17	26.8	19.8	21.6	20.4	25.1	15.8	18.5	24.5
24	24.4	28.3	27.9	19.6	25.2	22.4	20.3	17.2	19.9	21.9	19.4	22.9
25	24.1	26.7	26	23.4	20.1	24.1	18.9	24.3	20.6	18	23.6	22.9
26	22.4	23.4	28.5	27.3	22.4	20.5	27	24.2	20	18.4	27.2	23.8
27	27.8	24.3	27.7	26.4	30.6	16.5	19.8	20.6	21.2	21.5	29	26.5
28	22.8	25.5	24	24.4	24.7	22.5	21.5	25.1	20.2	21.7	23.7	24.5
29	22.9	***	28.1	21.7	18.7	29.4	16.8	20.2	29.1	22.7	21	24.5
30	25.9	***	25.9	23.7	19.9	18.2	19.8	24.5	22.6	22.9	25.5	20.4
31	27	***	23.6	***	20.6	***	32.5	21	***	18.9	***	24.9
Avg	25.5	27.3	26.5	24.3	24.2	20.9	22.8	22.3	21.8	20.8	23.2	23.8

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23.1	28.9	27.2	24.8	22.7	19.8	17	20.6	22.8	24.2	20.7	22.5
2	27.6	28.7	31.9	22.4	28.4	22.7	18.5	21.5	21.5	18.1	22	22.5
3	22.3	27.5	25.4	23.1	20.6	23.4	16.7	28.2	19.3	17.1	26.3	21.8
4	20.7	27.2	26.9	22.4	22.8	20.4	13.4	29.9	22.2	20.7	22.6	22.3
5	23.1	32.1	28.3	22.8	25.8	19.8	13.5	17	19.9	17.9	21.2	30.3
6	26.2	29.8	33	30.9	21	17.2	15.5	14.9	20.5	21.6	22	26.1
7	26.9	26.6	27.7	20.5	21.4	16.8	17.1	17.7	23.1	29.3	28.3	24.2
8	27.3	28.4	32.1	22.2	16.9	19	17.5	21.4	23.9	25.1	28.4	18.6
9	24.5	24.1	23.9	29.8	20.9	17.2	19.6	18.3	22.7	35	23.5	18.3
10	23.9	22	31	25.6	22.8	17	20.9	17.3	20.5	33.1	19	24
11	21.3	29.3	26.3	25.9	20.5	20.3	21.2	20.1	23.7	22.6	18.8	21.7
12	25.7	25.2	24.1	27.2	20	19.8	22.8	22.8	20.5	21.7	21.1	25.8
13	24.6	28.9	28.9	24.7	22.6	21.6	20.1	16.8	20.7	22.6	22.6	26.7
14	27.5	28.7	24	24	21.6	22.6	20.8	13.5	19.9	25.4	23	23.8
15	24.7	27.9	22.4	21.1	20	29	21	16.9	22.7	21.8	21.9	21.7
16	30.5	26.6	24	23	19.4	22.5	21	18.5	15.9	18.9	24.4	25.3
17	22.7	25.9	27.3	19.6	21.8	17.7	21.3	21.6	24	19.4	19.7	25.9
18	29.2	25.1	23.3	22	21.5	20.1	20.7	23.5	23.5	22.1	19.4	27
19	28.1	26.8	25.7	25	19	23.6	18.1	18.3	20.5	24.4	20.3	25.2
20	24.9	25	25.2	32.3	23.7	19.3	19.9	19.2	19	23.4	27.5	24.5
21	23.5	26.5	26.6	21.8	22.9	19.7	20	24.5	20.2	24	21.4	26.5
22	24.7	27.1	27.6	21.3	27.9	21.5	18.6	20.4	21	26	19	21.4
23	22.1	28.5	26.3	24.8	28.6	19.3	19.7	21.2	22	22.2	21.6	20.8
24	24.5	27.8	24.6	25	19.8	17.1	15.6	17.6	18.9	21.4	18	19.7

25	23.1	27.4	23.7	19.9	18.5	16.2	12.9	20.9	24	23	19.8	26.6
26	24.9	27.1	22.8	23.9	17.2	14.7	15.3	19.5	34.6	21.1	22.1	29.7
27	23	27	24.1	18	17.3	16.7	18.1	17.6	21.7	20.6	17.9	28.5
28	24.6	26.8	28.9	19.6	22.4	17.4	23.7	19	22.2	19.6	20.1	23.4
29	26.2	***	27.7	25.3	18.5	19.3	17.2	22	21.6	22.4	24.1	24.1
30	25.5	***	26.1	20.7	23.6	17.9	19.5	36.7	21.6	20.2	24.9	27.8
31	26.5	***	27.1	***	17.4	***	19.7	21.8	***	22.9	***	22.6
Avg	24.9	27.2	26.6	23.7	21.5	19.7	18.6	20.6	21.8	22.8	22.1	24.2

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2013 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.3	26.4	21.8	26.6	32.1	16	17.3	25.8	20.5	31.4	21.8	20.4
2	25.5	28.2	24.4	27.9	25	25.1	20.3	26.7	22.3	28.5	20.5	23.5
3	24	26.9	25.3	21.3	21.5	18.7	18.9	21.8	20.3	23.1	23	29.1
4	24.7	22.1	26.9	21.5	16.6	19.2	15.1	21.7	19.3	22.7	28.6	24.7
5	24.3	23	33.8	24.7	20.2	18.6	18	21.7	20.6	22.5	25	22.4
6	26.2	27	26	29.2	22.2	20.2	25.3	28.6	21.4	19	25.5	24.1
7	23.7	25.1	24.9	23.9	30	19.1	24.4	18.1	26.1	19.6	21.6	21.5
8	27.3	26.4	26.6	23.8	31.5	22.7	21.1	19.6	21.9	23.3	24	23.2
9	21.5	27.1	23.6	21.1	19	14.1	20.2	17.4	18.9	23.5	23.7	21.3
10	22.4	32.5	23.2	19.6	15.6	19.1	20.4	17.5	20	24.3	24.7	19.3
11	21.1	25.8	24.4	19.5	17.2	23.5	23.5	22.7	17.2	25.2	23.1	17.3
12	19.5	27.3	27.3	21.7	21	27.1	29.5	21.7	18.8	21.7	25.2	21.3
13	26.8	29.7	25.2	24.5	23.7	21.5	29.8	24	21.8	19.4	26.7	23.1
14	26.3	27.1	25.5	27.5	26.2	22.4	17.7	20.1	24.1	20.4	24.7	23.8

15	23.2	21.2	22.8	25	25.9	19.2	21.1	18.4	25	25.6	20.2	23.1
16	25.3	25.3	25.4	35.8	18.8	20.6	20.6	22.5	22.3	22.1	21.2	22.9
17	28.9	26.1	24.8	26.9	19	20.6	16.5	18.3	24	17.3	25	22.4
18	28.2	31.8	25.4	22.1	20.9	23	19.1	18.9	21.5	17.9	22.6	23.6
19	25.3	25.7	23	17.5	21.7	22.1	21.5	17.1	25.9	20.1	23.6	25.4
20	27.1	22.5	25	18	26.9	19.9	20.6	24	19.9	22.9	24.5	26.9
21	25.2	23.3	30.2	16.9	26.5	29.6	20.1	21.3	19.8	20.5	22	26.2
22	27.3	24.7	27.8	23.2	21.6	21.7	22.2	18	20.6	20.1	24.6	25.2
23	27.4	24.5	24.9	21.8	22.3	27.9	28.1	18.2	26.9	20.8	24.8	24
24	25.7	25.2	21.5	15.5	22	28.6	16.6	20	21.3	23.4	24	26.2
25	26.9	28.4	21.8	25.9	28.5	24.9	23.1	23	22	25.3	26.2	27
26	25.7	29.2	25	27	20.8	20.6	22.6	35.8	22	20.2	24.7	26.9
27	25.7	27.7	24	27.9	22	19.8	20.9	26	25.3	19.4	19.5	27.7
28	23.6	24.4	30.8	26.8	21.8	17.4	19.2	23.2	21.4	24.4	21.7	26
29	25.1	***	23.4	22.6	21.5	20.7	19.8	21.1	19.5	25.5	24.5	23.6
30	29.7	***	19.5	23.9	24.7	18.9	20.2	13.6	20.6	24.7	22.7	28.4
31	27.1	***	21.6	***	21.4	***	20.9	19.7	***	21.1	***	25.3
Avg	25.2	26.2	25	23.7	22.8	21.4	21.1	21.5	21.7	22.4	23.7	24.1

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27.8	27.2	25.5	22.7	22.2	21.6	32.7	18.4	20.4	***	***	27
2	27	26.3	29.3	22.5	25.6	19.8	22.4	22.9	22.9	***	***	23.9
3	29.5	24.6	24.9	20.9	29.5	21.2	24.9	19.1	27.6	***	***	23.6
4	27.8	28.5	23.7	21.2	35.5	21.8	31.2	19.6	22	***	***	23.5
5	27.4	28.6	25.9	23.3	19.9	16.5	26.5	21.7	29.3	***	20.9	20.9

6	28.1	24.7	27.7	23.4	20.2	17	20.5	19.3	21.3	***	21.9	23.8
7	28.4	28.3	24.9	25.2	25.4	21	15.3	20	22.4	***	22.7	25.7
8	27	26.1	23	26.9	30.1	24.8	16.3	21.6	20.9	***	24.5	26.1
9	29.2	24.2	21.6	26.4	25.7	27.8	18	25.4	23.8	***	22.6	28
10	24.8	25.7	23	26.7	19.8	16.7	18.4	20	19.7	***	21	24.6
11	24	28.2	25.9	27	20.4	19.6	19.8	23.3	23	***	18.9	25.3
12	24.1	28.8	21.4	28.5	23.5	23	21	25.7	22	***	23.8	25.2
13	24.1	27.9	21.5	28.1	21	23	20.8	33.5	22.7	***	25.4	23.4
14	24.9	26.4	25.1	35.8	19.3	29.8	18.8	22.5	22.6	***	23.7	26.7
15	30.4	28.1	24.8	19	21.8	24.1	20.1	19.8	23.6	***	21.2	21.1
16	27.1	28.7	25.9	21	22.1	19.4	30.6	21	23.2	***	18.8	22.3
17	24.3	30.6	24.3	22.3	18.1	19.2	31.2	23	22	***	19.4	25.6
18	25.6	29.5	26.5	26.9	19.6	20.6	22.2	29	***	***	21	25.8
19	27.6	27.4	24.1	24.6	21.2	15.9	21.2	28.5	***	***	21.2	22.7
20	28.4	28	24.7	22.5	22	18.6	19.9	16.5	***	***	22.1	23.2
21	26.5	21.2	27	24.8	17.4	20.1	18.9	19.5	***	***	23.2	23.9
22	28.6	26.1	39.8	23.9	21.6	26.2	23.5	20.8	***	***	24.4	23.9
23	34.8	27.1	28.8	18.2	28.1	28.7	20.5	19.2	***	***	25.7	24.8
24	25.8	26.7	29.4	16.4	32.4	24	23.5	17.9	***	***	22.5	24.7
25	24.3	25	32.5	22.9	26.9	30.2	22.3	19.8	***	***	21.9	25.4
26	25.4	25.8	24.9	23	21.7	20.1	19.6	21.6	***	***	25.2	23.3
27	33.2	25.7	26.4	18.1	23.6	19.5	21.3	22.7	***	***	24.2	23.3
28	31.5	25.9	24.8	22.6	31.6	20.8	19.1	23.1	***	***	23.7	24.1
29	30.7	***	28.3	25.2	19.7	24.8	21.7	14	***	***	23.4	26.7
30	25.5	***	24.5	20	23	24.4	25.7	15.8	***	***	24.9	22.2
31	25.6	***	27.3	***	23.8	***	29.4	19.8	***	***	***	19.8
Avg	27.4	26.8	26	23.7	23.6	22	22.5	21.5	22.9=		22.6=	24.2

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2015 08:00 (Extracted 2023/06/29

09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26.1	21	24.7	25.3	21.2	19.5	19	19	21.4	17.2	21.3	27.1
2	24.3	22.1	21.9	23.1	22.8	22	17.8	21.1	18.5	23.5	16.7	24
3	24.6	25.8	25.9	22.6	23.8	24.3	21	29.1	19.2	22.4	20	22.9
4	24.4	26.8	29.9	19.2	21.6	18.2	21.3	24.6	20.3	23.9	21.6	24.9
5	29	23.8	25.3	18.8	20.7	14.1	19.4	20.8	22.1	20.8	29.6	23.9
6	25.4	23.5	25.2	20.6	22.1	17.4	16.6	20.9	24.6	23.8	29.7	24.4
7	25.7	24.1	29.5	20.7	21	18.6	19.3	29.1	26.2	23.4	22.6	26.9
8	31.7	28.8	22.2	20.9	24	20.6	20.8	21.1	19.3	22.6	23.4	24.2
9	24	30	28	24.3	26.1	19.3	17.4	18.5	22.4	22.4	24.5	25
10	26.7	26.7	31.3	26	23.4	21.3	19.4	18.7	21.2	27.8	21.2	27.4
11	27.5	23.3	25	24.4	22.1	20.8	28.5	17.7	16.2	21.6	18.9	26.1
12	31.9	28	32.2	23.5	21.6	21.7	16.8	18.2	18.7	26.3	19.9	28.7
13	24	26.5	26.2	29	22.1	26.2	15.7	24	20.3	22.7	23.5	22.6
14	25.9	27.6	26	21.9	21.2	22.7	15.4	20	24.3	20.8	22.4	21.3
15	30.2	22.6	29.9	21.3	25.3	22.3	20.5	32.1	26.6	22.4	24.2	25.6
16	26.3	22.4	23.6	19.1	22.1	21.3	15.6	20	21	20.9	21.1	25.3
17	22.8	24	19.6	20.5	21.4	16.7	19.2	21.2	17.3	25.8	23.9	24.9
18	25.1	29.1	25.7	20.2	29.7	20	16.4	22.7	15.8	23.8	21.8	29.2
19	23.1	24.5	23.9	21.6	22.7	20	23.5	18.5	18.9	26.7	24.5	27
20	23.5	24.5	26.1	23.2	25.2	20.9	17.2	17.8	23.3	27.8	22.7	21.1
21	25.9	22.7	23.9	21.5	24.9	22.8	14.1	18.3	24.2	26.4	16.2	26
22	26.2	21.9	24.4	23	21.4	25.6	14.8	20.4	19.9	21.4	22.6	22.9
23	28.2	26.5	24.3	21.8	32.4	21.4	18	19.7	24.6	21.4	24.6	28.1
24	27.8	28.9	28.6	23.3	22.6	24.5	18.4	24.3	27.3	22.7	25	26.6
25	31	29	25.4	26.8	21.5	18.5	14.5	21	23.1	29.1	24.3	23.7
26	27.2	26	28.6	21.3	22.7	18	17	20.5	20.7	20.9	22	25.4
27	24.3	24.2	22.7	23.7	21.3	19.3	21.2	22.5	25.1	22.2	17.7	28.3

28	23	26.6	21	22.3	23.5	19.6	22.5	21.9	24	25.6	22.2	29.1
29	25.6	***	25	20.7	23.4	19.4	19.4	20.1	22.6	23.2	25.4	27.5
30	27.9	***	24.8	22.8	23.6	19.2	20.9	20.5	18.3	24.7	27	29.2
31	24.8	***	25.6	***	20	***	15.5	21.7	***	21.3	***	32.8
Avg	26.3	25.4	25.7	22.4	23.1	20.5	18.6	21.5	21.6	23.4	22.7	25.9

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27.7	30.6	27.9	26.7	19.6	32.2	22.6	20	21.6	21.4	21.5	23.1
2	26.9	27.8	25.9	23.9	22.8	22.4	16	22.9	22.7	18.2	20.4	***
3	29	28	27.3	24.3	19.5	22.2	20.4	18.8	19.9	19.2	30.1	***
4	29.6	24.1	24.7	28.3	22.8	19.7	24.8	19.5	20.8	20.2	23.3	26
5	28.8	24.4	31.8	24.5	23.1	19.4	31.4	24.9	31.9	23.1	17.6	23.9
6	28.7	26.3	32.8	20.6	20.9	21.2	18.5	20.8	18.2	23.1	17.5	27.8
7	22.4	25.4	28.9	21.9	18.7	25.3	17.8	19.7	20.1	19.7	23.3	24.9
8	23.2	25.5	23.1	23.4	18.1	29.3	24.2	18.8	24	25	22.9	29
9	24.8	26.5	24.8	25.1	24.7	32.1	21	21.6	20	20.5	23.5	26.1
10	26.5	26.9	26.9	28.5	25.4	26.6	20.7	21.7	15.9	24.9	20.3	20.2
11	25.8	28.1	22	33.7	22.4	17.9	23.8	29.7	21.4	22.8	17.4	20.8
12	27.2	28.4	26.1	28.6	26	16.5	23.3	33.9	23	19.4	21.5	25.7
13	26.3	29.6	27.2	27	25.8	24.3	22.5	19.2	19.4	19.8	21	24.5
14	27	25.5	22.8	28	22.5	20.2	29.4	24.1	19.8	21.5	20.1	25.8
15	21.9	23.7	27.7	27.6	23.8	25.4	25.8	18.5	25.1	25.4	21.1	28.7
16	23.7	24	25.4	26.1	22.8	19.5	18.3	21.1	22.5	19.5	27.4	24.8
17	25.5	24	24.9	24.9	22.6	19.4	19.9	23.8	17	19.8	20	27.4
18	27.8	28.9	24.9	25.3	27.3	24.9	23.7	24	18.1	22.5	22.8	30.3

19	26.6	25.9	24.6	29.7	21	22.4	25.5	25.8	22.1	24.1	23.1	28
20	26.8	26.2	22.5	26	19.6	21.1	22.7	19.6	27.9	24.1	22.5	25
21	28.8	25	22.3	23.3	24.8	18.5	20	22.1	20.1	26.6	24.2	27.4
22	28.3	25.8	21.6	27.6	23.5	19	18	18.7	21.6	23.2	22.2	26.3
23	28.4	29.4	27	23.1	31.3	23.1	16.6	20.3	19.7	19.9	24.5	30.2
24	28.6	28.7	26.4	26.5	25.1	28.3	16	20	20	21.2	23.7	23.7
25	27.3	33.1	26.7	24.3	19.7	25.6	16.4	27.5	17.4	22.6	23.8	22.5
26	25.2	25.7	24	21.3	22.3	29.9	17.3	18.4	25.7	23.5	24.6	29
27	27.7	25	22.6	25.1	24.8	28.1	20.1	29.6	21.1	23.9	25.3	29
28	26.3	27.1	25.5	23.2	23.7	18.4	20.7	37.7	18.6	20.7	25.1	25.4
29	27.3	29	29.1	27.5	30.8	20.4	21	26.9	19.1	20.4	24.1	23.2
30	29.7	***	26.3	17.3	26.6	27	18.3	27.4	20.4	22.2	25.6	27.1
31	29.5	***	23.3	***	29.9	***	19.6	38.6	***	22.5	***	30.6
Avg	26.9	26.8	25.7	25.4	23.6	23.3	21.2	23.7	21.2	22	22.7	26.1=

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26.8	25.8	26.8	23.8	28.5	20.5	19.4	32.1	19.7	19.7	32	22.8
2	35.6	23.3	27	29.2	25	21.7	23.2	23.6	23.1	20.7	26.3	25.4
3	22.2	26.2	25.1	26.7	23.8	32.1	19.3	22.1	21.7	28.2	25	22.3
4	22.3	28.7	24.8	29.2	20.1	25.2	23.2	19.6	26.7	24	25.1	22
5	25.9	21.9	24.1	24.4	26	19.4	25.4	18.2	34.9	16.9	21.3	19.8
6	24.1	26.2	28.5	20.2	20.6	31.1	33	20.4	21.1	20.6	22.1	21.8
7	23.2	31.4	25.5	22.3	21.3	31.8	31.1	18.5	26.6	19.5	20.8	24
8	25.1	26.4	27.2	26.1	25.1	18.5	30.5	20.2	23.7	17.7	20.8	26.2
9	26.5	24	21.6	27.6	20.8	18.3	29.9	23.3	21.7	14.8	21.1	25.4

10	22.5	27.3	23.1	30.4	27.8	26.7	18.6	23.5	21.9	19.1	17.8	20.6
11	26	34.2	26.3	22.6	25.8	20.3	17.7	23.3	25.6	21.3	21.9	21.5
12	26.9	26.2	24.6	31.1	17.6	24.9	18.4	18	21.6	21.1	27.5	22.7
13	21.2	27.3	24.8	21.8	18.4	22.8	18.2	16.6	21	19.5	21.9	21.9
14	22.5	25.1	28	20.1	19.4	20.4	18.7	21.2	19.1	22	21.4	21.3
15	25.4	27.9	23.4	19.2	21.7	20.8	20.3	22.4	21.9	22.1	17.6	23.1
16	19.9	32.1	23.6	22.3	24.3	22	16.2	18.2	17.6	18.9	18.7	29
17	23.5	27.1	33.2	23.2	22	21.6	19.1	15.7	17.8	20.2	19.3	20.3
18	26.5	29.5	25.9	22.5	21.5	18.9	21.1	15.2	20.9	20.6	23.1	20
19	25.6	20.2	22	23.3	24.7	30.3	21.3	18.1	22.2	22.1	24.3	22.6
20	22.9	22.3	26.5	23.1	24.3	18	22.1	22.9	19.7	20.5	41.1	24.9
21	25	21	28.5	22.7	23.4	20.1	18.6	32.6	25.5	22	24.2	26.5
22	29.6	25.8	33.9	23.7	24.4	25.5	19.8	19.2	24.6	26.3	19.4	23.2
23	26.8	26.5	30.8	23.1	32.5	17.4	18.5	20.9	16.1	33.5	21.6	25.2
24	31.8	28	20.1	19.3	25.7	19	23.8	18.6	22.5	22.1	18.9	23.9
25	26.2	25.5	20.3	20.5	21.2	17	18.8	18.8	21.4	21.3	21.3	21.7
26	24.9	22.9	23.7	24.9	20.7	20.9	18.7	20.4	19.3	***	22.9	23.3
27	27.1	25.3	25.7	27.1	20.9	29.6	22.9	20.4	21.2	16.7	20.3	26.6
28	29.3	32.2	24.3	30.2	20.6	22.6	29.5	23.3	19.4	19.7	25.7	23.8
29	25	***	24.5	25.9	20.8	20.2	23.7	23.5	24.6	27.1	23.5	24.1
30	28	***	32.3	26.4	27.3	23.2	18.5	20.6	20.5	24.7	22.4	25.7
31	23.6	***	31.7	***	31.2	***	22.6	22.5	***	30.4	***	24.6
Avg	25.5	26.4	26.1	24.4	23.5	22.7	22	21.1	22.1	21.8=	23	23.4

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	21.6	24.3	24.6	25.7	26.3	26	29.8	21.6	21.1	29.7	19.5	27.2
2	24.7	25.5	25.9	28.4	33.2	22.6	15.9	18.2	26.2	23.2	20.5	24.8
3	24.9	24.1	23.8	25.5	19.1	19.2	18	17.8	19.8	18.3	23.5	24.5
4	27.4	26.9	25	25.4	24.3	17.5	21.2	21.3	24.6	20.1	34.5	23.7
5	27.7	27.3	24.3	26.1	24.3	20.4	22.5	18.3	21.8	22.3	21.8	25.2
6	25.7	28.6	25.3	24.4	25.3	22.6	21.6	19.5	14.7	23.7	21	27.5
7	26.2	25.8	27.7	24.1	24.6	31.6	20.9	17.3	17.2	23.8	17.5	26.7
8	24	28	23.6	23.5	27.4	21.2	22.9	17.4	16.5	24.5	21.8	23.8
9	22.9	29.9	23.2	27.9	21.1	29.9	23	16.5	17.7	26.9	23.6	20.9
10	23.9	27.8	26.4	23.5	21.8	18.5	26.9	15.7	20.2	22.6	27.2	24
11	26.7	22.8	25.8	19.2	28	20.5	28.5	20.4	22.9	22.6	24	26.1
12	28.9	26.4	26	24.7	18.5	28.6	31.5	22.7	23.4	17.9	25.7	26.5
13	26.1	21.8	29.4	28.8	22.1	29.3	17.2	19.7	23.2	19.9	26.1	23.6
14	26.8	28.6	26.3	21.5	21.4	29.7	16.9	19	21.6	21.7	23.6	26.3
15	25	25.8	26.9	23.9	21.4	23.8	16.6	17.9	20.9	22.1	24.1	26.8
16	24.3	25	16.7	25.3	23.6	20	18.5	22.7	20.8	21.2	25	27.5
17	27.1	21.5	21.5	25.6	25.8	23.2	20.8	17.3	23.2	19	23.7	28.9
18	29.7	34.3	25.4	31.8	23.2	22.3	23.7	18.3	22.5	20.7	22.6	36.3
19	29.3	24.8	25.4	21.6	26	21.9	24.3	27.8	19.6	22.7	24.4	25.8
20	28.3	26	25.4	21.1	28.3	20.4	25	19.9	18.6	19.4	26.4	24.4
21	26.4	24.4	23.1	24.7	25.8	22.7	27.9	15.8	20.6	19.2	22.2	26.3
22	24.5	26.8	21.5	23.2	21.5	20.4	28.2	17.3	21.4	21.4	21.7	28.3
23	24.5	33.8	23.9	25.9	27	25.2	29.2	19.6	21.6	29	23	27.6
24	25.4	22.4	23.2	25.7	23.1	20.2	30	21.6	23.2	33.4	26.7	27.1
25	25.2	22.1	23.2	25.7	19.2	20.4	20.2	31.6	29.8	26.5	27.9	25.9
26	27.8	23.3	22.8	27.3	20.2	23.9	21.7	17.2	23.1	24.6	24.1	27.9
27	27.3	27.7	27.7	23.5	22.4	21.3	28.8	18.2	27	24.5	26.5	25.9
28	24.8	23.3	27.8	22.2	27.5	18.4	19.5	22.1	27.3	25.7	20.5	24.1
29	26.2	***	23.2	23.3	20.6	20.9	21.4	20	20.6	28.8	21.2	27.1
30	31.5	***	23.4	22.1	20.4	21.1	20.5	22	25.8	25.6	25.9	26.3
31	22.7	***	22.9	***	21.9	***	21.8	29.1	***	18	***	27.8

Avg	26	26	24.6	24.7	23.7	22.8	23.1	20.1	21.9	23.2	23.9	26.3

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2019 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32.5	24.1	25.3	20.6	21.5	20.6	22.9	18.9	24.6	21	24	21.7
2	20.8	27.4	25.6	17.9	34.6	21.2	22.7	24.2	21.8	22.5	33.4	26.6
3	24.2	33.8	26	25.3	22.4	23.2	24	20.7	26.1	24.9	24	21.7
4	26.7	26.4	26.9	25	21.8	24.1	22.3	23.3	22.5	22	22.9	21
5	27.1	25.6	22.5	19	20.5	22.8	18.6	23	15.8	24	26.1	23.6
6	25.9	26.3	31.2	21.2	20.3	16	25.7	23.6	18.4	24.8	26.9	32.6
7	27.4	22.3	***	23.7	24	19.4	20.7	28.9	22.7	20.1	21.9	25.1
8	24.4	32	20.1	26.7	21.8	18.4	23.6	19.9	28.1	22.4	23.5	23
9	28.1	26.1	21.2	24.8	21.7	25	21.2	20.2	31.6	21	22.1	20.5
10	27.6	27.3	22	25	22.9	25.3	20.3	22.8	24.5	19	20.3	18.8
11	27	23.7	22.7	28.1	25	24.8	26.9	21	24.9	23	19	19
12	24.1	25.8	27.6	28.8	26.9	25.8	19.6	21.2	23.6	23.1	24	22.6
13	26.8	25.8	24.8	24.4	22.8	17.7	18.8	21.2	21.9	22.3	27	23.2
14	26.7	26.6	22.7	22.2	23.5	20	24.7	23.6	19.5	24.5	21.6	28.1
15	26.8	30	26.8	22.1	29.4	24.6	19.6	25.4	23.8	23.8	24.2	22.5
16	23	28.1	28.2	23.6	22	21.5	24.2	22.2	24.9	27.1	22.6	22.5
17	26.1	25.8	28.3	20.1	21.8	28.6	32.1	15.9	23.4	33.1	21.5	27.7
18	26.9	26.3	25.5	20.6	23.1	22.2	25.1	22.6	21.2	24.8	21.4	24.5
19	23.3	26.5	29	28.5	34.1	26.9	20	21.6	24.3	24.9	21.9	23.9
20	23.2	28.7	25.7	21.4	33.1	28.8	13.8	19.8	34.9	23.9	22.6	25.5
21	30.2	24.8	22.3	18.9	20.8	27.5	17.1	20.8	21.2	20.8	23.5	25.9
22	26.2	24	24.5	18.9	21	23.9	30.9	33.9	19.8	18.3	23.4	23.5

23	23.7	26.9	28.2	19	20.8	19.1	30.7	21	19.3	23.2	25.5	30.8
24	21.4	26.8	31.3	21.2	20.7	22	20.4	25.3	19.7	23.4	22.9	25.2
25	26.3	26.6	24.7	24	22.1	17.6	23.2	31.1	19.6	32.7	25.4	24.9
26	24	27.8	23	23.5	29	18.9	21.1	20.6	24.8	23.5	24.8	25.5
27	24.3	24	26.6	23.4	23.9	25.2	26.6	19.5	30.7	27	24.9	23.9
28	26.9	25.5	23.1	25.5	18	23.7	32.5	19.2	23.2	21.5	25.6	23
29	29	***	26	34.4	19.2	19.2	29.3	20.4	24	24.8	28.5	25.8
30	29.2	***	24	34.8	22.4	27.5	28.8	19.1	20.1	24.3	22.6	27.6
31	23.6	***	23.9	***	19.8	***	20.6	21.3	***	19.9	***	24.1
Avg	25.9	26.6	25.3=	23.8	23.6	22.7	23.5	22.3	23.4	23.6	23.9	24.3

Daily Maximum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23.6	27.4	25.7	21.4	27.2	25.4	---	---	---	---	---	---
2	26	30.3	28.1	23	30.8	31.9	---	---	---	---	---	---
3	22.9	33	26.9	25.3	24.9	22.5	---	---	---	---	---	---
4	29.3	32.5	31.9	30.5	21.7	23.7	---	---	---	---	---	---
5	24.2	37.2	28.2	25.8	23.1	25.8	---	---	---	---	---	---
6	26.4	23.3	27.9	21.5	23.1	23.5	---	---	---	---	---	---
7	27.1	23.2	31	21.9	23	24.9	---	---	---	---	---	---
8	28.4	24.8	29.7	20.2	24	26.7	---	---	---	---	---	---
9	27.5	25.6	23.6	23.6	22.8	28.8	---	---	---	---	---	---
10	21.1	25.2	24.8	27.8	30.6	31.8	---	---	---	---	---	---
11	27.7	26.6	24.9	26.4	27.2	20.5	---	---	---	---	---	---
12	27.2	26.2	25.2	30	21	17.4	---	---	---	---	---	---
13	27.7	30.8	28.9	21.8	22.4	20.3	---	---	---	---	---	---

14	28	26.9	26.3	19.6	21.8	21.8	---	---	---	---	---	---
15	30.7	28.8	25.7	19.1	26.9	19.6	---	---	---	---	---	---
16	30.9	35.7	19.7	***	21.5	19.3	---	---	---	---	---	---
17	30.6	26.2	24.5	***	25.4	19.8	---	---	---	---	---	---
18	23.3	21.5	22.9	26	22.9	21.6	---	---	---	---	---	---
19	21.6	26.7	24.6	27.7	22.8	22.9	---	---	---	---	---	---
20	22.4	30.8	27	30.1	24.7	28	---	---	---	---	---	---
21	24.9	27.1	24.5	20	32.1	22.3	---	---	---	---	---	---
22	27.2	23.1	27.1	21.1	24	22.5	---	---	---	---	---	---
23	24	22.3	25.6	22.1	21.8	29.4	---	---	---	---	---	---
24	27.8	24.1	24.9	21.1	24.3	26.9	---	---	---	---	---	---
25	30.1	26.4	26.9	21.4	31.3	29.5	---	---	---	---	---	---
26	25.4	36.1	22.8	20.2	16.1	28.6	---	---	---	---	---	---
27	23.5	21.5	21.6	20.8	17.3	25.4	---	---	---	---	---	---
28	25.6	20.4	27.6	19.2	25.2	21.6	---	---	---	---	---	---
29	26.8	22.6	24.1	20.4	22.4	21.5	---	---	---	---	---	---
30	22.2	***	25.4	23.9	20.7	19.8	---	---	---	---	---	---
31	30.9	***	24.9	***	25.2	***	---	---	---	---	---	---
Avg	26.3	27.1	25.9	23.3=	24.1	24.1						

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	26.1	25.6
2	---	---	---	---	---	---	---	---	---	---	33	19.9
3	---	---	---	---	---	---	---	---	---	---	27.1	***
4	---	---	---	---	---	---	---	---	---	---	20.2	***
5	---	---	---	---	---	---	---	---	---	---	27.8	20.9

6	---	---	---	---	---	---	---	---	---	---	21	14.2
7	---	---	---	---	---	---	---	---	---	---	29.8	21.2
8	---	---	---	---	---	---	---	---	---	---	25.2	22.9
9	---	---	---	---	---	---	---	---	---	---	24.4	27.4
10	---	---	---	---	---	---	---	---	---	---	23	29.1
11	---	---	---	---	---	---	---	---	---	---	30.9	25.6
12	---	---	---	---	---	---	---	---	---	---	24.2	25.5
13	---	---	---	---	---	---	---	---	---	---	34.2	20.6
14	---	---	---	---	---	---	---	---	---	---	29.7	20
15	---	---	---	---	---	---	---	---	---	---	21.8	23.3
16	---	---	---	---	---	---	---	---	---	---	16.6	***
17	---	---	---	---	---	---	---	---	---	---	23.3	24.1
18	---	---	---	---	---	---	---	---	---	---	29.1	***
19	---	---	---	---	---	---	---	---	---	---	20.8	25.3
20	---	---	---	---	---	---	---	---	---	---	18	***
21	---	---	---	---	---	---	---	---	---	---	26.1	***
22	---	---	---	---	---	---	---	---	---	---	24.3	***
23	---	---	---	---	---	---	---	---	---	---	21.9	***
24	---	---	---	---	---	---	---	---	---	---	16.7	***
25	---	---	---	---	---	---	---	---	---	---	23.2	***
26	---	---	---	---	---	---	---	---	---	---	31.5	***
27	---	---	---	---	---	---	---	---	---	---	16.6	***
28	---	---	---	---	---	---	---	---	---	---	20.7	***
29	---	---	---	---	---	---	---	---	---	---	26.5	29.1
30	---	---	---	---	---	---	---	---	---	---	23.1	33.7
31	---	---	---	---	---	---	---	---	---	---	***	35
Avg											24.6	24.6=

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22.8	26.1	33.4	24.4	21.3	22.1	18	24.2	22.6	26.3	23.7	23.1
2	26.4	25.7	20.5	32.2	19.3	21.8	26.6	27.6	19	21.3	27.1	20.5
3	34.6	31.2	23.8	24.5	19.5	24.7	25.4	25.1	20.5	15.2	23.5	29.7
4	17.9	24	29.1	17.1	23	18.3	20.6	27.5	30.6	15	19.8	25.4
5	25	32.1	34.6	18.7	21.8	19.6	24.9	27.3	26.3	21.7	21.1	23.7
6	37.7	31.1	29.1	27.5	26.6	28.8	26.4	21.7	19.1	25.3	16.9	20.3
7	26.4	***	32.3	27.6	19.4	28.9	13.7	29.9	17.1	30	23.1	22.7
8	18.9	29.6	36.5	26.9	23.9	20.7	21.7	27.8	20.3	23.8	29.2	26.1
9	27.1	35.2	38.5	35.7	30.3	12.6	26.4	13	25.1	20.3	17.3	28.3
10	33.9	33.5	32	18.6	21.4	13.3	26.5	11.5	16.5	27.5	18.5	30.3
11	21.8	32.4	29.5	26.8	19	15.4	12	18	23.3	24.3	32.8	19
12	25.7	38.4	30.4	28.9	20.4	17.8	11.7	25	25.9	13	22.4	17.9
13	25.9	26.2	21.2	36.5	30.3	20.5	16.4	24.8	28.6	14.8	26.8	26
14	37.7	25.7	21.1	36.7	26.9	16.9	19.6	24.1	37	18.5	20.4	18
15	18.9	40.7	23.8	20.6	15.2	7.5	15.2	21.1	22.1	16	30	19.3
16	22.7	22.2	25.6	17.2	25.6	10.5	16.4	19	17.4	17.8	22	16.2
17	27.4	20.8	23.1	26.2	28.5	14.6	19	27.8	17.3	25.5	16.9	25.4
18	35.7	26.1	25.8	21.2	29.8	18.7	26.5	19.5	25.9	32.3	25.7	28.6
19	25.8	28.5	29.9	21.6	21.3	21.2	27	10.6	23.2	22.2	32.2	25.9
20	24.6	33.8	28.2	19.5	24.9	18.3	23.4	19	20	29	25.6	22.9
21	30.9	38.9	33.2	22.8	24.4	24.7	22.7	25.1	19.7	24.2	23	26.7
22	36.6	24.1	23.9	19.8	25.4	12.8	27.6	21.3	22.3	17.2	22.4	31.4
23	27.3	22.8	25	14.2	28.1	17.8	20.4	17	29.5	13.1	14.9	25.2
24	26.9	27.4	32	17.9	27.9	24	18.9	17.6	15.5	20.3	16.4	20.3
25	23.8	28.1	27.5	25.5	20.9	25.4	17.9	23.2	21.8	16	26.3	17.9
26	20.4	21.6	30	29.1	22.6	18.9	26.4	24.5	23.4	17.2	29.2	***
27	30.9	23.7	24.8	27.4	28.1	12.3	18.6	20.8	18.9	22.1	29.7	***

28	19.1	26.4	23.9	22.1	24.4	23.6	19.1	28	23.9	17.1	23	***
29	22.1	***	31.1	20.4	15.7	25.3	13.6	19	33.4	25	20.9	20.9
30	28.9	***	21.2	23.4	18.4	14.6	20.4	34.2	26.1	21.9	27.2	***
31	27.5	***	24.7	***	19.3	***	28	34.4	***	16.5	***	23.1
Avg	26.8	28.8=	27.9	24.4	23.3	19.1	21	22.9	23.1	21	23.6	23.5=

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22.8	31.3	30	25.7	24.2	18.1	14.7	19.5	23.5	26.4	21	21.2
2	***	28.2	39.4	22.2	30.4	20.7	16.2	22.5	19.2	17.1	23.4	21.3
3	***	28.4	24.7	24.1	21	23.4	14.3	26.6	18	13.4	33.5	20.9
4	21.2	30.7	27.8	20.7	22.4	19.7	13.6	27.2	21.6	19.6	21.6	26.7
5	24.3	34	28.5	22.8	30.8	16.9	10.5	14.7	24.3	17.5	25.2	35.2
6	27.1	30.9	32.9	30.2	18.8	15	14.1	10.9	23.9	24.4	23.3	28.7
7	29.9	28	28.5	17.9	18.1	14.3	15.8	19.5	24.7	32.5	34	27.8
8	32	31.6	36.4	22.9	13.8	15.4	16.2	21.9	29.4	28.7	28.5	17.2
9	26.7	23.5	22.6	31.4	20	***	18.4	14.2	23.5	36.5	24.8	17.2
10	23.1	22.2	30	26.9	24.7	14.6	22.2	16.5	19.5	37.8	15.4	25.6
11	17.6	32	25.2	25.7	22.4	19.2	22.7	23.5	24.2	25.6	20.2	21.1
12	27.2	27.6	20.4	27.6	20.6	18	23.3	27.6	19.6	22	18.1	27.9
13	25.6	31.8	33.4	22.1	25.1	20.4	22.3	14.7	20.2	25.1	24.6	30.9
14	28.7	31.8	25.3	22.1	22.5	25.6	22.3	11.5	20.1	30	21.4	24.6
15	26	33	24.9	18.8	20.2	26.8	21.8	15.7	22	24.6	23.2	23.9
16	33.6	26.2	26.2	20.3	17.7	19.7	21.1	18.7	16.7	17.2	24.4	25.2
17	20.9	22.7	28	16.7	19.2	15.3	21.1	21.9	28.5	19.7	17.7	29.1
18	34.2	24	21.6	22.5	20.2	19	22.1	26.8	25.4	23.2	18.6	33.9
19	33	29.1	24.9	26.4	16.7	22.5	17.4	19	19.1	27.3	22.4	29.9

20	23.5	26.8	25.1	30.5	22.6	16.8	17.7	20.7	19.4	23.5	34.3	26.9
21	23.8	28.7	28.1	18.7	23	18.4	18.6	26.4	18.5	28	20.1	27.4
22	24.5	28	28.1	19.4	26.7	24.1	18.3	21.1	22.8	32.9	19.5	21.9
23	20.1	32.4	25.9	23.4	26.5	22	18.8	20.9	21.9	27.5	21.9	21.3
24	22.6	31.2	25.8	27.2	18.2	14.8	15.7	15.5	17.4	23.4	15.2	18.3
25	20.3	28.7	22.2	21	***	13.7	8.4	24	29.7	23.7	20.2	28.3
26	29.6	30	25.7	22.5	13	11.9	12.2	18.8	35.3	22.7	22.6	33.4
27	23.7	30.4	24.1	15	15	14.9	18.3	15.7	22.9	21.6	17.3	28.2
28	25.2	27.9	31.7	17.7	20.6	16.9	23	17.4	25.6	16.6	19.1	22.6
29	29.2	***	27.3	22.6	16.1	17.8	14.9	25.3	21.3	24.4	28.3	24.8
30	29.2	***	27.1	19.6	20.4	15.2	17.4	34.7	21.1	19.7	29.7	30
31	26.8	***	33	***	14.2	***	20.2	27.3	***	23.8	***	21.5
Avg	25.9=	29	27.6	22.8	20.8=	18.3=	17.9	20.7	22.6	24.4	23	25.6

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2013 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	***	28.5	17.5	26.3	31.4	32.1	14.1	26.5	17.1	33.6	21.4	17.7
2	***	32.9	25.2	24.4	28.4	21	19.9	25.8	23	35.5	17.9	24.2
3	***	25.9	26.4	18.3	20.3	15.5	14.4	24.7	19.7	25	24.5	27.2
4	***	19.3	30.8	21	11.4	16.4	10.5	23.9	20.6	19.5	31.1	***
5	***	22.5	38.7	26.2	17.2	16.2	13.9	25.3	23.3	25.9	25.3	***
6	***	26	28.2	30.1	22.4	20.6	23.3	26.9	22.9	15.5	28.9	21.4
7	***	26.1	24.8	24.4	27	21.5	22	16.5	32.2	17.7	23.9	21.7
8	***	26.3	30.5	24.2	28.7	23.2	22.5	15.8	21.2	25	25.2	22.4
9	***	28.5	20.4	18.8	15.5	12	17.3	13.1	16	26.6	23.1	23.4
10	***	32.4	21.9	17	12.9	16.5	19.3	16.9	17.4	30.4	24.8	17.1

11	19.5	24.8	26.2	18.1	14.3	27.5	25.5	24	12.6	26.7	22	13.8
12	16.3	27.5	32.4	20.7	22.4	26.9	26.1	19.5	17.9	24.3	26.6	19.3
13	30.4	***	25.6	24.5	23.8	21.2	27.6	24.2	21.6	17.2	30.9	23.9
14	26.5	***	28	30.1	29.5	19.5	13.8	16.4	25.6	20.7	28	23.7
15	20.6	18.4	34.4	26.5	27	16.3	25.6	19.5	29.2	31.3	17.7	23.1
16	26.8	23.7	26.9	33.6	17.7	18.1	18.1	19.4	23.2	21.6	17.6	20.1
17	31	28.5	26.9	26.9	15.2	19.2	12.1	21.8	28.1	14.5	21.4	19.9
18	25.8	37.9	25.9	18.7	18.7	25	17.7	15.2	22.3	14.4	19.7	21.8
19	22.2	26.1	24.3	12.7	25.2	22.1	18.5	16.8	30.1	18.8	26	26.8
20	29	21.2	27.7	13.8	27.2	23.2	17.7	26.2	19.1	22.7	24.8	30.4
21	26.1	24.6	37.6	14.4	28.4	31.4	18.5	24.5	17.2	17	20.2	28.6
22	30.3	27	33.5	20.4	21.4	17.1	25.2	15.7	21.6	18.4	28.6	23
23	29.6	26.4	22.2	20.2	23.6	26.3	25.6	20.1	32.1	20.6	24	22.3
24	25.2	27.7	20.9	25.7	20.6	25.7	14.7	19.3	22.5	26.3	25.2	26.5
25	25.4	35.3	17.9	28	30.4	26.4	21.4	25.5	27.2	27.9	32.5	26.2
26	26.1	32.6	25.5	30.3	20.7	17.6	28.4	33	25.2	20.1	24.6	25.4
27	25.1	32.8	24.6	30.4	20.2	16.6	20.7	33.8	28.1	18	15.9	31.3
28	23.2	22.1	31.5	29.5	18.8	18	15.9	26.9	18	25.6	18.2	26.2
29	26.5	***	19.1	21.3	19.2	21.7	16.3	19.5	18.5	27.7	26.7	18.8
30	31.7	***	16.6	24.7	21.7	18.6	18.3	12.5	23.9	24.6	21.5	30.2
31	25.5	***	18.1	***	20.1	***	22.5	16.1	***	20.4	***	25.3
Avg	25.8=	27.1=	26.1	23.4	22	21.1	19.6	21.5	22.6	23	23.9	23.5=

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	34.3	31.4	26	22.1	19.6	23.2	28.6	16.8	22.1	17.3	15.4	31.1
2	26.8	23.6	31.9	25	***	18.3	26.9	24.5	26.2	18	22.7	22.7

3	32.6	24.7	20.8	16.8	***	20	29	30.6	29.5	19.7	26.4	22.5
4	33.5	29.4	***	17.3	***	25	27.9	20.5	23.6	19.2	22.3	21.3
5	26.9	26	24.4	21.1	***	13	21.1	18.7	32.5	26.7	16.8	16.2
6	26.2	20.7	30.1	24.4	***	13.3	12.9	19	25.6	35.3	22.4	25.3
7	27.6	31.6	27.5	29.6	27.1	19.5	11.9	17.1	26.2	25	21.9	28.5
8	27.1	23.9	20.6	30.8	28.7	26.1	12.9	21.9	20.3	20.7	27.4	28
9	25.9	24.2	17.1	29.6	23.2	24.9	14.5	21	24.9	17.3	26.1	32.3
10	23.8	24.9	22.6	29.6	16.4	12.7	16.3	14.7	14.9	17.4	15.6	***
11	23.1	29.4	26.1	31	16.9	16.8	21.5	22.4	23.3	24.9	23.3	27.7
12	22.7	30	16.7	31	19.7	22.9	21.3	27.5	21.7	24.7	26.9	25.3
13	23.2	27.9	19.9	31.9	21	25.5	17.3	30.5	23.8	19.2	23.6	24.8
14	27	26.5	26.6	32.4	15.5	26.2	15.3	20.5	25.1	23.5	26.1	27.2
15	38.3	29.2	23.6	15.5	22.7	20.9	20.7	18	26.2	21.6	18.7	17.9
16	26.9	24.9	26.7	19.5	18.7	16.5	27.8	21.1	23.4	19.4	16.1	19.7
17	22.8	36.5	22.7	23.2	13.3	19.4	27.3	26.3	26.6	15.4	18.5	26.9
18	24.4	31.6	28.8	29.8	18.2	17.8	18.8	28.7	24.3	21	22	28.3
19	27.9	***	25.4	23.4	19.4	12.8	18.2	28.6	18.1	22.3	22.3	23.6
20	29	***	23.7	23	20	14.8	16.7	17.4	18.4	19.9	20.1	23.3
21	24	***	28.6	24.6	17.4	19	19.2	19.8	21.4	21.7	23.8	24.9
22	34.2	***	36.3	***	22.4	25.9	26.5	16.5	28.2	27.7	25.3	25
23	35.1	***	35.2	***	25.3	24.8	18.5	16.2	31.1	26.4	25	28.1
24	27.3	***	***	***	30.3	25.6	27.3	14.6	20.4	23.2	21	29.5
25	21.8	***	***	***	27.3	26.3	22	20.7	24	15.9	19.9	28.3
26	26.2	***	25	***	23.1	19.1	16.2	19.9	26.6	18.2	27.2	20.7
27	32.9	28.4	23.6	***	27.4	15.5	17.7	26.7	18.1	27.9	23.6	24.7
28	34.1	28.5	26.2	***	28	17.7	15.5	20.3	11.3	24.5	24.7	22.9
29	26.4	***	31.8	***	20.3	25.5	24.1	9.4	13.1	30.9	24.2	27.4
30	20.5	***	24	19.7	19.8	23.6	27.3	15.5	15.3	18.3	27.3	24.1
31	23.3	***	28.2	***	24.2	***	27	18.5	***	13.3	***	19.8
Avg	27.6	27.7=	25.7=	25.1=	21.8=	20.4	20.9	20.8	22.9	21.8	22.6	24.9=

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2015 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30	18	25.7	29.9	22.7	15.9	17.4	18.6	18.4	14	***	33.4
2	26.9	16.1	21	23.2	21.1	20.9	20.2	24.2	14.3	24.7	***	21.8
3	23.6	26.7	31.1	21.6	24.6	20.9	23.7	27.1	16.6	22.5	***	25.1
4	25.3	27.8	37.8	***	22.2	15.1	19.9	22.2	20.5	26.9	24.1	28.1
5	31	25.5	22.3	***	22	12.9	18.2	17.8	23.2	21.5	35.7	23.1
6	28.8	22.2	27.3	***	19.4	15.7	14.5	22.4	26.3	24.4	32.7	28.3
7	28.8	26.7	32.3	***	20.1	16	21.6	29.3	26.7	26.1	22.5	25.9
8	33.4	32.3	20.1	***	26.3	17.9	20.6	30.9	18.4	27.1	24.9	26.3
9	20	30.9	30	24.3	26.8	18.7	13.6	16.2	24.6	22.3	24.7	25.7
10	32.8	27.7	33.2	28.6	21.4	21.7	18.4	16.2	20.5	31.8	17.5	31.4
11	28.5	23.3	22.7	27.7	20.1	19.4	25.6	17.5	12.7	21.8	16.7	27.1
12	39.2	30	33	28.2	21.5	20.2	16.5	18.4	19.7	29.8	17	27.7
13	21.5	28.1	21.5	33.1	26	25.2	12.4	21	19.7	21	23.1	20.4
14	27	25.3	28.5	20.5	19.7	25.3	12.3	18.8	30.6	20	23.2	18.8
15	37.4	23.1	35.4	17.7	22.7	23.5	21	31.1	27.8	21.5	23.1	31.4
16	30	21.9	21.3	***	20.2	18.4	13	17.1	21.2	20.1	24.2	28
17	22.8	25	16.1	18.3	22.2	11.8	16.7	21.6	14.2	30.9	27.5	28.9
18	27.4	34	30.7	18.5	31.3	17.5	15.4	19.6	12.8	26.8	20.1	35.9
19	24.1	25.7	26.4	19.5	22.9	17.3	23.6	14.7	16	28.2	28.4	26.6
20	24.5	26.1	***	22.2	29.6	21.7	15.1	14.1	26.9	33.5	23.5	23.5
21	29.2	20.4	28.3	19.7	28.5	25.1	10.6	16.1	26.7	***	12	27.3
22	30.7	22	26.7	26.5	22.9	25.7	13.7	20.7	20.8	***	22.8	25.1
23	33.3	28.7	***	18.3	29.6	26.9	18.4	18.6	28.9	***	26.2	34.6
24	34.9	31	27.6	24.9	27.3	24.1	15.5	28.1	30.7	25.2	27.2	28.8
25	33.4	29.2	***	28.9	18.8	15.2	9.7	26.3	28.6	31.6	24.7	24.1

26	34.2	27.8	***	21.4	22.7	16.5	14.5	20.9	20.1	***	20.3	27
27	19.8	22.8	22.6	21.6	20.7	22.1	19.1	23.8	29.9	***	17.6	32.9
28	20.3	26.2	20.1	24.3	21.8	19.4	22.7	22.8	23.1	***	23.9	36.6
29	26.9	***	25.6	19.6	27.5	16.6	17.3	18.6	25.8	***	28	26.9
30	32.9	***	24.9	20.4	23.3	19	18	16.6	15.7	***	29.1	33.6
31	23.5	***	30.3	***	17.7	***	12.4	20.1	***	***	***	38.2
Avg	28.5	25.9	26.8=	23.3=	23.3	19.6	17.1	21	22	25.1=	23.7=	28.1

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.7	39.1	32	26.6	18.5	28.6	22.5	18.9	24.3	22	22.3	22.9
2	29.7	34	27.4	24.8	20.7	20.8	13.4	23.8	21	15.1	25.9	25.1
3	33.4	25.7	27.5	23.5	15.8	26.5	18.2	17.2	20.8	17.7	36.3	32.9
4	33.3	20.7	29	31.2	20.2	17.6	24	16.4	20.1	21.8	24.5	26.7
5	34.8	23.4	39.1	21.2	23.7	17	27.7	22.9	34	29.2	16.6	22.2
6	32.3	30	33.3	18.1	19.5	23.1	15.2	20.4	16.7	23.3	14.2	32.8
7	19.7	26.2	29.4	20.6	14.2	27	16	19.4	18	20.3	24.6	25
8	21.9	24.6	18.8	24.3	15.2	25.9	21	16.8	26.1	27.2	23.3	34.6
9	26.9	26.6	24.8	27	23.8	28.3	18	23.6	19.3	18.9	25.1	28.7
10	27.2	30	28.6	31	23.5	24.2	21.7	24.6	14.9	30	17.6	16
11	27.9	32.9	19.4	33	22	13.5	26.6	***	26.6	23.5	15.8	22
12	29.4	30.6	27.3	24.4	26.1	13.7	21	30.5	26.4	20	22.9	30.1
13	29.5	26.6	26.3	30.5	22.7	22.1	21.8	19.9	17.3	20.7	21.2	25.7
14	27	26	21.6	34.2	21.9	16.6	26.2	22.1	20.9	26.7	19.6	32.5
15	18.6	26.2	28.3	35.2	23	22.6	25.6	18.3	27.9	27	23.6	31.1
16	23.9	23	23.6	27.2	24.2	16.1	14.9	20.2	21.9	19.3	33.4	26.7
17	25.2	21.8	28.3	23.3	23.2	18.6	20.5	25.6	15.1	19.7	17	31.7

18	32.3	29.4	25.9	25.3	28.8	24.4	26.3	22.1	16.5	25.3	21.5	36.3
19	***	28.4	23.3	31.4	20.2	24.1	27.2	22.3	24.6	23.8	24.8	31.8
20	29	27.3	25.7	28.1	18	18.8	28.3	17.2	30.3	29.9	23.1	26.6
21	31.2	24.1	20.2	23.6	29	14.8	***	23.6	20.6	28	26.1	32.1
22	31.2	26.9	22.4	25.4	26	18	***	15.7	21.5	26.7	21.6	29.7
23	29.7	33.9	28.5	20.4	29	23.9	12.9	19.9	18.7	22.6	28.8	38
24	34	38.6	26	26.3	21.6	27.7	12.5	26.8	23.1	21.9	28	24.1
25	27.3	35	24.1	22.8	17.6	27	***	30.5	19.5	22.4	23.7	23.2
26	28.5	25.1	25.9	19.3	22.1	26.3	16.5	21.4	37.3	***	24.8	32.3
27	28.8	23.3	25.6	27.7	26.5	24.6	18.6	35.2	20.9	29.1	30	35.3
28	28.2	27.6	23.5	27	28	14.6	17.9	34.3	20.3	24.4	28.3	20.3
29	32.6	34.7	31.4	25.8	28.6	19.3	18.8	34.1	22.9	***	21.3	21.6
30	37.4	***	27.3	15.6	27.1	25.1	16	33.7	21.4	23.7	26	32.4
31	34.6	***	23.3	***	27.4	***	19.7	35.6	***	26.2	***	36.1
Avg	29.2=	28.3	26.4	25.8	22.8	21.7	20.3=	23.8=	22.3	23.7=	23.7	28.6

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.4	25.3	28.2	23.2	32.3	22.1	17.8	28.7	18.2	22.4	35.4	25.2
2	39.3	22.6	30.4	33.1	27.2	25.4	23.7	23.3	23.4	27.5	29	27.9
3	19.9	29.4	27.9	27.4	***	28.6	15.1	23.7	20.6	36.2	31.2	18.8
4	21.7	31.5	27.3	35.9	***	23.2	21.2	19.7	32.5	24.5	23.5	17.8
5	28.7	20	25.7	26.7	***	19.6	26.4	15.2	32.7	13.6	20	19.2
6	20	29.9	32.4	16.7	22.6	28.2	30.1	17.9	20.7	21.5	23.2	18.9
7	21.9	36	27.6	22.9	20	28.2	27.6	17.2	27.4	23.5	18.8	25.7
8	27.6	24.2	30.5	25.4	26.6	13.7	27	20.9	25.2	15.4	18.4	30
9	29.7	22.4	19.1	31.3	20.5	17.4	27	26.4	22.8	11.4	20.5	25

10	18.3	31	22.6	29.9	29.6	25.8	15.5	25	24.3	16.2	18	18.9
11	32	36.4	32.9	22	24.7	21	15.2	23	30.6	23.9	25.2	20.5
12	28	22.9	22.9	31.9	14	24.5	17	18.1	22.4	17	30.5	23.2
13	19.4	29.1	25.1	23.4	16	21.9	15.6	13.8	20.1	17.5	18.2	24
14	18.6	22.9	30.7	17.5	16.5	18.5	19.1	21.1	17.4	26.1	***	21
15	25.8	32	24.6	17.4	20.3	18.2	19.7	23.1	23.1	19.7	***	24.5
16	17.1	36.1	25.8	19.4	24.9	21	12.1	13.1	15.6	18.3	14.7	33.2
17	23.2	31.6	37.1	20	21.5	22.4	16.5	8.1	14.8	17.1	19.1	17.8
18	33.3	37.4	25.3	22	20.7	19.4	23.3	12.5	23.2	21.8	24.6	16.3
19	27.6	17.5	19.1	22.1	27.3	26.2	22.9	16.7	20.8	21.8	24.9	23.1
20	25	18.6	29.1	23	29	18.4	19.3	24.2	16.2	20.9	39	25.2
21	26.7	19.3	33.3	24.3	27.9	20.4	18.6	28.6	29.2	24	27.6	29.6
22	37.4	22.1	36.7	27.1	***	22.6	18.5	14.8	22.1	27.8	19.5	21.1
23	33.3	25.3	33.9	21.8	28.6	13.7	15.8	18.5	16.3	35.7	21.4	22.9
24	32.4	30.5	***	18.3	28.1	16.4	23.3	15.3	25.2	22.8	19.3	23.1
25	25.6	24.6	18.4	21	19.7	17.3	27.1	15.8	19.4	26.4	20.6	21.3
26	25	22.4	24.7	26.6	17.8	23.9	16.2	19.8	18	15.9	23.5	22.5
27	30	27.4	26.3	29.6	18.5	25.6	23.8	18.7	18.9	13.9	18.9	29.3
28	27.2	37.8	24.5	31.1	17.4	19.3	28.8	28.6	20	20.7	29.4	21.3
29	28.8	***	26	29.4	20.8	20.4	24.2	22.2	25.5	30.7	23.2	20.6
30	28.8	***	37.1	30.2	26.3	26.1	13.2	18.3	20.7	26.6	23.2	28
31	21.6	***	30.6	***	27.9	***	26.1	23.1	***	35.1	***	26.5
Avg	26.6	27.4	27.9=	25	23.2=	21.6	20.9	19.9	22.2	22.4	23.6=	23.3

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.6	26.1	22.4	26.8	29.1	***	***	***	21.2	33.5	21.4	30.8

2	25.5	25	25	31	***	***	***	***	20.6	21.4	20.4	***
3	25.4	22.5	23.1	22	15.7	***	***	***	15.5	16	30.7	26.7
4	35.8	27.3	25.7	20.2	18.2	***	***	***	27.2	19	30.9	24
5	28.1	30.6	20.2	27.3	28.1	***	***	***	21	24.7	21.8	25.2
6	27.7	32.2	21.1	26.8	30.3	***	***	***	9.8	26.3	18.1	34.2
7	27.4	25.4	24.8	23.8	29.9	***	***	***	15.2	26.5	14.5	29.7
8	22	33	21.5	21.8	30	***	***	***	10.9	***	27.1	20
9	21.6	38.8	21.8	28.6	20.5	***	***	***	13.4	***	25.7	17.1
10	24.3	28.3	28.2	22.1	21	***	***	***	20.1	***	32.1	22.6
11	33.1	18.4	25.2	17.2	27.6	***	***	***	25.7	25	25.6	31.7
12	36	26.6	25.8	26	17.6	***	***	***	21.7	13.9	33.5	29.2
13	29.6	20.1	34.9	28.1	20.7	***	***	***	21.9	18.7	28.1	24.5
14	25.4	30.3	26.1	19.3	19.5	***	***	17.7	23	26.6	26	28.9
15	27.1	25.3	24.1	22.4	20.5	***	***	12.6	20	19.9	27.1	27
16	27.2	25.3	15	24.8	23.5	***	***	23.8	22.1	19.5	29.3	29.9
17	30.6	23.7	19.9	24.9	26	***	***	13.2	24.6	18.5	22.7	32.4
18	34.6	37.5	25.5	29.1	23.3	***	***	18.6	22.8	23.8	21.8	40
19	30.5	23.2	23.9	19.6	26.9	***	***	26.4	18.9	23.5	27.7	24.9
20	28.2	23.8	25.1	20.1	23.4	***	***	18.2	17.6	17.2	30	23.1
21	29.9	20	23.3	25.2	22	***	***	11.4	23.5	17.9	20.4	30.7
22	24.9	29.1	16.7	24	21.6	***	***	16.5	20	27.9	21.2	31.2
23	28.6	34.7	23.9	27.8	25.9	***	***	17.4	22.4	34.1	25.5	33.1
24	26.2	21	23.9	22.2	22.9	***	***	23.2	25.2	35.4	27.6	31.3
25	22.9	17.5	21.7	26.1	18.2	***	***	28.4	32.8	34.7	28.5	30.9
26	29.5	25.1	22.1	25.7	18.1	***	***	16.2	22.9	29.4	20.9	34
27	25.7	29.5	29.7	***	20.9	***	***	14.8	27.1	27.9	27	28.7
28	20.4	25.7	35.2	20.1	***	***	***	18.4	25.2	33	18.4	23.5
29	29.4	***	19.9	23.3	***	***	***	22.4	20.2	39.8	21.9	33.8
30	33.1	***	22.3	20.5	***	***	***	25.4	31.9	30.1	32.1	29
31	19	***	19.7	***	***	***	***	32	***	18.3	***	32.4

Avg	27.4	26.6	23.8	24.0=	23.1=			19.8=	21.5	25.1=	25.3	28.7=

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2019 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	37	19.3	28.1	20.1	19	20	23.4	18.4	23.5	19.1	28.3	20.6
2	18	30.6	27.3	17.6	32.2	18.3	20.1	27.6	23.1	25.4	34.4	34.1
3	24.3	***	28.1	27.3	22.3	23.8	21.2	18.6	30.7	24.7	26.5	19.8
4	31	22.8	29.4	26	18.8	21.8	24.2	23.7	22	26.7	22.1	20.3
5	29.6	27	20.4	15.9	20.5	21.7	14.6	23.9	12.1	29.3	31.6	26.6
6	28.2	26.3	39.7	19.9	19.2	13.7	22.5	21	17.4	24	32	37.7
7	34.7	24.7	26.2	25.7	27.5	19.5	18.2	30.1	27.7	17.2	23.4	25.8
8	28.7	37.9	17.4	***	22	17.1	20.3	16.5	33.6	***	22.6	21.5
9	29.8	26.9	20.3	24.8	18.8	27.6	22.7	19	34.7	16.9	22.8	15.3
10	26.9	27.4	18.7	***	22.5	22.3	20.6	25.7	32.3	15	20.3	20.9
11	31.6	22.1	25.2	29.4	25.7	25.9	31.5	20.8	26.6	25.9	21.2	22.6
12	28.7	25.6	32.6	32.6	30.6	20.6	16.5	18.2	24.9	24	29.5	20.9
13	32	23.2	27.6	***	20	14.6	20.8	21.1	19.7	21.6	27.4	25.7
14	28.9	26.4	22.1	***	24.3	20	29.3	20.5	16.8	32.9	21	33.3
15	28.1	32	27.2	21.8	27	26	18.9	27	27.1	24.7	24	20.9
16	19.7	30.6	30	21.2	20.2	23.8	28.6	23.2	30	30.6	23.2	23.4
17	29.5	26.8	31.1	19.1	20.9	24.6	28.5	12.9	25.8	39.5	18.2	36.8
18	30.1	28.1	28.5	18.2	25.3	22	26.4	***	21.7	27.6	22.2	26.8
19	25.1	30.1	***	30.8	31.6	25.7	20.8	19.7	29.2	26.8	23.5	28.1
20	23.9	33.1	24.6	22	30.8	25.6	10.1	19.1	39.9	24.8	23.5	28.3
21	40.7	22	21.2	15.2	17.6	24.7	17.6	23.8	22.9	21.4	26.3	27.4
22	28.8	25.7	25.5	14.6	21.6	20.2	27.3	30.3	14.6	17.5	25.8	25.4
23	21.5	30.1	30.4	15.2	18.3	14.9	27.2	22.7	***	24.4	25.9	36.6
24	21.4	30.5	34.8	19.1	21.3	20.4	17	32.4	***	24.8	24.3	30.3

25	24.5	29.6	21.9	22.3	25.2	15.5	24	29	21.1	30.6	30.2	26.8
26	21.5	29	20.5	20.7	29.7	17.8	21	21.5	29.9	24.7	30.5	27.4
27	26.3	25.4	28.1	22.5	22.1	24	30	16.9	34.6	30.9	31.1	24.1
28	29.9	30.6	28	27	15.2	24.2	31.6	17.4	26.5	21.1	28.6	23.2
29	41.3	***	26.3	32.3	17.2	19.3	31.7	21	25.8	22.5	36.1	27.6
30	29.5	***	26	31.1	25.4	29.3	26.9	18.4	18.2	23.3	23.6	30.2
31	21.7	***	21.7	***	21.7	***	18.9	17.8	***	19.3	***	23.2
Avg	28.2	27.5=	26.3=	22.8=	23	21.5	23	21.9=	25.4=	24.6=	26	26.2

Daily Maximum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27.8	27.6	26.8	17.8	26.7	29.8	---	---	---	---	---	---
2	29.2	33.4	27.7	21.5	27.2	30.4	---	---	---	---	---	---
3	23.8	33.9	27.4	27.8	21.3	21.2	---	---	---	---	---	---
4	30.2	35.1	36.9	30.3	19	22.6	---	---	---	---	---	---
5	24	36.8	29.6	27.3	21.4	28.3	---	---	---	---	---	---
6	27.5	20.1	31	24.4	21.8	26.8	---	---	---	---	---	---
7	22.7	18.3	37.2	17.7	23.3	27.1	---	---	---	---	---	---
8	31.4	***	32.1	19.5	24.3	27.7	---	---	---	---	---	---
9	23.3	25.9	20.8	23.8	23.5	26.7	---	---	---	---	---	---
10	20.5	23.7	22.8	28.5	28.9	27.3	---	---	---	---	---	---
11	31.7	25.2	23.9	28.7	28.3	15.9	---	---	---	---	---	---
12	27.8	28.6	24.4	26.7	21.4	13.7	---	---	---	---	---	---
13	27.8	34	29.6	19.6	19.9	16.4	---	---	---	---	---	---
14	***	27.4	26.3	15.8	21.2	18.6	---	---	---	---	---	---
15	32.5	29.3	24	17.2	24.1	16.6	---	---	---	---	---	---
16	35	37.5	17.5	22.9	19.9	17.4	---	---	---	---	---	---

17	32	26.6	27.4	27	24.8	20.5	---	---	---	---	---	---
18	19.7	18.4	27.5	27.5	22	22.3	---	---	---	---	---	---
19	17.8	28.6	25.4	33.2	25.4	24.5	---	---	---	---	---	---
20	19.1	31.7	28	35.6	26.4	24.5	---	---	---	---	---	---
21	25.1	31.5	24.5	19.3	29.3	21.4	---	---	---	---	---	---
22	25.7	24.5	27.3	22.7	23.8	22.1	---	---	---	---	---	---
23	20.5	18.4	26.6	22.7	20.9	25.9	---	---	---	---	---	---
24	29.8	23.8	22.8	19.1	26.7	28.1	---	---	---	---	---	---
25	30.6	30.4	28.4	21.4	26.7	27.8	---	---	---	---	---	---
26	22.2	37.1	19.3	20.6	12.2	24.5	---	---	---	---	---	---
27	23.6	18.9	20.8	16.9	13.6	23.5	---	---	---	---	---	---
28	30.6	16.6	30	16.4	21.3	17.6	---	---	---	---	---	---
29	29.6	20.9	22.3	19.3	18.7	18.4	---	---	---	---	---	---
30	20	***	28.6	25	20.3	17.9	---	---	---	---	---	---
31	35.6	***	28.2	***	27.6	***	---	---	---	---	---	---
Avg	26.6=	27.3=	26.6	23.2	23	22.8						

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	27.5	28.1
2	---	---	---	---	---	---	---	---	---	---	31.9	33.3
3	---	---	---	---	---	---	---	---	---	---	32.8	21.8
4	---	---	---	---	---	---	---	---	---	---	27	28.8
5	---	---	---	---	---	---	---	---	---	---	24.5	29.2
6	---	---	---	---	---	---	---	---	---	---	21.3	14.6
7	---	---	---	---	---	---	---	---	---	---	27.4	22.4
8	---	---	---	---	---	---	---	---	---	---	25.7	24.8

9	---	---	---	---	---	---	---	---	---	---	30.4	30.2
10	---	---	---	---	---	---	---	---	---	---	22.2	30.5
11	---	---	---	---	---	---	---	---	---	---	30.3	29.2
12	---	---	---	---	---	---	---	---	---	---	24.1	31
13	---	---	---	---	---	---	---	---	---	---	32.5	26.4
14	---	---	---	---	---	---	---	---	---	---	34.5	26.9
15	---	---	---	---	---	---	---	---	---	---	23.6	28.7
16	---	---	---	---	---	---	---	---	---	---	18.1	21.8
17	---	---	---	---	---	---	---	---	---	---	25.2	22.7
18	---	---	---	---	---	---	---	---	---	---	33	20.9
19	---	---	---	---	---	---	---	---	---	---	33.8	25
20	---	---	---	---	---	---	---	---	---	---	25.8	30.8
21	---	---	---	---	---	---	---	---	---	---	29.4	31.9
22	---	---	---	---	---	---	---	---	---	---	22.5	34.4
23	---	---	---	---	---	---	---	---	---	---	22.9	35.5
24	---	---	---	---	---	---	---	---	---	---	20.6	18.1
25	---	---	---	---	---	---	---	---	---	---	24.8	24.4
26	---	---	---	---	---	---	---	---	---	---	32.7	21.7
27	---	---	---	---	---	---	---	---	---	---	19.3	26.9
28	---	---	---	---	---	---	---	---	---	---	23.1	27.2
29	---	---	---	---	---	---	---	---	---	---	28.1	29.8
30	---	---	---	---	---	---	---	---	---	---	25.7	33.9
31	---	---	---	---	---	---	---	---	---	---	***	33.9
Avg											26.7	27.3

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	33.2	27.9	31.3	25.8	21.9	19.7	16.5	22.9	30	33.2	28	32.2
2	27.7	29.9	24.4	30.3	22.2	20.1	21.8	24.1	21.1	25.6	35.7	20.3
3	32.2	33.7	25.5	30.7	20.2	20.2	21.8	24.2	19.8	28.1	31.3	30.1
4	20.6	25.5	31.7	16.8	22.3	18.6	21.4	23.7	29.6	17.7	26.4	27.6
5	28.3	34	32.8	16.4	21.2	19.3	20	23.8	28.5	25.3	22.5	25.6
6	35	36.2	32.3	25.2	21.7	23.6	21.7	22.1	24.4	26.5	21.8	21.8
7	24.5	34.8	31.9	25.8	21.3	26.1	12.3	25	17.8	32.3	24.8	25.2
8	29.5	35.2	33.7	27.5	26	22	19.7	25.6	22.3	28.6	33.9	28.8
9	29.8	37	35.2	30.1	25.9	10.4	20.5	10.4	20.9	23.3	14.5	32.9
10	23.9	34.6	32.9	17.6	18	9.9	21	10.8	18.7	31	16.1	32.6
11	19.6	31.8	32	26.7	16.6	10.4	15.8	16.4	24.1	24	29.8	17.9
12	28.9	33.7	33.6	30.4	20.1	18.2	8.7	20.1	30.8	13.6	23.3	19.2
13	28.3	33.5	27.1	32.4	25.8	16.4	15.2	22.6	32.7	16	30.3	29.9
14	34.4	29.5	18.8	32.3	23.7	13.9	16.7	24.1	32.2	16.3	22.5	16.3
15	19.8	35.3	29.9	28.4	13.3	7.1	15.2	22.5	31	16.5	33.5	18.1
16	24.2	24.6	29.9	19.2	23.3	8.5	14.2	20.2	18.2	18	28	18.7
17	27.9	19.7	22.3	25.9	25.3	11.3	21	26.5	20.5	26.3	19.1	28.2
18	36	29.7	26.1	24.8	25.9	16.6	22.5	27.5	28.3	32.1	27.4	30.9
19	28	29.5	31.1	23.3	24.6	16	23.1	9.9	27.2	27.7	30.9	26.4
20	22.1	32.9	31.3	17.6	24.6	19.9	21.5	17.1	24.8	33.5	34.7	24.8
21	29	34.1	29.9	20	24.2	20.9	20.9	25.6	21.2	31.9	33.8	27.7
22	29.9	26.9	30.6	19.2	24.8	12.1	21.6	21.9	20.5	27.7	27.4	32.8
23	29.2	21.7	24	13.7	24.5	15.6	23	15.6	29.1	17.4	19	28.8
24	32.6	23	29.1	17.6	25.7	20.8	19.1	16.1	20.2	21.7	17	27.5
25	22.9	27.7	29.1	22.4	24.8	25.5	18.9	23.1	23.5	14.7	28.2	25.1
26	22	21.6	28.9	24.5	24.8	26.2	24.8	22.7	26.6	19.3	28.1	26.7
27	28.8	24.7	23.4	23.6	23.6	11.9	26	22.8	18.1	24.1	30.1	33
28	19.5	27.6	25.4	23.4	22	20.2	24.4	27.8	23.7	16.3	27.6	31.2
29	21.9	***	28.1	19.4	14.3	21.1	15.3	20.6	28.6	25.3	21.7	33.1
30	28.6	***	24.3	25.6	17.1	18.1	21.9	30.4	32.6	22.7	29.8	19.5

31	33.3	***	24.4	***	18.5	***	23.2	29.1	***	23	***	20.4
Avg	27.5	29.9	28.7	23.9	22.2	17.4	19.7	21.8	24.9	23.9	26.6	26.2

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23	29.8	27.1	25.6	***	15.6	12.5	19.6	27.9	29.1	18.3	23.8
2	31.2	27.1	33.1	25.8	***	17.9	13.6	20.1	19.4	13.7	23.4	24
3	19.1	29.2	23.4	22.4	***	19.8	11.9	21.3	20.9	11.7	32.2	20.3
4	23.9	25.7	22.3	20.1	21	20.8	11.3	23	22	18.4	23.2	26.6
5	26.9	28.4	22.2	21.3	24.2	16.1	8	20.6	25.8	13.8	25.1	31.9
6	26.5	28.9	29.8	21.7	18.6	13.8	11	10.2	27.2	23.3	22.4	31.6
7	31.4	29.2	27.9	18.2	18.5	10.4	13.4	16.5	28.6	27.9	31.2	33.5
8	33.5	32.6	31.5	21.5	13.4	9.8	14.2	20.8	30.9	29.7	36.7	15.8
9	34	27.2	26.9	27.6	17.7	12	16.6	16.2	28.1	30.6	29.4	12.6
10	24.6	25.9	30.3	26.7	21.8	13.8	18	16.5	24.1	32.2	22.3	22.3
11	21.6	30.2	27.7	25.5	22.5	18.8	18.6	23.8	29	32.3	22.1	27.9
12	29.7	29.1	31.2	20.7	22.6	16.4	18.2	25.2	21.2	26.5	25.8	27
13	26.9	30.7	29.4	19.3	21.3	19.7	17.7	17.8	21.3	25.6	28	34
14	30.2	28.2	26.4	21.5	21.7	20.4	17.8	11.2	19.4	30.5	19.7	29.5
15	26	30.1	27.9	20.4	20.6	21.3	17.4	11	21.6	23.6	26.4	26.4
16	33.2	29.1	26.6	***	19.1	15.4	16.7	16.3	18.1	20.5	31.8	28.4
17	25.9	22.3	21.8	***	16.5	12.8	18.9	20.1	27.1	21.7	25	29.8
18	34.9	21.1	21	***	18.7	18.5	19	20.8	29.7	25.2	26.5	36.3
19	35.8	27.9	22.7	***	16.7	19.8	19.6	20.9	16.5	23.9	25.7	32
20	24.8	27.4	25.9	23.3	20.7	15.4	15.7	19.2	20.8	20.6	33.6	31.8
21	30.4	26.8	28.7	16.3	23.7	16.8	19.7	27.1	17.4	28	25.2	33.6
22	28.1	28.3	29.5	17.8	23.4	21.2	21.1	28.2	21	33.1	19.1	29.2

23	23	28.5	31.7	16.5	22	18.6	23.3	24.5	20.1	30.8	26	17
24	18.5	27.5	29	***	17.5	9.9	16.1	12.8	18.7	32.3	13.3	22.2
25	23.4	28	23	***	13.2	11.3	5.2	24	26.8	25.1	22.3	28.9
26	28.7	28.2	26.6	***	11.7	12.3	6.5	26.8	30.4	26.7	24.3	26.6
27	25.3	30.1	24.7	***	12	14.7	11.7	14.1	21.2	28.1	22	29.9
28	30.6	28.1	26.9	13.7	16.2	18.5	18	17.6	25.2	29.3	21.6	19.5
29	33.9	***	30.2	19.9	17.9	20.5	11.7	28.7	27.5	26.2	32.7	23.2
30	31.4	***	31.8	18.1	16.1	12.8	15.5	28.8	23.2	28.3	32.3	31.5
31	27	***	31.5	***	12	***	18.6	27.4	***	20.8	***	19.8
Avg	27.9	28.1	27.4	21.1=	18.6=	16.2	15.4	20.4	23.7	25.5	25.6	26.7

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2013 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.1	28.3	16.1	25.2	28	26.9	13.1	23	17	29.7	19.9	17.6
2	29.7	34.1	29	22.7	26.7	17	15.8	22.9	23.6	32	18.9	27.3
3	33.3	27.8	29.9	17	25.2	12.3	14.5	21.7	25.2	33.9	27.2	24.8
4	24.1	20.6	34.7	20.6	10.4	15.4	11	22.5	21.1	27.5	32	25.8
5	26.1	25.1	36.6	25.7	17.4	14.2	14.6	21.8	23.7	34.7	36.2	23.3
6	32.8	32.1	33.5	27.2	20.1	21.3	19.7	22.1	25.3	15.1	34.5	22.3
7	28.4	28.8	32.9	29.2	23	24.1	20.5	19.9	28.9	18.2	25.9	24.9
8	38	30.6	32.6	28.9	24.4	22	22.3	13.8	30.4	28.8	28.2	29.2
9	31.4	33.1	21.8	24.4	20.2	9.1	18.9	11.8	18.2	29.2	25.1	25.3
10	29.1	31.4	21.5	14.1	14.1	17.8	15.5	15.1	21.8	33.4	25.5	19.8
11	19.5	29.6	25.9	16.2	13.1	18.9	21.7	20.1	14.3	35.4	24.5	14.7
12	24.1	26.9	32.7	21.3	22.5	19.4	20.7	18.7	15.2	28.7	33.3	19.3
13	35.3	33.4	24.9	27.3	24.9	21.7	21.2	19.3	24.5	17.3	36.5	27.1

14	36.1	34	25.8	28.6	25.8	18.9	17.4	13.8	24	21.7	36.4	26.6
15	24.8	15.8	33	31.3	27.1	14.9	22	18.7	25.4	30.4	18.9	28.5
16	31.9	23	25.6	31.6	20.2	18.3	20.7	18	26.8	30	23.3	21.3
17	34.6	32.6	25	26.8	15.8	18.4	15.1	19.9	29	17.3	21.6	23.8
18	27	34.4	29.8	22.3	18.2	19.5	21.1	13.5	29.8	13.6	21.4	22.8
19	22.9	31.5	24.1	11.5	24.7	21.5	16.8	16.3	32.7	19.1	29.6	30.5
20	30.5	***	28.9	11.4	24.6	22.8	15.7	22.5	21.3	16.4	27.3	33.5
21	28.8	25.7	36.2	13.6	25.7	21.6	16.3	24.5	14.1	13.8	20.1	32.9
22	30.9	31.5	38.2	19	25.8	23.2	20.7	14.7	21.7	17.8	29.9	30.1
23	38.1	28.3	30.3	18.9	25.4	22	21.4	21.7	27.1	20.6	27.1	28.6
24	40.1	29.2	26.7	24.6	25.2	21.6	15.7	22.7	29.5	27.2	26.4	28.6
25	29.1	34	16.9	25.6	26.1	22.9	22	21.6	27.7	25.6	34.8	28.5
26	30.7	36.5	25.5	27.4	25.5	16.8	23.5	27.5	29.6	21.3	34.8	28.6
27	28.3	37.7	23.4	28.8	19.4	13.7	23.5	29	27.6	21	16.2	28.3
28	24.7	29.3	29.8	28	17.9	14.5	14.1	29.9	17.2	23.4	17.7	28.4
29	28.7	***	26.3	21	19.9	20.9	16.7	28	17.2	27.5	30.2	18.8
30	25.4	***	18.6	26.7	20.2	22.2	17.5	12.6	22.9	31.7	20.8	29.8
31	25.8	***	17.4	***	21	***	22.6	13.4	***	22.3	***	27.8
Avg	29.2	29.8=	27.5	23.2	21.9	19.1	18.5	20	23.8	24.7	26.8	25.8

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	35.4	33.5	28.3	27.9	***	22.1	24.5	24.4	22.9	17.7	16.6	***
2	28	***	30.5	24	***	18.3	22.7	23.7	24.1	17.4	25.8	***
3	35.3	***	21.2	18.3	***	19.4	23	24.8	25.7	19.1	23.5	***
4	35.3	***	19.7	20.4	***	22.1	23	22.3	26.7	20.9	22.5	***
5	31.5	***	22.8	19.9	***	10.5	19.9	17	28.1	26.9	20.6	***

6	25.1	***	30.2	22.6	***	10.9	10.1	18.8	29.4	32.2	27.2	24.4
7	27	30.4	32.3	27.8	***	18.5	9.7	15.8	30.1	32.3	22	30
8	24.1	23.3	29	28.7	***	20.2	10.6	18.2	26.2	28.1	32.3	30
9	30.9	30.7	18.2	29.1	***	20.3	12.5	17.3	31.6	17.1	31.7	30.4
10	26.1	28.4	20.9	28.7	***	11.2	14.1	18.5	22.8	18.3	17.2	22
11	26.6	35	26.1	29.2	***	16.8	18.6	19.2	29.4	29	26.3	27
12	32.3	34.9	18.1	29.8	***	20.2	15.3	23.6	23.9	27.5	23.2	27.8
13	24.4	31.3	19.4	29.8	***	22.1	15	25.7	30.4	20.6	21.5	23.1
14	30.8	26.2	26.7	27.9	19.3	20.8	15.2	20.4	33.2	27.3	26.7	32.1
15	36	29.2	30.2	15.9	24.8	16.8	19.6	17.3	28.9	24	22	15.8
16	34.3	26.1	30.3	14.8	17.1	17.9	21.6	20.2	29.2	16.1	15.5	19.6
17	32.9	31.6	26.7	24.4	12.9	18.6	22.3	23.6	29.4	12.6	19	26.1
18	23.3	28.5	30.4	27.9	16.4	20.3	16.6	24.2	***	20.4	23.2	32.3
19	29	23.2	26.6	28.9	17.9	11.8	15.3	25.4	15.8	26.7	25.9	28.3
20	30.1	27	23.7	28.4	17.8	15.3	18	20.5	18.6	***	22.3	27.5
21	26.8	***	27.1	27	16.9	20.8	20.3	19	24.3	***	26.4	31.2
22	33	***	30.6	22.5	21.4	21.5	21.7	15.3	29.7	***	30.5	26.5
23	33.2	***	31.7	12.9	22.8	19.7	17.6	16.9	29.1	***	21	35.3
24	35.4	***	32.9	***	25.7	20.8	25.3	13.3	22.9	25.6	24.1	32.4
25	22.4	24.4	31.4	***	23.9	21.4	23.5	23.1	26.4	20.4	***	36.3
26	27.8	24.7	25	***	24.5	18.3	12.2	25.4	32	19.5	***	25.9
27	35.7	32.9	22.1	***	25.6	13.8	14.7	26.2	13.4	31.7	***	20.6
28	34.8	***	25.7	***	24.8	16	15.9	17.6	14.7	23.5	***	24.9
29	25.5	***	29.6	***	23.3	22.5	20.4	8.1	20.3	32.1	***	26.2
30	20.8	***	24.6	***	20	23.4	21.9	12.4	16.3	31.9	***	24.5
31	23.9	***	30.4	***	23.5	***	22.8	17.2	***	13.4	***	23.1
Avg	29.6	29.0=	26.5	24.6=	21.0=	18.4	18.2	19.9	25.4=	23.4=	23.6=	27.1=

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2015 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30.5	19.2	23.9	31	22.2	14.8	19.3	17.1	15.5	15	25.7	40.4
2	30.9	18.5	20.2	25	22.4	17.9	19.4	19.9	12.8	24	12.5	28.9
3	28.7	24.9	31.1	21.5	23.9	15.7	31.5	22	15	30.1	17.3	30.6
4	28.2	29.7	33.3	24	23	11.8	***	22	17.9	34.5	24.6	36.6
5	32.2	25.6	26.6	14.6	26.5	10.2	***	17.2	22.5	30.8	31.6	25.1
6	28.3	23.2	30.3	16	17.1	11.8	***	22.7	23.7	32.3	31	33.1
7	30.7	26.6	30.4	***	17.8	14	***	25.3	24.7	35.2	29.7	35
8	34.3	33.4	24.3	***	25.2	18.6	***	25.5	13.6	29.3	31.8	29.7
9	22	35.5	31.3	22.4	30.8	18.5	***	23.7	24.2	22.2	29.6	31.5
10	34.5	37.1	32.1	26.8	19.2	21	***	13.5	25.6	31.5	24.3	33.8
11	29.2	26.9	23.7	26.9	16.9	17.1	21.4	16.3	15.7	24.2	28	36.4
12	35.8	36.4	27.7	26.7	25.5	18.2	19.9	15.5	20.5	33.3	19.2	34.4
13	24.3	27.3	25.3	29.1	35.2	20.3	11.3	20.8	18.3	34.2	29.3	21.5
14	24.4	24.9	26	23.3	23.8	29.4	7.2	22.4	28.6	15.5	24.9	19.9
15	33.3	20	32.8	15.4	23.5	22.6	19.6	27	27.6	21.5	21.2	31.6
16	31.3	20	24.9	13.2	20.8	19.2	17.3	21.1	20.9	21.2	26.4	28
17	21.1	25.1	19.1	14.8	21	11.5	11.4	22.6	16.6	30.3	31.2	33.4
18	28.2	33.3	32.6	17.5	29.2	17.3	12.3	27.6	8	33.8	21.5	39
19	25.6	35.5	30	20.1	35.5	16.7	20.2	14.4	12.8	30.3	32.8	36
20	26.6	30.6	17.4	22.3	31.1	20.3	17.1	13.7	26	30.7	33.2	31
21	37.1	24.8	26.9	19.9	32.6	22.1	9.6	18.9	26.2	30.2	12	35.9
22	33.8	22.1	29.2	26.5	21.2	25	11.1	20.1	26.7	18.5	21.6	26.4
23	35.5	32.1	22.6	17.7	24.4	28	15.8	21.1	28.4	24.1	27.4	36.9
24	37.9	28.7	24.8	23.1	25.2	21	13.6	26.9	34.2	33.3	30.4	36.5
25	30.8	27.5	28.3	27.8	28.5	14.9	10.1	28.7	35.7	34.4	32.7	23.2
26	32.8	34.5	25.3	22.7	26.4	15.8	11.8	24.8	26.1	17.7	20.9	28.4
27	20.8	19.8	22	21.4	25.6	9	16.1	22.2	33.4	25.9	19	36.6
28	19.3	24.8	20.5	25.1	28.4	19.7	18.4	27.6	28.1	35.5	26.7	38.3

29	26.3	***	27.4	23.5	30.1	19.7	19.5	25	32.6	34.6	33.5	29.8
30	33.2	***	23.1	18.3	30.4	17.3	15.8	18.9	17.7	31.6	35.9	32.5
31	30.4	***	29.5	***	25.9	***	9.6	21.8	***	20.3	***	34.7
Avg	29.6	27.4	26.5	22.0=	25.5	18	15.8=	21.5	22.7	27.9	26.2	32.1

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	31.8	35.8	34.5	29.6	18.2	23	20.7	14.3	29.4	19.8	25.8	26.6
2	30.9	35.1	30.3	***	20.1	23.4	10.9	19.4	26.8	15.2	27.5	27.3
3	37.6	30.9	30.1	***	18.1	24	16.1	17.4	22.4	15.8	36.5	37.4
4	38.3	21.2	30.9	***	19.5	12.1	20.6	13.9	20.7	19.8	32.3	29.9
5	42.9	23.4	36	***	24.6	14	22.2	20.2	29.8	28.2	16.7	25.5
6	37.7	30.6	31.6	***	23.5	22.4	18.3	22.1	21.8	29.5	19.4	36.7
7	21.6	25.6	31.4	***	12.8	23	12.2	21.8	24.2	20.2	29.4	30.2
8	19.9	24	19.4	***	13.2	21.6	19.2	14	28	26.3	26.9	37.3
9	29.8	26.2	22.4	***	19.8	22.6	17.1	21.5	19.8	16.8	31.9	33.6
10	31.3	29.5	29.1	***	18.6	20.4	19.7	23.5	14	26.7	18.2	21.2
11	29.4	33.5	21	***	20.3	11.7	22.7	25.3	24.8	31.9	15	24.9
12	30.5	33.9	24.7	28.4	25.5	11.4	21.1	25.1	23.6	20.2	27.7	34.2
13	29.7	35.4	29.6	***	22.8	15.6	21.5	24	14.1	20.5	21.9	27.2
14	31.5	34.8	18.2	***	20.3	14.5	21.1	20.7	19.3	27.9	23	32.6
15	19.9	26.5	30.8	***	21.7	16.5	21	16	27.6	34.6	26.4	35.8
16	26.4	19.3	20.7	30.4	23.5	14.1	13.8	16.8	23	18	34.2	27.9
17	23.5	25.3	28.6	26	22.8	17	17.8	20.9	15	19.9	24.8	33.3
18	32	26.4	30.4	28.1	23.4	20	21.3	18.8	11.5	21.9	22.9	39.3
19	31.6	33	24.1	27.4	24.5	21.4	23.7	21.7	23.1	24.2	27.6	39.5
20	32.2	25.1	24.2	27.4	16.5	17.4	24.2	14.5	27.5	29.6	29.8	23.2

21	32.6	25.8	29.2	23.7	24.7	12.2	22.2	21.7	30.1	30.6	33	36.5
22	29.6	26.9	36	22.9	24.9	15.1	17.1	16.2	22.5	32.3	28.1	35.3
23	27.5	33.4	37	21.1	23	21	11.1	19.6	18	22.1	33.1	37.6
24	29.3	35.8	25.7	25.9	22.6	22.4	9.6	24.2	22.3	29.6	29.1	26.1
25	26.8	31.7	20.4	29.4	17.3	21.8	5.7	27.4	22.1	27.4	26.6	27.7
26	25.2	31.3	23.9	17	21.7	20.9	15.3	22.2	32	32.1	27.8	31.7
27	32.7	21.6	37.4	27.2	22	20.9	13.6	29	26.7	36.6	33.9	31.6
28	29.4	27.3	***	28.1	23.1	18	14.7	29.6	18.6	27.4	35.3	26.8
29	31.3	33.6	***	25.9	23.9	21	14.1	29.3	24	26.5	27.9	17.3
30	34.4	***	***	12.4	23	20.5	15.7	30.7	22	26.8	31.1	28.4
31	33.3	***	25.4	***	22.6	***	16.1	30.2	***	28.3	***	32.5
Avg	30.3	29.1	28.0=	25.3=	21.2	18.7	17.4	21.7	22.8	25.4	27.5	30.8

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	31.8	35.7	30.4	24.5	26.5	24.6	17.1	22.4	16.3	27	33.6	34.3
2	33.5	28.1	29.2	32.9	24.4	24.8	21.2	24	22.5	28.3	32.3	31.9
3	19.1	28.1	30.3	26.9	21.3	23	15	24.7	22.4	31	34.5	27.8
4	18.7	27.8	28.4	33.8	21.5	23.5	18.9	16.9	27.7	23.2	29.6	22.1
5	19.6	18.6	29.5	34.5	26.3	20.5	22.6	15.9	27.1	12	29.2	22.5
6	17.8	27.2	31.4	14.7	24.5	23.2	24.1	17.3	27.9	20.3	24.4	21.7
7	20.1	31.5	33	19.7	21.4	22.2	23.9	17.1	28.9	24.8	19.5	29.9
8	23	31.2	33.9	23.8	22.1	10.2	21	19.5	29.9	19.1	18.8	34.3
9	29.6	28.2	18.6	28.6	24.9	16.1	22	25.3	25.1	9.4	22.2	31.2
10	15.8	28.1	***	26.6	24.4	21.9	15.3	25.2	32.1	13	16.4	20.9
11	23.9	31.6	***	20.4	24.2	17.9	16.2	25.9	31.7	21.2	29.7	19.2
12	27.3	26.3	***	26.1	10.6	22.4	16	19.7	33.9	18.7	35.8	27.8

13	19	29.9	***	23.5	11.9	22.1	14.7	11	33.8	17.3	31.7	28.6
14	23.6	24	***	15.4	11.2	17.1	16.3	23.4	19.3	30.4	25	22
15	28.2	25	***	12.8	16.3	16.3	19.1	24.7	23.2	26.9	15.4	31.2
16	16.6	31.6	***	***	21.1	16.5	12.5	13.6	19.1	21.9	10.8	35.6
17	21.1	28.8	32.9	***	21.8	21.3	15.5	7.3	14.6	15.2	18.4	27.1
18	33.7	31.9	32.4	20.8	22.5	17.3	19.4	10.4	23.4	26.7	25.3	18.6
19	34.8	18.4	22.7	22.5	25.5	21	21.3	13.7	27.3	22.7	28.8	23.8
20	26.3	18	31.8	20.7	25.6	18.6	18	19.9	22	21.7	34.8	27.8
21	26.8	16.8	31.9	22.4	25.2	19.4	21.3	24.2	32.6	23.7	32.4	31.3
22	37.1	21.2	32.4	26.6	24.4	19.8	19.8	19.9	27.6	29.6	23.4	25
23	36.2	22.5	31.8	20.4	24.3	10.6	16	19.1	16.3	31.7	21.5	26.2
24	29.3	25.6	18.8	18.8	24.6	16.3	***	13.1	27.8	31.6	22.5	26.8
25	25	29.3	17.2	21.8	19.8	18.4	23.3	14	24.9	31.1	21.3	23.2
26	26.9	21.5	25.6	26.5	19.8	19.1	15.5	19.6	16.1	23.5	24.2	22.6
27	33.4	26.8	28.7	24.9	14.5	19.6	21.3	16.3	19.6	14.9	21.4	32.6
28	25.5	32.6	23.8	***	14.5	16.7	22.9	25.8	21.7	19.4	31.3	24.4
29	30.9	***	25	***	18	17.4	23	27	30.8	28.1	24.9	20.9
30	33.9	***	33.8	26.5	21.2	21.7	17.7	17.8	22.9	31.3	28.7	30.4
31	31.7	***	31.9	***	23.6	***	22.3	23	***	32.5	***	31.9
Avg	26.5	26.7	28.6=	23.7=	21.2	19.3	19.1=	19.3	24.9	23.5	25.6	26.9

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25.2	26.1	27.2	27.5	24.5	18.3	21.6	17.2	23.5	31.8	18.5	33.7
2	26	27.9	23.8	29.9	24.9	19	18.3	14.7	24.5	26.2	19.7	31.5
3	27	23.4	23.9	22.7	16.3	17.2	11.5	15.5	16.3	13.3	29.6	31.5
4	34.8	29.9	27.5	22.4	18.3	11.7	16.6	21.4	25.3	18.8	30.8	29.6

5	37.1	30.9	25.2	24.1	25	17.4	16.4	15.1	28.3	25.9	28.2	29.9
6	33.4	36.3	28.2	27.1	26.2	21.9	17.6	17.4	11.8	29.7	17.1	37.4
7	37	20.2	29.3	26.9	25.8	22.2	18	12.7	13.4	30.5	17.7	32.6
8	29.6	31.8	18.8	17.1	25.5	22.2	18.3	10.8	11.2	32.9	26.7	23.8
9	25.5	33.9	20.4	21	23.1	21.3	19.4	9.2	11.2	34.8	26.9	16.3
10	27.9	30.7	27.3	15.9	24.5	15.5	18.8	10.6	19.1	34.7	33.2	20.9
11	35	17.1	28.2	16.8	25.1	17.7	20.4	16	23.6	35.6	29.5	33.1
12	36.1	25.1	***	24	16.6	21	21.6	21.6	23	16	38.8	37.4
13	37.5	25.4	30.5	23.4	16.9	19.5	19.5	25	22.7	13.7	38.4	27.3
14	37.4	29.3	30	20	15.8	20.1	11.5	21	21.6	23.1	33	33.1
15	30.4	27	25.9	22.9	16.4	16.4	9.3	21.5	22.7	23.6	35.6	33.1
16	29.3	28.5	15	22.2	19.9	13.9	14.8	24.2	24.5	20.2	35.3	37.1
17	35.1	24.7	17.2	21.5	22.2	19.4	19.1	15.3	27.2	15.2	25	39.9
18	33.4	33.1	23.2	23.4	19.9	21.8	19.1	16.3	26	25	22.6	33.1
19	29.3	25.3	25.9	19.6	22.4	18	19.9	22.7	20.2	25.7	31.6	25.8
20	28.9	26.9	28.5	19.6	19.8	15.1	19.7	25.6	15.1	16	34	24.8
21	31.1	20.7	23	22.7	18.5	22.5	19.9	12.2	22.6	16.9	17.3	32.5
22	21.8	29	16.7	25	19.9	19.4	21.2	18.2	21.7	26	21.9	34.6
23	27.4	29.5	22.6	26.2	23.2	22.1	22.1	18.5	24.3	29.7	29	35.3
24	27.2	24.8	28.4	27.8	23.2	20	22.2	20.8	23.6	31.8	33.9	31.7
25	25.4	17.2	24.3	29.1	16.8	19.4	22.7	24.5	27.5	32.7	37.3	36.2
26	28.5	23.7	23.7	25.3	17.1	21.3	23.6	16.7	27.4	33.7	33.8	37.3
27	27.1	30.6	29.8	***	19.5	19.6	23	13.9	29.2	34.1	32.5	31.4
28	22	32.8	31.3	21.8	23.5	12.6	17.7	17.2	27	35.3	17.6	25.6
29	29	***	28	23	17.7	18.6	21.4	22.8	20.5	37.7	24.5	35.4
30	31.4	***	20.4	18.7	18.2	19.1	17.7	26.4	29.8	29.7	33.9	33.9
31	21.9	***	20.4	***	18.3	***	23.1	26.2	***	16.6	***	35.2
Avg	30	27.2	24.8=	23.0=	20.8	18.8	18.9	18.4	22.2	26.4	28.5	31.6

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2019 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.4	21.1	29.2	22	24.2	22.1	20.4	16.6	22.1	17	29.2	19.3
2	19.9	27.2	28.4	18.5	27.9	20.6	15.9	23.9	23.7	24.2	32.2	39
3	21.8	25.2	25.5	28.1	28.1	22.6	19.6	17	27.9	28.8	32.8	24.7
4	33.9	23.5	31.6	27.9	16.3	23.4	20.5	21.9	23.6	27.6	26.7	21.2
5	28.7	29	26	15.1	21.6	20.2	13.4	24	15.5	30.6	36.4	27.7
6	27.9	30.6	35.4	15.5	22.2	14.4	17.8	23	16.5	35.1	34.1	32.6
7	32.9	27.7	34.7	24.8	27.8	19.1	16.9	26.1	26.5	29	***	33.5
8	32.4	35.6	16.8	25.2	22.2	18.4	18.6	16.3	28.7	25.1	24.1	21.2
9	31.1	30.5	19.4	23.9	17	23	22.6	16.6	29.4	20.5	26.8	16.1
10	30	25.7	20.2	25.4	20.4	21.9	26.2	24.4	31.6	13.9	19.8	18.2
11	35.7	26.1	21.8	26.9	22.8	22.5	25	23.2	30.5	29.7	25.6	27.2
12	35.5	25.6	26.9	28.9	26.5	23.1	18.2	16.9	30.4	32.2	33.3	27.1
13	36	24	30.4	29.5	25.9	11.8	23.8	20.7	19	21.4	27.5	25.5
14	35.7	25	23.3	27.3	26.7	19.1	24.2	20.3	18.2	33.7	20.9	35
15	29.6	25.6	25.9	19.7	25.8	21.4	24.7	25.8	27.2	25	23.9	20.7
16	25.6	29	27.7	20.4	25.4	21.1	23.4	29.4	31.4	33.1	27.3	25.4
17	33.1	25.3	29.7	19.9	24.7	20.5	23.3	18.7	32.4	36.9	21.8	37.1
18	39.6	27.1	26.1	24.3	26.5	20.6	22.8	27.4	27.7	35.4	25.3	34.8
19	25.7	31	31	29.2	27.2	21.6	20	19.6	29	33.7	28.4	33.6
20	27.5	34.5	24.7	26.6	26.3	21.4	10	17.8	34.3	35	26.1	34.2
21	36.7	23.3	23.5	13.1	17.5	21.7	14.8	24.1	33.2	24.1	30.6	37.1
22	38.8	25.1	22.4	12.3	22.5	18	20.8	26.1	15.9	18.9	31.8	24.9
23	28.6	30.1	27.5	14.6	21.4	13.3	22.5	27.8	16.5	24	30.2	35.4
24	23.3	29.2	28.3	19.4	23.3	19.1	14.5	28	18.4	28.6	32	36.1
25	26.6	30	20.7	20.9	25.9	15	20.4	27.7	18.8	26.9	29.9	35.6
26	20.4	32.2	15.6	22.5	25.2	17.9	20.3	26.9	***	30.9	33.9	35.1
27	30.1	26	26.1	23.8	19.6	20.2	24.1	23.9	30	32.4	38.1	23.6

28	32.5	29.6	27.2	26.2	14.5	22.1	24.5	15.2	30.7	22.9	39.7	25.9
29	35	***	25.1	28.3	16.4	22.5	25.1	21	29.6	20.9	37.1	30.7
30	31.2	***	29.6	25.8	23.3	24.8	24.3	20.6	15.7	23.2	34.9	33.1
31	26.2	***	28.8	***	21.9	***	18	15.1	***	22.4	***	20.4
Avg	30.5	27.7	26.1	22.9	23.1	20.1	20.5	22.1	25.3=	27.2	29.7=	28.8

Daily Maximum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28.6	32.9	28	19.8	23.7	26.5	---	---	---	---	---	---
2	34.5	30.9	25.7	19.9	24.1	25.1	---	---	---	---	---	---
3	34.9	33.3	26.2	25.1	24.1	25.4	---	---	---	---	---	---
4	37.8	35.5	31.6	26.1	17.6	21.5	---	---	---	---	---	---
5	36.3	32.8	32.2	29	21.2	22.7	---	---	---	---	---	---
6	33.2	22.7	29.2	26.1	19.6	22.4	---	---	---	---	---	---
7	30.4	19.5	33.7	16	22.3	22.2	---	---	---	---	---	---
8	26.2	24.8	32.8	17.4	23.5	21.9	---	---	---	---	---	---
9	27.1	26.3	25.8	26.3	24.8	22.1	---	---	---	---	---	---
10	20.4	21.8	24.8	23	25.4	23	---	---	---	---	---	---
11	31.7	23.2	24.2	25.2	25	12	---	---	---	---	---	---
12	***	29.8	24	23.5	24.3	10.2	---	---	---	---	---	---
13	29.1	31.5	28.6	19.6	18.6	14.9	---	---	---	---	---	---
14	30.2	34.2	28.8	13.9	18.5	16	---	---	---	---	---	---
15	33.7	30.4	25.6	17.9	21.3	15.3	---	---	---	---	---	---
16	35.5	31.8	17.1	20	18	13.4	---	---	---	---	---	---
17	37.8	26.9	26.3	23.6	23.6	15.3	---	---	---	---	---	---
18	19.8	17.6	27.1	24.3	25.1	17.3	---	---	---	---	---	---
19	16.7	27	27.5	28.4	25.8	19.5	---	---	---	---	---	---

20	21.5	29.4	28.7	30.9	24.6	19.2	---	---	---	---	---	---
21	25	30	24.9	19.7	24.5	19.7	---	---	---	---	---	---
22	26.5	30.9	29.7	22.7	24.3	19.3	---	---	---	---	---	---
23	20.9	18.2	28	24.2	23.5	21.5	---	---	---	---	---	---
24	31.6	24.4	27.5	21.6	22.7	***	---	---	---	---	---	---
25	30.3	29.8	29.8	17.9	22.5	***	---	---	---	---	---	---
26	31.5	31.6	19	20.1	10.4	***	---	---	---	---	---	---
27	21.9	24.4	18.9	14.2	11.5	***	---	---	---	---	---	---
28	29.7	15.7	26.6	14.6	17.7	***	---	---	---	---	---	---
29	30.2	19.1	21.6	17.3	20.4	***	---	---	---	---	---	---
30	27.3	***	28.1	22.6	22.4	***	---	---	---	---	---	---
31	36.9	***	28.3	***	24.3	***	---	---	---	---	---	---
Avg	29.2=	27.1	26.8	21.7	21.8	19.4=						

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	26	26.6
2	---	---	---	---	---	---	---	---	---	---	28.6	35.1
3	---	---	---	---	---	---	---	---	---	---	32	26.1
4	---	---	---	---	---	---	---	---	---	---	26.8	25.3
5	---	---	---	---	---	---	---	---	---	---	27.7	24.7
6	---	---	---	---	---	---	---	---	---	---	15	15.9
7	---	---	---	---	---	---	---	---	---	---	26.2	20.6
8	---	---	---	---	---	---	---	---	---	---	25	22.9
9	---	---	---	---	---	---	---	---	---	---	29.8	28.7
10	---	---	---	---	---	---	---	---	---	---	24.5	36

11	---	---	---	---	---	---	---	---	---	---	29.2	29.4
12	---	---	---	---	---	---	---	---	---	---	24.6	29.2
13	---	---	---	---	---	---	---	---	---	---	32.4	23.7
14	---	---	---	---	---	---	---	---	---	---	30.7	21
15	---	---	---	---	---	---	---	---	---	---	20	23.5
16	---	---	---	---	---	---	---	---	---	---	16.5	22.1
17	---	---	---	---	---	---	---	---	---	---	23.1	25.3
18	---	---	---	---	---	---	---	---	---	---	28.6	19.4
19	---	---	---	---	---	---	---	---	---	---	31.5	24
20	---	---	---	---	---	---	---	---	---	---	18.9	33.6
21	---	---	---	---	---	---	---	---	---	---	26.8	33.2
22	---	---	---	---	---	---	---	---	---	---	22.6	28.3
23	---	---	---	---	---	---	---	---	---	---	24.2	36.9
24	---	---	---	---	---	---	---	---	---	---	22.2	23.6
25	---	---	---	---	---	---	---	---	---	---	22.4	23.1
26	---	---	---	---	---	---	---	---	---	---	35.3	25.3
27	---	---	---	---	---	---	---	---	---	---	17.1	27.6
28	---	---	---	---	---	---	---	---	---	---	21.5	27.7
29	---	---	---	---	---	---	---	---	---	---	29.8	29.2
30	---	---	---	---	---	---	---	---	---	---	24.7	35.1
31	---	---	---	---	---	---	---	---	---	---	***	36.4
Avg											25.5	27.1

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	30.9	25	31.1	26	22.6	21.8	17.8	27.9	30.6	38.6	26.1	27.3
2	27.6	25	23	32.6	22.9	22.7	26	27.2	20.3	24.1	37.5	18.5
3	34.3	32.2	20.3	32.6	21.8	22	24.8	27.6	21	24.5	33.5	28.9
4	21.4	24.7	27.4	19.3	27.2	19.3	24.2	27.6	29.5	15.5	28.1	24.8
5	25.6	30.5	31.8	22.2	26.5	21.5	23.4	28.3	28	24.2	18.1	23.8
6	37	36.7	32.2	28	27.6	28.4	27.3	21.8	23	25.5	18.5	21.4
7	27.9	36.8	31.3	27.9	21	31.9	13.4	27.6	18.8	35.8	23.8	23.1
8	28.2	34.7	32.6	29.2	24.2	28.8	20.4	31.4	21.5	25	37.1	23.2
9	28.9	35.1	36.6	33.8	31.9	17.3	25.4	15.6	26.2	20.3	17.5	26.6
10	33.6	38	32	20.5	27.7	12.5	25.7	14.9	23	36.8	15.9	30.5
11	25.5	30.6	31.2	25.4	21.8	15.5	15.4	17.5	21.1	29.7	29.4	19.6
12	27	38.6	32.2	29.2	20.9	20.1	10.8	23.2	33.9	12.5	23.9	19.9
13	26.5	24.9	25.1	33.9	29	22.8	17.2	26.1	36.7	16	26.9	27.7
14	37.6	26.2	19	34.6	26.9	22.7	20.8	26.6	37.5	24	20.5	19.6
15	26.9	34.8	24	25.3	15.5	12.7	18.9	24.5	29.1	18.8	31.4	20.5
16	21	33.3	27.7	20.3	25.4	13	17.5	20.4	22.1	16.3	23.5	19.2
17	29.1	18.5	20.6	28.4	27.9	14.4	22.6	29.3	20.1	24.3	16.4	25.3
18	38.3	27	24.6	23.5	28.9	18.1	25.7	32.4	29.8	33.4	24.3	27.6
19	26.8	27.9	29.7	27.5	23.4	21.9	26.9	12.4	27.4	26	31.3	25.8
20	21.3	30.2	27.9	19.6	25.4	23.2	26	18.4	23.1	31.2	34.9	25.5
21	26.9	36.9	31	22.6	26.2	23.2	23.3	32.7	28.3	33.8	21.6	27.3
22	31.5	29.4	30.7	25.9	26.9	17	26.1	32.3	24.9	30.8	22.3	32.9
23	27.6	27.8	26	17	27.3	17.4	27.4	21.5	30.5	18	17.9	27.1
24	33.1	30.1	30.1	18.5	28.3	21.9	23.9	19.5	19.7	21.6	17.4	28.6
25	28.9	30	32.5	24.4	28.5	26.7	19	***	21.7	19.2	26	22.9
26	20.9	22.8	32.2	27.7	27.4	24.7	27.9	29.7	28.5	20.3	27.4	23.1
27	29.7	22.7	31.1	27.2	29.5	12.7	29.5	22.8	22	23	32.6	27.6
28	20.4	26.2	24.8	24.8	24.6	20.5	24.1	31.4	22.5	16.8	24.7	28
29	22.7	***	29.7	20.7	17.4	25.9	14	20.4	32.7	24.4	20.7	30.2
30	25.7	***	23.8	25.8	19.8	15	19.2	36	35.3	24.2	26.7	19.4
31	31.3	***	23.2	***	20	***	28.3	34.9	***	22	***	21.7

Avg	28.2	29.9	28.2	25.8	25	20.5	22.4	25.4=	26.3	24.4	25.2	24.8

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28.1	29.4	27.8	29.1	22.5	19.7	17	21.8	23.7	27.8	18.9	26.4
2	30.2	28.2	35.5	20.1	29	22.4	19.4	22.9	***	17.6	24.8	24.4
3	19.8	28.8	28.4	20.3	25.6	24.7	14.8	25.8	***	12.5	32.3	23.3
4	20.8	29.1	26.2	22.7	23.1	21.8	14	27.9	***	22.4	20.1	25.9
5	25.1	30.7	29.3	22.2	28.7	17.9	10.6	19.8	***	17.8	25.8	32.9
6	26.6	32.2	32.2	22.9	19.8	15.9	15.7	11.9	***	23.4	22.8	30.8
7	29.2	28.5	30.7	21	19.4	14.9	17.4	18.1	***	31.4	31	36.4
8	32.4	33	32.8	21.5	14.1	14.6	17.2	23	29.4	33.9	39.4	18.2
9	30	28	25.4	29.4	19.7	17.4	17.9	18.5	22.8	34	26.3	15.2
10	25.1	26.2	32.7	27.1	24.7	16.4	20.3	17.4	22.4	34.4	20.9	24.1
11	20.8	32	27.9	28	28.2	19	20.2	24.6	24.8	32	20.4	27.5
12	25.6	30.6	29.1	26.7	20.4	15.8	22.1	29.1	20.3	25.1	23.3	26.6
13	28.2	31.3	28.2	23.3	23.2	21.5	20.7	13.6	18.8	23.6	25	34.2
14	30.2	29.6	25.1	23.6	23.2	22.9	20	11.2	15	31.6	23	27.1
15	25.2	28.6	25	23.4	23	26	20.1	13.1	26.7	22.9	25.3	22.1
16	35.7	27.5	28.7	17.1	21.1	19.9	19	17.3	19.7	19.3	28.8	25.2
17	26	26.5	24.8	15.4	21.3	17.7	18.7	19.9	29.6	16.8	21.1	25.7
18	30.8	21.9	23.8	22.4	21.5	18.5	21.9	23.7	34.4	28.2	25.5	32.2
19	34.7	25.7	22.9	26.9	19.5	26.5	22	22.6	20	26.9	18.6	33.7
20	26.3	27.8	28.7	29.4	24.1	18.8	17.6	19.4	21.4	23.5	33.9	25.1
21	24.5	27.4	29.8	20.7	24.9	17.8	20.4	30.5	16.5	28.4	22.3	34.7
22	27.7	27.5	29.9	20.3	28.4	24.4	19.9	32.1	21.9	34.3	16.1	27.2

23	22.5	29.3	34.2	23.8	25.7	18.7	24.6	27.7	21.8	25.4	23.3	16.9
24	19.9	28.9	27.6	28.3	19.1	15.3	18.7	***	16.5	26.2	14	21.7
25	20	28.2	22.3	26	18.4	16.2	9.3	***	28.7	21.1	19.7	29.9
26	25.9	28.2	26.5	27	13.2	15.6	10.6	***	35.2	22.6	24	24.9
27	25.7	29.3	20.2	18.2	15.6	16.7	17.3	***	20	26.6	21.4	32.5
28	26.1	28	29.4	19	18.4	21.6	20	***	24.8	24.9	18.2	19.3
29	28.4	***	28.5	23.8	18.4	24.9	12.5	***	23.7	24.2	27.5	23.9
30	32.2	***	28.9	20.2	22.9	18.6	17.7	***	19.3	22.3	32.1	30.6
31	27.2	***	33.1	***	16.5	***	20.5	***	***	21.7	***	21.3
Avg	26.8	28.7	28.2	23.3	21.7	19.4	18	21.4=	23.2=	25.3	24.2	26.4

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2013 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.3	27.4	17.3	28	30.2	31.6	14.2	25.5	21.5	32.9	25.4	16.4
2	26.2	31.3	23.5	28.2	30.4	21.2	17.9	26.2	24.4	34.4	20.1	22.2
3	35.8	27	27	20	29.2	18.1	17.2	25.3	27.4	30.8	25.3	28.4
4	25.1	19.4	29.4	21.1	14.9	19	11.8	24.7	21.8	26.8	32	25.3
5	25.9	22.6	37.9	26.4	17.9	17.9	14.7	25	25.5	29.5	36.9	20.9
6	32.1	26.1	32.2	30.2	20.6	21.4	22.4	26.4	27.4	15.9	37.3	25.6
7	26.9	26.4	27.3	31.2	26	25.3	23.3	24.6	33	13.9	21.4	22.4
8	36.2	26.9	35.4	28	29	27.8	24.2	20.2	24.8	24.1	26.3	27
9	24	25.8	22.4	23.2	17.1	11.9	19.1	15.5	16.2	30.1	25	25.1
10	22.2	29	18.7	17	14.1	17.4	17.7	17	23.9	32	26.2	20.2
11	16.4	30.4	24.4	17.7	14.5	23.5	23.3	23.1	13.6	36.1	24.3	15.8
12	20.5	26.8	29.3	21	22.7	22.3	24	20.6	16.8	25.9	29.5	19.1

13	29.9	34.2	24.8	26.6	25.4	27.6	26.7	23	24.5	19.2	33.7	23.8
14	31.5	33.2	26.3	31.2	27.4	25	19.1	19.9	30	22.8	34	24.7
15	21.1	19.7	31.1	33.8	28.8	18.3	24.4	20.7	32.7	29.3	19.4	26.1
16	26.5	21.2	24.7	34.6	24.8	18.6	20.5	22.5	27.1	25	22.8	24.3
17	32.9	26.9	25.4	31.3	16.2	19.7	15.3	28.1	30.7	13.7	28.7	18.8
18	28.4	33.4	29.6	24.2	19.1	23.5	21.3	18.8	27.6	14.3	24.2	23.3
19	19.9	35.2	25.6	12.4	26.2	27.1	23.8	17.8	37	17.1	25.2	27.1
20	28.7	21.2	26.2	13.5	26.5	25.5	20.1	26	25.7	21.6	32.3	31.4
21	28	24.2	35	12.5	28.1	25.9	19.9	30.5	19.2	17	20.8	34.1
22	30	28.3	36.9	19.9	28.5	18.9	24.4	17.2	22	18.1	28	28.1
23	34.9	26.8	27.3	20.1	29.1	24.7	26.9	22	30.4	22.9	26.3	26.7
24	34.6	28.3	24.2	24.5	21.6	25.6	16.9	23.8	23.9	27.3	25.5	28.3
25	27.2	32.6	17.8	28	30.6	28.9	21.8	22.7	27.9	30.4	32.3	28.2
26	25	37.1	23.8	29.4	30.1	18.8	28.5	34.3	28.4	19.2	29	28.7
27	27.7	35.9	22.5	30.1	22.6	16.7	29.3	34.2	32.4	19.4	17.2	30.8
28	21	26.4	30.6	31	20.7	17.6	18.6	35.3	22.5	26	18.2	27.4
29	24.6	***	25.5	22.2	19.6	22.1	19.5	34.3	19.9	27.8	26.7	19.8
30	29.1	***	21.5	25.1	24.2	22.3	19.8	13.6	22.6	32.2	23.4	30.6
31	28.3	***	21.9	***	21.5	***	25	18.4	***	22.7	***	27.7
Avg	27.1	28	26.6	24.7	23.8	22.1	21	23.8	25.4	24.5	26.6	25.1

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32.1	30.8	28.6	29.4	22.6	29.9	29.8	21.1	22.1	19.2	19.3	***
2	28.2	22.8	32.3	26.4	30.3	22.4	27.8	27	27.6	17.4	24.2	***
3	34	25.1	21.1	23.3	32.7	22.7	28.4	31.1	31.1	19.9	24.3	***

4	33.3	30.1	19.5	22.6	34.1	30.1	28	28.9	28.8	23	25.7	***
5	31.6	27.3	21.8	22.2	18	19.4	25.7	22	31.9	26.5	23.9	***
6	29.1	25.6	25.6	23.4	19.8	15.3	14.5	22.8	34.2	34.8	23.7	***
7	29.1	30.5	33.1	27.9	27	19.9	13.1	19.8	31.7	36.4	18.7	***
8	29.4	27.8	26.3	27.4	29.3	27.1	14.3	24.1	23.4	21.1	28.9	***
9	31.4	27.7	19.2	28	30.7	27	17.2	25.5	31.4	17.6	31.4	***
10	24.7	28	21.2	28.7	20.4	16	17.4	21.8	20.6	21.8	***	***
11	24.5	34.5	26.6	30.4	20.3	19	21.5	23.8	28.1	26.6	***	***
12	30.7	33.1	18.6	31.4	23.9	22.4	18.2	26.9	24.7	27.3	***	***
13	23.1	33.3	20.8	32.4	21.5	24.4	18.8	28.9	29.1	23.5	***	***
14	26.4	29.8	28.8	31.5	19.5	26.7	17	22.6	29.8	24.8	***	***
15	38.2	31.4	30.5	18	24.5	23.9	21.9	17.9	31.1	24.2	***	***
16	32.2	30.1	28.4	16.4	21.7	21	28.8	22.6	32.4	18.4	***	***
17	30	33.6	25.7	22.2	19.4	21.1	28.4	27	25.5	15	***	***
18	21.7	33.1	28.1	29.5	20.7	25.3	22.3	31.2	32	20.4	***	***
19	28.4	30.5	25.4	27.9	24.1	16.9	20.1	31.6	23.2	24	***	***
20	29.7	28.1	24.3	25.7	22.3	19.8	19.4	21.8	21	20	***	***
21	27.6	18.2	27.2	28.6	20.3	23.5	21	22.1	25	23.1	***	***
22	33	24.4	33.6	26.3	23	26.6	25.3	19.9	30.6	25.9	***	***
23	36.5	27.6	33.5	16.3	28.6	25.9	21.2	20.6	33.6	30.4	***	21
24	35.4	30.3	33.9	14.5	30.9	25.9	28.2	17.5	27.9	25.4	***	27.3
25	21.2	26.1	35.4	21.3	27.3	24.9	29.3	22.3	28.7	20.1	***	37.6
26	26.3	25	21.8	25.5	27.4	24.6	18.7	24.6	31.3	17.4	***	23.7
27	32.7	28	23.5	18.7	27.8	18.9	19.3	32.5	18.5	30.3	***	20.2
28	34.7	29.2	25.2	24.2	26.7	19.3	17.9	26.7	15.5	31	***	25.9
29	31.8	***	31.6	28.7	23.1	26.8	24.5	14.6	22	32.9	***	25.3
30	20.5	***	25.1	22.1	26.3	27.7	27.1	17.2	23.5	26.3	***	22.5
31	21.9	***	32.6	***	24.8	***	26.9	20.2	***	15	***	20.4
Avg	29.3	28.6	26.8	25	24.8	23.1	22.3	23.8	27.2	23.9	24.5=	24.9=

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2015 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27	18	27.1	33.5	23.1	19.2	19	19.3	23	15.2	23.5	***
2	29.6	20.2	17.8	26.7	22.9	22.4	21.5	24	18.7	24.6	18.3	***
3	23.9	26.4	28	21.3	24.9	24.3	25.7	27.2	16.8	27.9	19.1	***
4	21.3	29.3	35.3	24.4	23.9	16.5	22.9	27.7	18.9	30	23.5	***
5	29.9	24.3	26.5	18.9	30.4	12.6	***	21	22.6	25.3	34.5	***
6	24.4	24.1	25.3	19.8	20.9	16.3	***	22.3	25.2	30.5	36.3	***
7	25.5	27.1	32.3	17.1	20.6	19.7	21.3	27.6	29.3	33.3	30.6	***
8	33.6	33.5	26.7	21.5	26.7	20.8	26.1	28.7	16	28.3	28.1	***
9	21.5	35.1	29.7	23.3	32.3	21	17.7	19	25.2	21.3	23.3	***
10	30.2	33.5	35.7	26.7	19.3	23.8	20.3	15.9	28.9	32.8	18.6	***
11	25.7	21.7	25.2	28.6	21	20.9	25	16.7	16.4	23.5	22.1	***
12	36.2	34.2	30.1	28.2	19.9	20.7	26.8	21.1	18.1	29.5	14.8	***
13	26.8	27.1	25.7	31.4	25.9	25.3	13.3	26.8	18.2	37	25.1	***
14	24.5	28.7	26.7	19.3	21.5	25.9	12.5	20.4	30.5	16.6	20.9	***
15	31.9	23.3	35	19.3	23.6	25.1	23.2	28.8	29.1	22	22.8	***
16	32.4	22.5	22.8	15.1	22.1	24.9	15.9	20.4	19.7	20.3	24	25.1
17	23.3	24.3	18.8	18.3	21.6	16.2	17.4	21.5	15.7	28.5	31.7	25.3
18	26.7	33	28.6	20.7	28.5	19.6	18.4	24.5	11.2	33.7	14.8	35
19	26.4	30.7	28.1	21.6	31.1	19	23	17.4	12.5	30.3	27.9	30.3
20	18.8	25.8	30.2	24.7	28.4	22.4	17.4	17.6	25.1	35.8	***	27.4
21	29.5	27	32.3	21.7	30.8	24.3	14.6	22	27.6	32.8	15.1	26.7
22	29.1	19.8	28.2	27.7	22.6	24	13.4	19.9	21.2	17	***	22.5
23	33.1	28.4	22.1	20	29.7	26.7	17.2	22.9	27.2	19.6	***	32.8
24	37.6	30.9	23.7	23.5	25.4	26.9	15.4	28.4	34.7	24.9	28.2	30.2
25	35	28.1	30.3	29.3	16.9	18.5	13.2	31.3	37.1	36.1	31.7	17.6

26	35.8	32.9	26.1	23.2	16	18.1	14.1	30.5	25.5	18.1	***	25
27	25.3	22.4	24.8	22.8	22.6	12.5	19.3	27.9	31.5	20.5	***	31.4
28	19.3	26	21.5	24.2	30	20.6	22.2	31.2	24.6	29.7	***	37
29	24.3	***	25.4	24.2	29	19.3	25.4	22.8	26.1	32.8	***	28.4
30	30.1	***	22.7	22.5	30.2	18.1	21.2	20.6	19.7	27.7	***	28.6
31	31.2	***	27.1	***	22.3	***	13.1	22.7	***	18.3	***	36.2
Avg	28.1	27.1	27.1	23.3	24.6	20.9	19.2=	23.5	23.2	26.6	24.3=	28.7=

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30.9	34	37.6	31	19.5	27.8	28.6	17.7	25.5	22.7	24.5	25
2	29.5	37.2	27.4	25.5	23.4	26.1	14.8	23.2	24.2	17.1	23.9	26
3	34.6	30.1	28	24.7	22.3	28.4	17.3	22.2	25.1	16.5	41.2	34.1
4	33.6	19.5	29.7	30.7	22	15.7	22.8	17.6	24.4	19.8	27	27.2
5	42	22.4	39.2	20.3	25.3	17.9	29.8	25.3	34.3	27	18.2	21.9
6	31.9	25.6	37.1	19	25.4	24.1	18.7	24.4	18.2	28.2	17.4	37
7	20.7	26.3	34.6	20.6	15.4	27.7	16.5	21.2	25.5	19.1	25.4	27.4
8	18.9	24.3	19.7	24	17	26.3	23.9	18.6	26.1	27.1	24.6	40.5
9	22.1	26.6	21.1	27	24.8	28.5	20.8	24.5	20	21.3	27.3	27.6
10	27	28.4	30.4	30.7	21.9	27.2	21.4	26.6	17.8	27.2	19.3	19.4
11	26.4	31	23.8	31.9	23.7	17.3	26.3	29.9	22.8	33.3	15.5	21.3
12	28.5	32.8	27.5	28.6	27.5	14.8	26.8	30.1	24.8	14.4	25.5	33
13	29.5	31.2	26.8	32.7	27.5	22.5	22.8	26.2	17.8	21.4	22.5	24.1
14	29.7	27.9	18.1	32.9	24.4	19.2	25.4	25.9	21	24.4	22.7	28.8
15	18.8	24.6	30.4	33.4	25.8	26.4	25.5	21.2	30.7	34.3	21.9	35.7
16	23.2	17.9	22	34.8	27.3	19.2	15.6	18.8	28.6	16.7	35.7	25.5

17	23.2	22.2	30.1	24.8	24.4	20.3	20.9	24.4	20.2	21.2	20.4	32.2
18	28.6	29.1	27.9	25.7	27.2	26.6	28.1	22.9	13.8	23.8	23.2	38.9
19	29.3	32.5	24.2	32.7	27.3	28	28.5	26.4	24.1	27	25.3	40.3
20	28.9	28.1	24.3	28.7	19.9	24	29.1	16.3	29.8	28.3	24.2	22.6
21	29.5	25.2	22.5	24.9	29.2	17.6	24.3	23.4	25	32.1	35.6	31.4
22	30.2	27.3	22.4	24.8	29	18	21	17.9	22	28.6	19.9	31.1
23	30	34.6	30.5	22.5	28.6	23.6	17.5	19.6	18.7	17.5	25.4	40
24	27.5	38.9	27.8	26.3	26.8	27.7	12.2	28.4	24.7	27.8	27	25.4
25	25.6	29.1	27.7	30.3	19.9	27	8.3	31.4	22.7	23	24.5	24.8
26	23.4	32.8	30.6	16	23.5	25.2	17.3	22.2	36.7	26.7	25.6	34.1
27	32	23.7	31.2	29.9	26.7	26.7	18.7	34.8	27.5	35.7	30.3	35.1
28	25.8	27.3	26.2	27.5	26.9	17.2	20.4	34.5	18.1	22.9	30.1	23.7
29	27.6	33	32.4	31.2	27.4	26	21.3	33.8	24.8	25.4	25.7	22
30	34.6	***	33.6	17.3	27.2	23.5	19.9	33.9	21	22.5	26.5	31.9
31	33	***	25.2	***	26.7	***	20.3	34.5	***	25.9	***	37.2
Avg	28.3	28.4	28.1	27	24.6	23.4	21.4	25.1	23.9	24.5	25.2	29.8

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.1	33.3	27.1	24.4	30.8	27.4	19.8	27.6	17.4	25.5	37.6	28.8
2	41.1	28.8	31.6	35.5	25.5	29.1	25.9	28.9	23.7	28.7	32	30
3	21.5	26.7	29.6	27.4	27	28.2	19	26	22.8	35.2	35.6	23.3
4	24	28.9	27.9	37.6	22.6	20.9	21.5	20.6	31.7	29.7	22.1	19.2
5	28.6	19.9	30	36	31.1	21.5	27.8	21.8	32.7	14.8	23.8	19
6	21.9	25.9	33	16.4	29.2	25.7	27.6	20.2	23.4	21.7	24.6	18.1
7	24.4	34.1	31.1	25.2	21.1	30.6	27.5	18.8	32.6	24.1	23.2	25.3

8	26.9	28.8	34.6	26.9	27.3	18.8	27.1	22.7	27.7	17.8	20.3	30.7
9	34.7	27.4	21.9	30.8	27.8	15.9	27.9	28.7	23.6	13.7	20.5	27.2
10	21.7	29.7	21.6	30.1	29.6	23	15.9	31.7	23.9	12.4	16.6	20.9
11	29.6	35.3	30.2	21.6	30.3	24.8	18	31.8	34.3	21.8	25.9	15.9
12	32.2	28.3	28.5	30.5	13	26.6	17.9	20.4	32.6	20	35.5	24.8
13	20.9	29.4	25	20.5	13.5	24.6	16.2	12.2	31	18.4	29	25.7
14	28	26.1	33.8	15.3	16.1	19.1	17	21.8	18.1	25.4	24.9	23.5
15	31.3	24	28.8	18	19.2	22.3	25.2	29.5	19.6	24.1	16.8	27
16	17.7	34.6	27.6	22.2	24.2	18.5	17.3	18.5	24.5	20.6	12.8	39.4
17	21.7	29.9	35.6	21.3	23.9	25.2	18.4	12	16.3	19.6	20.3	27.2
18	31.5	37	29	22.2	24.7	19.2	26.1	14	23.3	23.6	27.4	25.2
19	29.1	20.2	22.1	22.9	28.3	28	23.9	15.6	25.1	23	27.3	21.8
20	22.2	18.3	29.3	22.7	29.6	16.5	22.4	22.2	20.3	20.7	38.4	26.5
21	23.3	18.2	34.9	25.8	29	23.3	21.6	28.4	30.6	25.6	34.9	31.1
22	34.4	24.6	35.5	28.9	28.6	26.5	20.9	18.1	32.4	30.6	16.8	25.7
23	36.9	25.5	34.2	21.6	28.1	15.1	19.8	21.8	14.2	32.1	14.4	27
24	32.5	29.8	20.6	19.5	28.9	18.8	23.9	18.8	24.1	24.6	22.9	25.9
25	29.3	29.7	16.2	20.7	21.6	20.7	29.3	17.2	21.8	26.2	19.2	21
26	26.3	25.3	24.4	29.5	23.3	22.1	18.4	20.3	19.6	17.3	24.4	23.6
27	33.1	27.6	28.1	29.1	16.4	26.1	23.3	19.4	22.4	15.8	21.3	31.1
28	31.4	36.3	24	30.1	18.7	24.7	27.5	26.4	19.9	20.3	33.3	23
29	29.7	***	24.7	28.5	20.4	19.2	27.6	26.4	33.5	30	23.8	19.7
30	36.6	***	36.7	29.3	24.7	28	19.7	21.1	22.5	34.3	24.2	27.6
31	27.6	***	38.2	***	27	***	24.4	22.7	***	34.5	***	27.6
Avg	28.5	28	28.9	25.7	24.6	23	22.5	22.1	24.9	23.6	25	25.3

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22.2	26.1	26	27.5	26.6	17	25.5	19.2	23.6	35.7	13.3	34.7
2	25.5	29.5	28.4	32	29.2	21.5	19.1	17.5	25.8	21.5	20.2	26.8
3	26.9	19.2	22.7	25.5	21	***	15.5	17.6	18.7	15.1	27.9	26
4	34.7	27.8	27.2	25.6	18	***	18.8	23.2	27.1	19.6	34.3	21
5	34.1	30.4	21.8	26.9	26.7	***	18.8	18.8	27.3	26.4	25.1	25.2
6	28	35.5	25.2	31.9	29.1	23.4	19.4	20.3	13.6	30.1	20.3	34.6
7	32.8	25.3	29.9	29.7	28.8	25.2	20.8	20.1	16.9	25.5	17.8	25.7
8	25.1	31.5	20.3	18.9	30.9	23.4	20.9	13.8	18.2	28.9	25	17.5
9	24.9	36.5	23	27.4	23.9	25.6	22.5	9.6	16.3	36.3	26.6	15.7
10	25.6	31.8	31.2	19.6	23.7	17.1	22.8	15.6	19.9	36.8	35.3	18.7
11	31.8	19.5	28.3	19.2	28.1	18.6	23.6	17.3	26.8	33	27	28.2
12	37.9	28.9	25.5	24.7	18.7	23.8	26.1	25	27	18.4	32.4	33.4
13	33.8	25.3	32.3	29.5	20.9	23.4	18.9	19.2	25.5	14.8	37.5	24.2
14	37.3	28.8	30	20.5	18.3	23	15	18.1	26.3	22.7	29	25.2
15	27.9	28.1	25.1	24.1	20.2	22	12.2	17.8	23.3	23.7	28.2	27.6
16	25.7	28.1	17.3	23.1	21.1	17.9	16.7	22.4	22.7	21.5	31.2	29.8
17	34.7	23.3	20.2	23.4	23.7	21.1	20	14.4	30.2	13.2	21.4	39.2
18	34.9	36.9	24.8	29.5	22.6	22.2	21.1	17.1	27.4	22.3	17.9	31.4
19	35.6	26.9	22.9	19.2	23.5	19.5	22.2	28.1	21.7	24.6	24.2	26
20	28.8	29.6	28.9	20.7	22.4	17.7	22.6	18.4	17.3	18.2	33.4	21.4
21	29.1	25.6	23.3	25.4	***	24.4	23	15.6	22.3	17.1	19.8	26.1
22	28.6	29.5	16.7	26.4	24.7	20.7	23.6	19.6	19.9	25.4	23.2	27.7
23	30.8	34.2	19.4	29.8	25.5	26.2	24.4	18.1	22.7	32.3	23	29.5
24	27	23.1	30.2	23.5	26.1	18.6	25.1	20.9	21.5	34	32.6	29
25	25.9	18.5	20.6	31.4	19	20.7	25.9	27.5	31.3	34.6	35.9	28.9
26	30.9	23.9	22.6	30.1	19	23.7	22.6	25.4	24.2	34.4	29.2	31.5
27	28.8	33.7	30.7	22.9	21	24.7	27.7	18.2	28.2	27.6	37.5	29.7
28	21.4	32.1	35.2	22.9	25.3	15.1	18.6	20.2	32.8	31.6	20.9	24.2
29	27.4	***	28.1	22.6	19.7	21.2	26.9	22.4	21.6	39.7	22.9	33.3

30	36.3	***	19.1	19.9	18.9	21.4	19.5	28.8	30	35.6	31.2	28.6
31	23.2	***	21.6	***	18.3	***	22.8	30.2	***	18.2	***	31.1
Avg	29.6	28.2	25.1	25.1	23.2=	21.4=	21.4	20	23.7	26.4	26.8	27.5

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2019 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	37.7	22.3	28.2	19.2	24.9	24.9	22.8	17	24.9	19.8	26.3	19.6
2	19.7	28.7	26.3	16.5	32.8	23.6	21.6	29	24.5	25.3	35.5	31.2
3	18.4	27	20	25.8	25.1	24.1	23	15.3	31.5	33	28	25.1
4	28.9	27.4	28.9	31.3	14.9	26.9	25.8	23.1	22.4	25.8	18.5	19.9
5	26.8	27.9	24	15.6	21.8	25.4	16.6	24.4	12.6	28.3	29.3	22.9
6	25.9	27.4	34.8	17.9	22.4	18.8	24.6	21	13.6	36.2	39.2	33
7	29.2	23.5	32	24.5	32	20.9	20.6	29.7	25.7	27.7	23.1	27.8
8	27.2	38.6	20.1	26	20.9	19	22.7	18.4	31	26.2	24.3	17.6
9	29.1	25.4	22.7	24.9	20.2	24.6	25.6	19.9	32	19	21.6	16.4
10	28.3	29	22.5	24.6	21.5	26.8	28.2	26.7	32	14.4	19.9	20.5
11	32.8	23.6	25.5	28.9	26	25.7	30.9	22.1	27.3	25.7	20.4	23.4
12	29	25.5	30.2	30	28.3	27.2	19.4	19.6	32.4	33.1	29.4	24
13	33.7	21.6	33.2	29.9	23.7	14.8	28.4	21	21.7	22	26.7	25.1
14	30.7	21.8	24.6	23.2	24.3	19.9	28.3	22.7	18.4	30.3	23	36.5
15	22.3	28.9	25.5	19.9	29.5	25.6	29	24.8	28.4	25	23.5	23.1
16	21.8	28	29.2	22.5	22.1	22.8	27.3	32	32.9	32.8	25.7	23.6
17	29	25.6	29.6	19.9	22.6	23.5	28	17.7	29.1	39.5	20.1	35.5
18	37.2	26.6	27	23.5	29.6	22.3	28.5	30	23.3	34.1	20.4	29.2
19	25.6	27.4	30	30.2	29.8	23.4	26	21.6	26.6	31.4	20.4	28.4
20	24.7	36.4	25.3	24.5	31.3	23.9	13.3	19.8	38.6	37.8	22.3	28.9

21	38.4	23.5	20.8	17.8	18.2	25.4	15.4	24	30.1	23.9	28.6	32.8
22	32.4	23.5	21.3	12.9	23.5	24.7	27.4	29.6	19.6	14.5	26.8	20.4
23	23.9	29.5	29.6	16.3	20.4	18.8	27.7	27.1	17.6	29.3	26.8	34.3
24	18.3	28.9	34	21.1	24.6	20.8	18.5	31.5	22.5	27.4	24.3	37.8
25	18.3	28.4	22.4	23.1	26.8	18	24.6	31.7	19.9	34.4	28.6	28.5
26	19.3	32.5	18.1	24.5	29.2	19.6	19.5	26.2	27.3	29.3	31.3	26.6
27	25.2	23.3	25.1	23.3	25.7	24.4	28.2	19.2	33.1	38.6	36.4	21.8
28	28.9	29.5	27.4	28.2	19.1	28.3	28.4	12.6	32.6	25.3	31.9	20.2
29	37	***	26.5	30.3	19.3	23.7	29.7	20.5	31.6	24.7	40.9	21.7
30	30.5	***	31	28.1	24.3	28	30.5	19.4	16.4	25.4	29.2	32.2
31	24.1	***	25.2	***	22.4	***	19.2	19.9	***	20.6	***	18.4
Avg	27.6	27.2	26.5	23.5	24.4	23.2	24.5	23.1	26	27.8	26.7	26

Daily Maximum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	21	31.3	26.8	19.4	25.4	29.1	---	---	---	---	---	---
2	27.8	34.1	27.8	21	27.7	28.4	---	---	---	---	---	---
3	29.7	35.7	27.4	25.9	22.7	26.4	---	---	---	---	---	---
4	35.2	37.4	34	28.2	19.3	20.8	---	---	---	---	---	---
5	29.6	35.5	33.2	31.8	22.1	25.4	---	---	---	---	---	---
6	23.6	26.8	29.9	22.8	22	25.7	---	---	---	---	---	---
7	24.4	20.6	34	20.4	23	25.4	---	---	---	---	---	---
8	26.6	26.4	32.7	19.7	25.1	25.5	---	---	---	---	---	---
9	23.5	25.5	26.2	22.9	24.7	23.1	---	---	---	---	---	---
10	22.6	19.4	25.1	28.8	27.9	26.6	---	---	---	---	---	---
11	30.5	22	25.2	29.8	27.1	18.6	---	---	---	---	---	---

12	29.7	26.1	27	29.6	22.9	14.2	---	---	---	---	---	---
13	27.1	34.3	30	22.3	19.6	18.1	---	---	---	---	---	---
14	30	30.3	30.2	15.6	20.2	19.3	---	---	---	---	---	---
15	33.2	31.7	26.8	19.3	25.3	16.9	---	---	---	---	---	---
16	34.7	35	16.5	22	19.3	16.3	---	---	---	---	---	---
17	36.1	28.6	25.3	25.5	24.6	16.6	---	---	---	---	---	---
18	22.4	18	29.4	25.4	23.4	19	---	---	---	---	---	---
19	18.7	25.3	26.7	29.1	25	21.8	---	---	---	---	---	---
20	19.6	31.8	30.1	32.5	24.1	23.5	---	---	---	---	---	---
21	25.4	30.1	23.6	19.9	27.7	23.9	---	---	---	---	---	---
22	25	31.9	28.8	21.5	21.7	21.5	---	---	---	---	---	---
23	21.5	20.2	28.6	22.8	27	24.1	---	---	---	---	---	---
24	28.2	24.1	27	23.3	25.9	26.3	---	---	---	---	---	---
25	31.4	28.9	28.9	19.8	25.5	25.6	---	---	---	---	---	---
26	32.1	36.1	20	17.4	15.9	23.8	---	---	---	---	---	---
27	23.2	21.9	20.7	18.3	15	23.9	---	---	---	---	---	---
28	30.5	16.3	28.2	15	22.3	19.1	---	---	---	---	---	---
29	29.6	20.3	24.1	16.8	24	22	---	---	---	---	---	---
30	22.3	***	25.6	23.6	20.7	17.6	---	---	---	---	---	---
31	39.7	***	29.4	***	26	***	---	---	---	---	---	---
Avg	27.6	27.8	27.4	23	23.3	22.3						

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	23.5	24.1
2	---	---	---	---	---	---	---	---	---	---	24.5	27

3	---	---	---	---	---	---	---	---	---	---	16	21
4	---	---	---	---	---	---	---	---	---	---	21	23.4
5	---	---	---	---	---	---	---	---	---	---	17	24.8
6	---	---	---	---	---	---	---	---	---	---	15.9	11.9
7	---	---	---	---	---	---	---	---	---	---	20.5	19.9
8	---	---	---	---	---	---	---	---	---	---	20.3	23.9
9	---	---	---	---	---	---	---	---	---	---	26.5	24
10	---	---	---	---	---	---	---	---	---	---	26.3	26.4
11	---	---	---	---	---	---	---	---	---	---	23.8	27.6
12	---	---	---	---	---	---	---	---	---	---	21.5	28
13	---	---	---	---	---	---	---	---	---	---	27.5	26.6
14	---	---	---	---	---	---	---	---	---	---	29.8	28
15	---	---	---	---	---	---	---	---	---	---	23	29
16	---	---	---	---	---	---	---	---	---	---	20.8	23
17	---	---	---	---	---	---	---	---	---	---	22.2	19
18	---	---	---	---	---	---	---	---	---	---	28.6	16.5
19	---	---	---	---	---	---	---	---	---	---	31.5	23
20	---	---	---	---	---	---	---	---	---	---	28.5	25.5
21	---	---	---	---	---	---	---	---	---	---	26	27.6
22	---	---	---	---	---	---	---	---	---	---	21	29.6
23	---	---	---	---	---	---	---	---	---	---	21	29.5
24	---	---	---	---	---	---	---	---	---	---	18.5	16.9
25	---	---	---	---	---	---	---	---	---	---	23.5	18.5
26	---	---	---	---	---	---	---	---	---	---	27.5	18.4
27	---	---	---	---	---	---	---	---	---	---	15.5	22
28	---	---	---	---	---	---	---	---	---	---	22.5	24.5
29	---	---	---	---	---	---	---	---	---	---	23.4	26
30	---	---	---	---	---	---	---	---	---	---	20	27.9
31	---	---	---	---	---	---	---	---	---	---	***	28
Avg											22.9	23.9

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.2	25	27.3	24.5	20.6	16.8	15.8	17.9	24.3	27.8	28.2	28.7
2	26.7	28.3	22.2	26.1	21	18.5	16.3	19.3	18.6	28.9	30	25.8
3	28.8	29.6	25.5	24.9	16.6	15.4	16.3	20.9	20.8	25.8	26	24.2
4	19.8	24.8	26.7	18.1	17.1	14	16.8	18.4	24.2	20.5	22.6	24.1
5	29.4	30.2	27.6	19.3	16.6	16.7	13	19.4	27.1	24.5	22.2	21.9
6	31.1	32	30.3	20.9	16.6	17.7	16.3	20	26.1	25	23	18.8
7	28.3	30.4	28.1	22.5	17.2	20.5	13.8	19.4	16	28.3	26	23
8	29.6	31.2	28.8	22.2	21.3	14.2	15.7	20	24.5	25.6	27.9	26.7
9	30.9	33.5	30.5	24.6	20.1	7.4	14.6	6.1	17.5	24.9	18.5	28.3
10	22.1	29.9	29.7	15.5	12.6	9.5	15.9	8.1	16.6	26.3	15	29.6
11	22.7	28.4	29.5	21.8	12	9.1	9.5	13.5	20.4	20.3	24.3	19.1
12	25.8	29	29.9	26.8	15.3	12.5	5.9	14.4	25.6	16.3	20.2	21.9
13	27.2	29.2	29.2	28.1	20.2	10.8	9.9	17.3	26.8	17.6	26.4	25
14	30	29.7	18	25.9	18.3	9.4	12	17.8	27	12.8	22.2	15.7
15	25.2	29.2	26.3	25.1	13.9	0.4	9	20.6	25.9	14.2	28	18.2
16	24.5	22.6	28	20.4	17.8	3.2	10.7	20.8	16	15.4	23.5	23.3
17	29.2	21.3	22.1	20.8	19.8	9.4	15.4	20.9	23.2	23	19.2	25.3
18	32.1	26.5	24.4	19.7	20.7	10.5	17.2	21.5	21.8	27.8	25.3	29.6
19	19.2	27.2	26.8	18.1	20.8	10.5	18.3	6.4	23	25.6	26.7	25.3
20	22.2	29.6	28.1	13.1	21.3	13.9	19.2	16.1	23.9	27.6	28.7	23.3
21	27.1	31.1	28	15.4	20.8	14.2	17.6	19	13	28.3	28.5	23.1
22	25.3	25.9	27.8	15.8	21.2	12.5	16.5	15.7	15.1	21.8	29	28.6
23	28.9	19.7	23.4	9.8	18.9	15.4	17.6	12.2	23.5	19.4	20.8	26.6

24	30	18.4	24.4	18.4	20.1	15.7	18	16.3	27.6	21.9	14.7	25.5
25	23.8	24.6	26.2	18	19.5	***	18.9	17.9	26.5	13	25.2	21.7
26	21.7	22.6	22.9	19.1	20.6	21.4	19.3	16.6	22.2	18.5	25.2	26.8
27	26.3	23.7	19.2	19.1	19	15.9	20.8	18.3	15.4	24.7	25.2	29.2
28	22.4	26	23	18.6	14.1	14.7	21.6	22.7	19.9	12.8	27.6	30
29	20	***	24.7	17.7	12	15.6	12.5	25.3	23.2	21.5	19.5	27.4
30	27.8	***	26.5	20.6	16.5	16.3	16.5	25	26.7	23	25.9	23.7
31	29.2	***	25.2	***	16.3	***	17.4	24	***	24.4	***	24.8
Avg	26.3	27.1	26.1	20.4	18	13.2=	15.4	17.8	22.1	22.2	24.2	24.7

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20	26.7	26.3	25.4	19.1	9.6	10.4	17.1	22.7	24.6	16.8	25.7
2	25.7	26.4	27.1	23	22.1	12.6	9.6	15.4	15.4	11.9	19.9	23.1
3	19.9	25.9	25.9	21.2	19.4	14.2	9.4	15.9	17.8	10.3	27.3	18.5
4	22.4	19.9	23.3	16.9	22.4	15.7	13.4	16.6	19.5	17	26.1	27.6
5	23.9	23.4	17.7	22.1	20.6	15.2	3.5	12.9	22.2	12.1	21.3	28.7
6	24.9	21.4	25.5	15.2	13	15.3	8.3	6.2	24.2	19.8	18.9	27.4
7	26.9	27.3	26.7	18.7	16.7	6.1	12.9	16.7	25.6	24.2	26.1	30
8	28.1	30	26.2	21.4	13.4	6.5	15.9	16.4	25.9	24.8	31	17.3
9	29.4	25.7	27.6	23.4	18	9.2	16	14.2	23.3	26.5	29.5	13.4
10	24.4	25.9	26.3	23.2	16	8.3	15.9	15.2	24.2	27.9	26	22.5
11	22.2	26.8	25.4	22.4	17.4	18	13.2	18.6	24.5	28.5	25.3	22.9
12	25.5	28	26.6	15.3	15.8	16.1	14.6	21	22.7	33.9	24.3	24.6
13	25.5	26.4	23.6	16.8	16	16.7	15.6	17.2	21.5	28	22.5	33.8
14	24.2	26.4	25.9	17.9	17.4	15.6	15.1	8.5	21.4	26.3	17.5	24.8

15	27.2	27.7	25	19	18.2	15.8	15.1	10.1	20	21.7	24.4	22.2
16	27.4	26.5	26.7	14.1	15.5	6.8	15.6	17.5	16.3	18.2	27.8	26.3
17	26	21.4	18.9	14.7	15.1	10.9	15.9	15.4	22.4	23.3	28.7	28.8
18	28.1	20.7	19.6	17.3	15	13.1	14.7	15.7	24.6	25	26.3	32.1
19	29.3	24	21.5	20.1	13.6	14.3	14.6	16.1	13.2	18.9	28.1	30.1
20	25.5	25.6	23.4	19.7	17.2	15.2	14.2	17.4	17.2	17.2	28.9	26.9
21	27	25	26.1	14	18.3	16.9	15.2	21.4	13.4	22.8	24.6	27.9
22	23.7	25	26.2	20	18.2	16.1	17.3	22.6	18	27.9	21.4	27.9
23	17.8	26	26.6	17.1	15.9	13.6	18.8	21.5	17.4	27.4	23.3	14.3
24	16.8	25.8	25.1	19.7	14	5.8	16.7	11.5	20.9	27.7	9.3	26.1
25	22.3	25.5	22.9	19	10.8	4.6	3.6	19.6	22.3	23.4	21.4	28
26	25.3	25.6	24.7	15.9	6.3	9.3	4.7	22	25.7	22.7	23.6	20.2
27	22.2	26.7	24.9	8	13	9.4	10.5	12.3	23	23.2	24.1	27.8
28	27.7	25.3	23.8	13	11.6	13.3	12.4	18.6	25.9	23.9	20.6	20.4
29	29.5	***	26.9	15.4	13.1	15.7	7	22.7	22.8	26	29.2	22
30	27.4	***	28.7	16.6	10.5	9.5	14.3	23.4	21.9	24	28.4	28
31	24.9	***	28.2	***	7	***	13.9	22.2	***	17.1	***	21.8
Avg	24.9	25.4	24.9	18.2	15.5	12.3	12.8	16.8	21.2	22.8	24.1	24.9

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2013 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.3	27	15.4	18.5	22.3	21.1	12.3	16.7	13	23	17.5	22.1
2	28.6	29.8	24.7	19.1	20.7	12.3	16	17.1	16.9	25.7	16	24.2
3	28.3	29	27.4	13.4	19.9	5.7	***	18.3	20	27.8	23.1	21.1
4	22.5	17.5	30	18.6	8	9.2	***	17.8	17.7	28.4	27.1	23

5	26	25.2	31	21.9	13.9	11.1	***	17.8	19.7	28.6	30.5	20.4
6	30.3	28.9	29.9	22.7	18.3	15.3	***	16.8	21.2	13.4	29.2	20.2
7	30.8	27.3	29.5	23.3	17.9	18.5	***	12.4	23.5	20.5	22.8	24
8	33.2	29.6	29.4	22.8	18.8	16.1	***	10.2	24.6	23.9	25.1	23.1
9	32.4	31.6	19.6	19.9	13.1	4	***	9	17.6	26.2	21.6	19.5
10	27.5	26.1	23.8	11	10.6	11.6	***	13.8	17.7	29	22	19.1
11	19.3	25.7	26.5	16	14.5	12.8	15.2	16.9	12.8	29.2	24.6	13.6
12	22.9	26.8	27.1	19.7	16.8	13.8	15.1	13.5	13	24.3	30.4	18.5
13	30.4	***	23.2	22.5	18.6	15.8	15.4	14.1	18.3	14.2	33	23
14	33	31.6	27	23.7	19.5	12.1	***	9.5	18.3	19.3	31.4	25.1
15	27.5	18.1	27.7	25.6	20.8	10.2	***	12	19.7	24.5	17.7	25.4
16	32.1	24.8	25	26.4	15	15.1	***	11.7	21.2	26.4	18.7	18.9
17	29.5	28.5	22.5	21	12.7	18.6	***	14.9	23	16.5	18.9	22
18	25.6	29.2	27.5	15.2	18.2	13.4	***	9.1	23.6	11.6	19.8	21.9
19	22.3	27.2	22.5	10	19.3	15.6	11	16.3	27.2	17.1	27.4	26.3
20	27.9	21.5	26.7	7.8	19.2	16.7	11.8	17.3	15.7	16	21.6	27.8
21	26.3	25.1	30.7	9.5	20.3	15.9	14.9	19.1	9.5	10.6	17	29
22	28	27.9	32.4	15.3	20.9	17.6	15.3	12.8	18.3	14.2	24.7	29.1
23	33.3	26.6	30.7	15.8	19.8	16.1	15.9	15.7	20.8	19	26.1	23.7
24	34.5	27.3	27.6	22.6	19.6	15.3	14.4	18.9	24.2	23.7	26.3	25.7
25	28.9	31	21.1	22.2	20.4	16.8	16.3	20.8	23.6	23.3	29.3	27.5
26	29.1	31.9	23.6	23.7	20.8	12.4	18	22.4	25.1	18.3	28	28.3
27	28.8	32.6	16.5	23.9	15.1	9.6	17.8	23	22.1	20.9	12.5	26.7
28	26.1	27.7	22.9	23.4	13.8	12.1	10.1	23.9	13.5	23.7	14.1	27.9
29	30.2	***	21.1	19.1	14.1	14.9	13.7	22.8	13.7	23.1	24	19.3
30	25.4	***	15.9	20.8	14.3	***	17.1	10.2	19.7	26.5	19.3	26.8
31	22.8	***	17.3	***	15	***	16.3	8.2	***	17.6	***	27.4
Avg	27.8	27.2=	25	19.2	17.2	13.8=	14.8=	15.6	19.2	21.5	23.3	23.6

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30.8	27.7	22.7	20.5	20.3	17	17.6	18.3	18.2	13	17.7	26.3
2	31.3	24.5	24	17.8	23.3	12	17	18	20.4	13.1	18.8	28.2
3	32.1	25.3	23.3	13.4	24.3	13.7	17	18.3	19.7	14.4	20.7	22.9
4	32.2	22.5	16.2	16.1	21.8	16.7	16.9	16.1	21.3	17.3	17.2	25
5	30.1	24.7	22.1	16.5	13.5	4.3	11.5	12.7	21.8	24.2	18.5	15.2
6	24.3	21	24.9	21.4	19.4	6	5.5	13.4	24	26.3	24.3	23.7
7	25.6	27.3	26.4	22.8	18.2	11.8	4.5	13.7	25.2	26.3	23.7	27.3
8	22.3	26	26.7	24.4	18.1	13.2	6.4	17.5	25.5	23.6	27.8	23.8
9	26.3	27.5	22.1	24.2	16.6	13.9	8.3	14	26.1	15.7	26	24.1
10	23.5	28.8	23.3	23.4	11.4	7.1	10.9	16.1	24.4	16.4	19.7	21.9
11	24.2	29.9	21.2	23	14.1	11.3	11.9	16.3	24.4	24.1	22.8	25.3
12	28.6	31.5	15.7	24.1	14.5	13.2	9.8	17.4	23.4	24.7	17.6	25.4
13	22.2	29.3	20.4	23.4	19.1	15.6	12.1	19.4	24.6	18	16.6	23.2
14	27.5	23.9	22	21.8	17	14	12.4	17.8	29	25.5	21.2	26.8
15	31.7	26.3	22.8	11.8	19.5	10.3	13.6	13.1	24.8	20.8	11.2	18.5
16	30.5	25.3	22.8	13.3	14.7	11.9	16.2	17.9	26.1	9.8	11.3	18.6
17	32	26.4	23.3	18.7	11.1	12.5	16.2	17.6	23.2	7.9	15.3	23.2
18	24.3	25.1	23.3	22.1	15.6	13.9	8.5	17.8	13.6	19.8	20	26.5
19	27.7	20.7	22.9	23.1	14.6	7.5	9.3	18.8	11.5	24.1	21.5	25.6
20	28.4	25.8	20.2	23.3	11.6	12	14.4	13	16.7	22.9	19.9	26.4
21	26.2	16.7	23.3	22.1	13.2	16.5	14.3	13.9	20.8	24.3	23.6	27.9
22	28.7	24.1	22.8	18.5	15.2	15.1	15.4	10.8	24.5	27.3	27.7	26.2
23	27.2	26	24.1	15.8	16.4	13.8	16.7	13	20	28.5	15.3	28.8
24	29.5	23.9	25.4	8.3	19.6	14.5	18	10.9	16.7	24.6	20.3	27.9
25	22.2	18.9	23.6	15.4	17.7	14.8	17.9	16.8	22.2	18	20.8	30
26	27.4	19.9	17.4	16.3	19.2	11	6.3	20.3	27.7	22.7	26.3	27.6

27	30.2	25.2	17.3	11.6	19.6	11.5	10.8	19.7	15.9	25.1	22.4	18.4
28	30.7	26.2	20.5	18.5	19.2	13.1	11	12.1	12.7	25	19.4	21.8
29	20.1	***	22.3	20.9	17.9	15.9	13.6	1.3	17.8	25.7	21.3	23.5
30	17.4	***	22.9	18.4	17	17.2	15.9	8.3	12.3	27.7	24.9	22.3
31	23.6	***	23.5	***	17.6	***	17.4	15.4	***	13.3	***	22.3
Avg	27.1	25	22.2	19	17.1	12.7	12.8	15.2	21.2	21	20.5	24.3

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2015 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25.4	15.6	22.1	26.1	17.7	16.5	13.6	12.1	12.7	11.1	25.3	35.4
2	27.7	17.4	20	23.7	18.9	21.2	15.9	14	11	20.9	9.8	27.6
3	27.8	22.2	25.8	19.2	20.1	13.9	16.4	15.2	10.3	24.7	13.3	30.6
4	26.9	27.9	26.8	***	20.3	5.6	16.6	15.1	16.7	30.2	22.7	31.1
5	27.1	24	24.2	***	20.9	5.3	16.6	13.7	18.7	27.8	25.8	26.5
6	26	22.9	27.4	***	14.3	9.1	13.2	18.2	18.3	27.8	25.6	31.8
7	30.1	24.4	24.5	***	16.7	10	14.3	19.1	19.2	31	25.2	33.9
8	27.8	30.4	24	***	20.8	12.7	15.8	19	13	28.4	27.3	28.6
9	20.5	32.3	26.2	***	20.8	15.1	16.3	20.6	19.3	21.6	28.1	30.3
10	27.8	32.3	27.7	***	17	15.2	17.1	10.2	21	26.2	27.5	31.1
11	28.4	32	24.1	***	15.3	8.7	15.9	14.1	14	24.7	29	35.1
12	29	31.7	21.8	***	17.6	14.6	13	11.2	18.8	28.9	21.4	30
13	23.1	23.6	25.5	***	18.3	13.8	8.1	14.7	16.8	29.6	26.9	21.4
14	22.7	20.8	27.9	***	19	14.2	8.4	18.4	22.7	24.4	22.3	18.1
15	27.2	16.9	26.2	13.5	18.2	15.8	14.7	22.6	22.3	19.8	18.3	26.4
16	25.5	17.8	25.6	10.3	19.2	14.1	14.2	22.3	22.1	19.8	25.4	26.7
17	17.2	25	19.1	11.3	19.4	6	3.6	23.1	14.8	***	26.2	29.8

18	24.5	27.5	26	15.5	21.2	11.3	8.4	22.1	6.4	28.6	19.8	33.8
19	23.2	30.1	14.8	16.3	21.2	14.6	14.4	14.7	13.3	29.6	27.9	35.8
20	27.5	30.4	25.7	17	21.3	14.6	17.7	17.5	20.4	26.3	27.9	33.2
21	30	20.7	22.2	18.5	22.2	14.7	9	18.2	22.5	26.8	17.6	32.4
22	30.1	22.2	24.1	20.6	22.3	14.3	8.8	21	21.9	19.9	19.6	26.5
23	30.4	27.6	18.2	16.1	18.9	14.9	8.5	21.3	25.8	26.9	24.2	32.4
24	32.2	24.7	19.4	19.8	19.1	15.2	10.9	22.5	28.8	28	28.3	34.6
25	27.2	25.8	21.4	22.1	19.5	9.7	7.1	23.3	30.6	28.1	30.3	24.1
26	28	28.9	20.4	21.3	18	16.5	9.9	20.5	29.8	19.6	22.2	27.8
27	19.8	21.9	18.7	18.5	19.4	7.2	10.9	17.5	28.1	25.4	16	32.3
28	19.4	21.6	19.8	20.4	19.9	8.1	12.9	22.9	22.9	30.6	25.6	34
29	24.9	***	22.2	21	20.4	11.8	13.9	24.4	27.4	30.1	29.4	28.6
30	28	***	***	13.6	20.3	12.2	8.5	19.8	20.5	30.6	32.1	28.7
31	26.1	***	24.7	***	19	***	5.6	16.9	***	23.9	***	29.3
Avg	26.2	25	23.2=	18.1=	19.3	12.6	12.3	18.3	19.7	25.7=	24	29.9

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.7	31.1	29.4	23.9	13.2	18	14.4	11.1	23.2	16.6	23.2	24
2	28.9	30.7	30	20.6	16.6	18.8	5.6	13.3	23.2	10.1	28.9	25.5
3	33.2	28.7	29.4	23.1	16.1	17.3	11.2	10.1	20.4	12.9	31.1	31.9
4	35.3	18.5	29.6	22.7	17.8	10.4	14.3	11.5	19.9	17.1	28.4	29.8
5	38.6	22.8	29.8	19.3	20.1	15.8	15.4	12.8	24.1	22.3	24.6	26.3
6	37.4	27.9	29.4	11.7	20.5	17.6	11.2	16.2	15.2	25.1	17.8	32
7	21.4	25.2	26.9	15	10.8	17.1	11.4	17.9	20.5	19.1	25.3	29.9
8	18.5	22.6	19.1	18.3	9.6	15.6	13.5	11	22.8	21	27.4	31.1

9	29	25.1	22.9	21.1	13.5	16.8	15	19.8	18.2	12.9	25.8	29.7
10	30.5	29	25.3	20.6	11.5	14.3	18.5	18	14.8	21.2	20.8	22.4
11	31.3	30.1	20.4	21.7	15.2	7.5	16.1	18.5	16.7	26.5	15.9	25
12	27.2	32.9	22.9	22.7	19.9	10.2	18	19.5	17.6	20	23.3	29.4
13	25	30.6	26	24.8	18.9	6.9	15.1	18.3	12.6	18	18.3	25.2
14	28.4	30	25.3	24.1	16.1	9.4	14.7	14.2	20.7	24.2	19.7	28.7
15	19.6	28.9	26	24.7	19.5	9.7	15	16.1	22.2	29.3	25.7	30.1
16	27.3	18.7	18	24.5	18.9	10.9	15	18.8	16.4	14.4	28.2	27.6
17	26	28.1	23.7	24.1	18.3	12.4	14.6	12	12.4	16.1	25.7	31.7
18	28.4	23.4	25.3	23.9	17.4	14.9	15.5	15.7	10.8	18.9	18.3	34.6
19	26.1	28.2	23.1	23.2	19.6	15.7	17.2	17	17.5	20.7	24.2	35.5
20	28.2	22	21.8	21.6	17.1	11.7	17.4	12.5	21.9	21.3	26.3	32.1
21	25.3	22.7	16.1	17.4	17.5	8.5	16	14.5	24.2	26.4	27.4	32.2
22	23.8	25	20.5	17.5	18.1	12.2	11.8	8.3	20.5	27.6	28.3	30.6
23	22.6	28.2	24.3	16.9	16.8	15	6.5	12.9	17.3	26.1	28.6	32.4
24	23.8	30	24	19.5	16.7	15.9	7.7	19.4	18.6	26.2	27.5	23.6
25	25	24.2	19.9	22.8	15.1	***	1.2	20.9	22.3	25.2	24.2	28.8
26	26.4	25.9	18.2	20.7	16.3	14.5	8.6	22.6	26.3	28.6	26.9	27.3
27	28.2	20.8	17.3	20.9	16.9	14.6	6.5	22.5	20.7	32.1	30.5	27.7
28	29.1	26.9	19.5	21.3	16.9	12.5	8.1	23.8	14.2	31.9	33.4	28.2
29	29.7	29.1	23.9	20.5	17.1	15.3	10.4	23.5	18.3	28	28.1	23.6
30	30.6	***	25.8	9.9	16.8	14.9	11.8	24.5	18.9	25.8	30.3	30.4
31	31	***	25.6	***	16	***	15.1	24.1	***	25.8	***	32.4
Avg	27.9	26.5	23.9	20.6	16.6	13.6=	12.7	16.8	19.1	22.3	25.5	29

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	33.9	31.2	25.5	26.6	20.8	19.4	16.3	15.9	12.2	23.7	29.2	32.1
2	32.1	26.9	25	26.2	19.7	19.2	16	18.5	20.6	24.5	29.7	27.9
3	16.8	23.9	26.3	28.2	20.6	17.3	11.7	19.4	20.9	26.1	29.7	29.2
4	20.8	23.3	25.7	28.6	16.4	18.1	13.5	19.4	21.9	15.2	30.3	22.8
5	16.1	22.2	25.6	28.3	21.5	17.3	16.9	11.7	21.2	11.6	28.9	22.8
6	21.9	26	27.3	15.8	19.5	17.5	19.8	14.7	21.8	19.9	22.5	20.6
7	23.5	27	28.1	19.3	21	16.7	17.5	***	23.1	19.6	17.4	26.8
8	26.7	28.1	28.7	20.6	20.2	5.6	15.6	16.7	24.4	21.4	17.1	27.6
9	27.2	27.3	16.6	22.9	19.8	11.3	16.6	20	25.5	6.4	23	26.6
10	19.1	27.3	19.7	23.4	19.4	15.3	13.6	19.9	26.7	14.2	17.4	18.8
11	21.4	25.5	24.5	18.2	20.1	13	15	20.4	26.7	18.4	25.5	18.3
12	26.4	24.8	25.9	20.6	6.7	15.3	17.9	19.7	29.4	18.1	30.4	23.2
13	22.5	25.2	28.4	18	8.6	16.8	15.6	13.5	27.8	18.4	26.8	25.1
14	26.4	24	26.2	14.8	10.5	17.3	12.5	17.4	26.2	25.7	27.7	18.7
15	28	23.4	22.9	10.4	16	13.8	12.5	19.5	28.6	22.2	11.6	26.5
16	14.5	27.5	25	15.9	18.6	14.7	7.6	12.9	19.1	17.3	5.9	30.1
17	19.2	28.4	26.7	15.7	18.1	15.5	10.2	1.6	14.6	11	15	28.8
18	27.3	25.8	28.4	18.3	18.8	16	13.4	5.8	21.2	21.2	21.7	23.8
19	29.1	18.2	22.9	19.2	21.3	15.1	14.7	14	24	20.5	25.8	21.8
20	25.5	14.6	26.6	19.7	20.8	15.2	15.4	14.9	24.3	19.6	29.7	26.3
21	25.5	13.8	28.3	20.7	19.8	14.1	15.4	18.7	27	22.3	27	27.3
22	30.6	19.1	26	23.5	18.9	14.1	15.9	11.1	24.8	25.6	22	22.4
23	29.8	20.8	25.3	21.6	18	7.5	15.2	13.2	13.3	25.7	20.4	26.3
24	23.8	21	16.4	18.8	19.3	11.1	16.1	11.4	22.7	26.6	20.3	26.6
25	21.6	23.9	15	20.9	17.7	14.3	17.9	11	21	25.9	20	19.8
26	24.9	19.1	20.3	21.3	16.1	15.3	15.3	15.8	12.1	20.9	21.5	20.6
27	27.2	24.2	24	19.2	10.2	13.6	15.5	15.3	17.4	11.3	20.1	27.4
28	21.1	26.2	23.6	23.2	***	12	17.1	***	22.5	19.2	25.8	23.4
29	26.4	***	25.4	21.9	17.1	12.8	17.7	***	26	22.1	25.5	24.7
30	29.8	***	27.8	21.2	15.2	15.8	17.1	15.8	22.7	26.3	30.5	26.5

31	29.8	***	27.2	***	22.8	***	16.5	19.3	***	27.6	***	27.1
Avg	24.8	23.9	24.7	20.8	17.8=	14.7	15.2	15.3=	22.3	20.3	23.3	24.8

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22.8	23.9	26.2	22.9	***	12.5	16.4	15.1	21.3	25.6	16	28.5
2	22	28.4	24.7	23.3	***	13.9	12.5	12	17.5	24.5	17.1	27.4
3	24.5	25	24.1	23.9	***	14.3	9.5	14.2	14.6	10.2	23.9	28.2
4	29.1	27.3	26.2	19.1	17.6	10.4	12.5	17.1	19.4	17.2	25.5	27.2
5	31.6	29.7	27.7	19.6	20.6	16.4	15.2	10.3	23.8	23.4	23.2	28.1
6	29.7	31.2	28	21	21.4	16	16.1	12.1	15.6	25.4	12.1	31.6
7	32	15	23.5	21	***	16.4	14.7	9.4	8	26.6	13.8	27
8	26.7	26.9	19.3	23	19.5	16.4	15.9	6.9	8.9	28.2	21.4	26
9	21.9	28.9	18.8	16	17.5	15.4	13.3	***	7.5	29.6	24.3	14
10	26.3	27.7	23.4	14	18.8	15.2	12.5	4.5	16.9	30.4	28.1	18.7
11	30.6	20	24	15.4	19	16.3	15.4	10.8	17.6	30.3	30.5	27.1
12	30.9	21.8	20.8	15.7	11.7	15.7	17.4	16	20.3	14.5	33.3	31.6
13	32.6	23.9	25	15.4	13.9	14.2	12.4	18.9	18.1	12.3	33	26.8
14	33.1	23.3	26.3	20.3	12.4	14.1	7.3	19.5	17.5	22.3	32	31.3
15	28.6	22.8	24.3	21.1	14.2	10.8	6.1	18.9	19.8	21.3	31.8	31.3
16	30.8	25.6	11.8	19	18.9	10.4	12.4	18.4	22.3	19.2	32.8	32.2
17	31.3	27	17.5	15.5	19	13.7	15.1	10.9	21.2	13.7	26.2	33.3
18	29.4	26.9	22.8	17.9	17.5	15.9	13.5	15.5	19.8	21.4	22.1	27.4
19	27.7	25.4	24.3	17.3	17.5	13.2	14.5	16.7	16.8	25.4	32	29.1
20	25.3	27.1	25.7	17.5	10.9	13.2	13.5	19.9	14.6	14.2	28.1	23.9
21	29.1	24	21.6	19.2	13	17	14.1	15	18.8	16.8	12.3	***

22	20.2	26.4	15.7	20.9	13.9	15.5	16.3	14.1	23.5	22.8	20	30.1
23	23.4	23.3	19.1	20.9	16.7	16.2	16.5	16.7	23.2	24.4	27.2	***
24	25.4	23.1	22.5	21.3	17	14.5	16.2	17.4	22.2	26.9	29.8	30.7
25	23.5	12.4	21.6	23	16.5	16.4	16.6	17.5	23.4	28.4	30.9	31.3
26	27.7	21.8	21.9	18.6	16	16	19.5	10.8	23.2	29.1	27.8	30.3
27	23	25.4	23.6	***	15.7	13.6	18.5	9.4	24.6	29.6	27.3	28.2
28	20.7	27.1	24.8	***	17.7	13.3	16.3	15.5	22.6	31.1	15.1	25.1
29	25.3	***	23.2	***	12.9	13.2	16.7	18.6	20.1	31.2	24.1	29.5
30	25.5	***	19.8	***	12.4	15.1	15.5	20.7	24.3	23.6	28.6	29.8
31	20.3	***	18.9	***	12	***	19.2	20.9	***	15.3	***	31
Avg	26.8	24.7	22.5	19.3=	16.1=	14.5	14.6	14.8=	18.9	23.1	25	28.2=

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2019 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.1	21.8	26.6	21.7	20.9	17.3	12	***	***	14	25.8	29
2	16.8	25.9	26.5	20.3	21.9	17.1	9.9	***	***	18.7	27	33.7
3	25.9	25.1	26	23.5	22.8	17	***	***	***	23.2	29.4	16.7
4	28.5	20	28.3	22.2	21.1	18.2	***	***	***	24.2	27.6	16.4
5	27.1	27.5	26.4	11.7	22.4	15	***	***	***	26.6	30.7	22.9
6	24.7	28.1	29	17.7	22.6	12.5	***	***	***	29	29	26
7	27.9	29.4	30.3	21.3	21.9	13.2	13.3	***	20.3	21.3	***	27.4
8	28.6	30.3	17.4	20.6	15	16.4	14.5	***	22.9	22.7	19.9	21.2
9	29.8	25.5	25.4	22.1	14.3	16.7	18.4	***	24.8	23.2	25.9	17.9
10	29.2	23.9	20.4	23	18.1	16.5	19.7	***	27	13.9	20.9	18.1
11	***	22	19.7	20	22.1	16.6	19.5	***	25	23.9	27.7	23.3
12	29.2	23.9	18.5	24.1	21.7	17	18.8	***	25	28	28.3	24.1

13	31.4	23.8	25.5	24.3	23.1	9	17.7	***	17	17.7	22.8	21.3
14	33	25	24.3	20.7	21.8	15.9	17.7	***	17.2	28.9	19.1	28
15	28	20.2	25.4	18.1	20.3	15.4	18.7	***	22.5	23.3	21.4	16.8
16	***	24.8	25.5	17.3	20.6	15.6	17.4	***	26	29.2	26.5	24.1
17	***	22.3	25.9	18.4	21.3	15	17.4	***	28.7	31.5	23	30.6
18	***	25.3	26.5	21.9	21.4	17.9	16.8	***	27.9	***	24.7	28.3
19	***	27.2	25.7	23.9	21.2	***	14.6	***	29.2	***	26.5	27.2
20	26.4	29.1	25.7	20.2	20.6	16.5	5.1	***	28.9	***	26.7	30.2
21	30.8	22.3	22.1	9.9	17.5	15.7	11.5	***	28.1	***	27.6	32.7
22	33.9	27.8	22.5	9.2	17.4	12.7	14.5	***	17.6	20.7	29.4	25.2
23	34	26.2	22.1	12.8	19.3	10.5	***	***	12.1	22.6	29.5	28.2
24	22.5	***	23.6	17.5	21.1	***	***	***	16.1	23.8	28	29.6
25	26.8	26.7	20	18.7	22	***	***	***	16.5	21.2	25.5	30.1
26	20.1	26.7	14.2	***	20.2	15	***	***	22.6	25.2	30	29.1
27	28.5	23.2	22.1	20.9	16.6	14.7	***	***	25.4	27.1	33.2	23.5
28	30.1	26.3	24.3	21.2	12.8	17.4	***	***	25	18.4	34.1	27.8
29	30	***	23.7	23.1	14.2	17.3	***	***	23.8	17.1	31.1	22
30	29.5	***	25.9	20.2	18.3	18.8	***	***	11.8	19.6	30.1	24.5
31	27.6	***	25.5	***	18.7	***	***	***	***	21.7	***	23
Avg	28.1=	25.2=	24	19.5=	19.8	15.6=	15.4=		22.6=	22.8=	26.9=	25.1

Daily Maximum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27.7	32	23.7	15.1	20.8	20.5	---	---	---	---	---	---
2	29.8	28.2	21.7	20.3	18.3	19.7	---	---	---	---	---	---
3	30.6	29.8	24.2	18.8	20.1	19.6	---	---	---	---	---	---

4	31	30.5	26.6	20.7	19.3	18.8	---	---	---	---	---	---
5	30.1	30.1	27.5	23.1	17.7	18.7	---	---	---	---	---	---
6	31.4	21	27.8	20.9	17.4	17.5	---	---	---	---	---	---
7	23.5	23	27.8	11.8	19.9	16.8	---	---	---	---	---	---
8	20.1	22	27.7	16.7	20.4	16.8	---	---	---	---	---	---
9	25.6	23.2	22.9	20.8	21.1	15.2	---	---	---	---	---	---
10	20.9	19.6	19.6	19.3	19.8	17	---	---	---	---	---	---
11	25.8	23.4	23.3	19.9	20.5	5.3	---	---	---	---	---	---
12	26.3	26.1	22.9	18.1	18.5	6.3	---	---	---	---	---	---
13	25.6	25.7	23.2	20.7	14	9.6	---	---	---	---	---	---
14	26.8	28.9	23.5	11.4	17.3	9.6	---	---	---	---	---	---
15	29.1	27.2	25.1	14	16.7	11	---	---	---	---	---	---
16	31.6	26.5	15.6	16.6	17	12.3	---	---	---	---	---	---
17	31.3	22.1	19.7	18.4	17.6	13.4	---	---	---	---	---	---
18	20	16.9	22	20.3	19.7	15.1	---	---	---	---	---	---
19	19.9	25.3	25.3	23.1	20.2	13.5	---	---	---	---	---	---
20	22.7	24.7	24.7	24.5	20.6	13.2	---	---	---	---	---	---
21	26.6	27.1	24.1	22.7	18.6	14.8	---	---	---	---	---	---
22	25.7	26.6	24	21.5	19.3	13.5	---	---	---	---	---	---
23	20.1	13.7	23.7	22.1	18.3	15.1	---	---	---	---	---	---
24	26.2	23.5	25	16.5	16.6	17.1	---	---	---	---	---	---
25	25.6	25.3	25.1	16.4	17.1	15.1	---	---	---	---	---	---
26	26.5	26.3	16.3	18.1	5.8	14.5	---	---	---	---	---	---
27	19.4	21	17	9.6	6.8	10.4	---	---	---	---	---	---
28	26.1	13.5	21.1	9.4	10.8	11.2	---	---	---	---	---	---
29	28.7	19.6	24	15	15.1	14.3	---	---	---	---	---	---
30	30.3	***	23.6	18.9	16.5	16.7	---	---	---	---	---	---
31	31.7	***	22.3	***	18.7	***	---	---	---	---	---	---
Avg	26.3	24.2	23.3	18.2	17.4	14.4						

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	22.4	21.7
2	---	---	---	---	---	---	---	---	---	---	26.3	28.1
3	---	---	---	---	---	---	---	---	---	---	29.4	23
4	---	---	---	---	---	---	---	---	---	---	26.1	21.9
5	---	---	---	---	---	---	---	---	---	---	23.2	25.4
6	---	---	---	---	---	---	---	---	---	---	13.6	15.1
7	---	---	---	---	---	---	---	---	---	---	24.6	16.7
8	---	---	---	---	---	---	---	---	---	---	22.3	22.2
9	---	---	---	---	---	---	---	---	---	---	27.2	26.2
10	---	---	---	---	---	---	---	---	---	---	19.5	28.7
11	---	---	---	---	---	---	---	---	---	---	27.7	28.6
12	---	---	---	---	---	---	---	---	---	---	22	28.6
13	---	---	---	---	---	---	---	---	---	---	30.3	21.5
14	---	---	---	---	---	---	---	---	---	---	31.7	20.1
15	---	---	---	---	---	---	---	---	---	---	17.8	20.7
16	---	---	---	---	---	---	---	---	---	---	14.2	22.2
17	---	---	---	---	---	---	---	---	---	---	19.3	20
18	---	---	---	---	---	---	---	---	---	---	30.1	14.1
19	---	---	---	---	---	---	---	---	---	---	31.1	21.1
20	---	---	---	---	---	---	---	---	---	---	20.9	27.1
21	---	---	---	---	---	---	---	---	---	---	27.1	27
22	---	---	---	---	---	---	---	---	---	---	20.5	28.9
23	---	---	---	---	---	---	---	---	---	---	18.9	31.5
24	---	---	---	---	---	---	---	---	---	---	16.4	19
25	---	---	---	---	---	---	---	---	---	---	19.6	19.8

26	---	---	---	---	---	---	---	---	---	---	27.9	19.3
27	---	---	---	---	---	---	---	---	---	---	12.5	23.4
28	---	---	---	---	---	---	---	---	---	---	18.5	23
29	---	---	---	---	---	---	---	---	---	---	25.6	25.6
30	---	---	---	---	---	---	---	---	---	---	20.6	29.2
31	---	---	---	---	---	---	---	---	---	---	***	29.6
Avg											22.9	23.5

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.6	22.7	29.2	21.3	19.1	17.3	13.1	21.3	26.9	30	24	30.5
2	24.5	23.1	18.9	27.1	22.2	17.6	19.6	21.1	16.3	24.8	31.2	16.3
3	29.1	29.8	20.4	27.3	18	18.9	19.5	20.7	17.8	22.3	26.9	26.9
4	17.4	19.7	27.6	15.6	20	16.7	18	22	25.9	16.5	25.1	23.6
5	24.4	29.9	29.2	17.8	19.2	18.6	14.8	21.2	25.7	23	19.4	23.3
6	31.7	31.5	28.2	23.2	20.9	23.4	18.7	19.9	26.3	23.2	16.6	17.7
7	24.9	32.8	26.5	24.2	20.3	24	8.5	22.2	13.2	***	23.1	19.1
8	24.6	29.7	29.6	25.8	24.3	20.3	19.2	23.1	20	***	31.4	22.2
9	26.7	31.1	31.1	26.1	23.8	11	16.5	8.6	17.4	***	13.4	26.9
10	26.5	31.6	28.2	14.8	18.2	8.7	18.8	7.9	16.1	***	14.1	31
11	21.1	27	28	25.2	14.7	9.4	15.6	13.5	22.6	22.3	25.4	16.6
12	24.5	31.2	29.5	26.9	18.5	17	4.1	18.2	26.8	14.5	23.5	16.3
13	25.4	28.4	23	29.4	23.4	15.8	13.2	20	28.7	15.6	28.3	25.9
14	31.9	23.8	14.9	28.3	23.6	15	14.3	23	29.3	16.8	19	14.9
15	17.4	30.5	23	27.3	14.3	7.8	11.3	22.1	29	12.2	30.8	19.6

16	19.4	27.8	24.8	17.5	20.6	5	11.9	18.3	17.3	12.6	25.4	20.4
17	23.9	17.3	18.1	24.5	22.9	9	18.9	24.5	19	22.6	14.7	25.7
18	32.8	27	21.9	22.5	22.9	13.6	21.2	23.8	25.9	28.1	23.9	26.9
19	23.1	25.3	28	20.2	21.7	14.5	21	8.2	25.9	24.8	27.4	24.7
20	19.1	28.1	24.9	14.3	21.5	17.2	19.6	16.2	20.1	29.9	30.6	21.6
21	24.9	31.6	27.6	18.7	21.9	18.7	19.7	23.7	22.6	30.4	30.6	24.5
22	26.5	25.2	26.5	18.8	21.7	11	19.5	22.5	19.3	26.2	22.9	29.4
23	25.8	22.9	20.6	11	22.7	12.7	19.5	14.4	27	15.5	16.1	29.5
24	28.8	22.7	26.1	14.5	21.3	19.9	20.1	14.6	17	21.4	13.3	27.7
25	23.5	27.3	26.7	19.9	22.6	***	16.7	20.9	22.6	12.9	24.2	21.2
26	18.6	19.3	27.3	21.9	22.8	23.8	21.2	20.5	25.2	17	27.2	22.4
27	26.5	20.7	23.7	20.1	22.1	***	22.7	20.1	16.1	20.6	26.3	27.7
28	15.6	23.5	21.9	19.9	17.7	19.1	22.2	25.8	22	13	22.8	26.2
29	17.6	***	27.2	16.9	12.3	18	9.7	20	25.8	23	16.1	28.1
30	24.7	***	21.9	22.1	15.9	18.7	19.7	28	29.1	19.7	27.4	17.2
31	30.7	***	21.3	***	17.1	***	19.9	26	***	21	***	20.5
Avg	24.6	26.5	25	21.4	20.3	15.8=	17.1	19.8	22.6	20.7=	23.4	23.4

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23	26.8	24	***	20	14.7	12.2	17.3	26.3	25.7	14.7	26
2	25.5	24.8	29.4	***	22.8	17.6	12.7	18.8	17.9	12.9	20.3	19.2
3	16.9	25	24.8	***	21.2	18.2	9.2	18.4	20.3	8.2	28.8	17.4
4	18.1	25.6	21.9	***	17.9	19.1	11.3	20.1	21.4	18	25.1	23.4
5	22.6	25.8	20.6	***	23.6	13.6	5.8	18.7	23.3	12.2	22.9	29.1
6	23.4	24.2	26.9	***	17.5	12.7	8.6	5.4	25.8	21.4	18.1	28.1

7	25.9	26.6	26.6	***	16.8	11.1	12.3	15.7	26.6	24.6	28.4	31.5
8	28.7	29.2	27.6	***	11.3	11.8	15	18.2	27.7	27.2	33	14.2
9	28.6	26.3	23.7	***	16.7	11.7	15.5	15	26.4	27.5	30.5	12.9
10	18.6	24.7	28.5	***	18.6	11.3	16.1	13.9	24.9	28.5	18.2	23.1
11	19.1	28.5	27.9	***	20.3	16.6	17.2	21.5	27.6	28.9	18.9	25.4
12	24.1	27.2	29.9	20.3	19	13.2	15.3	23.7	23.2	25.6	20.2	26.3
13	23.4	27.1	25	19	18.2	17.5	16.5	16.6	17.1	24.4	25	30.4
14	26.5	25.9	23.3	18.1	19.4	18.6	15.1	4.6	15.6	27.8	16.8	25.1
15	24	26.7	26.1	17.9	20.3	18.9	15.1	9.9	22.1	23.5	21.8	24.6
16	30.4	25.7	25.7	12	19.1	15.9	14.2	14.4	15.8	16.2	28.5	23.7
17	22.1	19.4	23.9	12.1	17.8	11.8	16.5	16.8	24.1	18	23.3	25
18	28.1	20.2	17.9	19.9	17.3	19.1	15.6	19.2	27	27.2	22.5	32.8
19	30.2	23.2	20.5	21.1	14.7	19.7	16.6	18.9	17.7	24.1	21.7	29.4
20	21.2	24.4	25.1	22.2	19.3	16.2	14	16.6	19.3	18.3	31	24.5
21	26.3	24.6	26.9	19.5	20.6	16.5	17.7	23.9	12.1	24.8	23.5	30.9
22	23.4	24.8	27.7	16.1	21	18.2	19.9	26.1	18.9	29.4	12.3	28.3
23	16.5	25.4	28.8	21.1	22.4	18.2	20.8	23	16.9	29.5	18.4	13.6
24	17.4	25.6	28.2	22.1	18.3	7.8	20.9	12.5	17.7	30.2	9.1	18.5
25	18.6	24.4	21.6	22	12.9	8.9	6	24.1	24.2	22.9	16.3	29.7
26	25	24	25.3	19.8	6.5	11.1	2.6	25.3	27.3	20.3	20.4	19.9
27	22.1	26.7	***	11.2	12.3	13	8.5	7.8	17.6	25.7	19.2	28.2
28	26.8	24	***	15.3	14.2	16.9	14.2	13.7	24.2	26.7	14.9	16.1
29	30.3	***	***	17.3	16.5	19.4	6.1	24.4	23.8	27.7	29.1	19.7
30	27.7	***	***	16	15	12.9	13.3	26.4	18.6	26.4	29.5	28.1
31	24.8	***	***	***	9.9	***	16.2	26.3	***	19.4	***	18.3
Avg	23.8	25.2	25.3=	18.1=	17.5	15.1	13.6	18	21.7	23.3	22.1	24

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2013 08:00 (Extracted 2023/06/29

09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15	23.7	14.3	24.4	24.7	23.8	12.3	20.8	14.5	25.7	17.5	16.4
2	24.9	28.6	23.7	21.8	22.7	20.1	13.8	21.2	22.2	28.8	14.8	21.9
3	29.6	24.3	24.5	13.2	21.7	10.5	10.9	19.6	22.9	31.1	23	24.6
4	21.6	14.8	29.2	16.9	9.5	13.4	8.1	20	18.3	30.4	29.4	22.7
5	22.6	18.3	32.4	22.7	14.4	13.7	12.9	20	22.2	31.2	32.5	18.6
6	28.6	26.3	30.9	24.9	18.2	19.4	18.8	19.2	23.5	12	31.5	19.4
7	24.5	21.5	28.8	25.5	21.4	22.4	19.6	17.3	25.5	14	26.2	19.8
8	33.2	23.9	28.8	26.9	21.1	19.8	20.7	14.1	27.5	25	23.5	25.9
9	32.7	28.1	17	22.5	16.9	10.6	17.4	10	14	25	21.3	18.8
10	22.8	24.7	16.5	9.2	8.3	16.1	16.6	13.4	20.4	30.1	21.6	17.6
11	12.2	27.7	22.7	13.7	13.6	17.9	19.8	21.2	8.1	32	21.3	13.6
12	18.6	24.2	29	17.9	19.9	17.4	18.8	14.1	14.9	27.9	29	16.1
13	27.7	30.8	21.3	24	22.1	19.4	19	18.9	20.3	13.8	33.8	23.4
14	32.2	31.4	22.2	25.3	22.4	17.6	16.6	13.1	22.5	17.5	33	22.1
15	19.8	16.9	29.5	26.9	23.8	12.7	18.3	16.3	24.4	26.9	15.9	23.3
16	25.5	20.8	20.6	28.7	19.5	15.9	18.8	17.2	23.7	22.2	22.7	18.3
17	30	29.3	20.9	26.7	11.6	16.6	13.4	19	25.8	10.8	21.7	17.6
18	22.7	29.6	26.2	19.1	16.3	18.1	20	13.4	27.3	10.8	19.1	19.7
19	17.4	29.9	21.6	10.9	20.5	18.2	15.4	14.1	29.6	15.7	29.5	25.1
20	25	22.4	26	9.9	20.6	19.6	13.7	20.3	21.6	20.6	26.1	29.9
21	23.1	21	31.6	8.8	21.4	20	14.3	22	13.1	11	12.1	29.2
22	25.5	26.6	33.1	15.9	22.3	19.4	18.7	12.6	18.3	12.6	27.1	26.4
23	33.2	23.8	28.4	16.3	22.2	20	18.3	17.9	24.3	18.2	23.2	23.6
24	34.4	25.7	25.3	22.3	22	19.8	13.6	20.3	27.3	23.4	22.5	24.4
25	23.4	29.2	15.9	23	23.1	20.3	20.2	20.1	26.7	24.9	31.3	24.4
26	23.7	33.3	22	24.2	23.4	17.9	21.6	25.9	28.1	17.1	29.8	24.4
27	19.7	33.4	18.3	26.3	17.8	10.7	21.4	26.2	24.9	18.7	12.4	25.5

28	19	25.4	25.5	24.1	16.2	14.1	14	26.9	18.2	22.5	14	27.1
29	25.2	***	21.2	18.2	17.6	17.9	15.3	27.1	14	24	24.3	19.6
30	24.6	***	17.6	23.6	17.4	19.8	15.6	12.2	19.5	28.8	15.1	25.8
31	21.8	***	19.1	***	19.8	***	19.6	10.3	***	23.6	***	24.8
Avg	24.5	25.6	24	20.5	19.1	17.4	16.7	18.2	21.5	21.8	23.5	22.3

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	31.5	29.7	25.8	23.2	20.3	20	21.3	20.7	19.4	12.6	19.7	28.3
2	24.5	18.3	27.3	22.8	25.9	17.1	20.5	23	22	11.4	21.4	27.8
3	30.9	22.4	21	16.4	27.5	19.2	20.7	22.8	23.1	14.1	20.8	23.3
4	30.7	25.8	17.8	16.7	24.8	20.6	21.1	21	24.1	16.2	20.1	21.1
5	30.1	22.7	20.2	15.7	12.6	10	15.7	19	23.8	23	18.1	14.8
6	23.8	20.7	24.4	19.8	18.4	7.8	9.8	16	25.9	28.1	20.8	20.3
7	23	27	28.7	23.9	22.9	17.2	6.6	15	27	28.7	17.5	25
8	23.2	21.7	28.3	24.6	22.3	18.7	8.4	17.7	27	18.9	28.4	24.9
9	27.6	28.8	15.6	24.5	21.6	16.7	10.8	16.9	28.2	11.2	28.3	25.6
10	21.7	25.5	18.8	24.8	16.5	9.1	12.8	16.5	18.4	13.9	16.5	18.5
11	22.2	31.3	23.1	25.3	16.7	16.3	17.4	17.7	27.9	26.2	23.2	24.3
12	30.3	32.7	14.8	25.7	17.3	16.7	13.8	21.7	20.2	26	21.9	27.2
13	20	29.5	16.9	25.3	18.6	18	14.8	23	27.8	16.8	20.5	17.3
14	25.8	24.2	24.3	24	15.3	16.5	12.7	17.5	30.9	23.1	25.3	29
15	33.2	25.5	25.8	12.5	21	15.9	18.7	14.5	29.6	21.9	19.3	15.4
16	30.5	25.1	26.8	11.6	17.4	17.1	20.6	18.4	28.8	13.5	13.8	16.2
17	32.1	28.6	24.1	20.7	11.8	17.6	21	21.4	27.3	8.2	15.1	23.3
18	19.4	26.7	26.8	24	14.6	20.5	15.5	22	23	***	19	26.8

19	24.5	22.5	25.8	24.9	18.5	11.5	15.2	22.5	16.5	***	22.4	25.8
20	26	24.2	20.1	24.9	16.4	14.5	16.7	19	16.4	***	22.4	21.3
21	22.1	17	25.9	24.1	13.6	18.8	18.3	17.9	21.6	19.8	23.1	28.6
22	30.3	21.6	27	21.3	19.1	19.5	18.9	13.3	26.7	24.1	26.7	21.5
23	30.3	27.6	28	13.7	21	18.6	17.1	16.1	24.7	29	19.4	30.7
24	31.4	25.1	28.8	9.3	24.3	19.1	23	12.4	24.1	21.2	20.5	24.4
25	16.6	20	29.2	18.7	20.8	17.2	22.9	19.9	24.3	14.8	19.3	32.4
26	23.8	20.5	22.4	18.8	21.6	17.9	10.6	23	30.8	14.7	25.4	21.4
27	30.6	26.4	19	12.1	21.6	13.8	13.6	23.5	15	27.7	25.7	17.2
28	29.9	28.5	21.8	21.2	21.1	16.1	11.9	16.2	10.3	24	19.6	22.5
29	27.6	***	25.1	22.5	20.1	20	19.3	5	20.9	29.6	18.9	22.9
30	18	***	22.2	19.1	18.7	20.9	18.9	9.6	17.6	30	24	18.9
31	21.1	***	26.5	***	21	***	19.3	15.5	***	11.3	***	19.2
Avg	26.2	25	23.6	20.4	19.5	16.8	16.4	18	23.4	20.0=	21.2	23.1

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2015 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23.3	12.9	21.1	27.9	21.9	13.8	15.1	14.9	17.4	9.8	21.1	36.2
2	26.4	17.9	16.5	26.7	20.7	17.3	18.3	18.6	13.4	22.2	11	29.7
3	24.5	22.3	26.7	20.7	22.9	15.4	19.8	19.9	11.4	26.6	13.2	26.5
4	22.7	26.5	28.8	20.3	21.9	9	19.4	20.3	15.9	31.6	21.6	31.9
5	27.5	21.6	25.1	13.6	23.8	7.2	20.2	15.7	19.4	28.4	27.7	20.6
6	21.9	20.9	25.1	15	16.7	14.2	13.5	20.6	20.9	30	27.5	28.2
7	25.8	23.3	27.1	***	15.9	13.4	18.6	23.3	22.6	32.2	27.5	29.7
8	29.7	30.7	22.5	***	23.1	16	18.9	22	9.9	26.7	27.5	28
9	16.3	31.5	27.9	20	25.5	17.6	14.2	21.6	23.2	19.3	24.1	26.2

10	30.5	30.6	30.6	24.6	15.3	18.6	20.1	10.8	23.8	29	20.4	29.3
11	25	25.9	22	23.9	15.8	14.5	18.3	14.5	11.9	21.8	20.6	35.2
12	31.5	32.7	25.9	23.9	17.2	15.3	16.6	16.8	17.8	30.4	13.2	30.3
13	24.8	24.2	21.1	25.7	20.4	20.2	8.9	19.8	16.9	30.6	22	19.2
14	19.4	24.3	24.3	24.4	22.4	20.2	8.8	20.4	26.7	17.2	18.2	13.9
15	28.8	18	29.9	14.4	23	19.9	17.9	24.7	24.9	21.3	17.9	27.5
16	28.4	17.3	20.8	11.6	21.7	18.1	17.7	25.5	16.7	17.7	21.8	22.5
17	17.7	22.3	16	12.3	19.7	8.5	9.2	25.6	9.5	26.6	27.6	25.5
18	22.8	28.4	28.3	15.4	24.3	15.7	14.6	25	6.7	29.7	15.1	35.4
19	20.9	30.8	26.4	17.9	23.6	14.5	18.7	12.7	12.6	27.3	29.4	35
20	20.2	31.7	27.7	19.4	24.4	19.1	20.4	11.2	24.9	28.4	29.3	23.4
21	29.1	25.5	27.8	17.6	23.6	18.8	12.9	17.8	25.5	28.7	13.5	33.4
22	27.6	17.1	24.8	23.7	20	17	12.1	19	24.5	18.4	19.7	21.1
23	30.2	28.9	18.2	14.1	22.7	18.5	12.5	21.9	26.8	19.7	23.7	31.3
24	33.5	25.7	19.7	21.4	22	18.7	12.2	27.1	30.1	28	25.6	32.5
25	28.2	23.3	26.1	24.9	22.3	13.4	8.4	26.3	32.4	30.2	27.7	15.7
26	28.9	29.7	23.4	21.3	21.7	13.5	10.3	25.8	27.3	16.6	14.4	23.7
27	17.7	18.5	19.7	19.6	21.9	12.1	15.3	24.2	29.8	21.5	14.1	31
28	15.5	22.7	18.3	22.8	23	14.2	17.2	26.7	28	28.3	20.3	34.9
29	22.4	***	24.4	23.8	23.9	14.1	17.5	24.4	30.1	28.9	26.6	26.3
30	28.9	***	21.6	16.4	23.5	15.2	14.4	20.6	27	27.5	28.9	28.8
31	26.7	***	26.7	***	23	***	8	22.7	***	14.9	***	30.6
Avg	25.1	24.5	24	20.1=	21.5	15.5	15.2	20.7	20.9	24.8	21.7	27.9

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	27.1	31.5	30.6	27	16.4	19.2	19.1	11.1	26.1	16.8	19.4	21.4
2	27.2	32.5	26.1	22.7	17.3	20.6	6.7	***	26	9.2	24.4	22.1
3	33.1	28.7	25.5	19.8	17.9	21.1	14.3	13.7	23.2	11.7	32.2	32.9
4	33.6	16.9	26.6	27.5	17.5	8.4	18.2	11.5	19.4	16	30.8	23.5
5	38.9	18.9	31.5	16.6	21.8	11.5	20	18.3	26.9	24.2	19.3	20.6
6	32.2	24	30.2	11.6	21.1	19.5	16.9	19.8	19.9	27.9	15	32.7
7	18.9	20.8	28.8	14.8	10.8	20.2	11.8	20.6	23	15.4	26.2	26.6
8	14.2	20.8	17.3	20	10.3	19.7	17.2	11.1	26.2	21.6	21.3	31.8
9	21.6	22.4	19.8	22.1	18.3	19.4	15.5	20.8	17	14.7	27.1	30.2
10	25.5	24.9	27.3	22.9	15.3	20	18.4	22	12.8	23.6	14.7	19.5
11	25.2	28.6	19.8	24.6	18.9	9.5	19.6	21.3	22.3	29.2	15.5	20.3
12	25.3	29.4	25.7	25.4	23.4	10.2	18.4	21.1	21.9	11.5	23.4	29.7
13	26.3	32.4	27.8	27	20.4	12.5	18.5	21.8	9	16.7	19.1	18.9
14	25.9	31.9	18	26.5	17.4	12.7	19.5	18.2	16.5	23.6	17	29.1
15	16.3	30	27.3	27.8	20.1	16	16.6	14.6	24.4	30	21.3	30.7
16	22	16.1	17.5	26.1	21.1	14	11.7	17.1	22.5	12.4	27.1	22.2
17	19.5	19.6	25.5	23	21.3	16.2	16.3	17.8	11.9	15.1	25.3	27.3
18	26.4	26	27	24.4	20.8	18.8	18.8	19	11	19.6	16.7	34.3
19	25.5	29.8	20.7	26	21.6	19.9	19.6	19.2	20	21.2	20.7	34.4
20	26.2	25.5	23	24.6	13.6	15.2	20.4	9.9	24	23.6	22	17.1
21	26.4	20.9	16.4	19.1	20.7	9.8	18.8	19.8	26.4	28	27.5	33.4
22	24.9	23.8	18.6	20.8	21.7	14.4	15.3	12.2	21.3	29.1	21.5	32.5
23	23.7	29.3	25.8	19.9	20.1	18.6	9.3	16.1	13.5	14	28.8	33.8
24	24.1	31.8	26.2	23.7	18.3	19	7.9	21.6	20.3	25.3	27.3	27.1
25	22.2	25	21.9	25.4	13	18.1	7.3	23.7	19.2	21.5	20.1	23.6
26	22	29.7	20	10.4	18.2	18.4	14.4	20.5	28.7	25.8	21.3	28.8
27	29.4	18.7	22.4	23.2	18.4	17.8	10.6	26.1	23.8	32.8	26	25.5
28	22.9	23.7	22.5	24.4	19.9	16.7	11.5	26.2	15.4	22.4	30.6	22.7
29	26	30	26	22.9	20.8	18.6	13.4	27.3	19.8	22.1	23.9	19.9
30	31.9	***	28.7	9.5	21.6	20.2	11	27.9	17.6	19.9	25.3	31
31	28.7	***	22.5	***	20.4	***	16.3	27.3	***	22.8	***	32.1

Avg	25.6	25.6	24.1	22	18.7	16.5	15.3	19.3=	20.3	20.9	23	27

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32.6	31.9	26.9	25.2	23.9	22.3	16.7	19.9	11.9	25.3	30.8	31
2	34.5	27.5	28.5	29.3	22.1	21.6	20.6	21.4	20.3	24.4	29.9	28.3
3	17.1	22.6	28.9	26.9	22	22.1	13.2	22.1	20	28.9	31.6	24
4	20.2	21.3	27.7	30.4	19.9	20.9	18.5	19.1	25.4	22.2	26.5	15.3
5	23	16.8	27.7	31.2	23.5	20.8	21.8	15.2	25.1	11.3	24.8	17.8
6	16.8	23.4	29.5	17.1	23.1	21	23	16.7	24.3	17.9	22.4	16.4
7	21.5	28.1	30.3	21.5	23.1	21.8	23.6	15.5	26.9	20.1	18.6	24.2
8	23.7	28.4	30.6	22.1	22.7	11.5	19.1	18.8	27.6	17.3	16.6	27.4
9	29.1	27.6	18.4	25.5	23.2	16.4	20.3	22.9	23.9	8.9	20.6	27.7
10	18.9	25.8	18.6	25.1	24	20.2	14.5	23.3	29.4	7.5	14.5	17.3
11	24.9	29.5	26.3	18.4	23.4	18.7	14.9	23.9	29.4	19.6	24.4	12.1
12	26.6	24.3	21.9	21	9.1	19.2	15.2	20.6	31.6	16.1	31.9	20.8
13	17.6	26.4	30.1	19.8	8.6	19.6	11.7	10.4	29.8	15.5	27.9	22.1
14	23.7	22	29.3	11.1	11.8	16.5	16.7	22.5	15.8	25.2	27.5	19.7
15	30.9	20.3	26.5	11	17.1	16.7	17.6	22.3	22.4	25.2	13.7	25.5
16	14.1	29.3	25.2	16.2	19.4	18.5	12	15.7	18.7	20.4	6.5	32.4
17	18.2	27.7	30.8	16.8	19.1	19.6	14.9	3.3	14.3	13.6	16.5	26.2
18	29.6	29.1	30.9	17.6	20.2	19.1	19	6.3	20.8	24.5	22.7	21.1
19	30.2	19.1	20.2	19.2	24	19.1	19.1	12.4	23.9	21.5	25.9	19
20	19.7	15.6	29.2	19.1	24.2	18.6	18.1	17.8	18.4	18.3	30.4	23.8
21	21.9	17.1	28.8	19.9	23.5	20.1	19.9	21.1	29.8	22.3	29.6	29.3
22	31.9	19.1	28.9	24.7	21.9	18.7	20.1	17	26.9	27.7	19.4	23.8

23	30.6	21.7	28.8	19.4	22.7	8.9	15.8	16.8	8.9	25.4	11	23.9
24	25.8	23.6	15.7	16.6	21.6	16.3	21.4	14	25.4	29.1	17.4	23.5
25	23.3	27.6	11.7	19.3	20.5	17.9	21.2	12.2	24.2	28.9	18.3	18.1
26	23.8	18	22.7	23.1	20.1	18.2	15.4	18.5	15.1	17.1	20.7	19.7
27	30.5	23.9	25.3	21.9	12.5	17.9	19.6	15.2	18.9	11.4	18.1	29.2
28	24.9	28.8	20.4	23.9	12.2	16.6	21.9	23.2	20.5	16.8	27.4	19.5
29	27.1	***	22.4	22.9	16.4	18	20.1	22.7	26.7	24.5	21.5	20.3
30	32.1	***	29.6	23.7	18.9	21.3	15.7	16.5	21.3	28	24.3	23.6
31	31.8	***	30.2	***	20.6	***	20.6	21.8	***	28.6	***	24.4
Avg	25.1	24.2	25.9	21.3	19.8	18.6	18.1	17.7	22.6	20.8	22.4	22.8

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.8	23.1	26.1	25.4	21.9	16.9	19.7	18.4	25.3	28.3	11.7	29.6
2	20.7	28.9	23.4	26.4	21.9	18.7	17.6	12.9	23.6	25.1	15.7	25.4
3	22.9	20.4	21.9	22.1	15.1	17.3	11.2	13.9	14.9	8.8	26.4	23.3
4	31	24.1	24.5	21.8	17.5	10.5	15.3	21.3	23.2	16.4	28.6	23.3
5	32.7	27.1	22.6	22.2	22.9	17.2	14.8	12.9	27.9	22.5	27.4	24.4
6	27.9	33.8	28.5	24.1	22.9	20.5	16.5	16.6	11	25.8	15.2	32.4
7	29.8	17.6	27	24	23.7	19.4	16.3	13.6	15.8	26.2	13.4	28.5
8	23.1	28.2	16.7	18.5	23.7	19.5	16.5	8.7	11.7	29.5	23.4	19.2
9	19.5	31.1	18.8	22.8	21.2	18.7	17.5	7.1	10.1	31.1	22.8	12.9
10	23.5	28.5	25.7	16.6	22.8	15	17.1	8	18.5	31.2	29.8	13.7
11	28.8	16.9	27.3	14.9	22.8	19.1	18.8	14.3	20.8	32	27	28.2
12	32	23.1	21.6	22.4	18.6	19.6	19.7	19.2	22.7	15	34.4	32
13	31.4	22.9	27.9	21.7	14.1	18	19.5	22.5	20.3	9.4	34.6	22.5

14	32.9	26.2	29	19.2	13.8	17.9	9.1	19.5	19.3	20.9	31	26.3
15	26.5	24.8	27	21.1	14.1	15.4	8.2	16.8	21.7	21.4	32.6	25.2
16	26.4	27.4	12.6	21.5	18.9	13.6	14.7	22.9	22.3	16.8	29.4	32.9
17	33	22.8	17.8	***	19.1	21.1	17.2	12.9	26.1	9.3	18.6	34.2
18	28.9	30.5	24.4	22.4	18	21.1	16.2	15.3	24.4	20.3	19.6	28.7
19	27	22.9	24.6	16.9	21.2	17.8	17.6	21.3	21.2	22.5	28.1	23.1
20	23.7	26.3	27.5	18.3	18.3	14.4	17.1	23.2	13.5	12.3	31.6	20.2
21	25.9	21.1	25	21.1	18.6	21	18.8	10.8	21.5	14.3	11.9	26.4
22	25.6	25.6	13.6	22.9	19.7	18.9	20.8	16.1	18.7	22.3	17	29.7
23	26.1	27.4	19.5	24.5	22.6	19.6	21	15	22.3	25.7	22.5	28.6
24	23.4	25.5	25.9	25.5	22.4	19	20.9	19.2	21.9	27.2	29.8	26.9
25	21.8	11.5	21.5	26.6	16.4	18.9	19.8	19.9	26.9	29.5	31.7	29.4
26	26.9	22.1	21.3	24	16	19.4	21.4	16.5	26	29.5	29.6	30.6
27	25.1	28.2	26.9	***	18.9	17.7	20.5	12.2	27.7	29.8	29.7	32.6
28	18.2	29.8	27	22.2	21.9	9.9	18.4	16.1	25.6	30.7	15.3	19
29	24.6	***	25.9	22.8	16.2	17.1	19.9	22.2	18.3	33.6	21	32.7
30	28.1	***	17.6	16.9	17.1	16.9	17.3	23.2	27.1	27.6	30.4	28.3
31	19.6	***	18.8	***	14.7	***	21.6	24.3	***	15.2	***	28.1
Avg	26	24.9	23.2	21.7=	19.3	17.7	17.5	16.7	21	22.9	24.7	26.4

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2019 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30.2	19.2	24.5	21.9	24.7	19.8	17.7	15	21	13.8	26.2	19.1
2	19.1	25	23.1	16	25.4	18.3	14.5	22.5	22.6	21.2	29.5	35.2
3	20.3	25.8	22	26.3	25.9	19.7	18.3	16.4	24.6	26.1	29.1	22.7
4	30	23.1	25.6	25.1	13.1	22.2	19.6	***	22.6	25.8	23.2	15.9

5	23.4	24.4	23.8	12.6	25.9	18.5	11.7	21.7	12.3	28.1	32.8	21.3
6	22.1	25.3	31.1	15.3	20.7	14.8	18.7	21.6	15.8	31.7	31.6	26.5
7	25.4	23	29.3	23.3	24.8	18.8	15	25.7	23.7	28.4	24.7	28.2
8	26.1	32.7	16.4	23.3	17.8	16	17.8	17.1	25.8	23.8	19.8	15.3
9	26.3	25.1	19.9	21.1	14.8	21.2	20.6	16.5	26.2	18	22.3	16.6
10	25.1	26.2	18.1	22.4	20.4	19.7	24.6	22.5	27.9	13.1	18.5	17.3
11	31.6	23.2	21.7	23.1	22.9	20.4	24.5	21	***	26.8	21.5	20.1
12	30.5	23.6	25.4	24.8	24.2	19.7	20.4	18.6	28	29.5	29.4	22.3
13	32.6	20.9	28.6	26.4	25.5	9.5	21.2	20	19.8	17.3	22.5	20.4
14	27.8	21.9	24.5	25.1	26.1	19	21.2	19.7	15.1	31.2	16.7	30.5
15	23.7	25	25.1	14.9	23.2	19.9	21.8	24.3	24.5	22.4	19.7	19.6
16	21.9	24.9	25	19.3	23.6	20.9	20.5	25.3	28.1	***	22.1	20.2
17	28.3	21.1	27.7	17.5	23.1	19.4	20.7	16.1	30.7	33.1	17.8	32
18	35.6	23.8	23.9	22.9	24.7	17.8	21.1	24	24.7	32.6	19.1	31.1
19	22.9	26.2	28.6	26.3	24.9	20.7	18.9	17.5	29.2	30.9	20.8	29.6
20	22.8	31.1	22	22.1	24	21.7	11.6	16.1	30.8	31.5	21.1	27.6
21	32	20.8	18.1	12.3	15.5	21.9	15.9	21.6	30.2	24.6	25.7	33.6
22	34.2	22.1	21.1	10.4	20.7	17.7	18.7	22.9	17.2	13.2	25.6	***
23	25.7	24.6	25.3	14.5	21.5	12.9	20.9	24.6	12.4	24.7	25	29.9
24	14.5	24.9	27.5	17.7	22.6	18.4	14.3	24.3	16.4	26.7	24	31.8
25	19.2	25.5	18	19.4	22.9	13.8	19.8	24.5	15.8	25.8	27.3	30.8
26	17.2	28.8	13.1	20.3	22	17.8	18.3	24.2	23.7	28.6	28.7	31.8
27	23.8	20.7	24.9	22.1	20.3	19.6	21.9	23.1	27	30.1	34.6	20.3
28	27.2	28.3	26.9	24.1	13.8	21	23.6	8.1	27.7	21.7	34.6	21.4
29	32.2	***	22.4	25.5	14.8	21.4	24.3	20.8	25.9	20.5	32.6	22.7
30	28.3	***	28.7	22.8	20.6	22.1	23.2	21.5	9.9	22.4	33.1	28.6
31	23	***	28.2	***	20	***	19	14	***	19.5	***	15.9
Avg	25.9	24.5	23.9	20.6	21.6	18.8	19.4	20.4=	22.7=	24.8=	25.3	24.6=

Daily Maximum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22.7	29.7	25.3	15.5	21.3	24.1	---	---	---	---	---	---
2	25.8	29	23.5	19.2	22.5	25.3	---	---	---	---	---	---
3	29	30.6	23.5	19.7	22.6	23.1	---	---	---	---	---	---
4	***	31.9	29	22.6	15.2	21.2	---	---	---	---	---	---
5	31.7	29.7	28.6	24.9	18.9	20.9	---	---	---	---	---	---
6	27.1	23.1	26.5	25	18.7	19.9	---	---	---	---	---	---
7	23.5	20.5	30.6	15.6	21.3	19.4	---	---	---	---	---	---
8	22.6	22.7	29.3	16	21.3	19.2	---	---	---	---	---	---
9	22.2	***	23	21.7	22.4	18.6	---	---	---	---	---	---
10	20.6	16.9	21.2	23.5	23.7	20	---	---	---	---	---	---
11	28.4	19	21.8	24.4	22.4	11.5	---	---	---	---	---	---
12	26.1	27	23.4	22.8	21.4	8.7	---	---	---	---	---	---
13	25.4	***	26.4	19.7	16	13	---	---	---	---	---	---
14	26.6	31.4	27	12.7	17.1	14.7	---	---	---	---	---	---
15	29.2	29.9	23.6	15.4	18.8	12.5	---	---	---	---	---	---
16	31.8	29.6	13.7	17.8	***	12.4	---	---	---	---	---	---
17	33.8	23.8	25.1	21.6	21.3	13.7	---	---	---	---	---	---
18	20	16.2	24.7	23	22.5	15.1	---	---	---	---	---	---
19	15.9	***	26.6	25.1	22.5	17.9	---	---	---	---	---	---
20	19.8	27.6	27.5	28	22.8	17.6	---	---	---	---	---	---
21	22.6	27	21.9	18.3	22	17.5	---	---	---	---	---	---
22	22.5	***	27	20.9	21.8	***	---	---	---	---	---	---
23	18.6	13.5	24.9	22.9	20.2	***	---	---	---	---	---	---
24	***	21.1	26.4	18.5	19.4	22.1	---	---	---	---	---	---
25	28.8	28	27.7	15.8	20	22.2	---	---	---	---	---	---
26	29.7	29.6	17.1	17.9	11.1	17.9	---	---	---	---	---	---

27	18.7	20.3	15.9	13.9	10.4	16.5	---	---	---	---	---	---
28	28.3	13.4	24.6	10.6	16.3	14.2	---	---	---	---	---	---
29	25.8	18.2	21.3	11.8	***	17	---	---	---	---	---	---
30	***	***	26.3	19.7	20.2	14.7	---	---	---	---	---	---
31	34.2	***	25.2	***	23.1	***	---	---	---	---	---	---
Avg	25.4=	24.4=	24.5	19.5	19.9=	17.5=						

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	28.9	29.2
2	---	---	---	---	---	---	---	---	---	---	32	30.7
3	---	---	---	---	---	---	---	---	---	---	31.9	27.2
4	---	---	---	---	---	---	---	---	---	---	27.7	28.4
5	---	---	---	---	---	---	---	---	---	---	24.4	30.7
6	---	---	---	---	---	---	---	---	---	---	24.2	28.2
7	---	---	---	---	---	---	---	---	---	---	27.7	27.1
8	---	---	---	---	---	---	---	---	---	---	27.9	27.1
9	---	---	---	---	---	---	---	---	---	---	30	27.9
10	---	---	---	---	---	---	---	---	---	---	25.6	30.6
11	---	---	---	---	---	---	---	---	---	---	30.6	31.2
12	---	---	---	---	---	---	---	---	---	---	28.1	32
13	---	---	---	---	---	---	---	---	---	---	32.7	31.2
14	---	---	---	---	---	---	---	---	---	---	34.5	32.8
15	---	---	---	---	---	---	---	---	---	---	31.1	33.7
16	---	---	---	---	---	---	---	---	---	---	30.6	30
17	---	---	---	---	---	---	---	---	---	---	29.3	26.6

18	---	---	---	---	---	---	---	---	---	---	33.8	24.1
19	---	---	---	---	---	---	---	---	---	---	35.3	29.5
20	---	---	---	---	---	---	---	---	---	---	33.6	30.8
21	---	---	---	---	---	---	---	---	---	---	31.5	30.5
22	---	---	---	---	---	---	---	---	---	---	26.5	33.7
23	---	---	---	---	---	---	---	---	---	---	26.8	33.3
24	---	---	---	---	---	---	---	---	---	---	26.4	26.1
25	---	---	---	---	---	---	---	---	---	---	30.3	21.7
26	---	---	---	---	---	---	---	---	---	---	32.4	22.8
27	---	---	---	---	---	---	---	---	---	---	23.7	27.8
28	---	---	---	---	---	---	---	---	---	---	28.3	30.5
29	---	---	---	---	---	---	---	---	---	---	26.7	32.1
30	---	---	---	---	---	---	---	---	---	---	23.7	32.9
31	---	---	---	---	---	---	---	---	---	---	***	33.2
Avg											29.2	29.5

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30	30.6	31.5	26.5	25.5	18.8	20.3	22	27.8	31.2	32.9	32.9
2	28.4	32.5	30	28.7	23.1	20.4	19.7	23.2	23.8	32.9	34	29
3	33.2	32.5	30.2	28.2	17.1	18.6	19.4	23.7	23	30.5	30.3	27.7
4	28.1	31.8	30.7	24.3	21.1	18.5	20.3	22.4	26.9	28.6	26.3	27
5	33.3	33.2	30	22.4	19.3	18	15.8	22.5	29.1	28.7	27.8	28.1
6	35	34.7	33.4	24.1	20.8	22.8	19	24	30.9	29.2	27.6	25.2
7	35.6	33.9	33.4	25.6	21	24.5	21.3	23	23.9	32.5	31.1	27.9

8	34.2	35.6	31.1	26	25.6	18.4	19.6	23.5	27.6	29.9	33.3	31.4
9	32.2	36.9	32.2	27.1	24.8	14.2	16.9	11.3	21.1	28.6	22.9	32.6
10	28	33.2	33.5	21.6	17.8	16.5	19.9	12.1	20.4	30.8	24.7	33.2
11	28	31	33.9	25.5	14.4	12.6	14.9	18	24.5	22.8	28.1	26.1
12	32	32.4	33.5	30.1	19	15.9	9.8	18	28.8	24.4	25.9	27.8
13	33.3	32	33.1	30.2	23.9	14.8	14	20.3	30.4	18.9	30.9	27.3
14	33.2	34.1	28.1	28.8	21.4	14.9	15	22.1	30.5	20.5	30.6	28.4
15	33	32.2	29	28.7	18.5	7	11.9	22.8	30	18.8	31.2	25.6
16	32	24.5	31.8	24.5	22.2	8.5	12.8	25.3	21.7	21	25.5	27.5
17	33.8	28.5	26	24.3	23.8	14.3	18.3	24.9	26.1	26.6	25.4	28.8
18	35.9	30.3	27.5	24.4	23.2	14.4	21.6	25.7	26.1	31	27.8	32.7
19	23.2	33.1	30.7	22.1	24	14.8	21.8	12.9	24.2	28.8	29.1	29.6
20	29.6	32.9	30.5	18.8	23.8	17.6	23.3	19.6	25.2	31.8	33	30.1
21	29.6	33.8	30	20	24.2	18.5	21.4	22.8	14.9	31.5	33.6	23.2
22	28	34.3	29.5	19.7	23.5	18.4	20	20	19	27.4	32.9	32.6
23	31.7	26.4	28.3	15.1	22.9	17.3	21.8	15.5	28.2	21.9	32	31
24	32.6	20.8	28.5	18.9	22.8	18.5	21.6	19.7	30.7	25.8	25.4	29.8
25	27.7	27.2	28.7	21.6	23.5	20.7	22.2	22.2	30.9	19.1	29.2	27.3
26	26.6	29.4	26.7	23.2	24.1	22.5	23.3	21.1	26.5	24	29.6	30
27	31.6	29.9	23.1	21.1	23.3	22.5	23.6	21.1	20.1	27.7	28.2	31.5
28	31.4	31.4	25.7	21.9	16	18.6	24.4	27	25.1	20.9	31.3	33
29	29.2	***	28.5	22.5	17.8	19.3	18.2	29.3	26.3	27	25.8	30.2
30	31.9	***	29.3	24	19.6	19.8	20.1	27.8	29.5	31.2	30.2	29
31	33	***	26.4	***	18.9	***	20.9	27.5	***	31.5	***	26.8
Avg	31.1	31.4	29.8	24	21.5	17.4	19.1	21.7	25.8	27	29.2	29.1

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22.1	30	29.9	28.4	23.7	13.8	12.8	19.3	27.4	28	20.9	31.4
2	27.9	30.4	30.7	26.6	24.6	16.9	12.8	18.6	17.9	21.5	26.1	28.4
3	26.5	29.2	29.7	25.3	22.5	18.7	13	19.6	21.3	18	30.9	25.6
4	21.8	24.2	26	22.1	25	19.8	16.9	19.9	24.3	21	29.2	31
5	28.7	27.2	17.5	24.9	23.2	18.4	8.3	15.9	24.7	16.6	24.5	30.3
6	29.8	21.8	28.4	16.3	14.8	18.8	12.6	11.5	27.2	23.7	23.8	31.1
7	29	30.1	29.4	23.1	19.7	8.9	17.4	17.9	28.6	26.8	29.8	33.8
8	30.3	32.3	29.7	25	21.8	8.1	17.9	19.3	29.5	28.8	35.2	27.6
9	31	33.3	30.8	26.8	21.3	10.3	18	19.4	30.5	29.8	35.6	24.8
10	30	30.3	30.6	27.2	14.1	15.4	17.7	19.5	26.7	30.6	30.7	25
11	28.2	30.1	28.1	24.6	20.5	20.2	17.3	21.1	29.4	31.4	30.9	27
12	27.6	32	30.6	19.2	18.9	19.7	18.2	24.8	27.1	32.2	30	28.1
13	28.8	29.6	24.6	19.1	17.7	19.1	18.2	19.7	23.6	32	28	31.9
14	26.7	31.7	29.3	23.9	20.9	18.5	18	12.1	24	29.6	23.1	27.6
15	30.7	31.7	29.6	25.1	21.4	19.3	18.3	17.7	23.2	25.2	27.4	26.3
16	31.1	31.9	29	19.8	19.4	11.8	19.1	19.8	22.1	24.1	32.4	29.3
17	29.7	28.6	21.7	21.2	19.9	14	17.2	18.4	25.7	27.1	33	32.4
18	30.7	24.5	25.2	20.8	18.5	16.9	17.6	18.8	28.5	29.3	33.6	34.5
19	31.7	27.6	27.9	23.5	19.1	18.3	18.7	19.4	18	24.2	33.8	33
20	32.1	29.6	27.5	23.8	20.1	16.9	16.7	22.1	20.9	22.7	32.4	30.6
21	28.2	28	29	20.4	21.7	18.5	18.1	25	19.5	27.1	29.1	31.3
22	23.2	25.8	30.7	22.3	23.3	19.2	21.4	26.2	21.1	31.3	29.1	29.4
23	24.3	29.1	29.7	15.1	20.7	16.1	22.9	24.3	22.6	31.9	27.7	28.2
24	21.1	28.9	29.8	23.9	18.8	8.1	21.3	15.9	24	31.8	19.9	30.5
25	26.4	26.9	25.1	23.3	11.4	10.2	9.2	22.9	25.8	27.1	25.3	31.7
26	29.9	29.1	27.9	20.4	11.1	13	10.9	26	28.7	27.1	28.6	21.7
27	27.2	30.4	28.2	12.8	16.3	13.4	16.3	19.3	29.2	27.7	32	29.8
28	31.2	30.2	28.1	16.3	16.1	18.3	16.2	21.6	30.2	29.5	28.5	25.8
29	32.3	***	28.7	19	17.7	20.3	10.4	26.2	24.4	27.6	31.8	27.5

30	31.2	***	31.6	21.9	14.7	13.4	16.1	26.9	26	28.8	31.7	30.5
31	30.4	***	32.2	***	12.5	***	17.5	26.6	***	22.8	***	30.2
Avg	28.4	29.1	28.3	22.1	19.1	15.8	16.4	20.5	25.1	26.9	29.2	29.2

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2013 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.9	30.8	26.5	21.2	26.2	24.7	14.7	20.4	15.4	26.5	21.7	32
2	31.3	33.4	29.2	22.1	24.6	17.7	19.8	21	21.9	29.8	21.5	29.9
3	32.2	31.8	32.1	18.5	23.6	11.2	18.9	22.7	24.4	32.4	27	25.6
4	29	24.8	33.4	23.1	12.8	12.7	16.1	20.6	21.7	33.2	31.3	28.7
5	31.5	30.6	34.5	24	19.1	14.9	13	20.2	22.8	32.9	35.1	27.5
6	33.8	32	33.9	25.9	21.7	19.3	18.6	20.7	25.2	22.2	33.8	26.6
7	35.8	31.1	32.8	27.2	22	23.4	21.9	17	27	25.9	27.6	29.8
8	36.8	33.8	32.6	27.8	22.7	20.9	22.1	13.2	28.8	28.3	28.6	29.4
9	36.4	33.5	26.3	23.9	18.7	10.3	21.1	13.5	22.8	30.8	28.7	23.6
10	33.5	26.8	28.9	15.4	18.5	15.1	22.1	16.6	22	32.5	30	24.8
11	29.5	29.7	28.7	21.4	19.7	17.3	19.3	20.2	16.4	33.9	30	21.8
12	31.6	31.2	29.7	23.8	20.7	18.3	19.2	15.6	18.2	27.9	34.7	25.8
13	34.8	31.7	30.5	27.4	23.4	20.6	19.2	18.6	22.8	18.5	36.5	28.4
14	36.3	35	29.2	28	24.5	17	20.2	12.6	23.1	23.2	35.6	30.6
15	35.1	29.4	31	29	24.3	15.7	19.6	16	24.5	29	22.1	31
16	35.3	30.6	29.5	30.2	17.5	17	20	16.6	24.2	29.8	23.7	25.8
17	32.1	30.5	26.9	26.4	17.8	20.6	21.8	19.3	26.8	26.1	23.4	27.9
18	30.3	31.3	30.7	19.8	20.9	17.7	19.8	14.4	28.7	21.4	26.9	28.1
19	30.5	29.9	29.6	14	21.9	19.5	16	18.1	31	23.3	32.2	30.4

20	30.8	27	30.9	13.3	21.4	20.9	15.3	21.1	20.8	20.2	27	32.4
21	31.7	28.2	34.8	14.1	22.8	20	17.9	22.5	14.9	18.5	26.2	32.8
22	33.8	31	36.5	20.1	24	21	19.2	17.9	23.2	21.3	26.9	34.9
23	36.8	31.4	35	21.9	23.1	20.1	19.5	19.7	27.9	24.5	31.1	24
24	37.7	32.6	31.7	25.2	23.7	19.7	18.6	22.1	28.7	26.2	32	30.6
25	34.9	33.8	29.4	24.7	24.7	***	19.8	25.6	28.3	26.9	33.4	31.4
26	34.7	34.6	27.1	25.2	25	***	21.8	26.3	28.7	24.5	33.7	33.3
27	***	34.4	18.6	26.4	19	14.7	21.9	27	25.9	27.8	23.9	31.7
28	34.8	30.2	25.9	25.9	17.1	15.3	13	27.9	18.8	24.5	25.2	33.4
29	34.8	***	24.9	26	19.3	19.4	16.2	26.9	18.9	26.4	28.3	27.3
30	24.7	***	22	25.4	18.2	22	19.5	14	22.9	31.5	28.7	29.6
31	27	***	24.6	***	20.2	***	19.7	11.3	***	23.1	***	32
Avg	32.9=	31.1	29.6	23.2	21.3	18.1=	18.9	19.3	23.6	26.5	28.9	29.1

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.1	30	28	25	24.4	21.1	22.2	22.8	22.6	19.2	19.1	30.5
2	34.3	30.4	27.2	23.5	27.1	17.1	21.9	24.4	23.8	20.7	21.6	32
3	35	30.9	28.7	18.7	27.9	19.3	20.9	23	24.9	20.8	23.3	25.8
4	33.9	23.2	25.1	21.6	26.5	21.8	21.1	20.6	25.2	23.6	20.9	31
5	33.7	27.5	24.1	23.1	20.7	7.8	14.5	18.3	25.9	28.4	25.4	26.9
6	30.4	28.8	28.4	27	23.8	11.4	9.7	19.4	27.4	30.4	28.1	31.5
7	29.9	31	31	26.7	22.6	16.3	10.4	15.5	28.9	30.7	30.6	31.9
8	29.2	29	29.6	28.5	23.1	18.8	11.4	22.7	29.2	28.3	32.6	28.1
9	29.8	31.2	27.6	27.6	22.6	18.7	12.2	17.3	30.3	25.5	28.8	28.3
10	29.1	32.9	28.2	27.4	16.7	13	14.8	22.6	29	26	28.4	27.7

11	30.8	***	25.6	27.1	17.6	14.9	15.8	20.7	29.9	28.4	25.2	30.3
12	33.8	***	24.1	28.5	20.1	17.4	13.8	22.2	28.2	29.3	21.2	30.2
13	30.4	***	24.8	26.9	21.6	19	15.2	24.3	30.4	23	21.3	30.6
14	32.9	***	25	25.2	23.3	18.8	17.3	22.8	32.4	29.9	25.2	32.2
15	36.5	***	26.8	17.4	23.9	15.1	19.4	21.6	31.2	26	17.5	26.9
16	36.9	***	27.5	23.3	18.5	15.5	20.6	22.3	29.7	20.3	17.9	26.9
17	37.4	***	27.5	23	16.7	17.6	20.6	21.5	27.4	15.9	20.5	28.4
18	31	30.6	28.2	26.1	20.4	20.1	13.4	23.2	17.9	25.6	24.7	31.5
19	31.2	19	27.1	27.5	20.4	12.7	13.3	21.7	18	28.9	26.7	28.7
20	34.2	***	26.9	27.2	14.4	14.3	17.3	14.6	21.5	30.6	26.5	31.7
21	30.5	***	27.4	26.3	18.3	18.6	19.1	17.6	25.3	31.5	28.2	33.1
22	33.9	***	26.5	23.8	20	20.1	20.2	15.6	28.9	32.2	29.4	32.2
23	32.8	***	28.3	20.7	22.1	18.7	20.3	17.3	24.2	33.2	19.2	34
24	34.1	***	30.1	16.2	23.3	18.9	23.5	17.6	21	32.7	26.4	34
25	32	***	28	20.3	21.2	20.2	23.3	20.5	26.2	27.6	27.2	34.9
26	32	***	22.5	22.1	22.3	14.4	10	24.6	31.5	30.2	31	34.2
27	34.3	29.7	23.3	16.6	23.4	14.5	13.9	24.9	23.1	29.1	23.8	22.1
28	33.9	30.6	25.4	21.4	23.4	17.3	16.5	16.6	18.8	31	25.6	27.8
29	24	***	26.7	24.3	22.3	21.2	19.3	9.5	23.7	31.3	27.5	30.9
30	27.6	***	27.1	22.6	20.9	22.4	20.3	14.5	18.6	32.4	29.8	29.7
31	31	***	28.5	***	23.3	***	20.5	22	***	29.5	***	28.7
Avg	32.2	28.9=	26.9	23.9	21.7	17.2	17.2	20.1	25.8	27.5	25.1	30.1

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2015 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30.3	22.9	27.7	30.6	22.5	24.3	16.1	15.2	17.9	18	30.8	38.8

2	32.4	25.5	27.6	27	23.7	24.8	19.9	19.4	17.8	24.2	16.6	32.6
3	33.1	28.6	29	21.4	25	18.1	20.8	19.5	16.6	29.2	20	34.9
4	32	33.5	30.3	20	25	11.2	20.7	19.7	21.3	33.8	27.1	36.2
5	33	30	30.1	19.1	26.4	12.1	20.4	18.2	20.8	31.3	30.3	35.3
6	33.9	32.1	31.1	23.6	22.7	14.3	21.5	20.8	***	31.9	29.2	37.5
7	35.4	31.7	28.3	22.6	24.2	15	19.4	23.4	23.4	34.1	28.1	36.8
8	32.1	35.7	30.2	24.4	25.1	17.5	19.6	23.3	20.5	33.8	31.5	30.2
9	32.8	36.9	30.4	25.5	25.7	19.6	19.8	22.7	24.3	31.4	33.8	34.1
10	31.7	37.5	31.4	25.9	19.1	19.7	21.6	16.3	25.8	30.7	33.2	36.3
11	33.9	38.1	31.3	27.4	22.2	11.1	19.2	16.4	19.6	28.6	34	39.1
12	35.1	36.1	22.4	28.2	22.9	18.5	18.6	16.4	21.5	33.5	31.2	34.1
13	27.7	25.5	30.1	27.6	22.2	18.3	12.8	19.1	23.6	33.9	30.7	28.9
14	28.7	26.8	32.7	26.8	24.3	19.2	7.6	22.5	26.3	30.7	27.7	25.1
15	30.7	23	30.4	18.8	24	19.7	18.7	26.3	25.4	24.5	25.2	31.1
16	30	25.9	29.6	15.8	23.4	17.9	18.6	26.3	27.5	24.9	29.6	32.2
17	24	30.3	27.4	17.2	23.8	10.6	10.2	26.4	20.7	28.7	30.9	34
18	29.5	31.4	30.3	21.1	26.3	15.1	15.5	26.6	18	31.1	30	37.9
19	30.1	34.7	27.6	21.4	25.4	19	20	20.5	22.2	33	32.5	38.2
20	32.6	34.2	29.6	22.8	25.7	18.3	22.8	24.2	23	29.3	30.7	37.3
21	33.8	24.8	28	25.1	25.8	19	16.5	22.2	26.8	30.9	23	36.2
22	34.5	28.9	27.6	20.7	25.2	18.5	14	24.2	26.7	31	23.8	32.9
23	35	29.8	21.7	23.5	23.1	19.8	10.7	26.1	29.8	32	30.2	36.5
24	36.7	28.3	21.9	25.4	23.6	19.4	12.8	27.5	33	30	33	39
25	31.6	28	26.5	27.2	23.5	14.6	10.2	27.7	34.4	33	34.8	32.9
26	30.7	32.3	25	26.4	23.3	20.7	14.3	24.8	33.5	31.5	30.3	33.6
27	27.4	28.6	24.9	23.2	24.3	10	15.7	19.8	31.9	32	23.5	37
28	27.7	28.1	25	25.2	24.8	11.4	17.4	27.8	28.7	35.5	29.6	36.4
29	30.9	***	27	26.5	25	14.5	17.3	29.7	31.9	35.4	33.1	34.4
30	31.5	***	27.7	21.2	25.1	14.8	13	23.8	26.4	34.9	36.1	32.2
31	29	***	29.1	***	24.3	***	10.1	22.7	***	34.9	***	34.3

Avg	31.5	30.3	28.1	23.7	24.1	16.9	16.6	22.6	24.8=	30.9	29.3	34.7

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	36.9	34.8	33.3	28.8	17.2	22	19.3	15.6	26.9	22.8	32.2	30.2
2	35.1	34.8	33.9	25.2	20.9	22.7	12.1	17.1	27.4	15.7	33.6	31.8
3	37.7	32.4	34	28.4	22.4	22.1	15.8	12.2	25	***	34.8	35.7
4	39.6	25.5	34.6	28.4	23.6	19.5	18.4	13.3	24.4	***	32.2	36.6
5	41.9	30.1	33.1	23.5	24.3	19.2	19.3	17.9	28.3	***	28.3	33.5
6	41.6	32.8	33.4	18.7	24.5	21	14.8	21.4	20.4	***	25.3	35.8
7	32.5	31.9	31.8	21.3	13.9	21	14.7	22.4	25	***	29.6	35.6
8	33.2	30.4	26.9	21.8	12.5	19.9	16.7	16	26.2	***	31.4	32.7
9	34.1	32.2	29	25.2	16.8	21.5	19.8	22.4	22.5	***	29.5	33.6
10	36.1	34.5	30.5	25.5	15.6	18	20.9	22.1	23.5	***	30	30.9
11	32.5	36.2	28.1	26.3	20.6	12.8	20	22.7	20.4	***	26.5	32.9
12	30.3	37	28.2	27.4	23.7	14.4	21	23.1	***	***	27.9	32
13	30.6	35.7	30.8	28.5	21.4	10.6	20	22.8	20.4	***	24.4	31.6
14	32.8	34.9	30	28.8	18.6	12.5	20.3	17.9	25.4	***	26.5	30.4
15	28.4	31.5	29.8	30.1	22.2	15.9	18.7	21.2	26.3	***	29.2	33.8
16	31.4	30.9	20.6	29.2	22	14.7	19.7	22.5	20.4	***	30.8	34.3
17	28	31.2	27.9	27.9	22.2	17.8	19.2	15.2	19	21.9	30.8	34.6
18	30	26.3	29.5	28.3	21.7	18.8	20.7	19.8	19.5	21.6	24.2	36.3
19	29.8	31.9	27.6	27.9	23.2	21.2	21.7	19.8	21.8	26.2	27.9	38.4
20	30.6	28	26	26.1	21.6	16.5	22.4	21.4	25.6	23.1	28.7	36.6
21	28.8	27.4	24	22.1	21.7	15.2	20.1	19.2	28.6	30.2	29.9	36.8
22	22.6	29.6	27.2	22.3	22.7	17.6	16.2	13.1	24	30.8	31.8	35.5
23	26.6	32.4	28.6	21.4	21	19.7	13.8	16.7	21.6	30.6	30.8	36.9

24	***	33.7	29.6	24.8	19.6	20	16.2	21.9	23.4	29.8	31	31
25	29.1	26.3	24.4	28	22	19.9	5.7	24.5	26.3	30.6	29.9	34.4
26	30.1	30.1	19.8	26.6	20.4	19.2	12.3	27.3	28.9	32.7	30.6	29.9
27	32.1	28.6	22	25.6	20	18.5	11.2	27	23.2	35.6	32.6	30.3
28	33.1	31.4	24.1	***	20.7	17.5	12.1	27.5	18.9	37	36.5	32.6
29	33.7	33.7	28.5	***	20.6	19.2	15.3	28.2	22.5	34.3	34	32.6
30	33.6	***	30.5	12.8	21.1	19.3	18	28.9	23.2	30.9	35.6	33.7
31	34.9	***	30.1	***	20.8	***	18.7	27.8	***	33	***	36.4
Avg	32.6=	31.6	28.6	25.4=	20.6	18.3	17.3	20.9	23.8=	28.6=	30.2	33.8

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	37.2	33.4	30.7	32.2	25.4	21.4	20.4	19.6	18.7	26.1	32.3	35.7
2	37.2	26.6	27.7	31.8	25.1	22.7	21.3	22.6	22.7	27.3	33.9	31.7
3	19.7	27.4	28.9	32.9	25.2	21.9	19.4	23.7	26	30	33.2	34.7
4	24.2	20.6	28.9	33.4	20	22.2	19.2	22.1	26	19	34.9	32.3
5	19.7	***	29.8	33.9	25.1	21.6	21.4	19.6	25.2	19.4	34.3	25.6
6	28.1	24.7	32	27.5	24.9	21.7	21.7	18.6	24.5	22.9	30.1	27.8
7	28.3	29.7	32	21.5	25.7	21.1	21.5	18.6	27.6	21.4	24.4	29.9
8	31.3	31.3	32.9	24.9	23.6	9.4	19.9	21.4	28.6	25.9	24.4	28.8
9	32.6	30.7	25.5	25.7	22.2	15.8	20.3	23.7	29.5	17.8	27.8	29.3
10	23.1	28.1	27.8	27.7	23.3	19.6	18.2	24.1	31	14.9	26.5	26
11	23.3	28.3	28.6	20.6	23.7	18.3	18.8	24.2	30.8	20.8	29.9	28.6
12	30.2	28.8	32.2	21.3	***	19.3	22.5	24.6	32.8	24.6	33.9	28.6
13	28.3	25.8	32.2	21	15.4	20.7	18.3	21.5	31.8	24.8	29	29.2
14	30.5	30.1	30.5	20.5	18.9	21.9	15.9	22.6	31.3	29.4	30.3	25.4

15	31.6	27.4	27.7	16.1	22.5	19	18	23.8	32	25.8	19	30.6
16	24.4	30.4	29.1	21.6	22	18.5	11	17.7	25.2	21.6	10.9	34.6
17	28	32.4	35.7	21.6	22.2	20.4	13.1	10.7	23.6	16.5	19.3	31.6
18	31.3	28.2	33.9	23	22.4	20.3	18.4	13.2	26.1	25	25.1	25.7
19	33.1	20.7	31	24.3	23.6	18.1	18.7	18.1	28	25.5	30.5	28.1
20	32.2	19.4	31.9	24.5	24.1	18.9	18.8	18.9	29	24.1	34.1	30.6
21	33.2	24.5	31.9	25.4	23.7	19.3	19.8	22.7	30.4	26.7	33.2	30.5
22	34.9	26.9	30.7	25.9	23.3	18.9	20.2	14.1	29.1	***	27.1	27.4
23	32.7	25.8	31.8	27	23.3	13.6	19.3	15.8	21.6	28.1	28.4	31.1
24	25.3	24.2	24	23.2	23.3	16.6	19.6	17.6	27.2	30.7	27.9	31.5
25	28.3	29.1	23.2	24.9	22.2	18.5	21.9	16.9	24.4	30	28.1	27.1
26	29.5	27.3	25.4	25	21.8	19.2	19.2	20.3	17.3	25.8	27.9	27.6
27	31.3	28.5	28.6	23.6	16.7	16	20.1	22.1	22.8	17.3	28.4	31.7
28	25.9	36.3	29.6	26.4	16.2	15.4	21.8	24.7	26.6	24.9	29.9	32.5
29	29.8	***	29.6	26.8	19.1	16.7	20.9	23.9	28.8	25.7	33.9	32
30	33.1	***	32.7	24.9	19.3	20.2	21.9	20.7	28.8	29.3	34.5	31.6
31	32.9	***	32.4	***	20.2	***	20.4	22.7	***	31.2	***	32.2
Avg	29.4	27.7=	30	25.3	22.1=	18.9	19.4	20.3	26.9	24.4=	28.8	30

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.4	28.4	29.9	27.2	***	16.5	20.7	18.5	26.9	29.2	21.5	30.2
2	27.8	33.9	28.4	25.7	***	19	15.6	16.6	21.3	27.9	23.1	31.3
3	31.2	31	28.7	27	***	17.8	11.6	18.9	17.4	14.7	27.3	32.4
4	33.3	32	30.5	20.4	21.1	16.2	15.4	21.4	22.3	21.9	28.7	31.4
5	35.6	34.4	32.1	22.4	22.1	18.7	19.1	14.6	28.7	25.5	28.1	33.2

6	35.2	35.2	31.9	24.9	26.1	19.1	17.2	16.5	18	29	18.3	33.6
7	36.6	19.8	27.1	24.4	23.3	19.2	16.7	12.8	12.5	30.1	20.3	29.9
8	32.2	30.2	***	27.8	23.9	19.8	18	14.2	12.1	31.7	25.3	***
9	29.1	32.6	22.8	16.2	21.5	19.1	18.1	9.6	13.4	32.3	29	25.6
10	31.8	33.4	***	23.2	23.7	19.2	16	11.6	19.1	33.1	31.2	26
11	31.8	28.2	27	22.8	22.9	19.4	19	14.3	22.5	33.6	34.3	30.6
12	35.7	25.5	28.6	19.1	14.5	19.5	20	20.6	23.7	24.2	36.5	35.2
13	38.8	28.3	28.4	18.6	19.1	17.5	17.6	23	21.6	22.1	37.1	32.9
14	37.1	26.5	29.9	22.3	17.7	17.9	12.7	23.8	20.5	23.2	36.1	36.5
15	35.8	26	28.5	25.1	20.4	14.6	14.4	22.8	23.7	24.8	36.2	35.9
16	35	28.7	21.3	22.8	21.7	13.4	16.3	23.8	27.3	23.5	37.3	36.5
17	35.4	30.5	24.6	19.1	22.6	17.9	17.9	17.6	26.5	20.1	35.7	36.2
18	35	30.4	24.6	22.2	22.8	20.7	16.7	18.3	25.2	24.8	30.9	30.4
19	32.1	29	27.9	21.3	20.4	18.1	17.1	20	21.1	29.8	35.7	34.3
20	30	31.3	27.1	21.9	14.8	17.9	17.2	24.4	20.4	19.3	33	32.3
21	34.2	30.4	24.3	22.3	17.9	21.6	18.1	19.5	22.3	23.6	19.6	34.1
22	24.3	29.9	23.4	23.7	19.3	18.3	19.4	17.8	24.7	25.7	27.1	36.5
23	28.5	***	21	25.4	21	20.6	20.3	19.3	27.4	27.3	30.9	36.7
24	30.2	27.4	25.9	26	22.1	19.3	20	21.6	26.2	30.3	34.6	37.6
25	31.5	19.2	25.1	27	20.2	19.6	20.4	21.9	26.6	31.7	35.8	37.3
26	32.6	25.6	25.6	23.2	20.4	19.6	19.7	14.9	26.7	33.2	31.9	36.9
27	28.7	29.1	27.2	***	20.3	17.9	21.5	12	28.3	33.2	31.5	34.9
28	27.4	31.3	28.2	***	21.8	17.2	21	16.8	25.9	34.2	21.9	32.8
29	29.8	***	27	***	16.6	17.8	19.8	22.7	24.7	35.1	29.2	33.7
30	31.2	***	21.2	***	16.9	18.2	18.6	24.7	28.1	27.9	32.5	31.9
31	29.6	***	26.9	***	13.4	***	23.3	24.2	***	22.4	***	33
Avg	32.2	29.2=	26.7=	23.2=	20.3=	18.4	18	18.7	22.8	27.3	30	33.3=

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2019 08:00 (Extracted 2023/06/29

09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.2	30.3	31.9	26	24.2	20.5	15.1	20.7	20.5	20.1	30.7	36.8
2	26.5	29.3	33.1	24.8	25.6	19.3	13.2	21.4	23.8	22.4	30.9	36.9
3	30.2	28.1	31.6	26.5	26.1	20.5	16.9	20.4	26	27	32.4	20.8
4	33.2	26.3	33.6	25.4	24.6	21.6	19.1	21.8	25.7	27.9	33.6	22.6
5	32.4	31.2	33.9	17.2	25.9	18.7	15.7	21.2	20.2	30.9	34.9	24.2
6	30.6	33.4	32.8	21.7	25.4	16	17	22	22.8	32.4	33	28.2
7	29.9	34.3	33.8	24.3	24.8	17.7	16.5	25.5	23.6	27.7	29.5	31.2
8	31.3	33.1	27.7	22.9	17.6	20.6	17.3	18	25.8	26.3	26.6	29.4
9	33.5	29.2	28.7	25.1	17.7	20	19.4	19.6	27.5	30.3	30.6	26.2
10	29.9	27.5	29.4	23.9	20.3	20.5	22	21.8	28.8	23.3	32.9	20.6
11	33.5	26.5	23.3	21.2	22.8	20.9	22.5	20.2	28.8	28.1	31.8	26.9
12	33.6	28	25.5	26.5	24	20.7	21.6	18.5	28.9	31.7	31.1	27.4
13	35	31	28.8	26.4	24.9	14	22.5	20.6	19.7	26	30.6	27.5
14	37	30.6	27.1	24.5	24.4	17.5	22.1	23.3	20.1	33.4	24.3	31.9
15	35.7	21.3	29	21.3	24.3	19.4	22.5	24.1	26.2	31.1	28	22.7
16	35.6	28.7	29.4	21.1	24.1	18.8	21.8	27.1	29.8	33.4	31.8	27.8
17	36.7	27.5	28.9	22.2	24.5	19.1	21.5	25.8	32.7	34.7	31	33.8
18	37.6	29.5	28.8	26.2	24.9	20.8	21.4	26	33.1	34	30.5	31.8
19	30.2	30.4	29.8	27.1	24.5	19.3	18.2	22.6	33.1	33.5	30.7	30.7
20	31.2	32.6	29.8	22	24.4	20.1	10.7	22.1	32.3	33.7	30.2	32.7
21	33.9	30.6	28.4	16.5	18.9	19.8	14.7	22.8	32	27	31.1	35.6
22	37.3	32.2	27.7	13	21.5	17.7	18.6	24.9	24.5	26.8	33.8	31
23	37.8	30.8	22.9	18.7	23.5	15.1	21.9	25.4	18.6	26.3	33.6	30.9
24	33.5	30.7	26.7	19.1	23.2	16.7	12.4	26	21.7	29.1	32.7	32.2
25	33.3	31.6	26.9	21.2	24.1	16.8	19.1	25.9	23.6	26.3	32.2	33.3
26	30.2	31.1	24.6	22.3	22.8	18.3	21.9	25.8	25.3	30	34.6	33.4
27	32.2	27.9	26.5	23.6	18.8	19	22.1	24.9	29.6	31.6	37.3	29.7

28	33.9	30.3	***	24	15.9	20.8	21.9	20.6	29	21.5	38.1	31
29	31.7	***	***	25.1	19	22.5	22.9	22.2	27.9	21	34.6	23.6
30	33.3	***	***	22.3	20.2	22.8	23.1	23	15.5	24	36.4	28.1
31	33.2	***	***	***	21.5	***	17.1	15.6	***	26.4	***	31.8
Avg	33.1	29.8	28.9=	22.7	22.7	19.2	19.1	22.6	25.9	28.3	32	29.4

Daily Maximum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32.5	35	27.3	22.6	23.3	23.9	---	---	---	---	---	---
2	33.3	29.6	27.8	26.1	22.9	23.6	---	---	---	---	---	---
3	34.3	33.8	28.9	20.1	24.7	23.3	---	---	---	---	---	---
4	34.7	33.7	30.8	22.9	23.8	22.7	---	---	---	---	---	---
5	33.6	33	33.5	27	22.2	22.3	---	---	---	---	---	---
6	35	27.3	34.5	25.7	23.6	21.9	---	---	---	---	---	---
7	25.4	26.6	32.3	19.1	23.2	21	---	---	---	---	---	---
8	19.5	26.6	32	21.8	24.7	20.8	---	---	---	---	---	---
9	29.2	28.1	28.7	24.3	24.6	19.8	---	---	---	---	---	---
10	29.4	27.4	18.4	23.7	23.7	21.1	---	---	---	---	---	---
11	27.7	29	27.8	24.4	23.4	9.9	---	---	---	---	---	---
12	30.1	29.5	26.4	24.1	23.5	11.3	---	---	---	---	---	---
13	29.4	30.2	27.7	24.8	20.2	13.7	---	---	---	---	---	---
14	30.9	32.1	28.1	15.3	20.6	14.6	---	---	---	---	---	---
15	32.8	32.1	29.9	20.1	20.7	15.8	---	---	---	---	---	---
16	34.5	29.4	25.4	20.5	20.6	16.8	---	---	---	---	---	---
17	34.4	28	23	22.8	23	15.2	---	---	---	---	---	---
18	28.8	18.5	26.8	25.4	23.5	16.7	---	---	---	---	---	---

19	28.5	29.6	28	27.1	24.4	17.5	---	---	---	---	---	---
20	29.3	30	29.2	28.4	24.1	17.6	---	---	---	---	---	---
21	30.3	31.7	28.1	25.3	22.7	19.6	---	---	---	---	---	---
22	30.7	30.2	27.8	26.2	22.7	18.7	---	---	---	---	---	---
23	28	22.1	27.3	26.7	22.4	20	---	---	---	---	---	---
24	27.4	28.5	29.3	17.4	21.1	20.9	---	---	---	---	---	---
25	28.3	29.9	29.6	22.2	21	20.2	---	---	---	---	---	---
26	30.7	31	24.1	19.6	11.5	18.7	---	---	---	---	---	---
27	26.1	24.2	24.3	14.4	10.6	14.4	---	---	---	---	---	---
28	29.9	23	25.5	15	15.3	13.7	---	---	---	---	---	---
29	33.6	27.6	27.7	20.4	***	15.9	---	---	---	---	---	---
30	34.7	***	28	22.7	20.7	20.9	---	---	---	---	---	---
31	34.5	***	25.6	***	23.2	***	---	---	---	---	---	---
Avg	30.6	28.9	27.9	22.5	21.7=	18.4						

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	20.6	25.1
2	---	---	---	---	---	---	---	---	---	---	25.6	26.4
3	---	---	---	---	---	---	---	---	---	---	27.6	22.5
4	---	---	---	---	---	---	---	---	---	---	24.7	23.9
5	---	---	---	---	---	---	---	---	---	---	20.8	25.2
6	---	---	---	---	---	---	---	---	---	---	18.3	22.2
7	---	---	---	---	---	---	---	---	---	---	22.6	23.2
8	---	---	---	---	---	---	---	---	---	---	22.8	22.6
9	---	---	---	---	---	---	---	---	---	---	25.3	23.3

10	---	---	---	---	---	---	---	---	---	---	20.6	26
11	---	---	---	---	---	---	---	---	---	---	26	27
12	---	---	---	---	---	---	---	---	---	---	23.9	27.3
13	---	---	---	---	---	---	---	---	---	---	28.7	27.2
14	---	---	---	---	---	---	---	---	---	---	30.3	27.9
15	---	---	---	---	---	---	---	---	---	---	29	28.5
16	---	---	---	---	---	---	---	---	---	---	26.3	26.1
17	---	---	---	---	---	---	---	---	---	---	23.8	22.1
18	---	---	---	---	---	---	---	---	---	---	29.1	20.2
19	---	---	---	---	---	---	---	---	---	---	29.7	24.9
20	---	---	---	---	---	---	---	---	---	---	28.4	25.6
21	---	---	---	---	---	---	---	---	---	---	25.7	27.4
22	---	---	---	---	---	---	---	---	---	---	23.2	30
23	---	---	---	---	---	---	---	---	---	---	22.1	29.8
24	---	---	---	---	---	---	---	---	---	---	21.6	22.9
25	---	---	---	---	---	---	---	---	---	---	25	18
26	---	---	---	---	---	---	---	---	---	---	26.7	19.9
27	---	---	---	---	---	---	---	---	---	---	19	23.9
28	---	---	---	---	---	---	---	---	---	---	23.8	25.8
29	---	---	---	---	---	---	---	---	---	---	26.4	27.6
30	---	---	---	---	---	---	---	---	---	---	18.5	29.6
31	---	---	---	---	---	---	---	---	---	---	***	29.7
Avg											24.5	25.2

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	26	25.6	26.4	22.6	20.6	15	16.8	19.3	25.2	27.1	26.7	27.7
2	25.3	26.3	24.9	24.7	20.5	17.3	16.7	19.2	20.6	28.4	28.5	24.7
3	28.1	27.5	25.3	24.3	14.4	15.6	16.9	20.6	20.3	27.1	24.3	23.3
4	21.7	25.8	25.3	19.6	16.9	14.3	16.6	19.8	23.8	24.4	22.6	22.2
5	29.1	26.9	26.5	20.3	16.5	15.8	11.5	18.8	25.2	23.7	22.9	23
6	30.4	29.1	27.1	21.2	17.1	19.8	16.1	20.1	26.4	24.4	23.4	21
7	31.2	29.7	27.2	21.5	18.1	20.7	17.9	20	21.3	27.1	25.9	22.1
8	29.8	29.5	26.7	22.1	22	17.1	16.6	20.5	23.9	24.3	28.8	25.4
9	30.5	31.5	27.7	22.9	20.6	11.5	13.3	10.8	14.2	25.3	16.6	27
10	23.9	29	28.9	18.6	15.2	10.7	16	7.9	17.8	26.8	16.8	27.7
11	21.4	28.9	28.5	22.7	12.5	10.5	11.8	14.9	21.3	19.7	21.7	20.3
12	27.9	28.4	29.3	25.2	16.1	13.6	3.7	15.9	25.4	20.4	20.8	21.9
13	29.2	27.8	28.4	27.8	20.3	12.4	10.5	17	27	16.5	25.1	22.6
14	29.7	29.2	21.4	25.9	18	11.8	11.7	19.3	27.4	14.6	26.4	21.7
15	27.5	28.9	24.7	24.6	16	3.6	9.2	19.9	26.1	12.7	26.3	21.4
16	27.9	23.5	26.9	20.9	18.8	2.6	8.9	21.6	18.9	15.3	22	23
17	29.8	23.5	22.3	21.3	19.6	10.6	16.1	21.7	22.8	20.7	20.1	23.2
18	32.1	25.5	23.2	20.1	20.2	11.7	19.1	21.8	23.7	24.6	22.7	27.7
19	19.7	27.8	26.1	17.6	20.1	11.5	20	13.3	22.4	23.8	24.1	23.1
20	23.2	28.4	26.7	15.4	19.2	14.6	19.6	16.6	22	26.7	27.2	24.3
21	26.9	29.3	26.4	16	19.7	15.7	18.5	21.8	18.5	26.2	27.5	21.5
22	23	29.6	25.7	16	20.3	15.7	16.8	20.3	17.3	24.4	27.2	25.3
23	28.3	24.7	23.8	11.9	19.4	14	17.6	12.1	24	15.7	26.1	25.8
24	28.5	18.2	23.1	16.8	18.7	16.3	18.1	16	27.2	20.1	18.1	24.2
25	24.8	23.6	24.6	17.3	19.2	21.5	18.7	17.8	26.9	12.8	24.3	21.8
26	22.6	24.6	23.1	19.5	19.4	20.7	19.4	18.2	21.3	19.1	24.1	24.3
27	27.7	25.5	21.6	17.7	19.1	19.5	20.3	19.3	17.1	23.1	24.4	26.1
28	27.7	26.6	20.1	16.4	13.2	16.1	21.1	23.7	20.3	14	26.7	27.1
29	24.6	***	24.4	19.1	13.1	15	14.9	25.9	22.6	21	20.5	23.7
30	26.4	***	24.4	19.9	15.6	16.4	17	25.8	25.9	25.4	24.9	24.3

31	26.2	***	23.8	***	15.4	***	18.1	23.9	***	25.8	***	24.4
Avg	26.8	27	25.3	20.3	17.9	14.4	15.8	18.8	22.6	22	23.9	23.9

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.1	24.9	24.1	24.3	18.1	10.3	9.2	16.2	24.2	22.9	16.5	28
2	22.2	24.4	25.5	21.8	19.1	13.4	10	15.8	15.1	15.7	20.2	24.2
3	19.6	23.5	24.7	20.6	17.9	13.9	9.6	15.7	18	12	25.6	20.4
4	19.1	21.1	23.3	17.6	19.2	15.3	12.7	17.1	19.3	15.5	23.9	26.6
5	23	22.3	15.5	20.7	21	15.2	6.3	13.7	19.9	11.9	19.9	26.5
6	25.3	18.9	23.5	13.5	13	14	8.9	7.3	22.2	18.5	19.7	26.4
7	24.9	25.1	24.7	17.1	15.6	9.1	11.6	15	24	21.4	25.2	29.2
8	25.6	27.4	24.2	18.6	16.6	11.9	13.3	15.7	25.6	23.9	30.8	22.2
9	26.7	27.3	24.9	21.2	17.1	7.5	15	14.9	24.6	24.6	32.5	20.3
10	26.3	24.1	25	21.7	12.8	12.3	16.5	14.6	23.9	26.3	27.1	21.2
11	24.1	24.8	23.7	19.8	16.4	16.1	13.5	18.2	25.7	26.4	28.3	22.6
12	24.6	26.4	25.9	18.4	13.8	15.2	14.5	20.9	23.7	26.4	26.5	23.8
13	24	25.1	19.9	14.8	13	15.3	14.7	17.7	21.2	27.2	24.4	27.5
14	23.2	27.7	23.8	18.9	16.1	15.5	14.3	8.6	20.8	24.8	17.5	21.7
15	26.3	26.4	24.8	19.1	17.2	15.8	15.2	14.3	19.3	21.4	23.8	22
16	26.9	26.6	24.2	11.8	15.2	11.7	16	17.8	16.6	20.3	27.2	24.4
17	26.7	23.7	18.3	15.6	14.1	10	13.5	16.6	21.9	22.2	28.9	26.5
18	26.5	19.1	19.8	15.5	13.7	15.8	12.8	16.3	24.6	23.7	28.5	30
19	27.4	22.5	22.1	17.7	13.6	16.3	14.2	16	13.8	20.7	29	28.2
20	26.1	23.8	21.6	18	15.5	13.6	13.3	18.8	15.9	17.2	28.2	27
21	25.3	23.5	23.5	16.6	17.2	14.9	15.4	21.5	15.5	22.1	25.2	27.7

22	20.3	22.4	24.4	17.5	18.2	15.4	17.3	23.1	17.4	26.4	23.7	23.6
23	16.1	24.2	25.4	16.8	17.5	15.3	18.4	22.1	18.5	27.1	23.9	20
24	17.2	23.6	24.5	19	16.2	3.5	17.6	9.5	19.6	27.3	14.3	25.4
25	21.7	24.5	20.2	18.5	9.7	4.3	6.5	20.1	21.4	22.5	20.7	26.4
26	24.8	23.5	22.1	16.4	7.1	8	5.2	22.4	23.7	23	24.4	16.1
27	22.9	24.2	24.3	7.6	11.2	10.7	11.6	17.3	24.7	23.3	26.5	25.4
28	25.3	25.1	22.6	11.1	11.1	14.8	13	17.7	26	25.2	22.5	21.3
29	27.5	***	24.4	14.1	13.1	16.5	3.9	22.2	20.4	23.7	27.7	22.8
30	25	***	25.5	16	11.1	9.9	12.7	23.2	21.4	24.1	27.2	25.7
31	25	***	26.4	***	6.7	***	14	23	***	18.2	***	25
Avg	23.8	24.1	23.3	17.3	14.8	12.7	12.6	17.2	21	22.1	24.7	24.5

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2013 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23.6	25.6	21.9	20.5	21.6	20.3	11.7	16.7	11.1	22.3	17.5	26.3
2	27.2	27.5	24.4	20.3	21.2	16.4	***	18	18.5	25.3	14.9	24.5
3	26.5	27.9	27.1	13	19.6	8.1	***	18.7	19.8	27.9	22.7	22
4	23.9	17.5	29.3	19.5	11.9	11	12.2	16.7	17.2	28.7	26.3	24.8
5	26.7	24.7	31.4	19.8	14.7	11.7	9.3	16.6	18.5	29	29.6	23.5
6	26	26.4	29.6	22.8	18.9	16.3	16	16	19.9	17.8	28.4	21.5
7	28.6	25.5	27.5	23.2	18.1	19.5	18	14.4	22.7	21.8	24.8	25.4
8	29.5	28	27.2	24.5	18.1	17.1	18.9	11.3	25.9	23.4	23.9	24.3
9	30.1	29.2	22.4	20.3	14.9	6.6	17.7	9.9	19.9	26.1	24.4	17.8
10	28.6	21.6	25.3	10.4	2.7	12.6	19	12.5	19.2	27.1	24.5	18.7
11	25.9	24.6	26.1	17.3	***	15.5	17.2	16.8	13.4	29.3	25.3	16.9

12	25.9	26.3	27.5	20.3	***	13.4	15.8	10.3	11.5	24.9	30.6	19.2
13	29.6	27.3	26.1	21.1	***	16.3	15.1	15.2	17.9	13.5	32.5	23.8
14	31.7	29.6	26.4	23.2	10	14.7	17	10	19.8	18.7	31	26.1
15	29.7	23.8	27.4	25	21.8	11	15	13.2	22.3	33.9	18.2	27.3
16	30.8	25.7	24.6	26.4	18.8	14.8	17	12.9	20.7	32.3	17.9	21.8
17	26.6	26.4	22.8	24.3	12.5	17.8	***	16.2	22.8	21.7	19	24.1
18	24.6	25.8	26.7	15	17.2	14.8	15.7	9.4	25.4	15.8	22.4	25.3
19	24.6	26.3	24.3	10.3	17.6	15.3	11.4	15.2	27.2	18.9	27	26.4
20	25.6	23	26.6	12.2	18.1	16.3	10.6	16.5	18.9	17	23.2	28.8
21	25.8	23.7	30.5	7.3	19	16.8	14.7	19	10.8	14	20.3	30
22	27.5	25.4	32.1	15.9	19.2	17.1	15.2	14.9	19.1	15.7	23.4	31.6
23	31.8	26.3	31.1	18	19.3	16.7	15.1	15.8	21.2	19.7	27	20.5
24	31.9	26.8	29.2	21.7	19	16.1	15.9	17.9	25.1	21.8	27.4	27.1
25	29.5	29.1	24.9	20.4	20.2	17.8	25.7	20.6	23.4	22.4	29.1	28.2
26	29.7	30.4	23.8	21.9	20.5	15.5	17.7	22.3	24.4	15.6	29.9	29.7
27	30.4	31.2	14.2	23.4	14.5	11.2	18.5	22.8	21.5	21.7	19.4	27.1
28	29.3	25.7	23.2	21.8	13.5	14	10.8	23.7	15.4	20.7	21.6	26.8
29	30	***	21.1	21	14.5	***	12.1	23.2	14.6	22.4	25.9	23.6
30	21	***	20.1	21.3	15.1	***	15.1	11.8	19.2	26.6	22.2	27.3
31	20.7	***	23.3	***	16.6	***	16	7	***	22	***	27.3
Avg	27.5	26.1	25.7	19.4	16.8=	14.8=	15.5=	15.7	19.6	22.5	24.3	24.8

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.2	27.4	23.3	20.1	20	17.8	17.3	17.7	19	12.7	16.1	25.5
2	30.5	25.2	23.9	19.7	22.8	14.3	16.8	19.2	20.3	16.1	19.2	27.2

3	32.7	27.6	23.5	13.8	24.7	15.6	16.5	19	19.9	15.3	18.9	23.2
4	33	23.5	21.8	17.3	22	18.2	17.6	16.6	21.2	18.6	18.3	25.6
5	30.4	25	22.3	18.5	18.3	6.3	11	15.8	21	24.8	20.2	23.4
6	27.6	23.1	23.2	22.8	20.5	7.8	6.4	15.7	22.6	25.2	23.3	25.8
7	25.3	27.2	26.3	24.6	19.8	13.4	7.8	14.3	24.1	26.4	25.6	27.1
8	25.8	26.5	24.6	23.8	19.6	15	6.2	18	25	24.6	27.2	25.4
9	24.5	27	23.1	23.1	18.7	13.8	7.3	14.5	25.7	22.4	25.1	23.2
10	24.8	28.7	23.6	23.1	14.5	9	12.3	18.3	24	20.8	20.6	23.5
11	26.7	29.5	20.5	22.8	14.3	12.6	13.5	14	25.5	14	22.2	24.7
12	28.3	30.9	20.4	24.4	14.9	12.8	7.4	17.7	24	23.8	18.7	24.8
13	26.5	29.6	21	23.1	20.2	14.2	11.5	19.1	26	18.2	17.5	25.3
14	27.6	26.5	20.3	19.4	17.8	13.5	12.9	19.9	28.1	25.1	22.3	24.6
15	31.9	26.6	22.8	13.5	18.6	11	14.8	15.9	26.9	21.2	15.7	22.1
16	31.5	27.4	22.9	18.8	15.7	13.8	15.5	17.6	26.3	18.3	14.7	21.2
17	31.3	25.5	22.9	19.1	11.2	14.6	16.3	18	25.2	9.8	16.4	23.1
18	27.9	26.1	23	21.5	16	15.9	11.2	17.9	***	20.8	20.5	26.6
19	26.9	22.2	22.9	22.3	16.5	7.1	11.5	18.6	14.1	24.4	22.3	23.8
20	28.5	25.5	21.8	22.3	12.4	10.6	13.7	12.1	17.8	25.6	22.9	25.4
21	27	18.8	23.2	22.1	14.1	15.7	15.4	13.8	21.2	***	23.8	26.2
22	30	24.3	23.3	18.7	15.7	16.1	15.1	9.9	23.6	***	26.6	25.9
23	27.4	25.5	25.3	17.9	16.7	14.5	16	11.7	21.2	***	14.2	27.6
24	28.7	22.1	26.8	11.4	19.2	15	18.8	11.6	20.6	27.4	21.6	27.9
25	27.5	21.6	25.2	16.7	16.4	14.8	19.3	15.6	22.7	22	23.3	28.7
26	27.6	24.1	18.3	16.5	18.3	11.3	6.6	19.4	27.2	25.4	26.6	28.6
27	28.9	24.4	20.1	11.3	18.8	11.3	10.5	20.7	18.7	24	20.6	18.4
28	28.2	25.4	21	18	18.7	12.9	11	13.4	15.7	23.4	21.1	23.3
29	24.2	***	21.9	20.1	18	16.6	15.5	3	20.1	26.3	23.1	25.9
30	20.2	***	22.8	19.6	16.8	16.9	15.5	8.5	16.7	28.4	25	23.4
31	26.2	***	23.3	***	18.5	***	15.9	16.7	***	21.9	***	23.5
Avg	28	25.6	22.8	19.5	17.7	13.4	13.1	15.6	22.2=	21.7=	21.1	24.9

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2015 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25.2	18.4	24.5	26.9	***	20.1	13.3	12	14.7	14.7	28.7	35.4
2	26.7	19.4	23.6	23.1	***	20.4	15.9	16.2	12.8	21.1	12.6	28.2
3	27.4	22.6	24.6	20.2	***	14.3	16.9	17.3	13	25.6	14.6	29.6
4	26.6	26.9	26.8	18.2	20.3	7.3	16.5	17.8	15.7	30.2	23.6	30.3
5	27.6	25.4	25.9	15.6	21.3	8	17.1	14.1	17.4	28	25.7	31.1
6	27.9	26.1	26.5	***	17.3	11.5	17.6	18.8	18.6	28.7	25.6	32.6
7	28.8	26.8	24.5	***	20	11.5	16.1	20	20.4	30.5	25.6	34.1
8	26.8	30.1	26.4	***	20.5	13.6	15.6	19.9	15.4	30	27.3	26.3
9	27.1	32.9	26.4	22	23.3	15.6	16.3	19.2	21.3	27.6	29.8	30.5
10	27.5	32.2	28.3	21.4	16.1	16.4	17.9	13.3	22.5	27.9	29.5	31.9
11	28	32.4	28.2	24.1	18.3	8.7	15.6	13.8	15.2	25.7	30.5	35.4
12	27.9	32.6	21.5	25.5	18.1	14.9	12.8	13.5	18.8	29.3	27.9	28.4
13	25.1	19.7	26.1	23.3	18	16.3	8.7	17.3	21.4	28.3	27.7	24.5
14	25.3	22.9	28.4	21.7	20.2	15.6	10.7	20.5	23.5	26.3	24	21
15	25.9	19.5	26.5	15.4	21.3	16.1	14.9	22.4	22.7	20.2	22.4	26.6
16	25.3	21.6	25.4	13.1	20.4	15.3	13.6	22.8	23.4	20.6	26.2	28.8
17	19.6	25.7	22	13.6	20.6	3.7	6	23.1	17	24.3	25.7	30.3
18	24.2	27	25.9	17.6	21.3	12.5	12	22.8	13.6	28.1	24.3	34
19	24.6	29.3	24.3	16.5	20.9	16.2	15.8	18.7	19.7	28.6	27.5	34.6
20	26.2	29.7	25.8	17.5	21.8	16.4	18.2	21.5	22.2	25.5	27.5	32
21	28.4	19.3	25.8	21.2	21.5	15.2	15	19.7	23.2	26.4	19.2	32.2
22	29.3	24.9	23.6	20.6	22.3	14.6	14.9	20.5	22.7	26.4	19.2	29.6
23	31.1	26.5	14.9	19.9	19.9	15.9	10.9	23.2	26	27	25.7	32.7
24	32.1	25.8	16.9	20.1	20.4	16.1	10.8	24.6	28.7	25.8	28.4	35.5

25	28.1	24.8	23	22	19.8	13.4	8.3	24.3	31	27.2	30.3	29.9
26	27.9	27.1	20.6	21.3	19.7	17.6	11.4	23.6	30.2	25.5	25.6	29.3
27	22.7	25.9	20.8	18.7	19.7	7.4	12.6	20.9	28	27.1	18.1	32.1
28	21.2	24.6	20.6	20.2	21.1	10.6	14	25.1	26.4	29.1	25.3	33.4
29	25.3	***	23.1	22.1	21.3	11.4	14.2	26.2	28.3	29.7	28.5	30.3
30	27.5	***	24.6	15.5	20.9	13	11	20.8	26	30.3	31.5	28.8
31	23.4	***	25.9	***	20	***	6	18.3	***	31.4	***	29.1
Avg	26.5	25.7	24.2	19.9=	20.2=	13.7	13.6	19.7	21.3	26.7	25.3	30.6

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.5	30.5	28.7	25.3	14.6	17.7	16.4	11	23.7	18.7	26.8	26.7
2	29.2	30.2	28.7	20.5	16.1	21	8.5	15.7	23.6	10.8	28.6	27
3	34	28.7	28.5	23.1	17.9	18.6	13.7	10	22.3	15.4	30.2	32
4	34.7	20.4	29.7	24.4	19.6	16.1	15.8	10.2	21.1	17.9	28.2	31.5
5	37.1	26.4	29.3	19	19.6	15.5	17.8	14.4	24.7	21.6	24.6	29.8
6	37.6	28	30	14.8	20.8	16.7	14.2	17.1	19.1	26	18.2	31.9
7	28.6	27.4	27.8	18.8	12.9	18.2	12.3	18.1	21.3	19.1	***	31.4
8	29.2	26.6	21.6	18.7	9.6	16.8	14.5	11.7	23.1	18.1	***	29.3
9	30.4	28.5	24.8	20.6	15.1	17.3	17.3	19.3	19.3	14.5	23.9	30.3
10	31.7	30.4	25.9	20.3	12.8	16.7	17.7	19	20.6	21.3	24.7	26.8
11	26.9	31.8	23	21.6	17.1	9.9	16.7	18.3	19.5	27.4	21.7	27.9
12	25.6	33.5	26.1	22.7	22	12.3	18.7	18.7	18.5	21.4	22.4	28.6
13	27	29.8	25.9	24.6	18.5	8.2	17.3	19.7	14.9	20.1	20.1	24.1
14	26.5	29.5	24.5	25.7	15.5	11.3	17.1	15.2	20.7	24.2	21.2	28.9
15	22.8	26.6	25.5	25.7	19.7	13.1	14.6	18	22.4	28.3	24.2	29.9

16	27	25.3	17.6	23.4	18.6	11.7	15.1	18.7	19	20.8	23.8	30.7
17	26.9	26.6	23.3	23.3	19.2	14.6	15.4	12.9	15.2	17.2	25.7	31.2
18	25.5	23	24.8	23.4	18.1	15.1	16.1	17.6	15.5	19.1	19.5	33.4
19	25.9	27.2	23.5	23.3	18.9	17.4	17.3	15	18.1	20.7	23.4	33.5
20	26.4	23.7	21.5	22.6	18.4	13.4	18.4	16.8	21.8	19.9	25.5	32.2
21	25.1	23.1	19	16.6	17.6	11.3	17.1	17.2	24.6	25.4	23.6	32.9
22	21	25.7	21.3	18.4	19	14.2	14.3	9	21	26.4	28.4	31.6
23	24.1	26.8	22.8	16.9	17.8	16.1	9.4	13.2	18.1	26.7	27.5	33.2
24	21.7	28.6	24	20.8	15.5	16.1	11.2	17.5	19.2	25	26.8	27.7
25	24.8	22.4	22.7	22.9	17	16.1	5.8	21	22.2	26.3	25.2	29.8
26	25.6	27	18	22.8	15.9	17.3	10.6	22.4	25.4	27.5	26.1	27.1
27	27.4	25.3	19.3	20.5	15.7	15.1	7.4	22.8	19.4	30.9	27.2	26.5
28	28.8	26.2	20	21.3	18.2	14.2	7.6	23.2	14.3	32.5	32	28.9
29	28.6	28.5	23.2	21.4	18.5	16	9.3	23.8	17.9	29	30.1	27.5
30	30.3	***	25.8	12.8	19.5	17.1	13.3	24.9	18	26.4	31.3	30.1
31	31.4	***	25.5	***	18.4	***	***	24.3	***	26.3	***	32.4
Avg	28.1	27.2	24.3	21.2	17.4	15.2	14.0=	17.3	20.1	22.7	25.4=	29.8

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	34.5	29.2	26.7	27.2	23.1	20.4	16.6	17.3	12.9	24.2	28.8	30.9
2	32.2	26.2	25.2	27.8	20.9	18.8	18.1	19.5	20.2	24.2	29.3	28.2
3	17.4	24.3	26.4	29.3	21.9	19	16.2	19.2	22.4	26.8	30.8	30.7
4	24.3	17.8	24.8	29.1	16.5	18.5	15.7	19.3	22.5	19.4	31.3	29.7
5	19.5	23.2	25.2	29.2	22	17.9	18.4	16.3	22.2	15.1	29.9	22.7
6	22.1	23.4	27.1	24.4	20.7	18.4	21.4	14.7	22.3	20.5	25.2	24.8

7	25.6	25.5	27.6	20.1	22	18.8	19.4	15.8	24.5	17.6	19.8	27.2
8	27.8	27.5	28	21.9	20.9	6.6	15.7	17.3	25.7	21.5	20.4	26.1
9	29	27.3	21.3	23.3	21.2	13.4	17.4	19.9	26.1	10.3	23.5	26.5
10	22.1	26.4	24.3	24.6	21.1	16.5	15	20.4	27.4	8.8	21.6	24.5
11	24	26.6	23.1	17.6	21.1	15.3	15.4	21.6	27.3	17.3	25.6	25.4
12	28.2	25.7	27.3	18.7	8.2	16.7	18.9	21.2	28.7	21.1	30.3	25.5
13	26.8	24.3	27.2	16.3	11	17.5	15.9	19.1	27.8	21.1	25.9	26.9
14	27.3	27.4	26.1	16.9	17.1	18.2	15.1	19.4	***	25.7	26.7	22
15	***	20.4	24.1	13.5	19	15.2	15.5	20.4	***	23.3	15.3	27.7
16	***	27.3	25	18.3	19.2	16.5	9.5	16.5	22.5	18.7	7	31.7
17	***	29.7	26.9	18.9	18.2	17.5	11.2	6.5	20.4	12.8	15.5	29
18	28.2	25.4	29.6	18.8	18.4	17.1	15.7	7.8	22.5	22.2	21.5	24.3
19	29.8	17.6	28.1	20.4	20.9	16.7	16.1	14.8	24.5	23.1	26.5	23.5
20	28.4	17.7	28	20.9	21.7	16.5	15.4	15.7	25.8	21.8	29.5	26.9
21	29.3	21.3	27.7	22.5	21.2	16.7	17.1	19.5	26.9	24.1	28.2	27.8
22	30.4	22.7	27.3	23.2	20.4	15.7	17.4	12.4	25	25.4	24.3	23.8
23	30.8	22.2	26.3	23.1	19.9	10.7	15.3	13.1	16.3	23.4	25.3	26.9
24	22.1	20.1	20.1	19.5	19.1	13.2	18.1	14.3	***	27.4	24.5	28.3
25	25	24.4	19.3	***	19	15.4	18.2	14.1	20.3	26.9	24.1	23.7
26	26.6	23.2	21.3	***	18.2	15.7	17.1	16.9	15	23	22.8	24.2
27	27.4	24.6	23.9	19.5	13	13.6	16.9	17.6	18.2	12.7	24.5	27.9
28	22.1	24.6	25.3	23.9	12.8	13.2	19	21.1	23.1	20.8	26.5	28.5
29	25.9	***	26.7	24.7	16.8	14.8	17.6	18.8	24.6	22.6	28.5	28.2
30	29.1	***	27.9	22.4	15.8	17.9	18.8	17.4	25.4	27.1	30.6	25.6
31	29.2	***	27.9	***	16	***	17.7	20.1	***	28.2	***	27.3
Avg	26.6=	24.1	25.7	22.0=	18.6	16.1	16.6	17	23.0=	21.2	24.8	26.7

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26.3	24.3	26.7	23.3	***	13.3	16.7	16.2	22.3	25.4	17.2	26.9
2	24.2	28.5	25.4	23.9	***	14.9	13.1	13.4	18.5	22.6	20.3	27.2
3	25.9	26.3	24.2	24.7	***	14.9	10.6	15.7	12.3	8.3	24.1	28.8
4	29.8	27	25.3	18.4	***	13.1	12.8	17.8	19.8	19	26.1	27.8
5	31.9	29.5	27.5	18.5	***	16.9	16.3	10.8	24.6	22.9	25.4	29
6	31.5	31.1	27.8	21.5	***	16	14.9	13.4	18.6	24.9	14.7	30.2
7	33	16.7	23.4	21.2	***	15.3	13.2	10.3	11	25.9	16.4	27.9
8	30.4	25.6	20.3	24.1	***	16.4	15.2	10.9	9	27.4	21.2	25.4
9	26.3	30.4	20	17.9	18.9	15.5	14.2	8.4	9.6	28.7	24.7	18.3
10	28.3	28.6	22.3	18.7	19.8	15.4	12.2	6.4	15.9	29.6	27.6	21
11	31.1	25	23.7	19.9	19.2	16.5	15.5	11.2	18.1	28.5	30.1	26
12	30.8	21.6	25.4	18.6	14.9	15.6	16.8	15.7	20.3	19.6	32.1	30.6
13	31.4	25.4	24.6	17.2	16.3	13.9	16	18.6	17.4	17.5	33.3	28.4
14	33.1	22.2	24.9	19.2	12.7	14	7.9	18.5	17.1	21.2	31.8	31.1
15	31	22.5	24.2	21.2	17.2	10.9	9.8	21.2	19	20.1	32.8	32
16	31.7	24.6	17.8	19.9	20.1	11	13.2	20.4	22.9	18.7	33.9	31.7
17	31.5	26.5	22.1	16.3	17.8	16.7	15.2	14.6	23.3	17	31.5	31.1
18	32.4	28.9	21.3	19.4	21.4	17.7	13.1	15.5	22.3	20.8	28.5	25.2
19	25.7	25.1	23.1	19.8	17.8	15.8	14.8	17.2	18.1	24.6	31.9	28.7
20	25.1	26.8	24.3	18.6	15.6	15.5	14.4	21.1	17.7	14.5	28.5	26.8
21	28.7	27.1	22.3	19.4	15.6	18.5	16.1	17.6	18.8	20.6	15.8	30.1
22	21.9	26.3	18.6	20.2	16.8	16.4	18.3	13.9	22.4	22.9	22.6	31.9
23	24.3	23.6	18.2	21.7	18.8	16.7	17.7	15.4	23.4	24.8	26.9	33
24	25.6	22	22.8	22.8	19	16.6	17.4	17.8	20.7	27	30.1	34.3
25	26.9	13.8	19.1	23.4	17.4	15.9	16.6	17.2	24.3	28.5	29.5	33.8
26	27.2	22	21.3	20.7	16.2	16.3	18	14.5	23.7	29.6	28.2	33.8
27	25	25.2	22.9	***	16.3	14.1	17.4	8.9	24.9	28.9	28.5	31.1
28	23.4	26.9	23.8	***	19.1	13.4	17.6	14.4	22.7	31	17.4	29

29	25.4	***	23.3	***	12.9	14	17.6	18.6	20.6	31.3	26.2	30.9
30	26.3	***	15.5	***	11.4	14.2	14.6	20.1	23.8	26.2	29.2	28.7
31	22.9	***	22.9	***	11.4	***	18.6	20.2	***	19.2	***	29.4
Avg	28	25.1	22.7	20.4=	16.8=	15.2	15	15.4	19.4	23.5	26.2	29

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2019 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29.3	26.6	26.7	22.3	21.2	17.4	13.6	17.2	17.8	16.1	26.5	***
2	20.1	25.5	28.1	21.9	21.4	15.7	10.3	18.8	19.1	18.8	27	***
3	25.6	22.7	27.2	23.3	22.6	16.5	14.1	17.2	22.1	23.6	28.7	***
4	27.9	23.5	29.1	21.2	21.8	19.1	14.9	18.5	21.7	23.1	29.3	***
5	28.3	28.1	29.8	15.1	22.4	16.3	12	18.5	15	27.3	30.3	20.6
6	25.9	29.1	28.3	17.9	22.6	11.8	13.7	19.2	18.7	29.1	29.6	23.7
7	27.4	30.2	27.9	20.7	21.5	14.4	12.2	22.6	20.7	24.5	23.4	28.2
8	27.4	30.5	21.3	20.2	15.2	18	13.7	16.5	22.7	23.4	23.4	25.6
9	29.2	25.5	24.7	22.1	14.2	18	16.7	17.8	24.7	27.3	26.7	22.5
10	29.1	24.7	24.3	21.8	17.1	16.4	21.1	18.8	28.4	19.7	25.2	17.8
11	30	24.6	22.3	19.8	21.4	16.9	21	17.7	25.2	24.8	28.3	20.4
12	30.9	25.2	22.7	22.3	20.5	16.8	18.3	16.4	25.7	27.5	27.4	23.4
13	31.7	24.4	25.2	23.3	22.3	10.4	18.2	17.6	17.5	24.4	27.3	23.6
14	33.6	27.1	25.5	20.7	23.1	15.2	18.2	18.6	18.3	28.8	19.1	27.1
15	31.4	21.1	24.3	18	19.7	16.5	18.8	20.7	22.9	27	24.1	19.9
16	32.6	24.5	25.8	17.2	20.5	16.9	17.6	22.7	25.9	29.8	27.4	24.4
17	32.7	22.7	24.2	18.2	20.9	15.4	17.1	21.7	28.5	31.4	27	29.1
18	33.9	26.8	25.4	20.9	21.6	17.8	18.1	22	28.9	31.4	26.5	27.7
19	26	26.7	25.5	22.9	21.3	17.3	15.2	18.9	29.3	29.3	27.5	27.2

20	27.5	28.3	26.2	18.4	20.5	18.5	7.2	17.8	28.9	30.2	27.6	29.4
21	30.7	27.2	24.5	12.6	16.8	18.1	12.4	18.5	27.8	22.6	27.1	31.2
22	34.1	27.1	24.1	9.8	18.2	14.8	15.6	20.2	24.5	22.3	29.4	26.9
23	35.1	24.8	23.3	19.7	19	10.1	17.3	21.4	13.9	23.2	29.8	27.1
24	30.2	27.7	23.8	17.7	19.9	14.4	9.7	21.8	17.2	25.5	29.6	29.2
25	29.8	26.6	22.9	16.5	21.1	14.2	15.3	22.5	18.3	25.7	28.6	29
26	26	26.5	21.1	18.4	19.5	15	18.7	21.9	22.5	25.9	30.3	30.3
27	29.2	23.6	22.6	19.5	17.6	15.7	18.6	20.9	25.7	28.3	32.7	25.3
28	29.8	25.2	24.5	21.5	12.4	17.9	18.6	18.2	25.6	19	***	27.8
29	28.7	***	24.2	21.7	13.3	18.6	21.1	18.9	23.8	17.3	***	21.2
30	30.8	***	26	19.4	16.3	19	19.8	20.1	12.9	19.6	***	25.2
31	30.5	***	26.1	***	19.4	***	16.3	13.4	***	22.1	***	***
Avg	29.5	25.9	25.1	19.5	19.5	16.1	16	19.3	22.5	24.8	27.4=	25.5=

Daily Maximum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27.7	32.1	23.2	18	21.8	22.6	---	---	---	---	---	---
2	29.1	24.3	23.2	23.2	19.5	22.2	---	---	---	---	---	---
3	29.1	29.9	25.7	18.1	20.5	21	---	---	---	---	---	---
4	29.5	29.8	27.3	19.7	20.4	20.6	---	---	---	---	---	---
5	30.1	30.1	30.4	22.4	19.3	19.5	---	---	---	---	---	---
6	30.7	24.2	31.1	22.8	20	17.3	---	---	---	---	---	---
7	22.9	24.3	28.7	15.9	20	16.8	---	---	---	---	---	---
8	17.7	22.4	28.5	19.4	21.8	16.8	---	---	---	---	---	---
9	25.6	23.5	26.1	21	22.1	16.3	---	---	---	---	---	---
10	25.4	22.1	14.4	21	21.3	17.6	---	---	---	---	---	---

11	24.8	24.8	25.2	21.6	20.1	***	---	---	---	---	---	---
12	25.9	24.6	23.1	20.6	19.3	***	---	---	---	---	---	---
13	25.3	26	24.1	21.2	16.7	***	---	---	---	---	---	---
14	26.1	27.6	24.2	13	18	11.7	---	---	---	---	---	---
15	29	28.6	25.3	17	16.3	12.5	---	---	---	---	---	---
16	32.1	27.4	19.9	***	17.4	15.1	---	---	---	---	---	---
17	31.5	25.9	21.8	19.6	18.7	13.8	---	---	---	---	---	---
18	26	16.1	22.8	20.8	20.2	15.9	---	---	---	---	---	---
19	22.6	25.1	24.9	23	20.1	14.6	---	---	---	---	---	---
20	25.9	25.6	25.1	25.2	21	14.9	---	---	---	---	---	---
21	26	28.4	25.4	22.6	19.6	14.8	---	---	---	---	---	---
22	25.9	26.5	24.6	22.6	19.3	14.6	---	---	---	---	---	---
23	24.1	18.2	24.4	22.5	18.1	17.2	---	---	---	---	---	---
24	25.8	23.9	25.3	15.7	17	19	---	---	---	---	---	---
25	24.8	25.1	25.6	19	18.2	19.2	---	---	---	---	---	---
26	26.4	26.6	21.6	17.4	7.2	14.9	---	---	---	---	---	---
27	23.2	20.1	20.6	15.4	7.7	13.7	---	---	---	---	---	---
28	24.8	17.8	22.3	***	12	10.2	---	---	---	---	---	---
29	29.2	22.5	23	***	15.3	14	---	---	---	---	---	---
30	30.2	***	24.3	***	17.3	18	---	---	---	---	---	---
31	31	***	***	***	19.9	***	---	---	---	---	---	---
Avg	26.7	24.9	24.4=	20.0=	18.3	16.5=						

Daily Maximum Temperature (C) Data for station [0182465 7] - PADDOCK -30.7540 30.2570 506 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	21.7	25.1

2	---	---	---	---	---	---	---	---	---	---	23.5	28.1
3	---	---	---	---	---	---	---	---	---	---	25.4	24.2
4	---	---	---	---	---	---	---	---	---	---	25.1	19.9
5	---	---	---	---	---	---	---	---	---	---	24.7	24.3
6	---	---	---	---	---	---	---	---	---	---	16.6	17.2
7	---	---	---	---	---	---	---	---	---	---	23.6	17
8	---	---	---	---	---	---	---	---	---	---	21.8	18.5
9	---	---	---	---	---	---	---	---	---	---	27.2	24.8
10	---	---	---	---	---	---	---	---	---	---	21.2	34.6
11	---	---	---	---	---	---	---	---	---	---	23.5	26
12	---	---	---	---	---	---	---	---	---	---	21.8	24
13	---	---	---	---	---	---	---	---	---	---	28.3	24.1
14	---	---	---	---	---	---	---	---	---	---	27.1	21
15	---	---	---	---	---	---	---	---	---	---	19.3	20.7
16	---	---	---	---	---	---	---	---	---	---	17.3	20
17	---	---	---	---	---	---	---	---	---	---	17.8	24.1
18	---	---	---	---	---	---	---	---	---	---	23	17.8
19	---	---	---	---	---	---	---	---	---	---	30	20.4
20	---	---	---	---	---	---	---	---	---	---	19.7	24.5
21	---	---	---	---	---	---	---	---	---	---	23.3	27.3
22	---	---	---	---	---	---	---	---	---	---	23.6	26.8
23	---	---	---	---	---	---	---	---	---	---	24.2	28.6
24	---	---	---	---	---	---	---	---	---	---	21.5	26.1
25	---	---	---	---	---	---	---	---	---	---	19.9	23.1
26	---	---	---	---	---	---	---	---	---	---	34.2	25.7
27	---	---	---	---	---	---	---	---	---	---	18	25.6
28	---	---	---	---	---	---	---	---	---	---	18.2	25.5
29	---	---	---	---	---	---	---	---	---	---	24.9	25.5
30	---	---	---	---	---	---	---	---	---	---	25.6	26.5
31	---	---	---	---	---	---	---	---	---	---	***	29.6

Avg											23.1	24.1

Daily Maximum Temperature (C) Data for station [0207531 0] - MATATIELE -30.3400 28.8030 1493 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	23	27.1
2	---	---	---	---	---	---	---	---	---	---	27.2	29.3
3	---	---	---	---	---	---	---	---	---	---	29.1	26.3
4	---	---	---	---	---	---	---	---	---	---	28.2	22.6
5	---	---	---	---	---	---	---	---	---	---	24.4	28.6
6	---	---	---	---	---	---	---	---	---	---	14.7	15.7
7	---	---	---	---	---	---	---	---	---	---	23.4	21.9
8	---	---	---	---	---	---	---	---	---	---	25.9	22.8
9	---	---	---	---	---	---	---	---	---	---	27.2	26.6
10	---	---	---	---	---	---	---	---	---	---	23.7	29.8
11	---	---	---	---	---	---	---	---	---	---	27.2	31.3
12	---	---	---	---	---	---	---	---	---	---	27.7	31
13	---	---	---	---	---	---	---	---	---	---	30.5	30.8
14	---	---	---	---	---	---	---	---	---	---	31.7	30.9
15	---	---	---	---	---	---	---	---	---	---	30.7	31.6
16	---	---	---	---	---	---	---	---	---	---	21.2	31.3
17	---	---	---	---	---	---	---	---	---	---	19.4	23.3
18	---	---	---	---	---	---	---	---	---	---	30.2	19.7
19	---	---	---	---	---	---	---	---	---	---	27.7	23.3
20	---	---	---	---	---	---	---	---	---	---	27.1	29.8
21	---	---	---	---	---	---	---	---	---	---	31.1	30.4
22	---	---	---	---	---	---	---	---	---	---	25.3	31.7
23	---	---	---	---	---	---	---	---	---	---	25.1	33
24	---	---	---	---	---	---	---	---	---	---	20.3	22.1

25	---	---	---	---	---	---	---	---	---	---	25.9	24.7
26	---	---	---	---	---	---	---	---	---	---	29	25.2
27	---	---	---	---	---	---	---	---	---	---	14.5	28.5
28	---	---	---	---	---	---	---	---	---	---	22.8	27.4
29	---	---	---	---	---	---	---	---	---	---	27.9	29.5
30	---	---	---	---	---	---	---	---	---	---	23.8	32.3
31	---	---	---	---	---	---	---	---	---	---	***	33.9
Avg											25.5	27.5

Daily Maximum Temperature (C) Data for station [0207531 0] - MATATIELE -30.3400 28.8030 1493 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30.2	28.5	30.5	25.1	24.7	18.5	17.8	21.7	27.6	31.1	28.5	30
2	23.9	29	23.4	28.6	25.3	18.8	21.1	23.2	25.3	31.8	29.8	24.6
3	30.3	30	26	28.9	20.1	22	20.2	21.8	20.8	31.2	28.8	26.9
4	19.4	25.8	28.7	23.8	21.2	17.9	19.8	23.4	26.8	21.7	25.2	27.2
5	26.1	30	28.8	26.9	21.5	22.5	17.3	21.9	29.1	27.3	26.5	27.1
6	31.7	31.5	28.6	27.4	22.2	24.1	20.4	20.9	30.2	26.8	22.1	20.9
7	28.9	33.6	28.4	26	13	25.7	15.1	23.6	18.3	30.7	25.1	24
8	27.8	31.9	30.3	27	25.5	23	22.4	23.5	22.7	30.1	***	28.8
9	28.1	32.6	30.7	27.2	24.8	15.9	17.3	16.2	22.1	26.4	***	29.7
10	29.9	32.2	29.1	18.6	22.1	7.4	18.4	11	21.2	31.4	***	31.7
11	27.1	31.4	29.2	27.1	18.4	13.4	20	16	24.3	26.6	***	21.1
12	28.6	31.5	32.1	28.5	22.2	19.7	6.1	20.5	30.4	25.7	***	15.4
13	27.4	32.8	29	30.7	24.5	18.6	15.4	22.9	30.9	17.4	29.2	24
14	32.4	27.2	21.7	31	25.6	18.2	16.6	25.5	31.3	21.8	21.4	22.8
15	27.6	32.8	28.1	29.9	15.8	11.6	17.3	24.5	29.9	12.6	31.2	15.6

16	26.2	29.9	29	21.8	23.8	10.2	13.2	20.8	26	16.7	21.4	25.7
17	28	23.1	22.5	26.5	25.2	11.6	22.1	26.1	25.3	23.2	17.5	27.3
18	33.1	29.7	27.1	24.5	24.2	16	23.6	24.2	30.1	28.3	25.4	31.4
19	25	31	28.4	22.8	24.7	18.3	23.2	12.7	28.5	27.9	27.5	26
20	20.2	30.7	28.6	18.6	22.9	19.6	22.1	15.6	30.7	30.6	31.8	24.8
21	26.7	33.6	28.1	20.5	22.8	21	21.1	23.4	27.3	29.6	***	22.6
22	27.7	28	27.3	21.1	23.1	20.4	21	24.8	22.3	28.6	31.3	28.4
23	30	27.8	25.1	16.5	25.8	16.3	22.3	18.4	29.5	19.7	25.2	29.8
24	30.6	26.6	27.9	17.6	24.3	21.9	21.5	15.5	30.8	20.3	13.8	29
25	27.9	28.1	29.1	22.5	23	26.4	22.5	21.9	28.9	17.5	26.8	21.9
26	20.5	22.7	29.5	23.6	23	26.7	22	21.6	28.8	20.4	26.6	25.3
27	27.5	25.4	26.9	21.8	21.9	15.3	24.1	23.6	20.3	26	28.5	27.5
28	25.7	27.2	26.9	22.2	21.5	21.3	23.5	26.3	24	22.3	30.7	31
29	18.5	***	28.3	22.4	14.3	19.5	13.4	28.9	28.4	24.6	19.7	29.2
30	29.1	***	29.4	24	19.3	20	20.4	30.9	30.3	28	27.9	26.7
31	28.7	***	26.5	***	19.6	***	20.6	26.9	***	25.4	***	26.8
Avg	27.3	29.5	27.9	24.4	22.1	18.7	19.4	21.9	26.7	25.2	25.9=	25.9

Daily Maximum Temperature (C) Data for station [0207531 0] - MATATIELE -30.3400 28.8030 1493 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28	***	26.7	28.7	23.8	16.6	15.5	18.1	26.7	27.5	19	27.8
2	25.9	***	30.5	26.7	24.1	19.9	15.5	19.8	20.9	15.4	23	23.4
3	17.7	***	29.2	25.8	23.8	20.1	12.8	18	24.2	12.6	29.2	17.9
4	24.3	***	28.4	22	23.6	19.2	11.8	21	24.1	21.1	29.3	26
5	24.4	***	27.5	22.3	25.7	20.5	12.5	20.9	25.3	15.3	24.5	28.9
6	23.8	***	27.9	16.2	20.3	15.8	11.8	4	27.5	23.6	22.9	28
7	25.2	***	27.3	21.9	21.8	11.7	14.3	15	27.7	26.4	29.7	32

8	28.4	***	29	22.4	18.2	14.4	16.5	21.7	28.6	27.9	33.4	20.7
9	28.9	***	27.9	25.2	21.8	12.9	17.5	19.9	28.4	28.7	33.9	14.1
10	27.2	***	29.5	23.7	21.3	12.1	17.8	16.4	28.7	30.7	29.8	24.5
11	23.2	***	27.4	24.3	20.1	19.8	17.9	23	28.2	29.8	27.6	26
12	27.2	***	30	24.9	16.3	17.6	16.9	23.6	28	30.8	31	27.4
13	27	***	24	21.7	14.6	19	17	16.5	22.7	30.5	29.9	31
14	29.5	***	26.3	20.6	19.9	19.5	17	6.4	22.2	27.3	20.7	22.4
15	25.2	***	29.2	19.8	20	18.5	15.8	10.7	24.5	27.8	27.6	26.5
16	***	***	27.7	12.9	20.4	16.7	15.9	15	19.8	20.5	31.3	28.8
17	22.4	***	21	15.5	20.4	14.4	18	18.2	25.2	25.8	30.9	29.8
18	30.9	***	19.4	22.7	20.2	20.6	17.9	20.6	27.7	28.3	28.8	32.4
19	***	***	23.4	22.3	19.3	21.2	18.7	19.9	19.8	26.6	27.8	31.7
20	***	***	25.6	21.8	21.1	20.4	18.5	22.3	20.3	22.4	31	31.8
21	***	***	28	21.8	22.5	18.5	19.7	24.7	17.3	26.2	29.2	31.7
22	***	***	28.2	18.8	21.7	20.5	20.8	26.4	22.7	29.7	18.3	29.9
23	***	***	29.6	22.1	22.2	19.5	21.9	26.8	21	31.5	22.9	19.3
24	***	***	29.7	23.3	20.8	10.9	21.6	17.4	19.9	31.5	11.9	25.3
25	***	***	22	23.7	15.2	12.3	8.1	26.4	26.2	27.3	23.1	31.8
26	***	***	26.2	21.7	8.8	15.3	5.5	28.3	28.8	27.5	26	24.8
27	***	***	26.8	16.6	13.6	14.3	9.7	10.4	28.3	28.5	28.4	30.1
28	***	27.6	27.7	16.9	15.5	18.7	16.7	21.7	29.5	28.8	22	21.4
29	***	***	28.1	19.8	18.1	20.4	6.8	25.5	22.8	27.8	28.9	22.4
30	***	***	31.5	20.2	17.9	17.9	15.4	29.1	24.4	26.8	28.3	29.4
31	***	***	31.7	***	11.6	***	17.7	27	***	23.4	***	23.1
Avg	25.8=	27.6=	27.3	21.5	19.5	17.3	15.6	19.8	24.7	26.1	26.7	26.5

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2007 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	23	25.9
2	---	---	---	---	---	---	---	---	---	---	25	30.5
3	---	---	---	---	---	---	---	---	---	---	30.6	23.5
4	---	---	---	---	---	---	---	---	---	---	29.4	22.6
5	---	---	---	---	---	---	---	---	---	---	24.3	27.8
6	---	---	---	---	---	---	---	---	---	---	14	14.4
7	---	---	---	---	---	---	---	---	---	---	24.6	19
8	---	---	---	---	---	---	---	---	---	---	22.2	21.8
9	---	---	---	---	---	---	---	---	---	---	27.8	27.2
10	---	---	---	---	---	---	---	---	---	---	20.4	30.7
11	---	---	---	---	---	---	---	---	---	---	26	28.7
12	---	---	---	---	---	---	---	---	---	---	21.2	27.8
13	---	---	---	---	---	---	---	---	---	---	30.3	25.2
14	---	---	---	---	---	---	---	---	---	---	31.8	26.6
15	---	---	---	---	---	---	---	---	---	---	23.6	24.5
16	---	---	---	---	---	---	---	---	---	---	20.2	26.7
17	---	---	---	---	---	---	---	---	---	---	17.3	20
18	---	---	---	---	---	---	---	---	---	---	27.1	17.6
19	---	---	---	---	---	---	---	---	---	---	31.3	21.9
20	---	---	---	---	---	---	---	---	---	---	22.2	28.1
21	---	---	---	---	---	---	---	---	---	---	30.3	29.4
22	---	---	---	---	---	---	---	---	---	---	25.6	30
23	---	---	---	---	---	---	---	---	---	---	20.8	31.9
24	---	---	---	---	---	---	---	---	---	---	16.4	22.4
25	---	---	---	---	---	---	---	---	---	---	20.1	24.1
26	---	---	---	---	---	---	---	---	---	---	29.6	23.3
27	---	---	---	---	---	---	---	---	---	---	12	24.9
28	---	---	---	---	---	---	---	---	---	---	20.9	25.6
29	---	---	---	---	---	---	---	---	---	---	27.1	26.6

30	---	---	---	---	---	---	---	---	---	---	24.7	30.8
31	---	---	---	---	---	---	---	---	---	---	***	31.6
Avg											24	25.5

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2010 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28.8	24.2	29.8	23.9	22.4	17.9	15.3	22.9	29.2	32.6	25.2	30.5
2	22.6	24.7	19.8	28.2	25	17.4	20.6	22.4	18.3	30.7	31.7	20.6
3	30.4	31.4	21.6	30.1	19	21.1	19.7	22.4	18.5	31.3	30.4	27.4
4	16.4	22.3	25.9	22.4	21.9	19.1	19.3	23.2	27.8	17.9	27	24.2
5	24.5	28.9	28.3	24.1	22.4	18.9	18.9	23.3	25.6	20.9	23.5	21.8
6	30.8	32.7	27.5	25	23.2	24	21.5	19.5	29.3	24.9	18.6	18.8
7	25.3	33.2	28.1	26	24.2	27	15.6	22.8	16.1	32.5	23.7	19.5
8	26.1	30.9	28.9	26.9	26.7	25.1	19.4	25	20	28.6	33.4	23
9	27.9	31.4	30.9	28.5	26.6	13.3	19.5	11.1	23.2	22.6	20.1	24.5
10	30.5	33.2	28.4	14.5	24	8.7	19.5	9.4	17.6	33.3	13.1	29.3
11	26.3	28.3	27.8	24.3	19.6	15.9	17.6	14.3	20	28.6	25.7	19.4
12	25.7	33.1	30.8	26.9	19.1	20.5	4.1	18.9	29.3	20.6	21.1	16.4
13	25.2	33.7	26.6	30	27	21.1	12.8	20.9	31.5	17.5	26.8	24.5
14	32.1	24.1	16.8	31.2	27.5	19	18.9	23.7	31.9	24	16.5	19.1
15	23.3	31.1	24.7	29.2	14.3	9	19.5	24.7	30.8	13.5	31.1	17
16	23.1	30.6	28	21.1	23.9	10.2	11.7	18.4	19.1	12.9	25.5	23.6
17	23.9	20.4	19.1	26.5	25.9	11.2	20.9	26.9	21	19	15.4	27.4
18	33.6	28	23.1	24.9	24.8	16.2	23.8	26.3	30.5	28.3	24.4	29.2
19	28.1	27.8	28.2	24.1	23.2	20.2	22.6	8.7	27.9	27.5	27.1	24.9
20	17.5	27.3	28.5	17.9	23.2	18.1	21	14.7	30.5	30.2	32.5	24

21	24.8	31.7	26.5	20.8	21.9	22.1	19.8	25.2	30.9	30.8	32.4	23
22	26.3	26.5	27.8	22.6	22.5	17.5	22.1	27.6	23.2	28.9	29.4	30
23	28	26.1	24	13.5	23.5	15.1	21.9	17.1	29.8	21.4	20.4	30.3
24	29.1	25.4	29.5	15.3	24.2	21.8	21	14.7	24.4	20.2	13.5	30.3
25	26.4	26.1	29.6	21.4	24.1	24.6	18.6	24.1	24.1	18.8	25.1	20.8
26	20.6	22.2	30.9	23	24.6	25.8	22.3	25.3	30.7	18.8	26.9	23.8
27	27.2	22.7	29.4	20.8	24.3	11.9	23.4	19.7	17.3	22.7	29.7	29.2
28	18.4	24.8	24	21.9	25.2	22.3	23.3	27.8	20.9	20.4	28.9	30.3
29	15.6	***	29.9	19.4	13.8	20.3	9.5	26	27.3	22	14.5	31.4
30	24.7	***	30.6	23.4	16.7	21	18	30.5	30.1	23.8	25.5	24.6
31	30.2	***	24.5	***	18.1	***	22	28	***	23.2	***	25.1
Avg	25.6	28	26.8	23.6	22.7	18.5	18.8	21.5	25.2	24.1	24.6	24.6

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2011 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28	26.7	24.5	29.5	20.4	17.6	14.4	18	27.6	27.4	16.1	28.2
2	29.1	26.6	31.1	25.7	24.4	20.8	16.8	18.1	21.9	15.4	19.4	19.5
3	17.3	25	27.1	22.2	22.6	21.3	10	18.6	18.5	9.8	28.9	17.3
4	21.9	25.1	26.8	18.5	20.8	20.5	11.4	20.9	23.1	17.2	29.8	23.4
5	23.2	27.2	26.8	20.3	24.7	20	10.1	22.6	23.1	12.3	22.8	28.1
6	22.6	26.1	27.4	16.9	21.1	15.2	10.1	3.7	24.8	19.4	18.5	27.2
7	24.7	26.3	27.3	16.6	18.9	15.8	12.5	15	26.7	25.4	27.5	31.6
8	28.1	30.2	29	18.3	12.9	14.7	14.3	19.3	28.5	26.7	33.7	15.5
9	28.9	28.5	24.7	23.9	18.1	13.3	14.5	15.8	28.9	28.1	34.8	13.2
10	25	26.3	29.6	24	23.1	10.6	15.8	12.8	24.6	28.3	15.3	22.5
11	20.3	30.9	28.5	23.5	22.6	17.9	16.8	21.1	29.5	27.8	22.7	27.3
12	25.1	28.5	31.1	25	19.1	15.6	15.4	24.1	26	27.7	22.4	25.4

13	25.4	29.6	27.1	21.8	18.7	17.7	15	15.6	17.7	28.5	20.8	30.4
14	27.2	25.8	22.5	19.9	20.9	19.5	15.1	6.2	18.9	27.4	17	22.4
15	24.3	26	27.6	20.3	22	19.5	14.1	9.1	24.9	19.7	22.8	19.9
16	31.4	26.5	27.2	12.5	22.7	19.3	13.6	12.7	16	13.1	27	25.2
17	23.1	25.3	24.2	13.1	19	14	14.9	16.4	25.1	20.7	24.6	23.9
18	28.9	20.6	18.7	19.9	20.1	17.3	16.1	19.9	27.7	26	24	31.4
19	31.7	23.2	21.5	22.4	16.6	22	16.8	19.6	13.4	28.2	23.1	31.9
20	24.2	25.7	25.9	24.2	21.3	18.7	13.9	18.1	18.4	18.5	32.8	26.2
21	26.8	27.3	27.9	23.1	22.1	15.9	17.4	25.3	15.7	23.9	25	31.1
22	24.6	25.9	27	17.8	24.7	21.3	20.2	26.1	19.6	29.3	15.8	31.5
23	16.6	24.4	30.9	24.6	24.6	21.6	20.9	24.9	18.1	27.6	17.6	16.2
24	16.9	26	29	24.8	21.6	10.1	22.2	15.9	17.2	31.2	10.4	22.5
25	17.4	24.6	20.9	25.9	12.1	12.1	8.6	21.7	25.4	20.2	17.3	29.7
26	25	24.5	27	23.4	7.8	13.4	2.2	26.5	28.2	20.5	20.7	24.5
27	22.2	26.6	25.5	19.4	12.8	15.8	11	7.7	16.7	25	26.5	27.4
28	26	25.8	28.7	17.7	16.5	20.1	14.5	16.1	23.4	28.8	15.4	17.8
29	29	***	28.7	20.8	19	21.2	8.4	25.4	23	29.3	26.9	20.3
30	29	***	28.6	18.6	19.6	19	14.3	28.3	19.9	28.2	27.4	27.3
31	24.9	***	31.8	***	14	***	17.1	27.5	***	14.1	***	22.3
Avg	24.8	26.3	26.9	21.2	19.5	17.4	14.1	18.5	22.4	23.4	22.9	24.6

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2013 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.9	22.9	16.6	27.3	26.1	25.7	15.2	19.9	16	25.3	21.6	19
2	24.1	27.2	23.6	27.2	24.7	23.7	13	21	22.4	29.1	15.4	20.9
3	28.8	29.3	25.2	12.5	23.1	16.8	8.8	19	24.4	29.1	22.2	24.8

4	21.8	14.6	28	18	9.8	15.6	10.4	20.1	18.7	31.6	27.8	22.8
5	21.3	19.7	31.6	22.3	14.5	12.8	13.6	19.4	21.1	31.2	32.3	16.5
6	30.9	27.1	31.7	26.2	18.1	18.5	18.3	19.6	22.8	18.5	31.9	19.4
7	25	19.2	26.5	26.5	23	23.1	18.5	21.7	25.9	14.5	30	19.6
8	31.8	25.1	29.6	28	22.2	20.6	20.2	19	27.9	22.6	22.9	22.6
9	32.7	31.8	17.5	27.5	19.3	10	18.4	4.9	11.3	25.3	22.9	20
10	27.1	22.9	15.2	10.6	10.8	14.9	15.6	12.5	19.6	28.4	21.9	18
11	15.9	28.5	20.8	14.3	14.1	22.3	18.3	20.4	13.6	32.9	20	14.1
12	21	24.9	24.6	18.8	19.2	20.8	18.2	12.6	16.4	30.9	27.4	16.9
13	26.7	29.9	23.4	24.5	22	20	18.9	21.7	22.6	12.5	32.3	22.9
14	31.5	32	21	26.4	24.1	20.3	16.7	17.5	25.7	18.8	34.1	25.1
15	18.8	18.7	27	27.2	25.5	14.1	19.2	18.8	29	24.8	17.3	26.8
16	25.7	20	23.3	29.3	24.4	15.2	19.5	17.8	22.8	25.9	21.9	18.9
17	29.5	26.3	19.3	29.6	11.5	16.5	12.9	21	26.7	12.1	23.6	19.7
18	22.8	29.6	25	18.2	17.7	20.1	17.8	15.1	28.9	18.6	19.7	20
19	18.7	30.7	21.3	9.3	20.7	19.4	17.9	14.2	30	15.4	26.6	25.6
20	24.5	24.5	24.3	9.8	21.6	19.1	14.8	20.5	27.6	20.7	28.8	28.1
21	23.1	21.5	30.6	9.5	22	20.8	14.8	23.7	9.3	14.4	14.3	28.7
22	25.5	25.7	32.5	15.9	25.3	20.6	19.1	12.5	19.3	12.1	24.5	27.1
23	30.9	23.3	30.4	16	22.7	20.6	17.9	18.4	26.2	17.9	26.8	24.8
24	34	24.4	26.8	21	22.7	23.5	15.7	20.9	28	23.4	21	23.3
25	20.1	28	18.7	23.2	23.4	21.4	19.9	20.1	24.4	26.1	28	25
26	25.8	34.5	21.7	23.1	23.8	16	22.8	27.7	26.9	23.8	29.1	27
27	25.1	30.7	22.5	25.5	20.6	13	21.8	26.3	25.6	17	14.6	24.8
28	17.2	27.8	26.9	26.3	17.2	12.3	15	28.3	17.3	23	13.6	27.9
29	24.5	***	26.2	19	17.4	18.9	14.9	28.5	15	21	22.9	18.3
30	***	***	21	24.6	20.3	19.6	15.1	17.7	17.5	26.6	20.8	25.9
31	21.3	***	20.5	***	19.5	***	18.6	12.4	***	27.6	***	25.6
Avg	24.8=	25.7	24.3	21.3	20.2	18.5	16.8	19.1	22.1	22.6	23.9	22.6

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2014 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28.3	28.9	29.1	26.6	20.1	25.6	22.7	22.8	19.5	12.6	14.4	26.7
2	26.2	20.8	29.3	26.5	26.9	21.3	21.5	24.5	22.6	9.5	20.8	27.1
3	30.6	22.1	23.7	21	28.2	24.2	21.2	24	24.3	14.7	22.8	22
4	29.8	27.8	18.7	19.2	27.2	24	23.1	23.2	24.6	17.4	26.4	24.9
5	30.4	20.7	21.5	17.4	16.4	14.7	21.7	22.6	26	23.7	17.9	18.4
6	25.7	23.1	26	20.4	19.6	9.4	8.3	18.6	27.6	29.3	22	19.8
7	26.8	27.6	29.3	24.4	24	17.9	7.7	18.9	28.9	29.7	19.6	24.1
8	25.4	26.2	28.3	24	24.8	23.2	7.7	19.6	27.1	28	27.7	23.9
9	28.2	29.3	23.5	24.8	24.5	23.6	12.4	19	30.9	16.4	29.1	27.1
10	23.7	29.7	18.6	25.1	19	12.9	14.1	16.7	21.7	12.3	17.1	22
11	22.1	32.2	24.8	26.8	19.3	17	18.7	19.8	30.3	25.9	23.6	25
12	30.4	32.6	23	26.9	19.9	17.5	18.7	21.6	20.3	26.5	21.5	28.6
13	17.4	30.8	18.5	26.4	18.6	19.8	16.6	24.6	30.4	16.1	25.6	17.6
14	22.8	27.2	25.5	26.4	17.2	19.7	13.6	20.5	33.1	20.7	25.1	30.8
15	32.4	27.3	27.8	14.9	23.5	19.5	19.9	15.3	32.3	24.1	27.1	19.8
16	29.4	27.8	28.4	14.5	20.7	19.3	22.8	18.5	29.9	14.9	15.6	15.3
17	32.4	28.6	26.1	19.8	14.6	17.9	24.4	21.4	31.4	8.5	15.8	23.2
18	22.1	28	28.3	24.6	16.5	23	20.6	23.6	30.3	17.1	20	26.5
19	23.9	26.1	28.4	26.9	22.8	14.6	19.1	25.2	19.7	21.4	21.2	27.6
20	26.3	26.1	20.9	27	19.9	17.1	17.6	23.5	16	18.6	22.4	23.4
21	24.9	16.4	24.1	26.4	16.1	19.5	18.8	18.3	22.2	20.5	22.8	29.9
22	28.1	21.8	29.7	24.8	20	23.3	20.7	14.6	26.3	21.8	27.5	21.7
23	31.4	26.7	29.1	16.2	25	22.6	17.3	17	29	28.2	18.6	30.8
24	32.2	27.3	29.8	16.5	25.8	19.7	24.5	13	27.6	22.7	21.4	25.3
25	21.9	20.8	31.5	19.5	23.3	19.6	25.6	19	23.6	17.7	21.4	32.4
26	25.2	21.5	27	22.4	24.1	21.1	15.7	24.4	31.5	14	23.8	22.5

27	29.8	26.4	14.8	12.5	25.4	14.9	16.4	25.8	17	28.2	29.6	18.3
28	30.4	29.4	22.6	21.8	21.9	16.5	12.8	23.1	11.2	27.9	19.2	23.2
29	30.8	***	26.4	25.7	23.6	21.2	21.5	6.4	21.5	30.1	18.7	24.7
30	18.2	***	23.4	20.6	24.1	23.2	20.7	10.9	21.3	31.1	22.4	21.8
31	21.2	***	27.9	***	24.6	***	20.4	15.1	***	13.6	***	21.4
Avg	26.7	26.2	25.4	22.3	21.9	19.5	18.3	19.7	25.3	20.7	22	24.1

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2015 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25.8	13.5	21.8	28.1	21.4	19	15.5	15.1	17.3	8.5	27.2	35.2
2	28	19.9	17.2	28.7	23.2	20.2	19.5	18.8	14.6	20.8	14.1	28.6
3	28.6	22.6	25.3	21.4	23.5	21.6	20.5	19.2	11.3	25.3	13.7	23
4	26	28.7	29.3	22	22.2	13.9	21.5	20.8	12.5	30.2	20.2	31.1
5	27.1	25.4	27.9	17.7	26.1	8.8	22.6	16.3	17.3	24.2	29.1	25.1
6	23.9	24.7	25.9	17.1	17.1	14.8	15.6	18.8	20.4	27.6	30.4	26.7
7	24.8	24.5	25.8	17.4	17.4	16.3	20.4	22.9	23	32.2	26.2	30.8
8	29	31	24.2	19.7	25.5	17.2	21.6	24.2	10.5	30.5	26.8	25.6
9	21.8	31.4	28.1	20.8	26.3	18	16	21	21.1	22.8	24.1	27.1
10	29.1	33.4	30.8	24.5	15.5	19.5	20.5	9.1	25.9	31.7	24.5	28.4
11	26.8	27.2	22.9	24.2	18	16.8	19.1	12.9	11.7	22.5	30.3	33.1
12	31.3	32.4	26.6	24.4	17.8	16.6	22.5	17	16.6	31.5	18.8	28.6
13	28.5	30.1	24.4	26.4	21.6	22.3	9.1	20.5	15.7	31.2	25.2	19.1
14	23	23.8	26.5	26.8	24.6	22.9	12.1	21.1	27.3	21.2	15.1	12.8
15	28	12.7	30.4	15.4	26.2	23.3	21	25.3	23	26	20.9	24.6
16	30.1	18.1	23.7	14.3	21.9	21.2	23.9	25.1	18.6	18	21.7	23.3
17	20.3	20.9	16.8	14	18.8	11.1	13.4	24.4	8.8	24.8	29.5	25.8
18	23.8	28.1	28.8	16.9	24.7	18.1	19.4	24.1	7.6	29.5	14.6	33.6

19	22.9	31.9	26.1	17.5	24.7	16.1	21.3	12.2	9.7	28.1	25.1	35.4
20	21.7	31	28.3	21.3	25	19.8	24.4	15	25.3	29.7	30.5	25.1
21	28.5	25.6	28.9	20.8	26.2	20.5	8.8	19.4	25	28.3	20.6	31.4
22	27.6	20.4	25.1	25	21.5	21	9.4	18.1	23	14.8	18.8	19.7
23	30.4	28.7	18.7	15.5	24.5	20.5	15.3	22.6	26.4	23.3	22.6	30.9
24	32.4	26.2	19.9	22.3	24	21.3	8.2	27	30	28.2	26.3	35.9
25	31.1	24.6	27.2	25.8	23.2	16.2	5.7	25.8	32.6	31.5	28.9	18.9
26	31.9	30	25.2	23.3	23.6	15.2	8.2	27	30.4	18.9	20.5	21
27	25.8	22.9	21.1	20.4	23.2	13.2	17.1	24	29.2	21.2	14.9	29.7
28	20.2	23	17.3	23.3	24.4	18.9	17.1	26.5	27.8	27	19.9	34.6
29	22.1	***	23.7	25.2	26.7	15.2	18.4	26.9	29.4	28.1	26.6	26.4
30	27.5	***	22.6	18.4	26.9	14.5	16.6	21.3	29.7	28.1	28.6	30.5
31	27.8	***	25.2	***	24.3	***	8.8	22.4	***	23.6	***	31.2
Avg	26.6	25.5	24.7	21.3	22.9	17.8	16.6	20.8	20.7	25.5	23.2	27.5

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2016 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28.5	29.5	31.4	29.2	18.2	21.5	21.1	13.4	29	19.1	19.7	20
2	26.4	33.8	30.7	23.5	18.2	20.8	8.8	21.2	26.8	10.7	23.6	24
3	30.8	30.3	27.3	21.2	18.6	22.3	14.4	18.6	24.2	10.1	33.5	31.6
4	33.5	14.6	28.5	29.2	17.4	16	21.2	12.1	23.1	15.1	32	24.1
5	36.2	20.9	32.5	15.8	22.6	16.1	22.6	20.9	27.4	21.7	22.5	20.8
6	35	24.9	32.3	12.7	23.4	21.3	20.6	23.2	22.1	28.5	15	31.7
7	20	23.3	33	14.4	13.3	22.4	12.3	22.3	27	16.6	24.5	27.4
8	16.3	23.3	15.6	21	13.1	23.2	19.4	12.1	27.9	23.4	24.9	30.7
9	23.6	25.9	20.6	21.9	21.8	20.9	15.1	20.9	19.9	13.4	28.5	29.6
10	25.7	26.5	26.8	24.8	21.1	22.1	18.3	24.1	10.7	22.3	15.3	17.6

11	26.3	28.4	17.8	26.7	20.4	10.3	20.8	22.6	25.4	30.4	13.9	18.1
12	22.7	31.7	25.8	28	24.4	9.8	19.1	23	22.6	15.7	23	27.6
13	26.1	32.8	28.1	27.1	22.8	15.5	20.6	24	9.6	16.9	17	22.5
14	25.6	31.9	20.8	29.3	19.4	16.9	20.8	22.4	20.3	21.5	16.9	27.8
15	20.7	27.1	28.9	28.7	20.9	19.2	18.8	15.3	26.9	31.5	21.2	30.5
16	24.6	21.1	25.1	28.7	21.1	16.9	13.6	16.8	27.7	24	29	24.6
17	22.6	24.7	26.3	23.7	22	16.8	17.6	23	11.4	16.9	28	29.1
18	26.8	25.9	28.4	25.4	22.5	20.5	20.8	22.2	7	19.8	18.6	32.7
19	28.2	30.5	25.5	28.5	22.2	22.4	21.9	18.6	20.4	23.2	21.7	33.9
20	28.5	28.5	25.7	26.6	16.2	19.8	21.9	13.1	25.2	23	23.2	25
21	28.7	23.3	17.7	17.9	22.7	10	21.5	21.7	27.4	29	27.9	31.3
22	27.3	24.9	20	21.4	23	14.8	21.2	13.1	20.5	30.7	23.7	32.5
23	24.6	30.8	27	21.9	23.6	19.8	13	16.8	14.9	17.3	27.6	32.7
24	28.4	34	27.5	24.7	21	21.5	5.1	23.5	18.5	28.1	26.5	26.7
25	26.2	27.9	27.4	29.3	17.3	21.9	8.6	26.6	19.3	22.8	17.5	22.4
26	22.8	33.1	25.9	15.8	20.3	23.4	13.5	19.6	30.5	26.8	21.5	29.5
27	30	20.9	26.6	24.9	20	23.6	11.4	28.7	27.6	31.1	27.8	30.4
28	26.6	25.9	25	25.4	20.6	17.4	13.7	29.1	14.6	25.3	31.3	25.9
29	27	30.7	28.1	24.9	23.2	21.8	16.6	29.2	22.6	26.3	24.1	20.7
30	31.7	***	31.3	9.3	24	25.5	13.8	29.4	19.1	20.9	23.4	27.8
31	30.9	***	24.9	***	22.8	***	16.7	30	***	23.4	***	31.3
Avg	26.8	27.1	26.2	23.4	20.6	19.1	16.9	21.2	21.7	22.1	23.4	27.1

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2017 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.8	32.5	31.2	27.1	24.9	23.2	20.5	20.2	13.5	22.8	32.3	31.2
2	34.4	28	29.9	31.3	24.6	24.2	21.4	22.1	20.8	22.7	29.9	27.1

3	15.9	25.3	30.6	29.1	24.1	23.6	10.7	22.6	21	27.7	30	27.4
4	20.1	21.7	29.2	32.5	22.7	24	19.7	20.1	26.7	23.2	28.5	19.3
5	25.6	19.7	28.4	32.3	25.5	19.7	23.8	18.1	***	13.9	25	22.1
6	20.2	18.9	30.2	15.7	24	24	23.8	17	24.3	18.4	19.3	16.8
7	16.9	28.9	30.6	22.3	24.6	23.5	22.9	15.6	28.8	18.6	18.5	21.8
8	22.1	30.4	32.4	25	25.4	15.1	19.8	20	27.3	22.3	17.3	25.6
9	28.2	28.7	17.7	26.9	23.4	16.4	20.3	23.4	22.8	8.8	20.3	24.9
10	22.7	28.2	18.9	29.2	26.4	24.1	14.6	24	29.5	5.4	16.7	15.9
11	27.5	31.9	26.9	20.6	24.2	20.2	15.2	22.8	29.6	17.8	24.7	16.2
12	28.9	27.3	25.4	25.7	8	22	16.6	24.2	31	16.3	31.3	21.6
13	19.6	29.2	29.8	20.5	6.3	22.7	11.7	16.7	29.6	15.6	32.5	24.3
14	24.6	25.7	30.1	19.2	8.3	18.6	19.4	21.6	18	25	29.8	15.8
15	29.5	25.8	28.2	13.7	11.6	18.1	20.8	22.3	29.7	24.7	14.7	24.3
16	14.6	30.7	26.7	17.6	22.3	19.2	16	16.7	22.9	17.4	6.4	32.7
17	19.6	27.7	30.6	17.6	19.7	21.4	15.7	4.2	10	***	17.1	30.5
18	27.5	33.1	31.5	17.7	20.9	18.6	20.3	7	19.2	22.5	22.9	22.8
19	31.4	16.7	23.4	18.7	25.9	20.8	21.6	12.9	23.2	26.9	28.4	15.2
20	24.1	15.3	27.8	18.9	26.2	20.9	20.7	18.1	18.1	15.9	32.7	23.7
21	23.2	14.2	29.5	20.1	24.8	20.6	22.5	22	29.7	21.8	30.9	29.3
22	32.3	20.3	30.1	24.9	25.2	21.7	21.1	20.1	29.1	27.5	19.6	24.5
23	31.8	21.1	30	20.8	24.3	11.3	17.1	21	8.3	26.2	15.3	25.9
24	24.3	26.6	19.7	16.8	23.4	17.2	20.9	16.3	22.3	30	20.5	25.9
25	22.5	28.3	14.4	19.1	21.6	19.8	21.4	12	25.5	31.1	17.1	20.2
26	24.4	14.7	23.4	23.8	22.1	18.6	15.1	18.8	12.4	20.7	20.7	20.4
27	24.4	24.8	27.6	24.7	17	19.8	20.8	15.2	18.2	12.2	18.8	29.4
28	27.4	30.6	23	25	13.9	18.3	23	23	15.7	16.1	27.6	20.2
29	26.3	***	24.2	22.7	17.2	17.4	22.4	25.1	25.3	25.2	22.9	21.5
30	31.2	***	31.9	24.3	20	21.2	18	17	18.5	29.5	25.2	28.5
31	29.2	***	32.5	***	20.7	***	21	24.2	***	30.3	***	25.2
Avg	25.3	25.2	27.3	22.8	20.9	20.2	19.3	18.8	22.4=	21.2=	23.2	23.6

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2018 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26.2	23.8	28.1	27.4	***	20.1	21.8	21.5	26.4	30.3	10.8	29.4
2	21.4	32.1	26.4	29.8	***	21.3	17.5	14.7	25	27.9	15.7	24.5
3	24.2	20.7	28.8	25.2	***	19.2	12.6	16.3	16.8	7.6	23.4	29.9
4	29.4	25.9	26.7	23.6	***	11.1	16	23.5	26.9	16.9	30.5	25.6
5	32.6	28.1	29.1	23.8	***	15.8	15.5	16.3	29.9	21.7	29.3	26.5
6	27.5	33.1	28.8	25.7	***	21.4	16.4	19.3	17.3	25.1	15.7	34.1
7	30.1	20.8	28.3	25.1	***	22.2	17.6	19	18.1	26.9	11.7	33
8	25	27.8	20.3	22.8	***	21.7	15.8	12.2	19.2	28	21.6	21.9
9	16.4	31.5	20.9	24.8	***	21.2	19	12.6	11.7	30.3	22.5	13
10	21.2	29.1	27.4	18.9	***	16.4	20.2	12.8	19.1	30.1	29.3	14
11	27.5	21.6	24.3	15.6	***	19.7	21.1	16.5	23	32.3	25.1	25.2
12	32	27.3	22.9	***	***	20.6	22.5	22	25.1	12	33.7	31.6
13	31.5	21	29.3	***	***	19.4	23.2	23.9	22.9	7.7	35.5	22.9
14	30	26.8	28.3	17.1	***	20.4	9.7	24.4	22.3	20	34.4	28.1
15	29.7	24.1	29	22.2	***	21.5	10.5	17.9	22.2	20.6	33.4	27
16	27.1	30	13.1	22.1	***	16.2	15.2	23.9	22.2	16.8	31.2	30.9
17	32.2	27.2	17.3	***	***	22.6	17	12.9	28.3	8.1	23	33.7
18	30.7	31.3	23.5	24.5	***	22.3	18.1	13.8	27.3	20.7	21.3	30.3
19	31.9	26.3	25.4	***	20.9	21.6	20.1	23.7	21.4	24.4	30.2	27.8
20	25.6	27.8	30.7	***	22.8	16.4	19.9	27.3	9.8	14.7	32.3	17.8
21	24.3	27.5	25.9	***	20	21.7	20.8	18.5	18.6	14.7	11.9	25
22	26.3	27.4	13.7	***	***	19.5	23.4	17.8	19.7	21.8	18.9	29
23	27.6	31.1	19.5	***	***	19.8	24.7	19.6	23	26.9	23	26.1
24	25	29.8	27.9	***	***	21	24.9	18.9	19.6	27.7	30.1	28.7
25	25.1	14.7	25.2	***	18.9	20.8	22.9	25	28.9	29.4	32.2	28.8

26	26.4	23.6	23.3	***	17.5	19.3	22.4	24.6	22.4	29.6	30.4	32
27	24	29.4	28.8	***	19.2	19.8	22.1	15.5	26.5	28.6	31.9	35.4
28	23.1	31	29.7	***	22.6	8	20	18.9	28.7	29.1	13.5	15.2
29	24.7	***	29.8	***	18.1	19.2	22.7	22.4	19.8	34.1	20.2	29.9
30	29.2	***	17.8	***	16.9	18.8	17.4	26.8	27.6	31.6	28.7	27.8
31	22.2	***	23.1	***	14.6	***	23.5	26.9	***	11.1	***	27.1
Avg	26.8	26.8	24.9	23.2=	19.1=	19.3	19.2	19.7	22.3	22.8	25	26.8

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2019 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32.4	22.2	24.8	25.7	26.4	20.5	21.1	17.1	22.2	16	23.1	21
2	16.5	25.7	25.2	15.3	26.3	20.7	16.9	25.8	23.9	24.3	29.5	35.6
3	20.7	29.7	22.8	26.1	27.1	22.7	20.9	19.4	26.7	27.8	30.7	24.9
4	29.2	22.5	28	25.4	18.8	23.8	20.6	24.1	25.1	27.1	22.9	14.3
5	24.3	26.5	25.6	14	26.1	24.9	12	24.4	12.7	27	33.4	21.2
6	23.1	26.4	33.3	15.3	22.7	18.6	21.5	24.2	14.8	33.1	32.5	27.2
7	28.1	22.3	30.3	24.6	28.3	19.3	19	28.2	24.3	31	28.6	28
8	25.7	32.9	17.6	23.7	22.5	18.9	20.2	18.8	26.5	25.7	18.6	18.2
9	28.4	26.1	24.6	22	16.9	21.8	22.4	17.5	25.8	26.5	21.7	15.9
10	30	28.7	21.7	23.4	20.1	21	27.1	23.8	28.7	14.3	20.6	15.7
11	30.7	24.4	24.6	25.6	23.6	22.8	26.3	23.1	29.5	25.3	22.7	20.4
12	28	24.8	28.1	26.3	26.8	21.3	22.5	18.3	29.3	28.9	29.9	22.2
13	32.9	24.9	29.4	26.8	27.1	11.6	22.5	19.9	23.1	19.4	25.4	22.2
14	31.7	23.9	28.4	28.2	29.8	19.7	21.9	21.5	18.5	27.9	18.4	29.3
15	24.2	28.3	26.4	18.6	23.5	21.6	23.5	26.7	25.5	22	17.5	23.8
16	21.8	24.8	27.6	19.5	25.2	20.9	21.4	26.6	29.9	29.6	23.7	20.9
17	28.9	22.4	27.2	20.7	24.4	22.9	21.1	18	31.2	33.9	18.7	31.4

18	35.7	24.3	26	23.6	25.6	19.4	21.8	26.2	24.2	32.2	20.4	29.5
19	23.4	27.4	30.9	27.1	26.2	22.6	20.5	19.4	27.8	30.5	22.7	29.9
20	21.3	31.6	26.5	22.6	24.5	22	10.8	17.3	33.7	32.5	20.5	30.8
21	32.8	23.6	22.4	12.6	17.9	25.7	14.9	23.4	31.5	21.7	26.2	34.4
22	35	24.6	21.9	11.1	21.9	21.8	22.2	24.9	21.6	9.6	24.9	18.7
23	32.8	25.4	26	12.4	21.9	16	23	26.7	13.6	27.8	28.4	31
24	15.8	26	27.6	22.3	22.2	19.6	16.9	27.1	18.2	25.7	24.8	***
25	23.3	27	22.3	21.6	23.5	15	23	27.4	15.5	32.4	26.4	***
26	16.9	28.4	13.7	21.3	23.9	20	18.9	26.5	23.6	28.6	28.8	33.2
27	23	23	23.7	22.9	23.9	21.1	23.4	22.6	28.7	31.6	33.7	21.1
28	26.8	27.4	28.1	24.6	16.6	22.4	24.8	15.8	28.4	26.4	33.4	20.4
29	34.2	***	23.2	28.3	15	22.3	26.4	20	28.6	20.8	35.3	21.3
30	28.8	***	30.4	27.3	20.4	24.9	24.6	20.1	11.6	21.3	33.6	30.5
31	29.1	***	29.7	***	21.6	***	20.5	16.6	***	19.7	***	20
Avg	27	25.9	25.7	22	23.2	20.9	21.1	22.3	24.2	25.8	25.9	24.6=

Daily Maximum Temperature (C) Data for station [0269894 1] - KOKSTAD -30.5020 29.3940 1451 m 2020 08:00 (Extracted 2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23	29.7	24.1	15.6	22.9	25.5	---	---	---	---	---	---
2	26.6	31.1	26	18.9	23.9	27.8	---	---	---	---	---	---
3	30.6	29.7	25.1	23.7	26	25.2	---	---	---	---	---	---
4	32.1	30.3	28.4	23.1	18.1	21.2	---	---	---	---	---	---
5	31.4	30.7	27.8	25.4	20	21.9	---	---	---	---	---	---
6	29.3	27.8	27.1	26.5	19	21.5	---	---	---	---	---	---
7	23	20.4	30.9	17.7	21.9	22.4	---	---	---	---	---	---
8	21.9	24.5	30.6	18.1	21.9	20.8	---	---	---	---	---	---
9	24.6	25	25.8	21.8	22.8	26.9	---	---	---	---	---	---

10	17.5	20	24.2	20.8	25.5	21.8	---	---	---	---	---	---
11	26	21.7	22	27.7	24.5	14.8	---	---	---	---	---	---
12	27.8	24.7	24.4	24.3	23.8	10.4	---	---	---	---	---	---
13	25.2	30.3	26.7	24.2	15.3	15.8	---	---	---	---	---	---
14	27	31.3	25.8	13.6	18.2	16.9	---	---	---	---	---	---
15	28.6	31.2	27.7	18	21	14.8	---	---	---	---	---	---
16	30.7	31.5	14.8	20	18.1	13.4	---	---	---	---	---	---
17	33.6	28.7	25.5	22.6	22.7	15.2	---	---	---	---	---	---
18	22.2	15.6	26.6	23.4	23.8	14	---	---	---	---	---	---
19	15.1	24.5	27.1	27.2	24.3	19.7	---	---	---	---	---	---
20	21.2	27	29.3	28.5	22.9	20.6	---	---	---	---	---	---
21	22.9	26.9	24.7	25.2	23.7	19.3	---	---	---	---	---	---
22	24.2	29.6	27.4	21.7	23.4	18.2	---	---	---	---	---	---
23	21.3	11.5	25.4	24.8	21.5	22.4	---	---	---	---	---	---
24	27	21.8	27.7	19.6	20.1	23.7	---	---	---	---	---	---
25	29.7	26.8	28.4	16.6	20.3	24.7	---	---	---	---	---	---
26	28.7	31	16.7	18.1	14.3	20.6	---	---	---	---	---	---
27	20.1	17.9	17.3	16.5	10.7	20.1	---	---	---	---	---	---
28	26.3	13.3	26.4	10.7	20.7	18.7	---	---	---	---	---	---
29	27.6	19.2	27	15.8	20.3	18.7	---	---	---	---	---	---
30	24.4	***	25.8	19.7	22.2	15.8	---	---	---	---	---	---
31	33.7	***	27.8	***	27.5	***	---	---	---	---	---	---
Avg	25.9	25.3	25.6	21	21.3	19.8						

Daily Maximum Temperature (C) Data for station [0475605 6] - WALTER SISULU NAT. BOTANICAL GARDENS -26.0800 27.8500 1520 m 2007 08:00 (Extrac
2023/06/29 09:56)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	---	---	---	---	---	---	---	---	---	---	29.5	27.8
2	---	---	---	---	---	---	---	---	---	---	28.4	26.7
3	---	---	---	---	---	---	---	---	---	---	28	***
4	---	---	---	---	---	---	---	---	---	---	28.2	***
5	---	---	---	---	---	---	---	---	---	---	28.3	***
6	---	---	---	---	---	---	---	---	---	---	24	***
7	---	---	---	---	---	---	---	---	---	---	23.4	***
8	---	---	---	---	---	---	---	---	---	---	29.3	***
9	---	---	---	---	---	---	---	---	---	---	28.6	29
10	---	---	---	---	---	---	---	---	---	---	27.9	31.6
11	---	---	---	---	---	---	---	---	---	---	31.2	29.4
12	---	---	---	---	---	---	---	---	---	---	32.2	25.5
13	---	---	---	---	---	---	---	---	---	---	32.8	27.6
14	---	---	---	---	---	---	---	---	---	---	32	29.2
15	---	---	---	---	---	---	---	---	---	---	30.8	24.6
16	---	---	---	---	---	---	---	---	---	---	25.6	25
17	---	---	---	---	---	---	---	---	---	---	26	24.9
18	---	---	---	---	---	---	---	---	---	---	29.5	20.5
19	---	---	---	---	---	---	---	---	---	---	30.8	20
20	---	---	---	---	---	---	---	---	---	---	25.4	28.2
21	---	---	---	---	---	---	---	---	---	---	26.6	31.2
22	---	---	---	---	---	---	---	---	---	---	26.5	29.7
23	---	---	---	---	---	---	---	---	---	---	25.8	28
24	---	---	---	---	---	---	---	---	---	---	26.8	24.5
25	---	---	---	---	---	---	---	---	---	---	20.8	29.2
26	---	---	---	---	---	---	---	---	---	---	28.9	28
27	---	---	---	---	---	---	---	---	---	---	19.8	27.4
28	---	---	---	---	---	---	---	---	---	---	18	27
29	---	---	---	---	---	---	---	---	---	---	20	27.8
30	---	---	---	---	---	---	---	---	---	---	25.9	28.5
31	---	---	---	---	---	---	---	---	---	---	***	29.6

LEGEND

Minimum temperature of the day (in °C)

---- indicates that data is not yet available or was not requested

*** indicates that data is missing or not yet available in the current month

= indicates that the average for the month is unreliable due to missing daily values

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2007 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.4	18.5	20.3	19.1	13.6	14.1	9.1	6.5	12.3	15.8	17.5	17.4
2	13.8	17.8	20.5	19.2	14.2	14.4	9.5	11.6	13.1	17.7	18.1	15.9
3	18.9	20.2	19.2	17.6	17.5	11.8	5.7	12.3	15.2	12.8	16.8	14.5
4	18.9	20.2	14	16.8	16.3	13.5	6	10.1	15.4	12.3	16.4	14
5	20.2	17.5	13.9	16.2	17	15.6	7.2	7.6	14.7	10.1	14.3	15.4
6	19.1	18.8	17.6	19	18.8	13.7	11.9	11.3	13.2	13.4	15.7	14.7
7	14.3	18.9	17	16.6	14.5	10.6	9.8	9.6	11.7	10.7	10.5	15.3
8	13.3	20.8	14.1	17.2	17	10.7	10.3	7.4	15.3	9.4	13.9	16.9
9	16.5	20.5	18.1	17.3	12.4	9.9	8.6	10.4	13.4	11.7	13	16.7
10	16.7	14.9	18.5	15.6	15.8	8.5	6.3	16	12.4	12.6	13.2	18.1
11	19.9	14.5	17.9	15.6	11.5	8	11.6	12.1	15.5	12.6	12.5	16.2
12	20.5	15.9	17.4	13.7	11.4	9.6	11.7	9.4	16	12.1	13.4	18.4
13	19.4	17.3	19.9	8	8.9	9.8	8.2	9.8	13.4	17.2	10.4	17.3
14	18.6	16.5	18.4	11.1	13.9	7.1	5.7	12.3	11.8	16.3	14.6	17

15	20.5	14.8	19.2	14.3	14.9	8.3	7.6	11.8	13.9	14.6	14.4	14.6
16	18.1	18.3	14.8	14.8	11.8	11.5	8.2	11.1	13.2	14.9	14.1	17.5
17	17.5	17.7	19.4	13.5	13.3	7.7	13	10.7	9.5	15.7	14.1	17.2
18	19	18.6	13	16.8	10.5	12.7	11.9	9.6	13.9	11.9	14.6	16.1
19	18.8	19.8	13.2	17.5	14.8	10.7	11.3	13	14.4	11.1	15.1	14.7
20	17.1	21	14.3	16.2	14.7	6	8.3	14.2	12.7	12.4	15.7	16.5
21	16	20.6	14.4	17.5	9	9.4	12	15.2	13.3	17.2	17.4	17.8
22	19	18.4	14.9	15.1	7	9.2	9.9	14	14.3	15.9	16.9	20
23	20.8	18.4	18.2	13.2	8.1	13.1	8.3	13.4	14.7	14.3	16.1	18.7
24	18.3	21.9	16.3	16.6	7.7	19.4	12.3	11.4	10.5	11.6	15.2	18.8
25	19	21.3	14.1	16	10	12.5	9.5	8.1	10.7	11.6	14.7	18.7
26	21.2	20.6	16.9	15.7	8.5	11.2	6.5	11.6	13.5	14.2	15.3	18.4
27	19.8	20.9	14.9	14.6	8.9	9.5	8.3	13.2	15.8	16.5	13.6	17.2
28	19.7	20.4	16.3	10.8	7.6	10.8	8.2	12	13.3	14.8	11.7	16.4
29	19.4	***	18.7	7.6	14.2	7.1	7.6	9.7	14.5	17.5	13	18.3
30	18	***	18.4	15.9	12.9	7.5	11.6	9.6	14.8	15.7	18.5	18.8
31	17.3	***	16.3	***	13.9	***	6.8	10.5	***	17	***	18.8
Avg	18.1	18.8	16.8	15.3	12.6	10.8	9.1	11.1	13.5	13.9	14.7	17

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2008 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.7	18.9	20.9	15.7	10.3	10.7	6.3	10.1	6.3	10.8	15.1	12
2	20.9	17.6	17.2	18.3	9.4	11.1	5.2	10.2	4.8	12.3	17	17.7
3	16.4	19.8	19	16.6	11.7	12.8	7.3	10.4	9.9	11.5	13.3	17.8
4	17	18.4	20.4	15.7	15.5	13.5	7.4	11.3	7.6	12.9	12.3	16.9
5	16.8	16.8	19.8	17.4	14.3	12.4	7.9	13.8	11.7	12.7	15.6	16.8
6	18.6	20.8	19.4	13.9	11.7	8.4	12.5	9.9	9.6	13.9	17.3	15.7

7	18.3	17.7	20.5	11.5	13.8	10.7	12.4	11.1	9.8	16	14.7	16.6
8	15.6	17	19.9	12.7	12.1	9.6	10.2	10.4	11.5	16.1	12	18.3
9	14.3	18.6	20.1	12.8	16.4	8.6	11.3	11.5	11.9	14.3	11	17.9
10	16.3	18.3	19.7	14	14.2	12.3	10.2	9.7	11.2	13.3	14.4	19.3
11	18.6	19	17.8	18.5	12.6	11.7	8.6	4.7	9.4	8.8	16.9	19.2
12	20.5	16.4	15.3	16.8	15	10.7	8.7	7.3	8.5	14.6	15.4	16.3
13	19.9	13.7	14.9	15.2	14.2	8.5	9.6	15.1	12.7	14.9	17.2	16.7
14	19.9	17.9	13.7	15.5	13.8	17	4.7	13.9	15.9	13.6	17.6	17.1
15	20	19.1	13.9	12.9	17.1	13.8	12.9	14.9	14.1	15.8	16.7	15.6
16	18.3	19.2	12.2	13.9	15.1	14.1	11.3	11.2	12.2	16.2	15	18.5
17	15.9	19.9	13.3	12.7	12	15.2	8.3	10.6	11	13.7	15.1	16.9
18	15.7	20.5	17.5	12	16.4	14.5	9.9	10.8	10.2	13.5	14.4	20.3
19	17.4	20.5	14.8	13.3	16	13.7	12.3	11.9	10.5	15.6	13.8	20.2
20	17.5	21.1	15.8	11.7	16.4	12.6	9.8	16.1	8.6	15.8	15.3	20.9
21	20.9	20.3	15	11.9	16.2	13.1	10.7	15.3	8.1	15.6	20.5	20.9
22	20.2	18.9	15.9	11.3	13.1	12.2	9.3	13.4	12.3	12.4	18.8	17.6
23	18.4	19.8	17.5	9.2	14.8	9.7	12.6	15.2	8.5	12.1	16.5	17.1
24	18.4	21	17.3	12.6	14.6	9.8	15	12.9	12.2	12.6	15.1	13.3
25	18.3	21.1	18.3	16.1	12.4	7.3	9.6	10.3	11.2	12.6	16.3	12.5
26	21	18.8	14.8	15.6	14.9	9	14.2	9.1	12	12.6	15.7	12.8
27	20	18.7	14.4	15	11.4	12.4	12.3	8.5	10	15.3	18.5	17.7
28	19.3	19.2	16.6	12.1	15.1	10.3	10.2	11.2	7.4	14.2	16.9	19.4
29	18.2	16.8	15.7	11.1	16.7	8.6	10	8.3	10.3	15.7	17.4	15.9
30	16.6	***	18.4	11.1	13.9	6.1	10.5	9.1	12.5	15.3	12.8	17
31	18.4	***	16.1	***	11.2	***	9	8.8	***	11.9	***	19.1
Avg	18.3	18.8	17	13.9	13.9	11.3	10	11.2	10.4	13.8	15.6	17.2

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2009 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.7	17.9	19.5	17.2	12.3	13.9	11.6	12.7	14.3	14.3	16.1	14.1
2	18.8	19.1	19.2	16.6	9.3	11.1	14.2	11.7	12.9	13.1	14.8	14.3
3	19.7	18.2	18.8	17.6	10.1	13.3	12.3	8.2	10.4	15.4	14.4	15.2
4	17.7	16	17.2	18.4	10.1	11.6	12.6	16.6	9.3	17.6	17.7	15.4
5	18.2	17.7	18.1	17.5	16.8	11.7	11.2	11.4	14.8	16.5	16.5	15.2
6	18.3	19.7	20.9	17.4	16.1	12.9	9	10.4	12.8	14.1	14.8	17.2
7	19.5	20	20.4	15.3	15	12.2	12	13.5	13.1	14.9	15.4	17.6
8	20	19.8	18.3	16.9	15	12.7	7.8	10.5	13.3	13.2	18.5	17.9
9	18.8	20	18	16.3	15.5	11	16.3	14.9	10.5	13.8	13.7	15.3
10	18.6	19.1	18.3	16.3	12.8	10.1	17.3	13.3	9.3	13.4	13.5	15.8
11	18.5	18.1	17.4	15.3	14.3	14.2	15	12.9	9.9	17.7	12.7	14
12	20.6	17.9	18	17.1	13.3	13.6	11.3	12	5.9	12.7	16.2	15.3
13	21	19.8	20.8	14.9	15.1	13.9	11	12.2	7	13	15.2	13.7
14	19.4	17.7	19.3	14.2	13.3	13	9.4	9.9	13.1	12.7	14	12.8
15	18	16.4	19.4	13.7	14.5	9.8	6.1	10.2	12.6	16.8	13.1	15
16	19.6	15.6	16.5	16	13.6	12.6	9.4	12.8	9.2	15.7	10.1	17.1
17	18.3	14.9	13.1	14.8	13	9.6	9.2	14.1	14	15	11.3	16.4
18	16.2	18.6	12.1	17	10.8	10.9	6.1	14.1	10.9	14	14.8	15.8
19	15.5	18.6	13.4	16.2	8.9	15.7	10.2	11.1	10.4	12.5	14.3	16.3
20	15.4	19.7	12	12.3	10.6	15	12.4	7.1	8.3	13	14.2	17.3
21	15.7	20	14.4	12.4	14.2	13.4	13.9	5.5	12.7	12.4	14.6	19.6
22	17.3	17.6	15.4	13.7	12.1	11.4	10.2	10.4	12.9	14.5	16.4	17.6
23	17.4	17.1	15.4	16.5	10.9	11.1	6	10.5	13.7	15.2	17.4	17.6
24	14.2	18.7	16.2	16.4	14.3	11.3	8	9.9	14	13.7	17.9	16.5
25	16.4	20.1	18.4	14.9	13.9	8.4	8.8	10.6	13.9	15.8	16.5	16.3
26	21.2	21.1	17.1	14.2	14.9	7.1	11.1	10.3	13.5	15.5	15.2	17.1
27	17.5	17.6	19.9	15.7	13.1	10.9	11.1	8.9	11.6	16.9	12.8	15.8
28	16.4	20	15.8	15.2	13.7	9.4	8.2	7.3	10.3	15.1	11.2	15.9
29	17.6	***	14.3	17.4	10.7	8.6	17	9.8	10.3	13.1	14	16.2

30	18.7	***	18.7	14.7	8.9	6.3	14.6	11.3	10.1	11.5	15	18.6
31	19.4	***	17.9	***	10.9	***	16	13.2	***	10	***	16.9
Avg	18.2	18.5	17.2	15.7	12.8	11.6	11.3	11.2	11.5	14.3	14.7	16.1

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2010 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.3	18.9	14.2	19.4	16.4	10	9	15	12.5	15.7	16.7	13.9
2	19	17.6	18.2	17.5	14.7	8	9.1	13.7	12.9	13.8	17.7	16.2
3	19.8	18	18	15.4	14.6	12.6	16.4	13.3	11.5	16	18.4	16.9
4	17.4	19.5	17.5	15.4	16.2	12.5	15.3	14.8	11.5	14.4	15.8	15.4
5	17.3	19.5	20.6	15.1	12.7	13.2	15.9	17.3	9.1	14.3	14.7	16
6	18.1	20.2	17.6	17	14.4	10.7	13.8	14.8	12.9	16	15.4	14.2
7	18.7	20.6	18	16.6	11.7	10.4	10.4	14.4	10.3	17.7	14.6	13.1
8	17.7	21.4	19	15.9	11.4	11.9	9	13.2	10.3	14.7	16.8	12.8
9	17.7	21.7	19.2	17.7	15.1	12.6	16.8	9	15.1	12.2	15	15.3
10	20.1	20.3	18	12.4	11.2	11.5	14	8.7	12.9	15.5	15.2	18.4
11	19.9	20.2	19.8	12.8	12.3	11.4	9.8	7.3	12.2	11.8	15.3	16
12	17.4	21.1	20.6	11.6	11.1	11.7	6.2	8.8	9.5	10.8	14.7	14.3
13	20	20.6	18.2	13.8	14.5	11.6	6.2	12.2	14	11.7	13.6	16.4
14	14.8	18.9	17.5	16	16.8	9.4	10.5	10.1	16	12.7	14.2	16
15	16.2	21	17.4	18.1	15.5	5.4	10.4	13.6	11.2	11.9	17.2	14.3
16	14.5	18.4	15.3	17.6	15.8	9.6	8.2	13.1	10.8	11.5	16.9	14.9
17	11.8	16.2	16.3	17.5	16.4	9	4.2	12.7	10.4	12.1	15.1	16
18	19.4	17.3	15.5	15.4	17.9	7.2	6	10.3	14.6	14.9	13.5	16.1
19	18.6	17.5	15.1	14.2	17.9	13.1	9.1	9.4	16.9	13.6	16.5	19.6
20	18.8	19.6	16.8	13	14.5	9.8	7.6	8.3	17.1	9.6	18.5	19.4
21	19.8	21	20.7	12	14.9	8.5	12.3	9.5	13	14.5	17.6	20

22	19.9	22	17.1	13.2	16.9	12.8	13.3	11.5	12.9	14.3	16.5	18.8
23	20.2	21.6	18.7	10.8	13.2	11.6	13.6	6.9	12.8	13.2	14.6	19.4
24	19.8	21.5	19.2	7.7	14.9	7.8	9.5	7.6	14.3	14.9	14.5	18.7
25	19.5	20.2	18.8	9.3	15.3	9.7	12.4	12.6	13.3	13	16.1	18.3
26	20	17.3	20.4	11.9	14.5	10	8.4	10.9	14.4	13	19.4	17.5
27	19.3	15.9	16.5	16.9	15.7	13	8.4	8.4	12.2	14.1	17.2	16.9
28	16.7	14.9	14.8	17.1	11.3	12.3	13.2	7.1	11.3	14.1	16.6	19.4
29	15.4	***	16.1	15.5	11.2	16.7	8.4	11.9	10.9	13.2	14.7	18.2
30	16.9	***	18.1	13.7	10.7	11.5	9.5	16.1	14.4	13.7	14.8	17.8
31	18.8	***	17.3	***	8.7	***	9.4	15.5	***	16	***	17.7
Avg	18.2	19.4	17.8	14.7	14.1	10.9	10.5	11.5	12.7	13.7	15.9	16.7

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2011 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.9	20.4	19	18.8	11.7	7	10.8	6	12.9	12.4	12.8	17.9
2	18.3	20.3	18	16.1	15.1	5.1	6.4	11	11.2	13.9	13.9	16.9
3	19.3	20.5	20.3	15.7	17.1	9.6	8.5	12.3	8	11.4	12.3	15.3
4	18.5	21.4	20.3	14.7	15	10	9.3	15.9	8.8	9.7	15.8	13.8
5	19.6	21.4	21.1	14.1	16.3	12.3	10	8.9	10.5	9.6	13.7	17.4
6	19.7	18.4	16.9	16.8	16.6	10.2	11.4	8.9	8.4	9	13.6	17.7
7	19	19.1	18.4	14.8	15.6	12.5	11.9	6.4	10.4	9.2	13.3	18.1
8	17.6	21.5	18.5	14.6	14.4	13.1	10.4	6.3	14.6	13.8	16.2	13.3
9	15.9	21.2	18	14.2	12	11	9.8	11.4	13.6	16.6	14	13
10	17	20.3	18.8	16.7	14.4	14.5	8.5	10.8	11.2	17.7	13	15
11	16.9	19.1	17.6	16.3	12.6	12.2	5.3	6.5	13.9	16.4	12.8	15.5
12	18.8	18	18.3	18.1	11.4	12.2	7.8	8	14.8	16.6	15.1	13.1
13	17.4	20.6	17.6	19.3	14.7	9.6	7.1	9	15.3	17.4	14.6	16.2

14	18.4	20.4	17	17.7	13.3	9.3	5.8	9.4	14.8	16.7	12.5	15.8
15	16.8	20.4	18.2	16.7	12.6	15.9	8.1	8	12.8	14.6	13	14.7
16	19.2	18	19.3	16.1	11.3	8.5	10	7.7	9.7	14.4	13.8	14.5
17	17.9	19	19.5	15.3	14.2	10.8	11.5	10.4	10.6	13.9	16.3	18.9
18	19.5	18.7	20.5	13.4	12.1	9.4	6.1	11	14.3	15.9	16.6	17.8
19	19.5	18.5	19.5	14.1	12.1	11.1	10	11.6	10.7	14.3	16.6	18
20	18.7	17.1	19.2	15.8	10.4	11.1	10.2	8.3	9	13	18.7	17.2
21	17.3	17.1	18.8	13.3	9.8	12.5	8.4	7.6	11.5	12.2	16.4	17
22	18.6	20.5	19.7	14.9	11.5	6.6	8.5	13.6	12	13.8	13.5	17.8
23	18.6	19.5	20.1	13.9	16.6	12.6	12.4	14.5	12.5	14.8	13	15.6
24	18.8	18.8	18.1	15.7	13.4	9.9	9.7	12	12.9	12.9	12.4	15.8
25	18.3	19.2	17	15.1	12.1	11.6	7.7	9.4	13.4	13.2	12.1	19.3
26	18.2	17.7	15.6	11.1	11.7	11.2	10	11.1	14.5	14.4	11.6	20.9
27	16.3	19.6	13	8.7	10.5	8.9	7.9	11.8	13.2	14.8	16	20.5
28	13.5	17.4	15.5	11.2	7.6	7.4	11.8	10	12.2	15.2	12.8	17.1
29	18	***	17.7	8	10.1	6.2	10.8	11.9	13.4	15.4	14.2	15.2
30	19.4	***	16.7	13.5	8.2	8.9	10.5	12.2	12.5	14.3	15.6	15.5
31	20.7	***	18.9	***	10	***	7.9	12.5	***	14.5	***	18.5
Avg	18.2	19.4	18.3	14.8	12.7	10.4	9.2	10.1	12.1	13.9	14.2	16.6

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2012 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.9	***	18.9	13.3	15.4	11.5	8.9	9.1	10	10.6	10.4	16.3
2	17.5	***	21.5	14.1	15.1	11	11.9	8.4	8.1	15.3	8.8	19.9
3	19	***	20.9	13.1	14.7	11.5	10.6	6.1	9.7	13.3	12.9	17.4
4	19.6	***	18.4	14.6	13.1	9.2	9.5	12.5	8.8	13.6	13.9	17
5	17	***	17.5	17.6	12	15.3	6.8	12.9	9.8	13.1	18.1	16

6	19.2	***	16.9	19	14.8	9.1	11.2	9.1	12.9	13.8	15.9	17.2
7	18.5	20.6	17.5	16.5	13	7	11.3	9.2	14.9	14.1	15.7	17.2
8	21.8	19.3	17.1	12.6	15.5	13.9	10	11.1	15.2	12	14.3	19.3
9	21.5	17.6	21.8	11.9	16.5	11.2	7.9	8.4	14.3	15.4	14.1	16.5
10	21.1	16.7	20.6	13.4	14	9.3	8	5.1	12.3	13	13.7	16.6
11	20.7	14.8	19.9	14.6	15.2	4.6	5.9	12.2	10.5	10.8	16	17.6
12	23.2	16.2	20.1	12.2	15.2	6.3	8.4	9.2	12.8	12.5	17.6	16.5
13	21.4	17.2	18.2	14.6	15	11.3	9.7	9.4	14.1	11.5	15.7	17.7
14	20.4	19.5	18.8	14.9	14.4	11	9.9	12.3	12.6	14.1	14.6	17
15	20.4	18.8	18.9	16.4	12.5	12.6	9.9	12.7	12.4	17.1	16.4	19.8
16	21.1	20.6	19.2	15.6	10.7	12.3	10.6	7.4	12.6	16.5	15.8	17.6
17	20.2	18.9	14.8	15.8	13.3	12.4	10.8	7.9	14.3	17.3	14.9	15.8
18	20.7	18.4	13	15.7	12.9	13.9	10	9	14.2	13.4	15.7	15.6
19	20.5	19.7	13.8	15.1	8.8	13.6	7.6	15.6	11.3	11.4	13	17.7
20	19.2	21.3	17.9	13	9.4	12.4	10.4	12	9.5	11.9	15.5	18
21	19.4	19.2	18.1	14.2	11.1	11.3	13.3	12.5	15	14.1	15.4	17.5
22	20	19.7	17.3	12.6	10	13.1	9.7	12.5	11.1	13.2	14.9	17.1
23	18.9	17.6	20.2	11.5	15.8	13.1	9.5	12.7	8.8	13.3	14.1	16.9
24	18.5	16	18.5	10.6	13.6	10.9	7	12.7	10.9	13.2	14.5	20.9
25	16.6	18.3	17.1	12.6	15.7	10.3	5.9	13.2	11.3	14.3	12.2	19.3
26	15.8	19.5	17.1	14.9	13.8	8.4	8	12	15.9	12.8	12.6	19.9
27	16.6	18.1	17	13.3	10.2	10.3	11.4	8.7	15.7	12.3	14.2	19.9
28	18.3	20.9	18.6	13.1	13.4	8.8	10.1	13.2	11.5	14	14.1	18.8
29	17.9	19.1	18.4	14.8	14.4	8.5	8.2	12.8	11.4	15.2	16.3	18.6
30	***	***	16.1	15.1	13.1	7.4	7.4	14.6	11.4	13.3	16.4	20.2
31	***	***	14.9	***	10.3	***	5.8	14.6	***	13.6	***	18
Avg	19.4=	18.6=	18	14.2	13.3	10.7	9.2	10.9	12.1	13.5	14.6	17.9

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2013 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.6	18.1	15.6	18.9	11.5	14.5	12.5	7.6	11	12.6	12	14.9
2	16.4	19.8	16.6	16.2	15.5	12.5	13	9.1	7.9	17.6	14.7	16.3
3	17.6	17.5	14.6	14.7	13.3	10.8	12.3	8.5	13.7	16.2	14.2	16.9
4	15.6	15.6	18.3	13.9	11.6	12.1	11.2	11.7	10	14.5	12.5	17
5	15.4	15.5	18.8	11.7	11.1	11.1	13.6	7.6	10.6	14.3	16.9	15
6	16.5	17.2	18.9	14	11	7.7	12.2	9.3	10.9	13.2	18.6	14.5
7	20.8	18.4	16.6	13	8.4	5.7	11.5	12.2	11.8	12.5	15.5	12.1
8	20.9	16.7	19.1	15.4	11.7	9.3	12.4	10.7	13	13	15.9	14.6
9	19	19.3	15	14.3	12.2	8.7	12	10.7	12.4	10.3	15.1	19.3
10	17.3	19	13.6	12.1	11.1	5.6	14	9.8	11.5	12.2	13.6	14.8
11	15.6	19	15.9	12.2	12.3	5.4	10.4	10.1	10.4	14.9	14.6	14.6
12	15.8	18.1	18.8	12.9	9.6	14.2	15.6	11.6	9.5	12.3	14.8	15.6
13	17.6	20.5	17.1	15.2	9.6	11.5	14.6	11.1	13.6	11	19	16.5
14	19.7	16.9	17.5	14.7	11.6	9.1	13.6	9.8	12.2	11.9	19.5	17.8
15	18.7	16.6	17.6	16.9	15.6	10	13.9	7.1	13.2	13	17.4	17
16	18.6	16.9	17.2	14.3	12.7	9.3	12.1	13.4	12.1	14.6	17.5	16.6
17	20.8	19.6	18	20	10.5	10.1	10.8	10.9	13.8	12.3	15.5	14.9
18	20.4	19.8	16.5	13.4	9.1	5.7	13.8	9	14.5	12.1	16	13.3
19	18.8	17.3	16.4	12	8.8	13.8	10.2	11.3	16.1	10.3	15.9	16.1
20	18.5	15.7	14.4	14	12.5	10.5	10.2	7.7	11.3	13.3	17.9	16.7
21	19.9	14.8	16.2	14.6	12.4	9.3	11.8	11.1	8	12.4	15.3	19.6
22	17.5	13.6	19.1	14.5	13.9	12.2	10	9	9.1	11	16	19.1
23	18.7	17.6	16.6	12.8	15.5	13.1	11.4	5.3	11.2	10.6	15.5	20.3
24	20.4	14	16.5	15	11.8	15.9	9	6.7	14	13.4	14.9	20.1
25	18.1	16.9	16.9	15.2	12	13.2	8.5	9.4	11.2	16.8	17.8	19.3
26	17.5	19.5	18.1	13.7	12.9	11.5	10.5	14.1	12.1	16.2	16.8	19.5
27	16.6	19.2	20	13	13.9	8.2	12.3	13.2	13.9	16.4	14.9	19.8
28	18.3	16.3	17.4	17.4	10.7	8.9	8.8	10.6	10	17.7	14.2	18.3

29	19.4	***	17.8	14.6	9.9	8	9	10.6	10.3	17	14.9	17.6
30	20.5	***	16.6	14	8.9	6.2	11.3	8.6	11	16.4	15.7	18.8
31	19.1	***	17.3	***	8.7	***	5.8	6.7	***	12.2	***	19.2
Avg	18.3	17.5	17.1	14.5	11.6	10.1	11.6	9.8	11.7	13.6	15.8	17

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2014 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.8	20.9	18.5	18.1	12.2	12.6	18.2	15.3	11.9	***	***	17.3
2	21	18.7	16.9	13.9	11	9.7	15.1	15	11.7	***	***	17.1
3	20.1	17.8	19	12.6	13	9.6	14.8	14.4	9.9	***	***	17.9
4	21.5	18.6	19.1	14.7	12.5	8	16.2	13.2	15.9	***	***	17.9
5	19.5	18.5	19.6	14.7	13	7.9	9.5	12.4	12.2	***	13	16.1
6	21.1	19.4	19.8	16.4	13.3	7.5	6.5	7.7	15	***	14.5	12.9
7	23.1	20.3	19	17.1	14.6	7.9	7.3	13	11.1	***	14.6	17.1
8	22.3	18.7	19.6	18.7	19.3	7.7	8.2	14.3	14.5	***	15.2	19.3
9	17.9	18.9	16	17.9	11.6	13.1	6.1	15.3	14.3	***	16.4	17.9
10	17.7	17.7	16	15.7	12.8	7.9	9.9	17.2	14.7	***	16.6	18.3
11	16.5	20.3	18.7	14	12	6.6	3.6	16.8	14.4	***	16	17.4
12	17.8	21.4	15.3	13.3	12.4	4.2	11.6	12.9	13.1	***	16	18.6
13	16.9	21.9	14.2	14	14.6	7.5	12.6	15.7	11.2	***	13.4	15.3
14	15.7	22.4	12.5	19	14.8	14.6	9.9	13.4	15.4	***	12.5	16.7
15	19.3	22.4	13.8	15	14.1	9.2	7.9	11.7	13.7	***	13.1	16.4
16	19.7	20.2	17	13.9	13.3	10.9	12.3	11.2	13.5	***	12.1	16.4
17	18.3	21.4	15.6	13	12.9	8.9	15	13.5	18.3	***	12.6	15.2
18	17.1	21.2	14.1	13	10.2	10.5	10	15.8	***	***	10.6	15.7
19	17.5	23	17.6	15.1	11.4	9.6	12.2	13.9	***	***	13.8	18.6
20	19.2	18.2	16.1	15.6	15.3	10.9	10.6	13.3	***	***	13.7	18.4

21	19.9	17.3	15	18.2	13.1	10.7	8.3	10.4	***	***	12.3	17.5
22	20	16.8	19	15.9	12.3	6.6	8.5	11.8	***	***	14.7	18
23	19.6	19.1	18.9	14.5	13.3	15	11.1	12.3	***	***	19.3	18.1
24	20.8	17.4	18	13.6	17.1	9.2	9.2	11.4	***	***	17.6	17
25	18.8	17.8	19.6	13.2	13.5	15.1	13.7	9	***	***	17.8	15.6
26	17.8	18.1	15.8	12.1	12.3	12.2	9.9	8.9	***	***	17.8	17.1
27	20.2	18.3	15.1	12.1	10.2	11.2	11.4	9.4	***	***	16.5	17.6
28	20.1	19.5	17	10.4	15.6	9.1	9.3	8.1	***	***	14.3	19
29	20.5	***	16.1	13.1	13.2	7.3	9.8	8.3	***	***	14.5	18.3
30	19.5	***	16.9	13.9	12.5	12.9	9.1	9.3	***	***	17.9	18.6
31	17.5	***	17.4	***	11.3	***	16.8	11.1	***	***	***	17.7
Avg	19.2	19.5	17	14.8	13.2	9.8	10.8	12.5	13.6=		14.9=	17.3

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2015 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.1	15.4	18	16.8	14.2	14.3	8.5	4.6	14.4	11.6	13.6	17.3
2	17.6	14.9	15.5	18.2	12.3	16.3	8.5	5.3	12.6	11.6	10.1	19.6
3	18.7	18.1	15	17.8	13.3	17.2	7.2	15.2	9.9	13.9	10.4	18.8
4	17.4	18.9	16.7	14.7	11.6	9.4	12.7	11.9	9.7	11.2	12.7	19.9
5	15.2	18.3	16.9	15.1	12.4	9.1	12.3	10.3	12.4	15.3	14.7	19.8
6	17.5	17.3	17.2	15.6	13.9	8.9	14.6	9.1	12.7	11.3	16.3	19.5
7	16.3	18.6	17.7	15.8	14.7	9.8	14.8	7.6	13.1	14.5	16.4	19.6
8	20.8	19.9	19.5	15.1	13.5	7.4	14.6	9.3	12	13	14.5	19.8
9	19.6	21.7	19.6	15.8	14.5	9.1	13.5	11.5	10.7	16.3	15.2	19.7
10	19.3	21	20.3	16.1	16.7	10.7	12.8	10.6	14	15.9	16.6	19.4
11	20.8	18.6	20.7	13.9	15.6	10.1	14.4	6.8	10	14.1	16.4	17.3
12	21.3	19.5	17.5	14.6	14.8	12.3	10.2	8.8	9.2	15.8	14.7	19.5

13	20.3	19.4	17.5	14.4	11.7	12.5	7.6	10.2	11.9	16.3	15.9	15.2
14	19.6	18.3	19.8	13.1	12.9	9.5	7.6	8	13.6	15.5	15.5	14.4
15	20.9	16.2	18.6	12.1	13.9	7.9	7.6	14.5	15.3	14	13.4	14.2
16	15.9	15.5	17.8	9.9	14.5	10.7	10.9	13.5	14.4	13.4	12	16.7
17	15.1	14.5	16.7	12.1	10.6	12.1	9.7	15.3	12.5	14.9	11.2	16.1
18	15.2	18.1	17	13.9	13.6	8.6	11.4	13.5	11.6	15.5	15	18.7
19	17.1	17.8	18.2	14	16.5	8.9	10.9	13.7	10.8	17.8	14.5	18.7
20	16.2	17	16.8	13.7	14.6	8.5	13.6	13.9	12.1	18.7	14.2	18.2
21	17.2	14.4	18.2	12.2	15.8	13.7	11.4	13.9	14.7	17.5	11.9	18.5
22	20	13.2	14.9	13.4	14.8	9.8	11.5	13.8	13.9	15	12.2	15.5
23	18.4	16.4	19.7	16.2	14.2	10	10.7	14.5	13.3	15.7	14.5	16.5
24	17.3	17.6	18.9	16.6	14.1	12.2	9.8	16.2	12	17.3	15.5	19
25	20.9	18.3	17.1	14.4	15.2	9.9	10.5	16	11.4	16.9	16.9	16.6
26	18.6	19	18.6	15.5	12.3	10.5	9.3	15.2	17.4	17.4	13.9	16.1
27	18.2	17.8	16.1	14.5	11.3	12.2	7	13.9	15.6	16	11.8	17
28	17.7	17	15.4	12	11.9	9.6	6	15.8	12.5	16.1	12.5	20.4
29	18.4	***	14.9	13.2	11.8	10.4	9.4	15.2	10.8	13.6	13.3	20.9
30	18.6	***	16.8	12.2	11.2	9.2	8	16	13.8	18.8	15.6	21.5
31	17	***	17	***	12.1	***	8.2	15.3	***	16.5	***	19.6
Avg	18.2	17.6	17.6	14.4	13.6	10.7	10.5	12.2	12.6	15.2	14	18.2

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2016 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.2	22.3	19.3	16.7	8.7	17.4	11.1	12.5	15.5	11.3	16.2	16.4
2	21.6	20.8	17.5	15	8.8	15.6	8.6	9.1	15.7	10.9	17	***
3	20	18	15.2	14.9	13.2	12.5	7.7	12	14.8	9.5	16.8	***
4	21.3	17.3	22.1	17.8	12.9	13.3	7.3	9.8	15	10.5	16.3	18.3

5	22.7	16.9	21.4	15.5	10	12.3	14.4	6.2	13	12.8	14.9	16.9
6	21.7	16.5	21.3	13.7	9.1	10.3	9	7.9	15.3	12.8	14.5	18.7
7	17.4	17.4	18.6	14.4	15	9	7.4	10.4	12.7	11	15	18.3
8	16.7	16.9	17.6	14	15.3	16.8	4.3	9.7	11.9	12.7	16.2	19.4
9	16.9	16.7	17.8	14.6	15.9	20.7	12.2	5.8	13.1	11.3	16.5	16
10	16.2	18.8	18.7	16.7	14.4	14.2	10.9	5.8	11.9	11.6	15.8	15.8
11	20.4	20.3	19.4	17.4	11.9	10.5	11.3	7.3	14.3	14.7	15	15.7
12	19.9	17.9	19.6	17	13.2	8.7	12.5	15.9	14	12.7	15	16.9
13	18.9	20.7	17.9	16.3	14.8	10.7	12.1	13	11.6	10.1	13.3	16.1
14	19.3	19.5	17.2	18.2	13.1	13.9	15	11.7	11.7	14.4	12	16.6
15	18.1	19.2	17.6	19.6	15.5	14.2	13.1	13.1	12.5	13.8	13.2	18.4
16	18.5	19.3	19.1	18.2	13	10.7	12.7	13.9	13.1	13.6	14.4	17.7
17	16.3	19.6	17.9	18.8	15.7	6.6	11.7	15.3	9.4	12.1	14.5	15.7
18	18.2	19.9	18.2	18.3	16.4	8.9	12.5	15.7	8.1	12.4	13.5	19.4
19	17.6	17.5	17.2	16.9	13.5	8.3	10.4	13.6	10.6	16.7	14.4	20.1
20	20.7	18.7	15.9	15.3	11.8	9.8	9.1	14.3	10.8	18.4	14.8	19.8
21	21	18.5	13.5	16.6	11.7	9	12.2	11.7	13.2	16.1	16.4	19.6
22	21.1	17.1	11.9	14.9	11.4	8.8	10.7	8.8	11.1	14.2	15.7	18.7
23	20.5	18.9	16.7	14	12.7	7.5	8.8	7.5	10.5	14.9	17.8	19.1
24	21.8	21.1	18.6	13.3	14	13.3	7.5	9.6	8.8	14.7	17.8	14.3
25	17.8	23	17.9	15.4	10.9	11.4	9.7	8	13.8	14.1	15.9	13.7
26	17.8	17.5	19	14.2	10.6	8.8	12.2	12.9	15	13.5	14	18.1
27	19	16.7	15.7	12.6	11.5	13.1	12.5	11.8	14.9	15.6	17.4	17.3
28	19.3	14.8	14.2	13.2	9.7	9.4	9	17.2	8.9	18.6	18.4	18.4
29	15.3	17.9	11.3	11.1	14.8	6.9	15	13.8	8.5	17.1	17.5	17.4
30	21.7	***	19.6	11.1	16	6.7	13.1	14	13	13.8	14.8	17.8
31	21.8	***	18.9	***	17.3	***	12.3	16.5	***	13.7	***	18.8
Avg	19.3	18.6	17.6	15.5	13	11.3	10.8	11.4	12.4	13.5	15.5	17.6=

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2017 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.5	19.6	19.3	17.5	16.6	10.3	13.3	16.1	12	16	19.5	17.7
2	20.6	18.5	18.7	18.7	16.1	14.6	10.6	12	10.9	17.9	19.8	18.8
3	16.2	17.2	18.9	16.3	15.2	19	13.1	9.8	12.4	16.8	19.5	17.6
4	16.2	20.3	18.7	17.3	15.8	14.6	11.5	14.1	13.7	11.7	17.9	16.9
5	18.8	16.1	18.3	18.8	12.6	13.3	9.5	12.8	14.6	10.6	15.8	16.6
6	18.5	18.1	16.6	15.7	15.1	13.4	16.1	11.2	14.8	8.6	14.4	16.2
7	16.5	19.4	19.6	16.7	11.6	17	12.3	11.1	12.1	12.7	12.2	17.4
8	15.8	20.2	20.6	18.9	12.8	8.2	17.4	9.3	13.3	13	11.7	17.9
9	17.5	18.7	15.6	17.6	14.2	6.3	13.9	13.2	15.3	12.9	13.6	15.2
10	18.6	18.7	14.2	19.3	12.8	14.5	9.6	13	14.5	10.3	15.9	14.6
11	19.7	21.5	15.6	16.9	14.6	12	6.4	10.1	15.1	10.2	16	14.3
12	20.3	20	15.7	17.3	13.1	9.7	4.4	10.7	15.1	12.1	16.9	12.6
13	17.4	19.6	17.9	15	11.7	9.6	8.5	10.5	16.2	12.3	17.5	15.9
14	17.6	18	19.6	12.4	10.2	12.2	6.3	9.3	13.5	13	17.2	13.6
15	18.8	21.2	17.1	11.3	13.6	12.7	10	9	12.6	13.1	12.8	10.7
16	13.8	20.5	14.6	12.8	16.1	9.4	9	9.5	13.1	10.8	11.5	16.7
17	12.8	21.2	15.8	15.5	12.4	8.1	5	9.2	13	9.6	11.2	18.4
18	17.1	17.3	18.1	14.9	11.4	9.3	4.5	9	14.8	10.6	9.2	16
19	18.4	17.3	17.5	14.5	11	13.7	7.1	8.9	14.5	10.6	12.3	14.4
20	17.2	17.3	17.4	13.7	12.5	10.3	9.9	11.3	15.8	11.5	17.2	14.6
21	13	17.5	16.5	12.2	11.5	8.5	9	13.6	17.1	11	14.2	16.2
22	19.1	17.6	20.1	9.6	14	6.8	6.6	11	14.5	14.4	13.3	19
23	17.9	16	18.2	12.6	9.8	8.4	9.3	10.6	12.9	16.2	12.3	17.4
24	19.7	19.6	14.4	14.9	16.8	5.8	10.6	8.8	12.6	14.6	12.7	17
25	17.5	17.2	13.8	13.7	13.9	8.5	9.1	8.2	12.8	15.7	11.5	14.9
26	16	14.9	13.9	13.8	13.3	7.4	9	6.8	11	***	15	13.4
27	16.7	14.3	14.3	16.4	13.7	16.4	8.7	11	10.3	11.1	13.9	15.2

28	15.7	17.9	16.9	15.1	13.3	11.3	11.2	12.4	11.7	9.6	13.2	17.9
29	16.8	***	14.4	14.7	9.5	9.2	14.7	15	10.8	12.7	15.7	16.8
30	16.6	***	16.6	15.9	13.4	7.2	14.6	13.1	13.9	16.3	16.5	19.3
31	19.1	***	18.3	***	16.3	***	14.5	12.7	***	17.5	***	18.8
Avg	17.4	18.4	17	15.3	13.4	10.9	10.2	11.1	13.5	12.8=	14.7	16.2

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2018 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.4	16.9	19.2	18.6	13.3	11.2	12.4	11.2	14.4	17.3	9.9	17.7
2	15.1	17.9	18.7	20.1	15.7	9.9	10.8	10.4	11.9	13.5	11.9	16.1
3	15.1	17.2	16.6	18.8	13.9	10.3	8.2	7.5	11.3	8.9	13.1	17.6
4	17.6	17	15.6	18.9	12.1	11	3.9	11.6	11.3	8.7	13.5	15.9
5	18.1	16.4	18.7	18.4	9.2	10.5	6.5	10	10.9	10	11	17
6	17.3	20.5	19.9	17.3	10.8	11.3	11.6	7.2	8.8	10.7	8.9	18.3
7	15.4	19.1	19.4	15.3	13.8	13.9	9.6	9.8	8.5	16.9	11.6	18.8
8	18.3	19	17.2	14.3	16	12.3	7.8	9.3	8.7	17.2	11.4	16.1
9	15.2	18.6	16	17.9	14	10.6	12.8	7.1	10.5	16.3	9.8	14.4
10	14.2	17.8	16.6	15.7	11	10.7	15.2	9.7	9.8	14.5	14.3	14.5
11	17.4	17.5	17.9	14	10.7	9	16.5	9.5	7.6	15.8	18.3	15.4
12	19.1	19	18	14.5	14.8	9.6	16.7	9.9	9.4	12.4	18.6	16.2
13	19.6	20.2	19.4	16.1	14.7	15.2	11.4	10.5	11.3	11	18	17
14	20.1	19.6	19.1	17	12.6	16.9	10.2	10.5	8.7	13.4	18	19
15	17.1	16.6	14.6	15	11.9	11.7	9.8	12	10.4	13.7	15.3	20.8
16	16.2	16.1	14.7	16.1	11	9.6	8.4	8.7	10.8	13.9	14.6	20.4
17	19.7	19.2	14.9	16.9	6.9	8.2	11.2	8.9	12.3	8.9	14.4	20.6
18	21	19.8	16.7	16.2	9.5	13.2	8.9	7.9	11.1	8.4	13.9	21.1
19	21.8	17.8	16.7	14.3	16.4	12.1	9.2	10.4	11.3	11.7	17.9	18.1

20	20.7	21.1	13.3	10.5	15.4	9.2	8.4	13	10.4	12.5	16.7	16.2
21	20	20.7	17.1	13	12.5	10.8	14.5	12.4	9.4	11.5	15	19.9
22	19.8	20.6	16.4	15.4	12.8	8.2	10.9	11.8	12	11.4	13.7	19.2
23	18.5	18.9	15.9	11	10.9	9.3	12.8	9.7	11.8	13	11.8	20.4
24	17.5	16.6	15.4	17	13.9	9.9	14.2	10.6	12.1	14.2	14.7	18.5
25	19.3	13.7	16.4	17.2	14.6	8.2	9	14.5	14.9	13.7	20.3	19.3
26	19	13	15.3	15.1	12.2	12.4	11.7	8.3	12.4	16.2	19.3	18.5
27	18.3	14.9	17.5	13.6	11.2	12.5	13.4	7.6	13.3	17.9	14.3	17.6
28	18	15	19.1	11.3	13.7	8.6	12.5	12.8	12.2	17.9	12.9	16
29	17.8	***	17.6	11	11.8	8.3	8.9	8.9	13.5	18.7	13.4	18.5
30	19	***	18.1	15.1	9.4	10.3	12	8.8	14.4	11.8	17.1	19.5
31	16.9	***	18.8	***	10.5	***	11.7	16.3	***	11.5	***	19.1
Avg	18	17.9	17.1	15.5	12.5	10.8	11	10.2	11.2	13.3	14.5	18

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2019 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.7	19.2	19.7	14.2	16.6	10.7	12.5	8	11.2	13.5	14.8	17.4
2	15.6	19.2	19.9	13.3	16.7	10.9	12.5	12.4	13.5	9.8	16.6	19.1
3	15.7	19.4	19.4	15.4	16.6	12.5	11.3	13	10.1	12.9	16.2	14.7
4	16.9	17.1	19.4	16.6	14.9	13.8	9	11	13.1	14.2	15.2	14.4
5	16.7	17.5	18.7	15	14.9	11.2	9.2	8.2	12.9	15.6	17	12.8
6	17.1	16.2	20.6	14.5	18.1	8.6	6.9	11.6	11.9	14.4	16.8	16.2
7	15.6	18.9	***	16	15.3	7.2	12.6	8.6	11.5	14.9	16	18.7
8	21.1	19.7	17.1	18.3	14.5	11.4	10.1	11.3	13.6	14	14.6	17.3
9	18.5	20.4	17.4	18.5	13	13.2	13.1	9.2	13.9	12.2	13.8	15.1
10	18.4	20.6	18.1	18.3	12.2	11.2	7.4	8.1	13.7	11.8	17.6	16.1
11	19	17.6	19.6	17.2	10.7	9.7	8.9	12.4	12.4	12.8	17.4	16.8

12	17.6	17.9	20.6	16.8	11.7	13.4	13.1	10.9	15.6	12.8	17.9	17.2
13	17.2	19.6	17.1	17.1	15.8	9.3	12.2	9.2	12.8	14.3	16.7	17.8
14	16.8	19.8	16.2	14.1	18	7.4	8	8.9	11.6	16.3	16.2	18.8
15	18.1	19.7	19	13.7	14.6	4.7	12.5	11.6	12.6	14.6	17.4	14.7
16	19.9	21.1	18.5	14.3	12.5	6.2	12.5	8.5	11.9	12.5	16.6	14.1
17	20.3	18.4	21.4	12	11.8	12.7	10.5	13	17.5	14.6	14.7	15.6
18	20.5	17.8	19.2	16.9	13.5	11	8.9	13.2	18.2	15.8	13.5	15.6
19	15.9	19.2	20.6	17.4	12.9	11.7	12.8	13.7	18	17.9	14.9	15.7
20	14.5	20.1	18.5	15.3	14	16.4	8.5	12.5	17.3	17.9	13.4	15.6
21	17.2	19.4	16.3	15	8.3	15.3	6.8	10.8	15.2	12	15.3	17.7
22	18.4	20	13.4	15.5	6.6	12.1	4.9	8.9	11.7	11.2	15	16.3
23	17	19.6	19.1	16.7	10.7	13.5	11	13.5	11.1	10.8	16.3	18.5
24	16.4	20.1	19.6	16.1	9.7	9.2	10.6	11.9	11.5	11.5	17.3	17.7
25	17.4	18.1	17.9	14.8	10.8	11.2	5.7	14.5	8.4	13.8	14.2	16
26	16.6	19.5	16.6	14.4	11.4	12.8	12.2	11.5	10.6	16.2	15.3	15.6
27	18	17.3	14.5	14.1	16.5	14.4	10.4	14.3	10.9	16.7	13.9	14.6
28	19.2	15.4	15.7	16.9	13.9	12.2	18.2	11.5	14.9	11.7	14.3	14.9
29	20.1	***	17	14.4	12.3	8.7	19.4	9.1	15.1	11.5	19.8	16.1
30	19.3	***	14.9	17.6	12.4	10.4	13.9	10.9	13.3	12.6	18.9	18.3
31	19.6	***	18.7	***	12.9	***	12.7	12.3	***	12.9	***	18
Avg	17.8	18.9	18.2=	15.7	13.3	11.1	10.9	11.1	13.2	13.7	15.9	16.4

Daily Minimum Temperature (C) Data for station [0059572B8] - EAST LONDON WO -33.0350 27.8160 134 m 2020 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.1	20.8	15.7	15.9	12.3	13.2	---	---	---	---	---	---
2	19.6	21.6	18.7	16.2	11.7	10	---	---	---	---	---	---
3	21.4	20.5	19.5	15.3	15	11.9	---	---	---	---	---	---

4	22.1	19.4	19.6	17.5	14.9	11.4	---	---	---	---	---	---
5	18.7	21.4	19.8	16.5	14.7	13.9	---	---	---	---	---	---
6	19.2	17.7	20.4	15.4	15.7	10.4	---	---	---	---	---	---
7	20.1	17.4	19.9	11.4	14.6	10.5	---	---	---	---	---	---
8	20.7	18.3	18.6	12.3	13.8	8.5	---	---	---	---	---	---
9	20.2	17.2	19.5	14.4	13.6	17.6	---	---	---	---	---	---
10	18	16.5	19.1	14.6	12.2	16.1	---	---	---	---	---	---
11	19.2	16.4	18.4	13.7	17.1	10.8	---	---	---	---	---	---
12	19.1	18.6	20.3	15.5	13.6	9.5	---	---	---	---	---	---
13	22.3	17.4	19.6	13.6	14.9	10.4	---	---	---	---	---	---
14	22.4	17.3	19.4	15.4	14.9	6.4	---	---	---	---	---	---
15	21.1	19.3	18.3	15.4	9.6	7.9	---	---	---	---	---	---
16	20.9	22.2	16	***	12.6	10.7	---	---	---	---	---	---
17	21.5	20.6	17.2	***	8.8	10.7	---	---	---	---	---	---
18	18.1	18.4	16.7	17.2	9.6	12.1	---	---	---	---	---	---
19	16.8	18	18.1	17.5	12.9	8.6	---	---	---	---	---	---
20	16.6	20.9	18.6	18.3	9.3	15	---	---	---	---	---	---
21	17	19.6	17.5	16.9	10.5	12.9	---	---	---	---	---	---
22	17.9	18.4	18.7	13.3	14.3	11.5	---	---	---	---	---	---
23	17.5	14.9	19.6	10.5	12.7	11.6	---	---	---	---	---	---
24	18.9	13.4	18.4	15.4	10.8	14.7	---	---	---	---	---	---
25	19.8	14.9	17.1	15.4	11.6	9	---	---	---	---	---	---
26	17.1	20.3	12.6	15.5	8.4	11.4	---	---	---	---	---	---
27	15.3	17.9	12.2	15.8	8.6	9.8	---	---	---	---	---	---
28	14.1	15.5	14.9	14.7	5.4	12.7	---	---	---	---	---	---
29	13.5	13.7	15.1	13	14.7	12.1	---	---	---	---	---	---
30	18.3	***	15.9	10.7	13.3	12.6	---	---	---	---	---	---
31	19.8	***	17.9	***	9	***	---	---	---	---	---	---
Avg	18.9	18.2	17.8	14.9=	12.3	11.5						

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2007 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.5	15.5	17.8	17.5	***	***	3.9	12.1	9.9	12.9	16.6	13.4
2	11.2	14.2	17.9	17.7	***	11.3	4.9	12	11.5	13.6	15.1	15.4
3	14.8	16.5	16.8	18.3	14.4	***	3.8	7.9	12.6	9.4	15.3	***
4	16.1	17.1	10.8	19.5	14.2	***	8.3	5.3	12.8	8.1	14.3	***
5	17.4	16.8	10	16.1	12.1	***	8.6	3.8	11.2	6.8	12.6	13.2
6	16.3	15.5	13.9	13.9	18.6	***	10.4	9.1	10.5	11.5	9.1	11.2
7	10.5	15.8	13.2	13.4	18.9	***	7.1	5.7	8.3	5.7	8.6	12
8	9.7	20.1	12.5	13.1	12.7	***	5.4	4.5	12.2	5.4	11.5	14.5
9	13.2	18.3	14.6	13.6	10.7	8.2	5.1	9.4	10.9	8.8	9.2	12.9
10	15.3	12.9	16.4	15.3	9.4	8.8	7	11.4	10.9	8.7	9.1	15
11	15.2	12	17.5	13.3	8.4	8.2	13.2	8.5	11.2	8.4	7.7	14.9
12	17.8	12.1	16.3	6.1	13.6	6.5	8	4.8	10	11.1	10.5	16.3
13	16.7	13.6	15.1	4.9	12.7	5.1	6.3	6.4	8.4	13.6	9.3	15.2
14	15.8	13.4	15.4	11.4	14.2	5.3	10	9.5	6.3	14.3	14.4	12.7
15	17.1	13.1	14.4	10.2	10.2	5.2	8.4	8.5	10.7	11.7	11.9	11.8
16	15.2	14.7	12.7	10.7	8.8	7.5	12.5	7.9	9	12	11	***
17	14.3	14.4	11.8	10.8	9.5	6.8	8.5	7	7.3	13.3	10	13.6
18	16.3	15.8	8.6	***	8.5	6.9	8.1	5.4	11.7	10.6	11.3	***
19	15.1	16.4	9.5	***	13.9	4.9	9.4	13.5	17.7	9.1	14.7	12.9
20	15	19.5	9.8	***	6.3	6.5	9.7	***	14	8.3	13.9	***
21	14.1	17.9	12.6	***	3.3	8.4	8.3	***	12	13.3	14.3	***
22	19.8	15.9	14.6	***	***	11.2	7	***	10.2	14.8	13.9	***
23	18.5	15.7	14.7	***	***	13.5	11	9	10.7	11.9	13.9	***
24	16.8	17.6	13.6	17.1	***	16.7	9	6.5	8.4	9.4	10	***
25	15.3	18.2	11.4	12.8	***	***	4	4.9	7.8	5.9	9.8	***
26	20	17.7	12.7	13.7	5.6	***	3.3	9.8	9.2	9.7	13.1	***

27	17.3	17.3	10.2	9.9	7.3	***	5	6.5	14.1	13.7	9.9	***
28	16.2	18.1	11.4	***	7.4	***	4.6	8.1	11.6	12.4	8.6	***
29	17.4	***	16.1	***	13.6	***	7.7	6.6	10.9	15.2	10.4	15.7
30	14.7	***	14.9	***	12.1	8.4	6.3	7.3	11.9	13.5	14.7	14.7
31	14.2	***	13.9	***	10.6	***	5.7	11.2	***	13.2	***	18.1
Avg	15.3	15.9	13.6	13.3=	11.1=	8.3=	7.4	8.0=	10.8	10.8	11.8	14.1=

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2008 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.7	17.4	18.4	13.9	8.8	6.8	4.6	6.9	5.3	6.7	13.6	11.2
2	17.4	15.8	15.3	14.2	8.3	6.8	5.2	4.4	5.8	10	12.9	16.1
3	***	16.9	16.1	12.8	9.1	10.2	6.6	7.2	7	9.3	9.4	14.9
4	***	15.3	17.2	15.4	11.3	8.5	6.9	7	5.9	8.3	7.5	***
5	***	15.1	16.8	15.5	10.2	9.1	7.6	9	6.8	8	12.4	15.5
6	***	19.4	17.8	10.6	12.6	9.4	9.2	8.3	5.4	11.1	14.3	13.8
7	***	14.9	20.4	8.9	13.1	6.4	9.3	7.2	9.6	13.4	11.2	14.3
8	***	14.4	19.3	7.5	11.3	5.9	7.5	5.5	11.3	13.4	8.5	16.7
9	***	16.3	17.7	10.1	13.5	3.9	6.4	6.6	8.1	9.7	9.6	13.9
10	19.2	16.4	18.5	***	13	8.1	4.5	6.6	5.7	8.2	11.2	17.9
11	18.3	18.1	16.4	16.8	11.4	9.5	3.3	5.5	3.6	10.3	13.5	16.2
12	17.7	12.9	11.8	14.8	10.7	6.6	2.6	11.4	4	11.7	12.6	15.5
13	16.6	11.5	13.1	***	11.3	9.7	4.5	10.9	9.4	12.6	14.9	17.5
14	16.6	15.7	12.1	***	9.3	14.5	5.8	9.5	13.9	9.1	14.6	15.6
15	17.6	15.6	10.3	***	14.5	15.4	13.9	11.5	12.2	***	13.9	14.4
16	15.1	16	8.5	***	11.9	11.1	5.4	6.3	6.7	***	12.8	15.2
17	13.6	17.3	10.9	***	9.6	11.2	4.6	6.1	6	11.7	12.5	18.2
18	15.1	18.5	15.1	***	13.2	11.4	8.6	7.2	9.2	10.4	11.3	17.1

19	17	18.1	***	***	17.3	12.6	13.2	11	6.5	11.9	11.2	19.8
20	16.9	18.1	***	***	17.4	***	11.9	12.7	5.5	12.8	12.6	18.5
21	17.6	18.4	***	***	13.6	***	11.6	14.1	4.7	13.1	18.3	18.1
22	18.8	19.1	***	9.1	12.4	***	13.3	9	6.1	8.2	16	***
23	15.9	18.8	***	8.3	***	10.3	12.4	10.8	9.2	8.7	14.7	13.4
24	16.1	18.4	***	8.5	***	7.2	10.8	***	6.8	8.8	13.2	10
25	16	17.8	***	11.3	***	6.6	10.5	5	6.7	9.4	14.2	8.4
26	19	16.5	***	9.8	***	11.3	11.5	***	8.3	9.8	13.7	11.1
27	17.3	16.5	17.6	11.2	13.7	7.8	8.8	***	5.7	15.2	15.5	15.2
28	16.6	15	15.7	10.3	13.3	***	6.8	***	5.2	12.9	15.8	16.3
29	16.1	15.1	13.4	10.1	14.8	***	5.9	***	10.7	13.9	14.1	14.5
30	15.8	***	14	8.2	10.8	6.5	9.3	***	8.7	11.4	12	14.3
31	17.8	***	14	***	7.8	***	8.3	***	***	11.3	***	14.3
Avg	17.0=	16.5	15.2=	11.4=	12.0=	9.1=	8.1	8.3=	7.3	10.7=	12.9	15.1=

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2009 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15	16.2	17.7	14.9	10.1	9.6	10.1	10	14	9.8	13.1	10.3
2	16.2	16.6	17	15.6	9	8.4	9.1	8.9	8.8	10.7	12.2	11.4
3	16.6	14.9	18	16	10	9	10	7.4	7.3	11.3	***	12.6
4	14.7	14.3	15.2	13.9	14.1	9.5	8	11.7	8.1	16.2	***	12.6
5	14.5	14.4	16.7	18	13.8	9.7	8.9	9.8	10.2	14.4	***	***
6	15.6	16.3	16.9	13.1	12.6	8.6	8.4	7.5	10.4	12.3	15.7	***
7	17.2	17	17.6	12.7	10.7	7.8	6.7	10.5	8.9	10.3	13	19
8	19.5	16.3	16.7	14.6	10	7.4	10.1	12.5	9.6	8.8	15.4	16.8
9	16.9	17.9	15.2	13.6	11.8	8.1	12.4	13.8	7.5	10.1	11.1	13.8
10	16.7	15.8	14.8	13.3	10.4	9	13.3	11.7	6.2	10.5	9.1	***

11	16.7	16	19.3	11.6	10.6	13	12.2	8.1	6.2	13.8	11.8	14.8
12	17.9	15	16.9	12.5	15.4	10.8	9.5	11	6.9	10.4	15.4	13.6
13	17.8	17.1	18.7	10.7	16.6	11.8	7.5	8.5	10	11.1	12.4	***
14	16.5	15.1	17.2	10.8	16.2	10.1	5.9	4.3	9	10.8	11	***
15	15.3	13.6	16.4	15.2	12.4	8.7	3.6	7.2	8.4	13.4	9.3	***
16	16.3	13.8	13.1	12.6	11.7	8.6	6.6	8.7	6.5	12.2	8.1	***
17	15	12.8	8.6	14.3	9.6	8.2	***	16.3	10.8	11.9	7.8	14.3
18	12	17.1	7.8	15.3	10.7	8.8	***	20.7	6.4	11.3	10.8	13.2
19	14	16.7	9.4	11.8	9.6	11.2	***	6.8	5.5	9	11.4	14.3
20	14.7	16.9	10.2	10	10	14.3	***	5	7.7	7.9	11	15.3
21	14.2	17.4	10	9.7	10.6	13.2	10.9	4.3	8.3	12.2	16.2	15.4
22	15.1	15.3	***	10.4	11.5	11.5	7.7	7.5	9.5	11.3	13.4	15.9
23	13	15	14.1	14.3	9.4	9	3.1	9.7	10.4	10.6	14.7	16.5
24	14.5	15.1	13.9	15.8	14.1	6.5	4.6	7.5	9.9	14.2	14.1	14.2
25	14.6	19.3	15.8	11.9	9.9	4.1	5.6	13	10.1	12.6	14.2	13.9
26	18.7	18.4	15.7	10.8	9.5	3.6	7.4	10.2	10	12.6	12.3	***
27	14.9	17.5	17.5	11.7	10.4	5.7	6.7	6.5	8.5	14.6	11.4	***
28	14	17.9	13.8	11.3	9.8	6.3	9.7	5.7	7.9	10.9	10.6	13
29	14.5	***	13.9	13.3	6.6	3	14	8.1	9	9.9	12.1	12.6
30	18.6	***	15.4	11.6	6.3	4.1	13.4	12.6	7.1	9	11.5	15.7
31	16	***	15.3	***	7.9	***	11.8	11.3	***	8.4	***	15
Avg	15.7	16.1	15.0=	13	11	8.7	8.8=	9.6	8.6	11.4	12.2=	14.3=

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2010 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.8	14.9	15.5	17.7	12.6	9.6	5	10.4	10.2	12.1	14.8	13.9
2	17.2	14.3	14.2	17.1	12.4	10.1	9.3	14.5	8.6	9.5	15.4	15.5

3	17.8	15	13.7	15.7	13.5	8.7	10.9	11.4	7.5	12.8	16.8	14.3
4	13.6	15.9	15.5	13.3	13.2	9.4	11.4	10.9	8.1	11.8	14	12.8
5	13.7	17	17.6	13.6	11.6	9	15	14.1	10.2	12.1	12.2	14
6	14	19.6	18.3	14.8	11.3	9	9.8	12.5	9.1	14.1	12.7	10.5
7	13.8	***	17.7	12.5	8.1	9.9	7.6	12.2	6.7	14.9	12.6	8.9
8	16.2	20.1	17.3	12.5	7.9	11	6.3	8.5	7.1	12.2	13.1	11.5
9	15.4	22.5	19.7	14.3	12	8.9	15.1	5.9	11.5	11.1	12.8	12.5
10	19.4	20.3	17.7	10.4	10.9	8.6	11	5.2	9.5	10.8	12.2	15.1
11	17.7	18.9	18.2	9.2	7.9	9.8	6.4	3.3	8.5	9.4	12.2	13.4
12	16.3	19.4	17.9	13	6.7	9.1	3.4	7.6	10.4	8.1	11	13.3
13	17.4	19	16.7	18.9	10.7	7.2	3	9.8	8.6	9.3	9.5	14.7
14	14.3	17.3	14.9	17.5	12.6	5	7.5	8.6	12.8	9.5	11.1	14
15	14.9	18.4	14.3	16.1	11.2	1.4	5.8	9.3	10.3	8.1	13	13.3
16	12.8	15.9	15.1	15.3	12.5	5.3	6.5	8.7	7.4	8.4	13.4	11.8
17	12	14.7	13.7	14.9	16.8	5	6.3	7.9	8.3	8	11.1	13.9
18	14.8	13	10.5	11.7	16	4.8	7.1	9.2	12.5	13.8	11	15.5
19	17.4	15.2	13.3	12.2	14.8	8.4	11.4	5.1	13.7	10.7	16.8	17.6
20	16	17.1	16.5	9.5	13	8.2	9.2	4.1	15.8	9.8	16.4	17.6
21	17.5	20.8	18.3	8	13.1	8.9	7.9	7.7	8.9	14.4	15.5	16.9
22	19.4	20	14.9	9.1	12.3	8.2	11.5	8	8.9	12	13.8	18.5
23	18.8	20	16.3	7.7	13.9	7.1	11.5	4.9	9.4	10.8	11.8	18.3
24	18.4	19.9	14.7	6.7	14.1	7.3	8.1	4	10.6	11.9	11.8	16.1
25	17.9	17.6	18.3	7.2	12.6	10.6	8.9	7.9	10.8	8.9	13.1	15.5
26	18.5	16.1	18	13.3	11.4	9.6	9.2	9.8	9.7	8.3	15.2	***
27	17.8	14.8	12.6	16.8	17.7	10.2	11.4	8.5	7.1	10.7	17.8	***
28	13.8	13.5	11.4	16	7.6	7.6	10.9	9.5	6.5	11.9	14	***
29	11.7	***	11.8	13.8	6.1	12.4	7.3	10.4	13.7	11.5	11.5	***
30	15.1	***	14.9	11.9	8.5	7.5	7.4	11.5	15	11.6	11.5	***
31	17.8	***	15.1	***	7.5	***	12.9	10.5	***	14	***	***
Avg	16.1	17.5=	15.6	13	11.6	8.3	8.9	8.8	9.9	11	13.3	14.4=

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2011 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	***	18	18.4	18.1	9.4	5.1	6.8	8	10.9	11.5	10.5	16.5
2	***	19.3	17.6	14	13.4	7.8	3.6	7.6	8.4	10.5	10.5	14.3
3	***	18.1	18.6	13.4	14.3	7.8	5.8	12.1	7.4	9.6	10.9	13.6
4	16.1	19	19	12.3	13	8.1	5.4	14.4	7.2	8	14	13
5	17.9	21.3	19.8	11.7	13.1	8.8	7.7	6.5	8.5	7.2	11.3	16.6
6	18	19.9	19.5	15.5	15.1	6.7	9	5.2	10.4	6.2	10.1	16.5
7	16.4	18.3	16.7	12.2	13.5	10.9	8.5	4.1	8.8	13.1	10	17.2
8	18.4	20.9	17.9	12.4	12.1	13.2	8.1	8.5	11.7	12.3	15.3	11.9
9	13.8	20	17.7	14.4	11.2	***	5.9	8.2	12.4	19.5	12.7	11.7
10	14.8	18.7	16.1	15	13.2	12.8	7.5	8.8	12.9	22.6	12	13.7
11	14.8	19.7	17.2	15.7	12.2	10.1	7.5	7.3	11.9	15.6	11.4	13.8
12	16.1	17.9	16.9	16.1	11.4	10.2	11.4	9.3	12.5	15.2	13.8	12.2
13	17	20.5	15.4	16.8	12.5	10	11.2	5.8	13.4	16.4	12.2	15.2
14	16.3	19.9	13.8	15.7	12.8	11.5	10.5	5.3	11.1	14.2	10.7	14
15	14.7	18.8	15.9	13.5	10.2	14.4	9.7	5.7	10.1	11.9	11.7	13.2
16	15.1	16.8	18.4	14.1	12	9.7	9.5	6.2	9.7	12.8	14.2	14.7
17	16.3	19.2	18.9	13.2	11.4	7.4	7.3	7.4	6.6	11.9	14.9	16.2
18	16.9	18.7	18.6	11.7	9.7	5.3	10.9	11.4	11.7	14.6	15	15.7
19	19	16.5	17.5	13.3	9.4	8.8	9.4	7.6	6.2	14.7	14.5	18.1
20	15.2	15.4	15.6	14.3	8	7.8	7.6	6.7	5.4	9.9	16.9	16.4
21	14.9	17.5	17.1	11.1	11.2	7.3	7.4	11.1	9.3	9.6	13	17.2
22	17	19.4	15.8	9.9	15.1	10.1	8.4	12.2	9.2	14.6	12.1	16.5
23	15.4	15.9	17.2	8.6	15.8	8.7	8.8	13.1	9.2	12.3	11.7	13.9
24	16.3	17.3	16.7	14.5	11.4	5.3	7.2	8.5	11.6	11.4	11.2	14
25	17.3	16.3	15.6	12.5	***	9.4	4.9	8.1	11.2	9.8	8.9	17.3

26	16.9	15.4	12.6	10.2	7	8.1	7.6	9.2	14.5	10.1	11.4	19.3
27	16	17	13.2	8.2	7.7	6.5	6.6	9.1	10.9	13.4	15	19.6
28	13.9	17	15.8	7.9	6.4	5.5	10.2	8.6	9.7	14	12.3	15.8
29	18.1	***	18.1	6.1	8.1	6.6	7.8	10.1	12	12.8	12.1	14
30	20.8	***	16	10.1	8.4	8.9	7	17.5	10.7	12	17.3	15.2
31	19.8	***	19.5	***	8	***	7.2	11.4	***	10.7	***	17.5
Avg	16.5=	18.3	17	12.8	11.2=	8.7=	7.9	8.9	10.2	12.5	12.6	15.3

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2012 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.2	17.7	16.1	9	11.1	7.7	6.2	5.8	5.4	11.9	7	12.9
2	15.4	16.3	18	11	10.7	7.7	6.1	5.6	2.9	11.2	6.2	16.3
3	18.4	16.4	18.6	14.5	14.5	9.4	***	5.1	5.3	11.5	8.6	14.9
4	18.3	16.2	16.7	16.6	11.1	10.1	***	10.1	4.9	12.2	11.9	13
5	16.7	15.2	13.7	15.7	9.5	11.9	***	9.5	7.4	11.3	14.6	13
6	17.1	17.3	13.2	15.6	9.3	5.9	***	5.5	10	10.3	13.1	15
7	17.4	18	14	14.4	11.4	5.2	***	4.2	12	9.9	12.3	15.2
8	21.6	17.6	12.8	11.5	11.8	10.4	***	7.3	11	9.3	10.1	15.5
9	23.4	16	17.3	9.2	20.3	7.4	7.6	7.3	11.7	11.9	10.1	14.4
10	24.8	13.8	18.2	10.1	13.6	5.5	7.4	6	8.4	8	10.4	14
11	***	11.3	16.7	11.6	13.2	4.9	6.3	10	8	6.7	12.6	13.9
12	***	11.5	16.4	9.3	11.4	7.3	4.3	7	11.3	9	***	12.6
13	***	14	14.6	11	13.5	8.5	6.7	5.3	11.1	12.2	13.4	***
14	17.6	16.7	16.4	12.9	11.9	8.3	6.2	13.1	9.6	13.2	11.5	***
15	***	16.1	15.7	13.7	10.1	11.4	6.2	11.2	9.2	13.9	12	***
16	19.3	16.4	17.1	13.5	9.3	12.4	6.5	5.1	9.8	13.6	13	***
17	19.2	16.5	12	13.3	10.7	12.4	7.4	3.8	13.4	14.2	13.5	***

18	20	15.9	10.8	13.6	8.3	11.1	6	6.7	11.5	11.5	12.4	***
19	18.8	17	12.4	11.8	4.1	9.2	9.7	10.9	8.9	9.4	12.6	***
20	19.4	19.3	15.4	10.5	3.6	7.9	11.1	8.9	7.3	9.7	14.5	***
21	18.2	18.4	14.6	13.4	6.8	8.7	8.5	8.8	10.3	11.9	***	***
22	18.3	16.1	15.3	8.3	6.6	9.7	5.9	9.8	7.6	10.9	12.1	***
23	18.2	14.2	16.6	6.6	13.3	7.9	5.6	8.9	5	10	11.4	***
24	15.7	13.4	15.7	5.6	11.4	9.3	5.3	10.9	9.2	10.7	8.4	***
25	13.5	15.5	14.6	7.7	12.1	7.7	6.1	11.5	8.3	12.4	7.2	***
26	12.5	18.3	14.7	16.5	9.7	6.3	10.7	7.7	14.4	9.5	6.5	***
27	15.3	18	16.3	10.8	10.1	7.1	8	6.9	12.9	8.5	11.3	***
28	14.4	19.2	16.5	10.3	9.2	4.3	5.1	9.7	9	9.6	9.9	***
29	14.6	17.2	17.3	11.4	9.2	8.1	5.2	13.1	8.1	11.5	12.1	***
30	16.2	***	13	15.1	7.4	6.1	3.4	12.3	7.6	10.3	12	***
31	17.2	***	11.2	***	6.7	***	5.8	10.3	***	8.7	***	***
Avg	17.7=	16.2	15.2	11.8	10.4	8.3	6.7=	8.3	9.1	10.8	11.1=	14.2=

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2013 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	***	15.4	12.6	16.8	15.3	10	9.6	11.6	5.7	10.4	10.4	11.9
2	***	15	12.3	13.8	15.5	7.8	9.3	12.3	5.4	14.3	9.5	12.4
3	***	13.6	13.1	8.6	10.2	7.3	7.6	11.7	7.4	13	7.3	13.6
4	***	13	14.4	8.1	8.2	8	6.7	9.3	5.1	12.8	11.4	***
5	***	12.8	19.9	10.1	6.5	8	10	13.1	6.3	11.1	15.5	***
6	***	14.8	17.2	13.1	6.7	7.1	10.3	10.7	8	10.4	14.7	10
7	***	15.1	14.9	11.4	11.7	9.3	11.2	8.4	9.1	10.1	10.9	8.5
8	***	14.1	15.9	13.4	11.9	8.2	9.9	5.6	11	9.1	10.6	9.9
9	***	17.1	13.4	10.7	7.9	3.2	9.5	6.1	9.4	11.2	10.8	15.3

10	***	17.8	11.2	8.9	7.2	2.6	10.1	4.1	8.1	9.7	10.1	12.6
11	12.8	17.3	13.2	8.4	9.2	8.4	9.5	5.6	7.2	14.6	11	11.7
12	13	16	15.6	8.4	5.9	11	13.2	8.6	6.7	9.2	11.9	11.9
13	15	***	16.5	11.5	10.4	8.6	11	9.1	10.9	7.6	14.9	12.7
14	16.2	***	14.6	14.3	13	7.8	10.9	5.5	7.8	5.9	16.6	15.1
15	15.4	13.8	15.4	16.2	11.6	8.2	10.3	4.4	8.5	9.4	13.6	13.3
16	15.3	14.7	16.6	18.8	9.6	5.7	8.2	7.7	7.5	10.4	14.6	12.8
17	18.6	16.3	14.1	16.3	9	5.3	7.9	6.1	9.1	9.4	13.3	10.8
18	17.8	19.1	15	9.2	7.5	6.7	10.8	5.6	10.1	9.3	12.4	9.9
19	14.7	15.9	13.1	9.2	8.9	10.6	6.4	6.4	10.7	8.1	12.6	11.7
20	14.7	11.6	10.5	11.2	15.3	8.4	9.3	5.5	6.4	10	14	12.6
21	16.2	10.2	14.3	11	15.7	9.5	8.4	7	5	8.9	11.9	17.6
22	14.8	12.9	15	10.3	10.6	7.3	7.7	5.2	3.6	6.9	12.6	16.3
23	18.7	13.6	14.8	11.6	11.7	8.9	5.4	3.4	9.9	7.6	14.2	16.6
24	16.6	12.8	14.2	11.2	10.5	15.1	5.3	6.5	8.4	10.9	11.6	15.7
25	14.3	14.9	13.7	15.5	12.1	13.1	3.8	4.9	7.9	14	15	15.4
26	14.9	18.8	15.3	16.2	12.1	5.9	9	16.5	9.5	13.1	14.6	17.2
27	15	18	16.6	18.5	9.7	4.8	10.5	10.8	9.6	13.3	11.9	16.4
28	15	13.1	17.6	14	7.4	4.3	6.2	10.4	6.3	14.3	12.1	14.8
29	15.5	***	15.5	10.5	6.8	7.2	6.5	9.9	5.5	14.4	11.5	14.1
30	18.4	***	13.7	9.5	10.7	7.4	5.7	4.4	5.5	13.3	12	13.9
31	17.5	***	14.1	***	8.8	***	7.3	4.4	***	9.8	***	15.1
Avg	15.7=	14.9=	14.7	12.2	10.2	7.9	8.6	7.8	7.7	10.7	12.5	13.4=

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2014 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.3	16.2	15.5	14.2	9.8	7.5	14.7	12.3	7.2	8.7	10.2	13.6

2	17.9	16.2	14.6	10.6	***	6	11	9	7.9	7.1	12.8	13.2
3	17	14.2	16.3	9.4	***	6.9	14.8	12.1	11.6	7	15	15.5
4	19.4	14.5	***	9.4	***	7.3	17.4	11.8	11.6	7.2	10.1	14.4
5	17.7	16.1	***	9.2	***	3.5	3.1	6.7	10.7	7.7	11.9	13.5
6	18.4	15.7	14.7	11.4	***	4.1	2.3	5.5	10.2	9.9	9.7	12.9
7	18.9	16.7	18.2	12.6	10.7	3.8	1.9	8.5	10.9	12.5	11.1	13.6
8	19.1	15.8	16.5	12.5	14	9.7	1.8	11.7	9.1	8.5	12	17.1
9	14.9	15.6	12.8	12.1	10.6	9.5	0.9	11.6	10.6	6.5	14.7	15.5
10	13.8	12.5	12.5	14	8.6	3.8	2.8	12.2	11.5	6.2	12.4	***
11	11.9	15.7	14.6	15.6	7.2	2	4.7	12.7	10.1	9.8	12.4	17.7
12	13.5	17.5	10.6	16.3	10	6.2	8.5	13.8	9.9	12.5	13.8	14.2
13	11.9	19.6	8	15.8	10.9	10.6	5.4	10.8	8.1	9	10.4	12.7
14	10.9	18.7	10.1	15.3	10.4	9.6	5.5	9.2	11.7	6.9	11.2	12.9
15	13.7	18.4	13.2	12.2	7.6	7	4.7	8.2	13	9.7	8.6	14.7
16	14.7	17.7	14.7	9.9	9.7	5.9	8.8	9.6	11.3	10.7	7.4	14.3
17	15.4	16.7	13.8	9	8.1	5	10.1	11.9	15.8	6.6	7.9	12.3
18	14.5	19.9	11.7	12.8	6.6	7.3	6.7	13.5	6.9	5.7	8.5	15.8
19	15.2	***	13.1	12.4	6.9	6	5.7	11.2	5.1	8.6	11	15.9
20	14.6	***	11.5	14.4	11.7	5.1	4.9	8.2	3.8	10.4	9.9	15
21	15.9	***	10.2	15.6	9.1	6.4	3.8	6.9	6.9	11.7	8.4	13.7
22	16.1	***	18	***	7.2	5.8	8.1	7.5	8.6	13.1	11.3	13.5
23	18.4	***	16.6	***	13.1	12	6.8	7.9	14	12	16.8	14.2
24	16.7	***	***	***	15.6	10.7	5.2	7.7	12.4	14.9	14.6	13.6
25	14	***	***	***	10.7	13.1	8.9	4.8	9.7	11.2	14.8	13.3
26	13.7	***	12.7	***	8.5	8.4	6.5	9.6	11.1	10.4	14.9	14.6
27	15.8	14.5	10.3	***	11.2	5.7	7.4	8.3	9.1	13.1	12.9	14.9
28	18.5	15.8	12	***	10.8	3.9	5.2	2.6	8.7	16.7	11.6	16.2
29	17.1	***	14.2	***	10.1	7.3	5	3.4	10.1	14.4	9.9	15.9
30	15.8	***	12.4	9.3	7.5	7.3	8.5	5.2	9	11.8	14.4	16.3
31	15.3	***	12.7	***	7	***	13.4	5.9	***	10.2	***	15

Avg	15.7	16.4=	13.4=	12.5=	9.8=	6.9	6.9	9	9.9	10	11.7	14.5=

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2015 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.3	11.1	15.2	17	8.8	11.6	6.6	4	10.4	10.6	***	18.4
2	16.1	11.2	12.4	16	9.1	13.5	5	6.7	9.2	9.7	***	16.6
3	17.2	15.2	10	15	9.5	14.4	6.3	11.6	7.5	11.3	***	15.8
4	15	15.3	17.7	***	11.9	6.3	9.7	10.4	6.9	10.3	8.9	17.4
5	13.5	15.2	15.3	***	12.4	5.6	9.2	5.3	8	11.9	11.7	16.6
6	14	13.9	14.7	***	9.6	4.6	10.5	5.4	11.1	9.9	16.6	16.5
7	13.2	16.4	17	***	11.6	6.4	11.9	11.9	10.8	13.5	14.2	16.1
8	18.2	16.2	17	***	9.5	6.2	11.4	12.1	8.2	12.6	12.7	18.3
9	16.5	18	17	11.8	14.1	7.2	9.8	8	8	12.4	13.2	17
10	16	19.1	18.5	12.9	12.6	6.5	9.3	6.7	10.3	12.5	14.1	16.6
11	18.4	16.9	18.2	15.6	11.8	9	11	5	7.6	10.1	11.9	17.5
12	19.4	17.8	17.5	14.1	10.4	9.7	6.4	5.4	7.2	11.3	12	15.8
13	17.8	17	17	17.6	9.1	9.3	2.2	8.5	9.5	11.8	13.2	11.7
14	17.2	15.2	16.6	9.9	9.4	9.5	2.7	7.7	7.4	11.9	12.7	11
15	18.4	12.9	16.9	8.5	11.5	9.7	6.6	9.2	14.2	9.6	10.8	9.7
16	11.8	11.1	15.9	***	9.3	7.4	7	8.7	12.2	7.6	8.4	13.1
17	10.7	10.9	14	8.2	8.2	8.4	6.1	11.8	9.1	11.9	12.4	14
18	11.4	12.7	13.8	10.6	12.8	5.9	8.8	9.9	8.5	14.5	12	15.3
19	12.5	14.5	16.2	9	12.4	6.9	6.9	11.3	8.5	15.8	11.2	16.8
20	13.8	14.8	***	10.3	12.1	6.6	8.5	11.1	9.4	16.4	11.3	15.3
21	12.4	11.6	16.1	8.5	11.5	10.5	8.5	11	12.6	***	9.3	15.1
22	17.8	9.3	15.4	10.3	10.5	12.2	8.7	10.3	10.6	***	8.8	14.3
23	15.7	11.4	16.8	13.4	15.4	12.1	7.3	9.7	11.1	***	10.6	13.1
24	15.2	16.6	16.6	13.5	12.7	9.7	5.9	13.6	12.2	14.7	12.5	15.9

25	20.9	16	***	13	12.7	5.9	7.7	12.4	12.5	16.1	14.3	13.9
26	19.2	17.4	***	11.7	10.1	4.9	5.4	12.9	14.6	***	10.6	12.8
27	16.2	17	13.2	10.5	8.4	9.9	4.9	12.5	13.5	***	8.1	14.4
28	15.8	15.9	13	10.5	9	9.5	7	12.7	10.1	***	9.5	15.9
29	15.1	***	11.3	10.3	8.5	6.9	6.7	11.7	9.4	***	11.1	20.2
30	16.6	***	14.1	9.5	10.8	5.8	4.8	14.4	10.7	***	12.9	19
31	15.1	***	13.1	***	9.4	***	4	13.7	***	***	***	20.6
Avg	15.7	14.7	15.4=	12.0=	10.8	8.4	7.3	9.9	10	12.1=	11.7=	15.6

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2016 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.7	20.7	16.7	12.5	4.9	15.3	5.7	8.7	13.5	7.4	11.2	13
2	17.9	19.6	15.5	10.3	8.4	12.3	3.9	9	13.7	8.2	14.3	11.9
3	17.9	15.4	12.7	10	8.8	12.5	1.9	8.6	11.4	7.1	13.4	13.4
4	19.4	13.9	17.4	13.1	9.2	8.3	7.6	6.9	12.3	6.6	12.7	15.9
5	19.7	13.4	18.7	12.9	9	8.3	13	7.6	13.2	5.4	12.7	15
6	19.4	14	21.3	9.7	9.2	6.9	4.1	7.4	12.4	10	12	14.3
7	13.7	13.6	15.9	9.4	11.7	11.5	2.5	8.3	10	9.2	13	15.2
8	13.3	14.9	14.6	11.1	12.5	13	5.3	5.7	9.6	8.7	14.8	14.5
9	14.5	13.5	14.9	11.9	13.3	16	8.5	4.9	8.2	7.5	14.7	14.5
10	13.5	15.2	15.1	16.1	11.6	10	6.1	8.7	8.4	7.6	13.4	13.2
11	17	15.7	16.5	18	10.3	6.4	8	***	10.1	10	12.4	13
12	17.5	17.8	16.5	15.8	11.3	5.9	11.3	12.7	11.4	7.7	12.3	15.3
13	17	19.2	14	15.1	14.2	8.9	8.3	10.9	9.5	7.4	10.6	14.4
14	17.8	14.9	13	13.8	11.9	10.6	12.4	7.6	9.3	11.4	9.2	14.4
15	15.3	15.2	13.3	15.2	12.1	10.3	11.3	9.8	11.5	13.6	11.2	16.1
16	15.3	16.7	15.1	14.6	12.6	5.4	8.7	11.9	8.4	9.1	13.1	15.5

17	14.9	16.5	15.5	16.8	12.5	5.1	7.3	10.9	8	8.7	11.2	14.3
18	15.1	17.9	15.5	16.2	14.2	10	12	13.1	5.8	8.5	9.5	15.9
19	***	16.7	14.4	16.7	8.3	9	9.4	12.4	5.7	13	10.9	18.6
20	17.2	15.3	11.8	13.8	6.8	7.3	7.6	10.8	13.4	14.5	10.9	17.5
21	16.8	16.4	10.5	12.8	9.2	5.6	***	8.5	10.5	13.1	13	16.4
22	18.2	14	9.6	12.4	12.4	4.1	***	4.9	10.9	12.2	13.6	17.5
23	17.8	14.5	12.2	9.3	17.3	7.3	4	4.5	8	12.5	15.4	17.4
24	19.1	19.6	14.3	9.4	8.9	11.1	2.4	8.9	5.8	14.8	13.5	11.1
25	14.9	21.3	15.9	12.3	8.6	8.8	***	8.7	9.8	12.1	12.8	9.7
26	14.5	14.7	16.1	9.9	7.4	8.5	9.5	8.5	9.9	***	12.4	15.7
27	16.3	12	13	9.5	12.6	9.6	8	12.9	9.7	***	14.1	17.8
28	17.3	13	10.8	9.2	13.5	5.6	6.5	14.5	7	15.5	17	15.5
29	15.5	14.8	8.5	8.1	14.7	3.9	11.6	12.1	5.5	***	15.2	14.8
30	17.3	***	13.5	6	14.2	5.5	10.7	18.7	7.8	11.9	12.9	14
31	20.5	***	14.9	***	14	***	9	20.6	***	10.9	***	17
Avg	16.7=	15.9	14.4	12.4	11.1	8.8	7.7=	10.0=	9.7	10.2=	12.8	14.9

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2017 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.2	17.1	18.2	14.3	14.8	11.2	9.6	14.1	8.4	13.3	20.3	13.1
2	19.1	15.9	17.7	14.6	13.9	10.6	8.2	10.5	6.8	14.4	17.5	17.8
3	14.4	14.3	17.7	13.9	***	16.8	8	7.2	7.5	18.5	16	14.8
4	13.9	17.8	16.1	16.4	***	11	7.6	10.9	8.2	8.6	15.1	14
5	16.9	13.2	14.8	16.4	***	10	9.5	9	13.4	7.2	11.8	13.6
6	15.7	16.3	14.9	12.9	11.9	11.8	14.2	6.9	11.9	7.6	10.9	13.2
7	15.2	18.9	17.8	14	9.4	12.4	15.1	8.7	10.8	11.8	8.3	14.1
8	14.7	16.7	17.7	17.1	9.8	4.2	14.8	6.5	8.2	10.3	7.1	15.1

9	16.2	16.7	12.7	15.3	13.3	2	9	9.4	11.4	9.8	10.1	11.6
10	16.5	17.8	12.3	16.4	10.4	15	5.5	8.4	12.4	7.5	13.1	9.8
11	17.4	19.7	12.7	15.8	10.7	10.1	3.3	10.3	11.7	5.9	13.4	9.9
12	17.9	17.8	14.4	13.9	8.4	10.2	4.2	8	12	9.4	15.5	10
13	14.9	17.2	14.5	10.8	8.6	9.6	6.3	7.1	11.9	8.3	14.6	12.9
14	15.1	16.4	16.9	9	9.2	8.1	3.8	5.5	9.7	9.1	***	10.5
15	16.1	19.4	13	7.6	9.1	7.3	6	8.5	8.6	10	***	9.1
16	13	19.9	11.3	10.3	12.4	5.8	4.5	6.3	9.5	6.9	8.4	13.6
17	12.5	18.4	14.8	13.2	11.6	6.6	4	5.7	10	6.2	7.9	15.2
18	13.6	16.1	14.5	11.8	9.9	4.7	6.1	5.2	12	5.5	7.4	12.4
19	15.8	14.8	14.8	10.4	10	11.9	4.4	4	12.7	8.5	9.7	11.8
20	13.6	14.7	13.5	11.3	10	5.3	4.8	7	12.8	7.5	15.4	10.8
21	11.8	14.3	14.9	9.4	9	3.1	3.7	8.8	13.5	9.9	11.2	13.6
22	15.6	14	19.7	11	***	7.7	6.3	6.6	11.4	11.5	9.9	16.5
23	19.6	14.3	17.6	11.1	11.5	3.5	5.4	5.7	8.9	11.4	8.6	14.9
24	17.8	16.2	***	12	11.2	3.1	4.7	5.4	9.1	11.1	9.7	14.9
25	14	13.7	11	10.1	9.8	3.4	8.7	4.5	9.2	12.7	9.3	11.1
26	12.1	12	9.9	10.8	9.8	3.5	5.7	4.6	6.1	7.8	10.4	8.7
27	14.2	11	14.1	14.8	9.4	12	5.9	7.2	4.6	6.9	9.1	11
28	13.9	14.5	13.1	18.2	8.7	7.8	8.9	9.4	9.1	4.5	8.6	14.5
29	14.1	***	12.2	14.4	8	4.9	13	11.5	10.2	9.5	11.5	15
30	16.6	***	15.3	12.8	10	11.1	11.2	9.1	9.8	15.7	13.6	16.9
31	16.5	***	17.4	***	13.9	***	9.7	8.9	***	16.4	***	16.7
Avg	15.3	16	14.9=	13	10.5=	8.2	7.5	7.8	10.1	9.8	11.6=	13.1

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2018 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	12.6	13.7	16	15.7	9.4	***	***	***	12.6	14.7	5.6	15.6
2	10.6	15.9	15.8	16.6	***	***	***	***	8	9.7	7	***
3	12.4	14.5	14.6	16.1	8.2	***	***	***	8.3	7.1	9.5	14.9
4	13.5	13	13.2	15	7.8	***	***	***	7.4	6.6	10.9	14
5	15.5	14.3	15.9	16.5	7.2	***	***	***	9.7	6.4	7.8	14.9
6	15.8	18.2	16.4	13.8	12.4	***	***	***	5.4	12.5	6.2	15.4
7	15.8	17.4	16.4	12.2	15.9	***	***	***	5.3	10.9	8.7	16.6
8	13.9	15.3	12.9	10.3	12.4	***	***	***	5.6	***	6.6	13
9	10.7	18.6	11.2	14.2	8.4	***	***	***	6	***	10.2	11.8
10	11.8	15.6	13.6	12.8	7.4	***	***	***	4.9	12.2	12	11
11	13.9	14.4	14.8	9.2	14.2	***	***	***	7.8	13.9	15	12.5
12	17.6	17.2	14.8	11.3	9.9	***	***	***	8.9	9.1	15.5	16.2
13	17.1	17.8	16.4	15.3	9.1	***	***	***	8.2	9	13.5	14.1
14	17.2	17.2	15	13.5	10.5	***	***	7.8	7.2	10.1	15.1	15.5
15	15.8	15.5	11.8	13.6	9.7	***	***	8	8.4	12.5	13.3	18.4
16	14.8	14.5	11.8	12.5	7.8	***	***	4.7	9.3	10.7	12.6	17.4
17	14.4	16.3	11.9	14.7	11.8	***	***	3.3	10.2	7.9	11.1	16.8
18	18.4	16.8	14	14.1	9.6	***	***	2.7	9.6	5.9	10.8	17.4
19	19.6	15.6	15	10	9.5	***	***	8.4	6.4	11.6	14	15.7
20	19.2	18	12.6	10	13.6	***	***	8.2	4.8	7.8	13.8	15.3
21	17.8	16.7	13.5	11.8	11.2	***	***	9.3	6.7	8.5	10.9	15.1
22	17.4	17.1	13.3	11.9	10.2	***	***	7.7	7.7	8.3	10.8	15.5
23	16.6	17	13.1	11.5	9.2	***	***	5.1	7.4	13.6	10.5	17.5
24	15.5	12.3	15	11.8	10.5	***	***	5.5	7.9	17.7	11.7	16
25	16.3	11.1	14	11.8	10.8	***	***	9.8	9.9	17.6	15.5	14.7
26	17.1	9.9	12.4	12.2	10	***	***	2.9	8.6	14.8	17.1	16.6
27	16.4	15.1	13.2	***	7.7	***	***	2.7	8.9	15.6	11.2	14
28	15.8	12.9	16	8.3	***	***	***	7.1	8.3	12.7	8.9	12
29	15.4	***	14.5	7.4	***	***	***	5.7	8.5	18.2	8.6	14.5
30	18.5	***	14.9	9.4	***	***	***	8.9	8.9	8.9	13.6	17.4
31	14.1	***	16.1	***	***	***	***	13.7	***	7.7	***	17.8

Avg	15.5	15.4	14.2	12.5=	10.2=			6.8=	7.9	11.1=	11.3	15.3=

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2019 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.8	16.1	15.7	9	13.6	9.5	10	5.7	5.3	9.6	12.3	15.1
2	12.5	16.1	16.9	8.8	15.6	10.1	8.3	8.6	8	9.3	13.7	16.1
3	12.2	***	15.8	13	12.7	8.3	8.8	9.5	8.1	14	10.9	9.2
4	13.6	15.4	16.2	15.2	12.2	13.3	8.1	8.5	7.4	12.5	12.8	8.8
5	15.3	13.8	16.8	12	11.7	7.5	5.2	6.6	8.6	13.3	14	10.1
6	13.2	14.7	17.8	11.9	15.7	4.3	5.1	7.7	7.4	14.7	15.6	13.1
7	13.6	16	17.3	11.7	16.5	2.9	6.5	9.3	7.1	11.7	12.9	15.1
8	17.1	17.1	14.3	***	11.7	9.7	6.1	6.3	17.9	***	11.2	12.5
9	18.1	17.8	14.6	16.6	9	8.8	9.8	4	18.9	9	13.2	12.5
10	17.1	19.6	15.6	***	8.5	10	8.9	7	13.4	8.5	14.6	13.2
11	17.9	15.5	17.2	16.3	13.4	8	7.8	8.2	12.6	6.8	15.1	15.4
12	13.9	16.1	16.8	14.6	15.1	9.1	9.5	6.4	14.1	11.3	15.4	15.1
13	15.3	17.1	16	***	12.4	4.6	7.3	5.2	8.7	10.3	14.6	15.9
14	14.8	16.3	15.1	***	14.2	4.6	9.6	6.4	6.6	11.8	13.7	15.3
15	15.8	14.9	17.8	10.6	12	9.1	9	7.1	8.9	11.4	14.7	10.3
16	17.1	17.4	17.1	10.4	9.6	7.7	8.4	10.1	13.7	14.3	14.3	10.3
17	18	16.1	18.2	9.3	10.7	12.2	12.5	10	12.3	19	10.5	10.8
18	15.2	14.3	18.6	13.3	11.7	9	10.5	***	15	16.5	9.8	13.2
19	10.7	15.6	***	13	11.4	10.6	9.6	8.5	14.6	16.3	12	12.7
20	9.5	17.6	14.4	11.8	9.5	12.3	4.3	8.1	14.3	14.6	8.9	14.3
21	12.4	16.8	12.9	11.6	7.4	12.1	1.5	7.3	11.7	8.9	11.4	15
22	13.9	17.1	11.6	12.2	7.4	11.8	10.5	14.7	7.3	8.8	10.5	13.5
23	15.6	16.4	15.9	12.9	8.2	7.5	8.6	10.1	***	8.8	13	14.2

24	12.5	17.4	17.7	13.3	7.4	7.6	7.3	8.7	***	9.1	14.2	16.6
25	13.4	15.4	14.9	11.9	8.9	6.4	6.9	11.9	5.2	12.2	11.7	16
26	14.2	16.1	13.2	12.6	16.6	10	6.9	8.5	7	13.3	12	15
27	14.9	12.2	12.9	12.1	12.9	9.4	11.1	10.4	18.3	13.4	14.7	11.7
28	15.5	11.2	14.3	12.5	11.1	8.1	17.5	6.1	12.6	7.9	15.6	12.5
29	17.4	***	14.7	16.8	9.9	6.6	18.2	4.8	11.8	7.5	16.2	13.5
30	17	***	14.1	16.6	8.6	11.3	10.2	5.1	9.7	6.8	15.5	16.2
31	16.9	***	16.9	***	11.6	***	6.3	6.4	***	9.7	***	15.1
Avg	14.9	15.9=	15.7=	12.7=	11.5	8.7	8.7	7.9=	10.9=	11.4=	13.2	13.5

Daily Minimum Temperature (C) Data for station [0079504 X] - BISHO -32.8940 27.2860 593 m 2020 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.6	17.7	12.5	12.9	13	11.6	---	---	---	---	---	---
2	17	19.5	15.8	12.3	13.5	10	---	---	---	---	---	---
3	18.8	21.5	15.7	13.2	10.4	10.6	---	---	---	---	---	---
4	20.5	21.6	17.5	16.6	11.2	11	---	---	---	---	---	---
5	17.8	20.1	19.9	15.1	10.8	11.7	---	---	---	---	---	---
6	17.3	14.4	18.1	11.3	11	11.4	---	---	---	---	---	---
7	17.3	14.5	17.5	8.2	10.6	10.8	---	---	---	---	---	---
8	18	***	19	6.5	13	13.5	---	---	---	---	---	---
9	16.8	14.6	15.9	10.6	10.2	13.8	---	---	---	---	---	---
10	15.9	15.3	16.6	14.9	13.8	13.5	---	---	---	---	---	---
11	16.7	14.1	16.5	14.6	13.8	8.6	---	---	---	---	---	---
12	19.5	16.3	17.3	10.1	10.8	5	---	---	---	---	---	---
13	19.5	15.6	16.6	9.6	12.5	5.9	---	---	---	---	---	---
14	***	16.2	17.7	12.6	10.3	5	---	---	---	---	---	---
15	19.1	18.2	15	12	10.6	6.2	---	---	---	---	---	---

16	19.6	19.9	13.8	11.3	8.7	7.2	---	---	---	---	---	---
17	19.5	17.2	12.7	10.9	8.5	6.3	---	---	---	---	---	---
18	14.7	16	16.4	12.7	10.2	6	---	---	---	---	---	---
19	13.5	16.1	14.5	15.3	10.6	8.6	---	---	---	---	---	---
20	13.2	19.4	15.2	15.4	10.6	12.4	---	---	---	---	---	---
21	15.1	18.6	13.9	14.3	14.4	8.6	---	---	---	---	---	---
22	14.7	15.3	16.6	11.1	12.5	7.3	---	---	---	---	---	---
23	14.2	11.9	17.5	9.6	10.9	9.5	---	---	---	---	---	---
24	16.1	10.7	16.9	14.5	9.7	13.2	---	---	---	---	---	---
25	20	12.1	16.4	13	8.7	12.8	---	---	---	---	---	---
26	12.8	18.8	9.2	12.4	5.3	6.9	---	---	---	---	---	---
27	11.3	15.1	7.1	12.8	5.1	5.9	---	---	---	---	---	---
28	12	12.7	11	11.1	5.6	7.4	---	---	---	---	---	---
29	13.4	12.8	12.3	10	12.2	6.7	---	---	---	---	---	---
30	15.8	***	13.2	9.2	9.7	8.1	---	---	---	---	---	---
31	15.4	***	14.5	***	9.8	***	---	---	---	---	---	---
Avg	16.3=	16.3=	15.3	12.1	10.6	9.2						

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2007 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.1	15	16.6	13	3.7	7.5	0.1	9.1	4.1	12.1	13.7	11
2	11.5	14.8	14.9	15	5.4	4.6	-3.5	15.4	9.7	13.3	12	13
3	14.3	17	16.6	11.9	5.1	2.9	-3.4	4.3	10.2	11.1	14.4	10.1
4	13.9	15	10.8	12.3	5.7	7.9	-3.4	1.1	4.5	7.3	14.2	7.2
5	17.6	14.8	9.5	11.1	10.4	9.9	-3.8	-1.6	6.8	3.8	12	12
6	17	14.9	10.9	12.3	7.7	7.8	6.9	3.5	9.5	8.9	9.3	10.9
7	12.5	14.4	8.7	12.7	7.2	6.3	4.7	0.9	9.7	6.8	7.7	10.7

8	8.8	18.1	11	11.5	6.2	2.6	-0.3	-2.8	10	3.6	7.7	13.8
9	9.9	16.9	14.7	9.3	3.5	6.2	-4.3	9.8	10.8	6.4	6.9	12.2
10	14.2	17.2	15.4	11.7	7.7	3.9	-3.7	13.7	8.5	6.8	6.9	15.2
11	14.9	9.9	15.2	13.9	3.2	-2.1	8.9	3.3	9.1	8.6	5	12.8
12	17.2	11.5	14.8	5.1	5.2	-1.2	5.2	-1.4	11.8	9.3	8.2	17.2
13	16.2	10.1	14.8	0.1	5	1.7	-1.6	-1.3	7.7	9.5	6.6	14.8
14	16.8	10.5	14	4.5	10.6	-3.1	-2	2.4	4	10.5	10	14.7
15	18.1	9.9	12.9	10.8	7.8	-0.1	1.2	1.3	7	10.4	11.8	14.8
16	13.9	12	10.3	8.4	7.1	-1.4	0.6	3.1	7	11.1	11	15.2
17	13.8	13	9.1	6.7	6.9	-1	1	-0.7	5.5	10	6.8	14.1
18	13	13.8	7	13.5	4.3	0.7	4.5	-3	5.2	9.7	8.8	11.1
19	12.1	15.9	6.4	13.3	18.9	-4.5	0.1	8.6	7.4	8.5	12.4	11.1
20	10.1	17.3	4.2	9.9	3.3	-1.3	-0.6	17.8	8.6	7.4	14.6	12.6
21	13.4	13.3	11.3	11	1.3	-3.3	2.8	7.9	9.6	9.5	12.3	15
22	13.8	16.8	9.2	8.4	1.3	-1	1.9	8.1	8.4	12.7	12.4	14.5
23	16.8	15.9	13.6	11.3	-1.3	8	5.3	9.1	8.4	11.9	12.6	17.4
24	17	17	13.5	5.7	-3	8.6	5.7	3.3	6.9	6.8	11.2	16.2
25	16	18	9.1	5.7	-2.2	9.4	0	-0.1	6.3	5.8	10.1	15.6
26	17.3	16.9	13.1	8.7	-3.7	4.1	-3.7	1.5	8.4	6.3	10.8	14.5
27	16.4	16.9	11.5	6.3	1.9	2	1.1	5.2	13	14.7	9.7	10.2
28	15	14.9	10.4	0.4	-1.3	-1.2	2.1	5.6	12.1	11.8	6.5	13.8
29	15.8	***	10.6	-2	6.7	-1	5.9	0.1	11.5	13.8	8.9	15.8
30	13.3	***	12.4	6.4	6	1	5.5	0.8	11.1	11	12.8	15.3
31	13.1	***	10.1	***	3.8	***	4.1	5.1	***	13.2	***	15
Avg	14.3	14.7	11.7	9	4.7	2.5	1.2	4.2	8.4	9.4	10.2	13.5

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2008 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	18.5	17.9	17	9.4	7	0.9	-2.6	***	2.4	7.2	14.7	11
2	17.4	15.2	14.2	11.3	4.7	1.9	3.2	3.9	6.2	8.5	11.9	17
3	11.8	14.6	14.8	8	5.6	7.3	-1.1	4.5	4.6	5.9	7.3	14.6
4	11.8	13.6	16.4	14.2	7	1.5	-1.3	-0.2	0.4	3.4	3.2	14.5
5	13.7	15	14.2	12.5	5.8	3.3	0.7	6.4	3.6	8.4	8.9	14
6	16.5	***	***	9.1	9.6	1.7	8.2	0.9	-1.4	9.8	10.6	12.2
7	14.5	***	***	4.9	5.6	6	9.2	5.4	1.8	9.4	9.3	12
8	10.9	***	***	3.6	6.1	4.7	10.4	-0.9	9.8	13.2	8.8	13.6
9	6.2	***	***	8.9	11.4	3	5.5	3.5	3.7	6.8	9.2	13.8
10	10.3	***	***	6.5	12.7	0.1	-1.6	-0.5	4.8	3.7	9.6	16.4
11	14.8	***	15.5	10.9	8.1	13.7	-6	-1.9	-0.5	4.8	12.5	14.3
12	19	14.4	13.8	11.2	9.1	3.9	-2.9	4.2	1.5	7.2	11.9	13.8
13	17	***	9.9	11.6	5.5	6.6	-4.2	13.5	3.1	10.4	14	14
14	16.3	14.4	11	10.1	8.7	6.2	-4.1	9.3	17.6	10.4	12	14.7
15	17.7	***	7.7	8.8	12.3	11.1	12	7.3	9.3	10	11.9	14
16	14.6	16.2	4.6	7.7	9.4	5.3	3.1	3.2	3.1	10.3	14	10.9
17	13.7	***	7.4	5.6	8.7	9.5	-1.8	2.4	-1.5	7.8	12.4	15.5
18	13.5	16.7	12.6	5.4	5.1	8.9	0.8	6.9	1.4	10.3	11.3	14.7
19	16.1	***	8.6	8.7	8.4	7.6	3.4	5.6	4.3	8	10.8	18
20	16.6	16.7	11.5	6.2	7.2	8.1	1.5	10.5	1.8	10.5	12.6	16
21	14.2	***	10.8	4.5	8.1	6.7	2.1	9.9	4.1	10.5	17.6	15.4
22	16.7	13.6	12.4	1.6	6.6	4.1	2.3	8.8	1.1	8.1	13.9	14.7
23	16.3	***	9.4	1.6	7.1	1.2	3.9	9.2	3.2	4.7	14.9	13.1
24	14.9	16.4	11.1	2.3	3.9	1.5	8.4	10.1	6.8	5.8	15.6	9.3
25	14.6	***	13.9	6	6.4	-0.6	5.3	3.3	6.1	8.2	13.4	6.1
26	17.8	15.4	12.8	5.8	4.9	-0.1	3.8	-1.3	4	7	12.5	13.2
27	19.3	***	11.2	8.8	3.3	3.9	7.6	-0.7	4.7	14.1	13.8	14.2
28	16.3	13.5	12.8	10	9.1	3.8	1.8	1.5	2.7	12.4	14.6	14.9
29	15.8	15	9.4	8.9	9.9	0.2	-1.3	1	3.8	13.7	15.2	12.7
30	15.5	***	14.4	8.2	11.5	-3.4	9.1	5.9	6.6	12.5	11.1	14.1

31	15.6	***	12.5	***	2.5	***	16.2	2.9	***	12.5	***	14
Avg	15.1	15.2=	11.9=	7.7	7.5	4.3	3	4.5=	4	8.9	12	13.8

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2009 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15	16.4	16.2	12.7	8	5.7	1.3	7.8	8.3	10.2	11.3	9.6
2	13.6	17.9	14.5	11.6	5.9	3.2	-0.9	5.6	11.1	10.6	10	10.1
3	14	14.6	16	14.1	8	5.2	8.6	1.4	4.2	9.3	10.6	9.3
4	12.8	13.6	16.4	10	10.8	9.7	5.3	8	3.2	16.1	12.9	12
5	13	14.5	15.3	13.2	8.1	4.7	1	8.3	9.4	13.2	14.8	11.4
6	16.2	13.9	15.1	14.6	9.2	8.3	2.4	2.1	6.3	10.9	12.5	0
7	15.4	16.9	12.4	12.7	8.5	1.9	-0.5	9	19.1	11.4	10.7	17.4
8	18.4	17.6	13.7	10.6	6.5	-0.2	1.9	9.1	6.9	7.2	20.7	15.9
9	16.3	17.8	13.6	12.7	7.8	3	12.2	11.8	5.4	9.2	12.3	13.8
10	14.4	17.1	11.8	13.3	7.3	1.5	5	15.3	5.2	9.5	9	14.3
11	14.7	14.2	15.1	12.2	4.6	10.6	6.6	10.8	1.5	12.9	12.9	13.4
12	15.5	13.1	13.3	8.6	4.8	8.4	6.7	6.4	0.2	10.7	13	12.2
13	16.9	17.5	16.5	6.3	10.3	4.2	6.2	1.6	5	11	13.6	10.3
14	16.1	13.3	15.7	8.4	9.7	5.5	3.6	-1	5.7	11.2	10.5	9.4
15	14.5	11.7	15.7	6.8	8.2	2.4	-0.8	0.9	8.6	10.9	9	11.5
16	17	11.2	13.5	8.2	6.2	5.3	-3.4	0.7	3.6	11.4	7.7	9.7
17	15.5	12.1	7.1	7.5	6.2	0.8	-4	10.8	7.8	9.9	6.3	11.2
18	14.2	14.1	3.3	12.5	6.2	-0.5	-1	15.2	5.8	8.5	8.7	13.5
19	13.1	15.2	5.6	7.4	3.7	4.7	-1.6	2.9	2.8	6.3	9.6	13.6
20	13.2	15.5	8.4	6.9	5.6	6.2	-2.4	3	2.5	5.5	7.9	14.8
21	16.1	17.1	6.1	7	7.1	7.8	1.4	-0.1	4.5	10.5	15.2	11.9
22	15.3	13.4	7.4	5.6	12.1	5.7	3.8	2.9	8.9	9.4	13.7	17.7

23	11.3	12.6	8.5	12.6	5.2	6.8	1.1	7	8.7	9.7	14.5	14.6
24	13.8	15	13.9	8.9	13.3	6.6	-1.3	5.6	8.7	11.8	14	13.2
25	14.9	17.4	11.3	12.1	7.2	2.6	-4.8	3.5	8.2	12.2	17.2	13.1
26	14.6	17.7	16.4	9.5	2.7	1.4	-3.3	12	5.7	11.8	12.7	15.2
27	13.2	17.1	17	6.2	1.8	-0.7	-3.2	3.1	7.3	13.6	11.9	13.4
28	13.1	16.8	12.8	8.4	2.3	0	-1.4	-0.8	3.8	9.1	10.6	12.8
29	14.1	***	9	9.9	6	-2.9	8.3	3.4	6	8.1	13	13.9
30	15.1	***	12.1	12.7	6	-4.7	7.5	14.3	8.8	5.3	9.6	12.6
31	16.8	***	12.9	***	2	***	8.5	7.2	***	7.1	***	15.9
Avg	14.8	15.2	12.5	10.1	6.8	3.8	2	6.1	6.4	10.1	11.9	12.5

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2010 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.7	15.1	13.3	14.6	7.1	0.1	3.5	4.6	12.5	14.4	15.6	14.8
2	17.3	13.3	14.3	15.5	10.2	-0.1	2.9	5	7.4	10.6	14.5	14.3
3	16.2	12.7	13.5	14.3	12.4	-0.9	4.7	3.8	2.7	12.7	16.2	14
4	13	10.6	16.8	12.9	11	4.5	8	2.5	2	11.1	12.2	12
5	13.1	16	16.7	12.5	8.6	1.9	9.4	4.7	3.6	10.8	11.3	11
6	14.2	15.8	16.6	11.3	10.6	2.5	7.8	8.9	5.7	14	11.3	9.1
7	14.8	21.2	16.5	13.7	7.7	15.7	5.4	3.6	6.5	14	10.8	9.3
8	15.8	17.8	12.9	11	6.5	8	1.9	7.9	3.9	12.7	10.8	12.9
9	15.9	15.2	16.5	12.6	15.6	3.8	6.8	5	10.9	11.3	9.5	11.5
10	17.5	18.9	16.1	9.4	13.2	6.4	15.7	4.3	5.8	8.8	9.4	14.2
11	16.2	17.1	17.3	7.5	5	6.5	3.7	3.3	7.6	12	10.5	11.4
12	15.8	18.5	17.6	7.7	2.5	6.6	-0.4	-1	10.1	7.7	9.4	10.4
13	17.6	17.5	15.4	9.2	8.8	6.7	-4.4	8.7	5.7	5.8	8.3	13.5
14	14.6	17	13.3	9.6	11.8	4	3.4	4.4	16.9	8.8	11.9	12.1

15	12.9	16.2	14.3	13.2	9.3	1.2	0	4.9	10.6	7	9.9	10.9
16	12.6	14.6	12.7	14.2	8.9	-0.1	3.3	0.7	7.3	5	13.2	12.6
17	12.9	12.7	14.3	13	9.8	-1.4	2	1	5.5	3	11.4	12.7
18	14	14.5	12.4	8.1	9.1	-4.7	-0.5	7.1	11	8.1	11	13.2
19	15.1	16.3	10	11.6	9	7.3	-0.4	2.4	15.1	10.3	13.1	14.5
20	15.1	15.2	12.9	7.1	6.7	2.8	-0.4	-0.8	15.3	5.9	15.7	15.6
21	15	16.6	16.6	5.7	6.3	2.8	-1.3	6.6	10.5	18.4	15.3	15.9
22	19.4	17.2	12.5	6.3	5.1	3.8	2.1	10.8	9.8	12.4	14.1	17
23	18.3	17.4	11.2	3	3.5	1.8	9.9	3.7	4.8	11	10.9	16.3
24	17.1	17.6	14	4.1	8.7	-0.2	7.2	1.3	8.3	11.1	9.3	14.4
25	17.4	16.3	14.1	1.7	6	0.4	3.3	6.4	9.1	6.6	11.4	13
26	17	14.6	16.5	5.6	7.3	2	1.2	9.4	8.5	4.6	14.4	14.8
27	16.5	15.3	11.8	7.5	20.1	4.2	5.5	4.3	6.3	11.4	13.9	13.1
28	12.2	14	7.3	5.9	1.8	3.4	7	5.8	2.8	10	12.3	17.3
29	11.4	***	10.1	10.1	-3.1	11.3	7.5	5.6	9.3	10.1	10.2	15.1
30	13.7	***	12.5	8.9	-1.1	8.2	2.8	6.2	18	13.7	11.1	14
31	16.3	***	13.8	***	3.8	***	9.3	14.8	***	13.9	***	14.1
Avg	15.4	15.9	14	9.6	7.8	3.6	4.1	5	8.5	10.2	12	13.4

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2011 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.1	16.7	13.5	16.7	***	0.2	1.2	-0.4	6.7	7.5	5.5	14.5
2	16.5	17.5	12.9	14.5	***	4.4	1	-0.5	9.4	8.1	4.4	14.1
3	15.4	16.7	17.5	12.3	***	3.9	0.1	5.5	5.9	6.7	8.4	11.3
4	15.5	18.1	15.9	10.4	10.6	1.8	4	9	7.7	5	10.2	11.2
5	16.8	17.2	16.7	10	7.3	-0.4	4.1	4.5	2.5	4.4	8.8	13.9
6	16.4	17.2	13.5	13.2	12.5	4.1	2.6	2.7	3.8	1.7	6.5	15.1

7	14.8	16	14.5	9.8	9	7.8	1.6	-0.3	5.5	4.9	6.4	15.8
8	16.1	17	15.1	9.9	9.9	6.5	-1.3	1	6.2	7.8	13.2	8.1
9	14.4	18.2	17.4	10	8.7	2.3	2.4	1.2	10.8	9.6	11.9	8.4
10	14.6	18	16.5	11.4	8.8	10.3	-1.5	0.3	7.9	9.4	8.7	11.1
11	14.1	17.8	16.2	11.2	7.4	9	-2.3	-1.3	10.9	10.1	8.7	11.4
12	15.4	13.6	15.9	14.3	6.3	7	-0.8	1.8	8.6	14.4	12.8	9.9
13	14.4	17.6	14.4	14.6	8	4.3	-1.3	6.6	13	14.3	10.5	12.9
14	13.7	17.2	13.6	11.4	6.7	2.7	-0.8	4.6	9.8	13.1	9.2	14.1
15	15.2	18.6	13.6	12.8	6	7.6	-1.6	3	5.9	8.8	9.8	12.3
16	16.2	16.3	15.8	***	7.7	9.1	-1	2	3	8.6	13.6	12.3
17	15.5	17.3	16	***	4.5	1.4	-2.1	-0.3	3.4	10.1	15.4	15.3
18	16.7	17.2	16.1	***	2.7	-1.7	-0.7	4.7	9.6	12.3	14	14.8
19	21	16.3	15.7	***	4.4	6.7	-0.2	7.6	5.2	8.3	13	14.7
20	14.6	16.4	14.6	12.7	2	1.6	2	6.9	1.1	8.5	14.3	14
21	14.6	17.5	12.1	5.1	4.5	-2.3	-3	7.2	5.6	8.4	8.7	16.7
22	16	14.2	12.9	1.7	7.7	0.2	-1.8	14.5	7.8	14.3	8.2	12.6
23	14.9	11.8	14.5	4.4	15.9	6.7	4.3	8.3	7.1	9.5	7.8	12.7
24	15.3	14	15.7	***	7.5	1.8	5.2	5.6	8.4	8.1	8	13
25	15.9	11.7	15.2	***	2	5.5	0.3	1.3	7.3	11.3	7.4	15.3
26	15.1	15.9	14	***	4.8	3.5	1.7	7	13.9	10.9	12	15.8
27	14.8	14.2	14.1	***	1.5	0.8	2.8	5.1	10	11.3	12.7	16.6
28	13.8	15.2	13.6	2.8	-0.7	1.3	3.8	7.9	10.2	11.9	11.5	13.8
29	16.9	***	15.2	-0.5	3	-1.1	0.7	7.5	12.9	11.7	11.9	10.3
30	19.3	***	16.7	0.3	8	3	-0.7	17.5	8.5	8.8	16.4	13.6
31	18.5	***	18.2	***	2.2	***	-0.6	11.3	***	9	***	15.3
Avg	15.8	16.3	15.1	9.5=	6.4=	3.6	0.6	4.9	7.6	9.3	10.3	13.3

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2012 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13	18.4	15.5	8.6	10.4	0.7	-0.9	-1.5	1	4.2	5.9	12.7
2	15.3	14.8	16.7	6.6	6.5	0	5.4	-4.2	-3.3	4.3	8.1	15
3	15	16.4	18	7.3	11.7	4.1	1.4	0.7	0	10.7	7.1	12.9
4	16.7	16	14	7.8	11.4	0.7	1.8	5.9	5.3	5.4	0	14.4
5	16.2	15.7	12.6	14.2	11.1	12.3	-2.3	5.1	6.5	9.3	11.2	12.4
6	15.6	16.8	12.6	14	8.4	1.8	7.5	-4.3	7.5	8.5	12.4	13.2
7	13.9	16.7	15	10.9	8.6	-0.4	6.2	1.5	10.7	7.8	11.4	13.3
8	18.4	19.4	12.5	10.7	10.6	6	3.1	3.9	9.1	6.9	10.3	15.2
9	16.4	17.9	16.9	6.4	11.3	5.2	2.2	3.6	8.2	11	7.7	14.2
10	17.3	13.9	15.2	6.6	9	-1.1	4.8	8.4	6.4	9.1	7.5	13.7
11	18.7	11.7	13.4	3.8	10	-3.1	3.8	6.6	3	8.7	13.8	12.6
12	18	11.8	13.7	8.8	5.7	2.9	0.9	3.9	4.2	7.1	15.3	14.2
13	19.3	14.5	10.7	5.4	6.4	-1.6	0	0.2	7.7	7.2	13.2	13.5
14	16.5	17.2	15.6	5.5	9.1	5.6	0	9	5.5	13.6	12.4	13.6
15	16.5	16.3	14.7	11.8	6.8	4.8	0.8	9.2	6.7	14.9	11.9	15.3
16	15.8	16.7	14.9	10.1	2.4	3.2	4.1	2.5	5.8	12.6	15.9	13.2
17	18	14.9	10.7	11.2	3.4	1.8	3.6	-1.6	9.4	12.3	13.3	14.5
18	16.9	14.4	6.6	11.8	8.4	9.3	-0.6	0.7	10.9	10.7	12.3	13.7
19	15.8	15	7.3	7.7	-0.6	5.2	2.9	11.3	6.7	7.7	11.4	15.1
20	19	16.3	14.3	4.7	-4	1	4.8	8.7	6.1	8	13.2	15
21	18.4	16.5	13.5	9.5	-1.3	6.8	4.9	7.1	11.9	11	10.7	16.5
22	17.2	16.4	12.8	6.5	-0.9	6.4	0.2	8.1	6.6	8	11.6	17.2
23	17	12.9	14	0.8	10.8	3.3	-2.9	6.7	1.6	4.9	14.3	15.9
24	14	13.2	13.9	0.3	7.9	5.1	-3.5	2.4	7.7	8.3	10.7	17.9
25	12.1	12.5	11.9	6.9	7.3	6.6	-1.8	9.8	2.9	9.2	7	15.7
26	12.6	17.8	13.6	11.7	8.8	6.6	0.3	4.5	6.2	9.6	4	15.8
27	14.5	17.8	14.5	7.4	6.8	6	4.3	1.6	11.4	9.1	8.7	16
28	12.5	17.7	14	3.9	7.6	-1.8	0.9	7.3	6.6	10.5	8.7	17.2
29	13.2	16.7	15	5.3	11.2	4.5	-0.3	12.3	4.9	10.9	13.2	15.6

30	13.9	***	10.6	11.7	5.2	2.9	-3.4	10.9	2.5	8.6	11.2	19.8
31	14.7	***	9.6	***	4.9	***	3.3	10.7	***	7.6	***	14.5
Avg	15.9	15.7	13.4	7.9	6.9	3.5	1.7	4.9	6	9	10.5	14.8

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2013 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.7	15.7	10.6	15	7.4	6.5	2.6	-1.1	3.5	7.9	10.1	11.3
2	12.8	12.5	11.3	12.6	12.4	6.6	2.6	1.6	-1.5	17.7	9	12.3
3	13.6	15.9	13.3	7.2	10.3	5.5	3.1	0.6	8.6	13	5.5	13.5
4	10.4	13	17.1	6	5.7	2.1	7.2	0.6	4.9	10.3	9.5	12.3
5	9.1	10.3	14.7	3.8	-1.5	0.8	7.8	1.1	3.7	12.8	11.3	11.1
6	13	14.8	17.2	6.3	-0.5	-2.9	7.7	0.4	3.5	9.3	13.1	9
7	15.5	10.9	16.8	6.8	2.4	7.4	4.1	9.4	3.4	8.7	11.2	9.4
8	17.3	14.2	15.8	12.7	7.6	8.2	1.4	3.3	11.3	8.3	6.6	11.4
9	17.3	18	11.4	8	3	-2.8	3	3	8.3	8.7	11.5	16.3
10	10.7	16.2	10.9	3.4	-0.5	-6.2	5.4	-1.1	6.8	8	10.7	12.4
11	10.3	16.2	11.9	4.8	6.1	-2.6	2.6	-4.2	6.3	12	10.8	11.1
12	11.9	16.7	14.1	9.6	6.1	10	5.3	6.3	6.8	8.9	11.6	11.6
13	15.5	17.9	14.1	12.4	2.4	5.8	10.3	9.3	7.9	5.1	12.1	12.4
14	16.4	15.8	12.9	0	5.3	0.7	8.8	4.7	8.8	2.6	14.4	13.1
15	15.4	13.7	11.9	7.8	8.7	0.6	5.6	5	3.4	5.5	14.9	14.7
16	16.1	13.4	15.3	13.3	9.8	-3.2	6.1	4.3	5.9	10	14.4	12.5
17	15	16.8	11.8	21.4	7.7	-3.7	6.5	10.3	3.8	8.8	12.2	12.8
18	14.7	17.6	10.9	6.9	3.2	-4.1	8.5	3.7	5.9	7.9	11.9	11.3
19	15.3	16.4	12	3.4	2.1	8.1	6.8	-2.9	9.4	8.2	13	12.2
20	15.7	***	7.8	8.1	7.9	6.6	4	-3	7.7	10.4	14.1	13.9
21	13.9	6	9.4	0	7.1	4.2	2.9	7.6	2.9	7.9	11.3	16.5

22	12.5	8.3	11.4	3.8	6.4	8.5	-1.1	1.5	-0.7	6.7	10.8	18.6
23	13.7	14	14.1	7.6	7.5	6.4	7.4	-3.8	6.3	6	14.8	17.2
24	20	13.8	13.1	5.6	8	7.8	3.6	-1.1	8.2	10.2	13.5	15
25	15.6	11.3	13	6.8	6.2	14.3	-2.2	4.2	3.5	12.4	11.9	16.1
26	14.9	15.3	12.3	6.5	12.1	2.6	7.8	5.6	6.2	10.8	13.7	17.1
27	16.2	16.1	15.9	6.9	6.1	-2.5	10.8	12.2	9.9	13.2	9.2	16.4
28	11.7	11.2	15.4	10.1	1.8	-3.3	3.7	11.1	5.7	12.9	9.5	13.9
29	14.8	***	14.2	9.7	-3	-2.1	1.2	8.7	0.3	10.3	11.4	14.3
30	15.3	***	12.4	7.4	6.3	0.7	-3.9	2.8	3.7	14.3	12.4	13.6
31	15.4	***	11.8	***	1.5	***	-4.1	3	***	11.6	***	14
Avg	14.3	14.1=	13.1	7.8	5.3	2.7	4.4	3.3	5.5	9.7	11.5	13.5

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2014 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.2	15.7	14.1	12.5	***	6.2	10.9	9.1	6.1	8.5	8.9	***
2	16.6	***	14.4	9.2	***	2.6	8.4	7.8	2.7	8.5	12.4	***
3	17.5	***	14.9	7.1	***	-1.8	5.7	14.8	1.5	6	14.2	***
4	19.3	***	14.6	2.8	***	9.6	7.8	9.4	5.3	4.1	12.1	***
5	18.5	***	14.8	7.6	***	1.2	0.4	5.1	4.5	8.4	10.9	***
6	18.1	***	15.8	11.3	***	-0.5	-3.6	-0.1	8.3	6.6	11.2	14.5
7	18.4	16.9	15.6	8.9	***	-4.5	-6.5	5.8	9.8	11.7	12.2	16
8	18.6	16.1	15.6	11	***	2.3	-4.6	9.5	5.4	7.2	11.9	17.9
9	15.9	15	12.5	9.1	***	9.8	-6.3	10.4	10.4	5.9	14.2	17.4
10	14.8	16.2	11.9	8.4	***	-1.3	-5.6	5.2	10.9	4.2	12.6	16.9
11	14.4	18.1	15.5	8.7	***	-6.8	-2.6	9.2	9.2	8.4	12.7	15.3
12	15.2	16.9	8.8	7.7	***	-3.1	3.6	5.1	10.1	8.9	14.9	12.2
13	13.6	16	5.5	8.2	***	3.1	-1.4	7.3	10.8	7.2	12.7	11.7

14	13.3	16.8	7.1	12.2	9.9	5.4	-1.9	7.3	7.9	7.6	11.8	12.7
15	14.5	17.8	12.1	9.8	8.1	10.2	-2.9	6.1	16.5	9.6	8.4	12.2
16	16.9	16.9	13	9.2	5.1	2.8	6.5	9.6	13	9.1	6.3	11.6
17	17.4	16.6	14	8.9	0.8	-2	16.2	5.2	14	5.4	3.8	11.6
18	15.9	16.5	15.8	7.2	4.7	2.9	8	7.9	***	2.9	7.1	11.7
19	15.5	16.6	10.8	10.8	1.7	1.1	3.8	13.4	4.3	7.6	10.6	15.1
20	16.7	15.2	11.3	15.2	7.5	0	0.1	5.8	0.8	***	10.8	14.6
21	15.3	***	10.1	14.3	4.8	0.4	-3.9	1.6	2.2	***	9.2	13.7
22	15.2	***	12.8	12.4	6.2	0.5	-1.1	4	5.3	***	10.1	12.5
23	19.4	***	19.7	11.5	10.6	7.5	-1.9	4.9	14.4	***	14.6	12.5
24	17.9	***	15.3	***	12.6	2.1	-1.2	2.3	10.3	12.2	12.1	15.1
25	14.4	12.4	18.4	***	17.6	12.1	10.4	-1.7	5	9.8	***	14
26	14.3	15.5	12.4	***	8	8.3	4.7	5	6.6	9.2	***	14.7
27	16.7	15.3	7.8	***	3.5	2	2.3	2.9	8.5	9.6	***	14.5
28	17.5	***	11.7	***	15	-2.7	-0.2	0.3	7.2	15	***	15.2
29	16.7	***	9.2	***	5	-1.4	-2.5	1.1	8.9	12.9	***	15.3
30	16.5	***	9.9	***	4.6	3.1	4.1	1.4	7.2	11.6	***	16.2
31	14.8	***	12.5	***	0.4	***	6.4	5.5	***	9.2	***	13.8
Avg	16.4	16.1=	12.8	9.7=	7.0=	2.3	1.7	5.8	7.8=	8.4=	11.1=	14.2=

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2015 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14	8.5	13.8	13.3	3.4	10.5	-1.5	-0.6	8.5	8.8	9.1	15.8
2	15.1	6.2	11.3	16.9	6.7	11.3	-2.6	-0.5	6.3	9.2	5.3	15.3
3	16.8	11.9	10.1	15.3	2.1	9.8	-0.4	6.2	4.8	7.6	5.2	15.2
4	17.4	13.5	11.8	12.3	3.7	3.4	***	11.8	7	6.9	8.2	15.8
5	15.3	14.8	14.6	10.5	3.8	0.5	***	3.6	7.2	11.5	8.5	16.8

6	14.5	14.5	13.7	10.7	4.4	-2.5	***	-1.3	4.8	13.3	17.1	15.9
7	15.6	14.2	15	***	1.3	-2.2	***	1.6	9.6	10.5	13.8	15.1
8	17.8	16.6	15.3	***	6.3	-2.6	***	3.6	6.4	11.7	12.3	17.1
9	15.6	16	15.8	13.1	12.5	-3	***	4.3	2.2	11.8	15.2	17.1
10	15.4	18.9	15.9	11.2	8.3	-1	***	-0.9	4.7	10.5	13.9	16.4
11	15	17.1	14.4	8.8	7.8	2.7	10.8	2	7.8	3.6	11.5	16.1
12	18.1	16.9	14.4	8.8	6.5	1.4	6.3	0	7.9	10.1	10.7	15.1
13	16.3	16.7	13.1	9.4	2.9	1.2	-1.6	5.1	7.8	10.5	12.5	11.5
14	14.3	13.3	14.7	8.2	7.2	8.8	***	5.2	6.1	11.5	12	10.2
15	15.1	10.5	15	5.2	9.4	13.1	1	2	13.7	8.3	8.8	10.6
16	10.3	7.2	13.5	3.2	6.9	2.8	2.3	7	11.6	5.9	7	11.9
17	6.6	10.6	12.1	7	7.6	4.4	2.8	10.1	6.4	7.7	9.8	12.3
18	12.1	14.3	12.6	7.8	5.4	0.4	6.5	10.5	6.2	11.7	10.2	14.7
19	12.7	14.3	16.8	7.8	15	-1.2	1	9.7	6.8	16.3	10.6	16.6
20	12.9	14.9	16.8	5.6	13.2	-0.8	2.3	9.1	8.7	17.4	11.7	16.6
21	11.4	10.7	14.3	9	11.7	4.1	5.1	7.4	11.5	14.3	6.7	15.3
22	16.4	9.9	11	8.1	6.3	1.6	5.1	5.2	10.9	12.5	7.2	14
23	14.9	10.2	14.8	9.3	4.6	8.1	5.4	6.7	9.4	11.7	6.9	13.8
24	15.1	14.6	13.8	11.2	9.4	7.4	1.8	6.6	8.4	14.3	13.2	15.5
25	21.3	11.6	11.7	7.3	7.8	1	3.6	9.8	9.1	15.8	16	13.3
26	18	14.6	14	9	6.2	-1.5	3	11	13.4	12.3	9	13.4
27	14.6	16.7	12	9.5	3.3	2.2	-0.4	10.4	13.9	12.3	6.4	14.7
28	14	15.7	11.2	8.5	3.9	4.4	0.8	8.4	10.5	9.1	9	15
29	14.1	***	10.6	5.9	2.4	7.5	8.8	12	7.5	9	8.5	19.6
30	14.5	***	12.7	5.9	11.4	1.5	1.9	11.3	9.4	12.9	12.7	16.4
31	12.4	***	14.8	***	3.4	***	1.4	12.2	***	13.3	***	16.9
Avg	14.8	13.4	13.6	9.2=	6.6	3.1	2.8=	6.1	8.3	11	10.3	15

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2016 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.7	17.8	18.7	11.8	-0.2	8.8	5.8	3.8	14	7.2	11	13.2
2	17.1	20.5	15.8	***	2.4	3.9	-0.5	2.4	10.8	6.6	13.3	10.7
3	16.5	13.9	16.1	***	2.5	4.5	-4	4.7	10	5.6	12.3	11.6
4	17.7	13.3	17.4	***	2	9.1	-1.8	2.7	8.8	1.1	14.7	16.1
5	20.4	12.4	16.8	***	0.4	2.8	16.5	1.4	6.2	1.7	12.2	14.1
6	20.3	12.7	18.9	***	1.8	2	1.6	1.1	10.9	7.5	11.7	12.4
7	10.6	13	16.5	***	10.2	3.3	-4.8	6.1	9.6	9.5	11.6	12.9
8	10.9	14.7	13.5	***	8.3	2	-1	2.4	6.1	9.4	14.7	13.9
9	13.9	14	12.7	***	7.3	9.9	5.5	-2.3	5.5	7.2	14.2	14
10	13.6	14.7	15.5	***	8.3	9.1	-0.8	0.2	7.4	3.6	12.2	12.5
11	17.3	14.6	15	***	4.6	1	-0.5	3	10.4	11.6	11.9	12.4
12	13.7	16.2	15.5	16.3	4.1	0.5	2.3	3.5	9.8	9.1	11.8	14.4
13	14.5	18.5	14.4	***	11.2	1.5	7.2	15.3	6.4	5.7	7.7	14
14	15.2	13.9	13.4	***	7.3	9.6	6.3	5.1	9.3	10.8	5.6	14.9
15	14.9	12.6	14.1	***	6.5	12.4	6.4	3.6	5.1	8.6	10.4	17.7
16	14.1	13.5	15.2	12.1	5.9	1.6	5.9	9.1	8	8.7	10.9	16.5
17	14.9	15.7	12.5	14.7	6.1	-2.4	6.8	8.7	4.5	4.1	10.2	13.8
18	12.8	16	16.3	14.1	9.8	3	2.1	10.6	4.6	10.1	5.5	14.6
19	17.5	16.4	14.7	12.3	8.3	3.9	9.1	10.1	0.8	12.2	8	18
20	16.9	15.2	12	11.3	4.3	5.6	15.1	9.1	8.6	11.1	11.7	16.6
21	16.9	15.3	9.5	11.2	3.1	2.3	6.9	5.5	9.2	12.7	11.7	17.1
22	18.5	14.7	13.8	8.1	8.7	-2.9	2.3	3.6	9.1	12.5	14.7	16.6
23	18.2	15	16.2	8.3	10.8	-1.8	0.6	0.2	6.8	14.1	15.5	16.6
24	16.3	16.7	12.5	4.8	8.4	4.6	-3.6	7.8	2.8	14.1	14.2	8.6
25	14.7	18.1	13.2	10.5	5.6	4.5	2.3	3.8	5.5	10.8	12.5	7.1
26	14	13.6	15.2	7.2	7.3	6.2	4.5	6.7	8.7	14.2	13.1	15.8
27	16.1	8.8	15.5	3.6	4.3	13.6	-0.4	4.9	10.8	12.8	13.6	17
28	15.3	14.1	***	4.5	3.6	2.2	6.5	12.7	4.5	12.7	16.1	14.9

29	15.2	13.9	***	7	5.3	0.1	9.3	7.8	-6.5	14.5	15.3	8.6
30	17.7	***	***	2.8	2.5	4.1	7.9	8.2	7.5	12.2	15.4	8.3
31	17.1	***	14.3	***	3.6	***	7.4	10.3	***	9.8	***	12.5
Avg	15.9	14.8	14.8=	9.4=	5.6	4.2	3.9	5.6	7.2	9.4	12.1	13.8

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2017 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.2	17.3	16.5	15.2	8.1	6	5.2	17.4	2.1	11	14	13.4
2	15.9	14.3	16	14.4	11.7	10.4	4.2	9.1	5	12.7	15.9	15.6
3	8.6	14.3	14.4	12.8	10.9	7.1	1.4	2.9	3.3	11.5	17.1	12.7
4	8	16.7	15.3	11.5	10.8	10.9	4.2	7.3	2.7	8.8	14.1	12.5
5	11.6	13.9	16.6	12.7	10.6	6.4	3.1	4.7	15	7.2	15	11.9
6	11.1	13.9	15.9	12.3	12.9	6.1	3.3	2.3	10.2	6.9	9.3	12.7
7	10.3	16.1	18.2	12.1	8	7.5	2.9	-0.7	11.6	8.9	5.5	13
8	10.5	17.8	15.6	14.7	11	-0.1	6	6.5	5.4	9.1	4.6	12.5
9	10.4	17.7	11.1	11.7	10.8	-4.9	13.4	5.9	6.4	6.9	7.4	11.2
10	12.5	18.1	***	14.2	8.1	10.4	4.2	15.6	13.2	5.1	10.5	7.5
11	12.4	18.4	***	14.7	10.3	9.3	-0.7	7.8	12.3	1.9	11.8	10.1
12	13.5	16.5	***	15.5	5.9	10.3	-1.7	2.5	9.6	8.2	12.5	9.9
13	8.5	16.2	***	12.2	5.7	5.7	-1	5.9	13.3	7.5	14.7	13.3
14	10	16.8	***	5.1	7.2	3.8	0.9	2.8	10.3	8.2	13.1	9.6
15	11.6	17	***	2.9	3.4	2.2	10.3	7.8	8	10.2	5.5	7.1
16	5.5	17.5	***	***	7.5	-2.9	1.5	4.1	7.3	6.1	5.8	12
17	4.5	19.2	9.8	***	4.7	3.8	-2.1	3.5	7.3	4	3.4	15.3
18	10.8	18.6	13.1	4.9	5.1	3.4	-0.6	1.8	10.4	2.5	5.9	12
19	16.2	13.6	14.6	3.3	3.5	5.7	-0.6	-0.9	7.6	8.9	8.1	11.3
20	13.3	13.1	15.5	2	5.4	2.6	3.3	0.3	9.8	6.2	11.3	9.6

21	12.8	12.4	13.3	7.2	3.3	0.3	-1	8.1	11.9	9.8	13.6	12.6
22	13	13.5	16	3.4	5.9	7.1	-0.3	4.1	10.5	12.8	10	15.9
23	17.7	14.2	17.5	4.4	6	-0.4	-0.8	2.4	7.5	13.8	9.5	13.4
24	17.3	15.1	11.7	7.2	9.1	-4.8	***	2.5	5.8	11.4	10.5	14.7
25	12.7	12.8	10	8.8	6.2	-4	8	-0.4	10.1	12.6	9.5	10.7
26	12.2	11.3	10.2	5.1	4.9	-3.4	1.1	-1.8	3.5	7.2	8.6	7.8
27	14.3	8.6	8	12.4	4.2	3.4	-3	1.2	0.8	3.3	8	10.2
28	14	13.5	8.3	***	2.7	6.2	-0.6	6.4	7.9	4.4	5.9	12.7
29	10.7	***	11.7	***	1	1.8	8.7	10.3	6	6.2	9.3	13.9
30	13.5	***	9.6	5.4	1.7	3.9	8.7	7.8	7.2	13.6	13.8	15.9
31	17.9	***	18	***	9	***	6	5.1	***	13.5	***	13.2
Avg	12.1	15.3	13.6=	9.5=	7	3.8	2.8=	4.9	8.1	8.4	10.1	12.1

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2018 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12	13.1	15.4	15.8	5.1	10.1	10.2	0.7	6.5	17.1	7.5	16.2
2	8.2	15	14.2	15.8	8.8	8.5	2.2	-1.1	8.3	8.9	7	14.5
3	12	14.3	15.8	13.8	4	1.6	-3.2	4.2	5.1	4.7	4.3	14.6
4	11.5	14.1	15.3	16	1.3	2.9	-6.3	6.2	3.1	0.7	11.3	13.2
5	16.8	13.9	17.4	15	1.3	0.9	-4.9	0.5	9.6	2.9	6.4	15.5
6	12.7	16.3	16.9	13.4	4.3	-0.5	-4.1	-1.9	8.5	6.7	5	13.4
7	14.7	16	15.6	13.6	5.4	2.4	-4.6	-0.6	4.9	8.4	5.7	14.7
8	13.7	13.1	11.2	12.8	10.3	4.6	-2	-2.2	3	9.6	3.5	12.6
9	11.5	17	8.1	14	5.4	12.6	-0.4	1.6	2.3	11.5	7.1	10.7
10	11.8	16.3	11.8	11	0.5	4.4	5.4	1.6	-1.3	11.8	8.5	10.1
11	13.3	15	14.7	9.1	9	3.4	2.3	0.9	2.3	12.3	10.4	8
12	17.8	15.5	***	11	9.3	0.2	14.8	8	7.9	6.4	13.5	13.2

13	15.5	17.4	15.9	14.2	8	7	8.5	2	6.8	6.2	14.5	15.3
14	17.7	15.5	15.3	13.6	9.2	10	2	5.6	3.9	8.7	14.9	15.5
15	14.5	15	11.9	12.2	4.8	10.9	0.3	7.5	3.9	10.2	13.1	17.9
16	13.3	16.2	10.6	12.7	0.6	1.9	0.5	6	8.8	9.8	12.3	17.7
17	14.8	14.5	10.2	12.3	-0.1	-0.7	-0.1	1.8	4.6	8.1	13.6	18
18	16.1	15	13.4	12.1	0.3	10.9	1.2	-3.6	5.2	6.5	10.6	17
19	16.6	17.1	12.3	9.1	5.7	2.7	1.3	5.8	4.5	9.4	12.7	14.5
20	15.6	18.9	14.7	9.7	10.6	-1.1	-0.1	7	3.9	5.5	13.4	14.2
21	16.6	16.3	13.8	9.4	9.9	-1.2	3.9	8.5	2.2	2.8	7.8	15.5
22	15.6	16	12.6	6.2	11.2	0.6	0.9	6.7	1.4	5.2	4.2	14.5
23	14.9	15	11.9	6.7	6.8	-1.9	4.2	6.9	4.6	8.3	7	13.9
24	15	11.2	12	11.7	8.6	2.8	7.5	8.4	8.8	9.5	10.7	18.2
25	15.8	9.8	12.8	10.6	8.6	1	8.1	3.3	19.7	10.7	13.7	18.8
26	16.1	9.9	12.3	14.4	7.9	-0.4	3	2.7	7.2	12.4	15.4	15.6
27	13.8	11.7	10.9	***	6.6	3	5.4	-0.5	4.6	12.4	11.6	14.4
28	15.6	12.3	18	8.8	4.2	0.1	1.1	1.2	5.2	12.6	7.8	11.7
29	15.2	***	15.8	7	3.8	-1.1	1.1	-0.3	6.5	14.4	5.4	10.5
30	15	***	15.5	3	-0.3	8.6	1.8	3.4	5.4	9.1	9.4	17.8
31	13.2	***	15	***	3.8	***	-1.7	8.9	***	7.8	***	15
Avg	14.4	14.7	13.7=	11.6=	5.6	3.5	1.9	3.2	5.6	8.7	9.6	14.6

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2019 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.3	15	11.8	10.2	11.1	4.5	7.6	6	4	5.4	12.1	11.8
2	11.1	15.3	16	7	12	2.8	6.6	3.7	3.3	4.9	14.7	15.4
3	11.2	15	15.4	10.8	13.8	7.7	4.1	6.7	2.7	12.3	9.8	9.6
4	14.2	13.4	13.5	14.1	11	9.6	4	3.7	3.3	7.7	13.6	6.6

5	14.6	12.7	14.8	10.7	10.5	9.6	0.8	-2.3	7.2	12.1	14	10.2
6	13.5	14.4	15.5	10.4	10.6	1.4	0	2.8	6	8.4	15.5	15.5
7	13.1	16.1	16.3	12.8	9.8	-0.9	3.6	2.7	4.3	9.2	***	14.8
8	18.3	17.3	13.9	12.3	9.3	5.7	2.6	4.8	10.2	7.2	7.9	12.7
9	18.1	19.2	13.9	9.1	6.2	4.3	4.8	-1.8	9.1	7.2	12	12.4
10	16.6	18.9	14.6	11.9	2.8	6.9	5.5	-2.6	7	7.2	13.7	12.2
11	16.3	15.8	12.8	12.1	4.5	2.4	7.1	5.9	7.9	5.6	14.4	13.6
12	15.3	15.2	13.4	11.3	5.8	8	5.9	2	7.7	10.4	15.8	15.5
13	14	16.7	12.5	10.6	8.3	-0.6	4.5	5.3	5.5	9.4	13.9	16
14	14.3	15.5	15.9	13.7	11.6	-4	0.8	-0.3	1.3	6.3	13.5	15
15	16.4	15.4	14.9	9.6	10.7	-1.6	4.1	-0.4	4	9.4	13.2	10.6
16	17	17.3	15	7.2	9.6	-0.3	2.4	7.2	7	8	15.9	6.9
17	16.9	15.4	15	8.8	5.5	3.8	7.8	5.2	8.1	13.1	11.9	8.7
18	16	12.6	15.8	11.3	12.8	1.1	8	8.5	13.9	15.8	10.4	15.2
19	11.3	16	14	9.1	11.6	0.3	9.1	6.2	14.9	17.6	11.5	15.2
20	9.1	17.1	16.7	12.5	11.6	5.6	-0.8	0.8	13.6	13.5	10.4	14.8
21	10.4	15.6	14.8	10.2	6	5.6	-5.8	2.2	13.2	8.8	9.8	15
22	15	16.4	13.3	9.6	1.1	7.5	10.9	4.3	4.7	7.6	12.3	13.4
23	14.9	15.3	15.8	10.6	1.7	6	7.2	2.8	1.7	6.3	14.4	13.9
24	13.3	15.2	15.3	10.6	1.9	0.7	6.8	5.7	2.3	8.4	15.7	17.3
25	13.8	15	13.1	8.3	5.6	0.4	6.7	11	3.4	16	15.6	15.7
26	12.5	15.4	11.7	8	5.6	6.2	1.1	3.7	***	14.7	10.9	14.9
27	13.8	13.6	11.8	10.7	6.7	4.8	-2.1	7.7	5.9	10.9	12.7	12.5
28	15.6	9.7	12.3	8.5	9.3	9.7	8.1	6.1	7	9.3	13	11.9
29	16.3	***	10.9	9.9	4.9	4.8	5.4	5.7	10.4	7.1	18.3	16.3
30	16.3	***	10.1	12	2	9.4	10.6	8.3	7.6	4.4	13.9	15
31	15.4	***	16.8	***	7.6	***	5	4.1	***	8.4	***	14.7
Avg	14.6	15.4	14.1	10.5	7.8	4	4.6	4.1	6.8=	9.4	13.1=	13.3

Daily Minimum Temperature (C) Data for station [0123685 X] - QUEENSTOWN -31.9170 26.8780 1108 m 2020 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.2	17.7	12	12	6	5.1	---	---	---	---	---	---
2	16.5	18.4	14	11.6	6.1	4.3	---	---	---	---	---	---
3	18.5	17.7	12.5	12.5	9.3	3.6	---	---	---	---	---	---
4	19.9	19.1	13.6	13.9	8.2	5.9	---	---	---	---	---	---
5	17.6	17.9	16	13.2	5.1	2.5	---	---	---	---	---	---
6	16.6	15.6	17.9	11.4	4.4	1.9	---	---	---	---	---	---
7	18.2	13	13.8	5.1	9.5	1.6	---	---	---	---	---	---
8	17.7	15.2	16.7	1.2	6.1	1.5	---	---	---	---	---	---
9	15.8	13.2	16.1	10.1	4.9	1.2	---	---	---	---	---	---
10	15	15.5	16.2	11.9	3.5	12.2	---	---	---	---	---	---
11	16.4	14.1	11.9	11.2	5.8	5.4	---	---	---	---	---	---
12	***	14.5	15.6	10.3	4.5	1.3	---	---	---	---	---	---
13	17.2	15.4	12.7	7.4	5.5	-0.4	---	---	---	---	---	---
14	16.8	16.2	13.9	9.8	1.9	-2.3	---	---	---	---	---	---
15	17.9	18.4	14.7	10.1	3.6	-4.2	---	---	---	---	---	---
16	18.6	16.9	12.5	7.8	2.5	2.3	---	---	---	---	---	---
17	19.2	16	11.9	5.2	0.3	1	---	---	---	---	---	---
18	15.8	15.4	15.3	5.7	2.5	-2.2	---	---	---	---	---	---
19	13.9	15.6	16.3	7.1	5.5	-0.8	---	---	---	---	---	---
20	12	17.4	13.3	14.7	3.1	5	---	---	---	---	---	---
21	14.4	16.5	16.6	13.5	2.8	3.9	---	---	---	---	---	---
22	14.4	15.2	15.2	14.4	6.4	-1.3	---	---	---	---	---	---
23	13.3	11.1	15.7	13.3	5.5	4.8	---	---	---	---	---	---
24	15.4	9.8	13.7	13.6	3.7	***	---	---	---	---	---	---
25	14.6	10.7	16	12	10.3	***	---	---	---	---	---	---
26	11.6	16.8	7.7	11.7	2.7	***	---	---	---	---	---	---
27	8	15.2	4.7	10.4	2	***	---	---	---	---	---	---

28	9.8	10.6	8.9	9.4	5.6	***	---	---	---	---	---	---
29	13.6	10.4	10.3	8.2	8.8	***	---	---	---	---	---	---
30	16.4	***	15.1	4.2	4.8	***	---	---	---	---	---	---
31	15.7	***	14.5	***	5.4	***	---	---	---	---	---	---
Avg	15.5=	15.2	13.7	10.1	5	2.3=						

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2007 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.9	18.3	18.9	***	8.7	11.3	5.1	4.8	8.4	14.4	14.5	13.6
2	12.1	16.6	17.7	15.9	10.4	10	4.4	8.9	9.6	14.3	12.5	16.3
3	16.6	18.5	18.7	15.7	11.9	7.8	1.8	7.9	10	14.1	12.1	12.6
4	17.3	17.3	14.4	14.7	10.4	7.1	2.1	5.1	9.7	10.4	11.8	12
5	18	17.7	14.3	16.8	11.9	11.6	3.3	2	14.7	10	13.4	13.8
6	18	17.5	14.7	16.1	13.3	8.3	3.1	6	12.9	14.7	11.5	12
7	13.7	16.1	13.3	14.7	11.3	7.6	8.7	4.6	12.3	10	10.8	12.9
8	13.1	17.9	13.9	14.1	11.2	4.7	4.3	3.4	11.1	7.1	10.1	15.3
9	13.2	20	16.7	12.7	9	5.4	1.8	3.1	10.4	9.7	13.5	14.7
10	17.2	17.5	14.6	13.3	8.7	3.3	0.5	7.1	9.8	10.1	12.5	16.1
11	17.3	13.1	15.4	14.5	6.7	3.6	4	11.9	11.5	10.8	10	14.8
12	19.2	12	15.9	11.5	8.7	2.3	6.4	8.3	13.7	12.1	12	17.8
13	17.7	14.1	21	10.9	8.2	7	5.2	6.5	10.4	14.5	10.5	16.4
14	17.1	13.6	17.5	8.6	11.6	3	2.6	6.1	9.9	15.2	12.3	15.3
15	17.8	12.9	18.5	13.1	10.6	2.4	3.7	5.4	9.9	13	13.3	14.8
16	15.1	16.8	18.1	12.6	9.7	1.7	4.3	6.8	12.3	13.5	13.1	16.5
17	15	15.1	18.6	10.1	6.5	-0.4	4.5	4.7	10.5	13.1	12.9	15.9
18	17.9	17.8	14	16.1	8.1	4.7	6.3	2.5	9.8	11.8	12.1	13.9
19	16.3	18.6	12.9	14.4	10.4	1.8	4.8	4.5	12.6	11.8	15.8	12.9

20	14.6	18.8	9.3	13	5.5	1.2	5.2	9	14.2	11	15.9	12.1
21	15.9	18	13.3	14.9	4.8	1.7	7.2	9.2	11.4	14	14.6	16.8
22	16.3	19.2	14.1	11.8	4.5	3.6	7	14	14.3	17.3	14.5	17.4
23	17.7	18.9	15.6	14.7	3.9	2.5	6.2	13	11.6	14.6	15.1	20
24	19.7	18.3	15	12.9	1.5	3.4	11	7	10.7	11.7	13.3	18.4
25	19.9	20.2	15.1	11.6	3.1	7.1	9.2	4.8	9.7	9.3	11	18.6
26	19.7	19.1	18	13.5	2.5	6.2	5.1	8	10.1	12.3	13.1	15
27	18.8	20.7	17	11.9	4.1	5.8	6	8.2	15.9	17.6	12.3	14.7
28	17.2	20	17.6	6.6	3.2	5.9	4.1	8.3	14.1	15.6	11.5	15.4
29	19.1	***	20	3.1	3.8	3.1	4	5.1	14.2	16.5	13.3	15.3
30	15.8	***	14.7	7.6	7.6	3.3	5.7	6.6	14.1	***	15.4	15
31	15.5	***	10.9	***	10	***	2	8.3	***	***	***	17.7
Avg	16.6	17.3	15.8	12.7=	7.8	4.9	4.8	6.8	11.7	12.8=	12.8	15.3

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2008 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.9	19.1	18.8	15	7.9	5.3	2.7	6.7	6.3	11.1	15.6	13.1
2	20	17.9	17.4	13.4	6.2	5.6	2.9	6.9	2.9	10.2	15.2	18.6
3	14.2	17.6	16.9	12	7.7	11.4	3.5	9.9	7.6	10.2	10	15.9
4	14.9	16.8	17.3	13.5	11.8	7.9	4.5	8.3	4.3	10.8	7	14.9
5	15.7	19.9	17.8	15.6	9.4	6.7	3.1	10.9	7.9	9.7	14.3	16.2
6	17.2	19.8	17.9	12.5	8	4.8	8.1	7.2	3.6	11.9	15.6	15.6
7	16.9	16.7	17.7	10.6	9.1	4.6	5	7.1	5.2	12.8	11.7	15.9
8	13.3	16.3	18.6	10.2	7.8	6.7	5.7	11	8.5	16.7	11.5	17.4
9	9.9	17.2	16.5	10.6	13.8	4.1	7.8	5.8	9.4	12.4	12.3	18.2
10	15.1	15.7	16.9	11.3	11.3	3.9	3.2	1.8	8.6	8.3	12.5	19
11	18	17.8	18.2	12.6	9.4	8.8	0.3	2.5	8	8.1	15.6	16.6

12	20.4	15.9	15.6	12.1	8.7	6.1	4.7	4.1	8.7	13.6	15.7	14.7
13	19.6	14.9	14.7	12.4	10.9	6.2	3.2	7.1	6.8	13.7	15.9	13.4
14	19.4	16.8	14.3	9.4	9.6	7.1	0.3	10	16	13.5	15.2	16
15	20.2	16.9	17	10.3	14.7	7.9	9.4	12.3	12.3	12.9	14.1	14.9
16	17.4	18.3	9.6	10.3	15.5	5.7	8.3	9.3	8.1	11.5	14.9	16.3
17	15.5	17	10.5	7.4	13.7	11.9	7.7	7.8	5.4	13.9	14.2	16.8
18	16	18.8	14.7	7.9	12.3	12.3	6.2	6.7	5.2	13.7	12.4	***
19	16.5	18	12.7	12.1	11.4	10.2	9.6	8.3	8.2	11.9	12.6	20.2
20	16.5	18.2	14.2	9.4	11.7	10.2	7.7	10.1	6.2	14.5	16.6	19.3
21	17.6	19.7	13.4	7.8	12	7.6	6.6	11.2	7.1	14.6	18.4	18.1
22	18.3	17.5	14.7	8.9	10.3	5.9	7.3	11.4	5.3	10.9	16.8	15.6
23	16.6	17.3	13.2	4.9	8.8	5	6.4	11.4	7.6	9.8	16.3	14.7
24	14.8	18.5	13.2	6.1	7.6	5.9	6.7	13.5	9.1	9.1	14.7	12.4
25	17.2	17.8	16.2	10.6	9.8	2.2	8.3	9.7	11.2	11.1	17.2	9.8
26	18.5	17.2	16	9.2	10	4.2	7.2	5.2	8.9	11	15.8	14.7
27	19.3	17	16.3	12.5	9.3	7.2	7.6	8	8.2	15.8	15.5	16.4
28	18.7	16.2	16.6	12.1	9.3	6.1	4.9	6.9	9.2	12.5	16	17.7
29	17.3	17	14.2	12	10.9	5.5	6.3	5.7	9.8	14.3	16.9	15.9
30	18.5	***	14.7	10.9	14	2.1	9.2	6.9	9.8	14	13	15
31	17.2	***	14.5	***	6.7	***	9.9	5.4	***	13.6	***	15.4
Avg	17.1	17.5	15.5	10.8	10.3	6.6	5.9	8	7.8	12.2	14.4	16.0=

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2009 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.9	18.9	18.1	17.2	10.6	8.3	0.9	9.2	10.1	12.4	14.7	10.9
2	16.6	19.9	18.3	18.1	15.3	5.2	1.2	8.9	10.3	12.4	12.8	12.2
3	15.5	16.9	19.5	17.4	15.3	6.2	3.3	6.8	10	11.6	12.2	13.7

4	16.5	15.7	19.7	14.8	16.6	8.2	8	7.4	6.8	16	13.7	13.7
5	13.4	16.6	18.8	19	12.8	4.8	4	7.8	12.5	15.6	14.3	13.3
6	16.9	19	18.1	20.2	14	8.6	8.5	9.6	9.9	12.3	15.5	16.1
7	19.4	18.2	19.4	15.9	14	5.2	5.2	9.8	9.7	13.1	16.5	19.3
8	19.5	16.7	19.3	16.9	12.6	3	3.5	12.1	10.1	10.4	21.8	15.9
9	17.4	20.1	17.9	16.8	13.2	14.1	5.2	10.8	8	11.4	13.3	15.4
10	15.5	18.5	18.7	15.7	12.2	13.9	4.1	12.3	8	11.8	11.9	14.9
11	15.3	16.7	18.6	14.9	9.9	11.1	1.9	9.3	5.2	15.2	11.6	14.4
12	18.3	15.9	18	13.3	13.6	18.1	5	10.5	4	11	16	13.5
13	***	17.5	19.9	12.5	16	15.1	3	6.9	8	9.1	15.2	13
14	17.5	16.4	18.2	12.7	14.4	10.4	5.6	2.9	6.7	12.3	11	12.1
15	16.9	14.9	17.9	12.3	18	4.2	3.3	4.3	12.9	12.8	10.4	12.1
16	17.3	12.8	17.7	11.3	15.7	8.3	-0.4	4.7	12.8	12.9	9.7	14.3
17	15.7	16.8	11	10.6	16.1	16.6	0.1	7.5	10.9	11.9	9.4	13.4
18	15.2	18.8	11.2	13.4	14.9	16.3	1.7	9.1	6.9	10.5	9.4	15.4
19	15.7	18.5	10.7	14.5	15.6	9.4	2.1	8.9	3.5	10.1	11.4	16.1
20	14.8	18.1	17.1	12.2	15.6	8.4	4.8	4.8	5.5	9.6	10.8	16.3
21	16.2	21.5	19	11.6	13.8	10.3	3.5	2.2	6.6	11.8	13	16.1
22	16.6	16.8	17	9.9	15.5	11.3	5.8	4.7	10.4	11.7	15.1	17.3
23	16	16.6	16.7	13.1	18.5	7.9	3.7	9.2	10.8	11	14.7	17.3
24	16.2	18.4	19.8	13.3	***	7.9	2.7	6.7	10.1	14	16	14
25	19.7	20.4	21.2	15.8	18	5.6	0.2	5.1	12.6	14.1	16.3	14.2
26	20.6	21.2	21	13.3	16.6	4.6	1.6	12.3	9.5	14.2	13.2	14.4
27	16.5	21	22	11.8	17.6	2.3	3.3	5.4	10.5	14.7	13.1	14.3
28	16.3	20.4	21	11.7	15.6	1.4	2.6	2.7	7.5	10.9	12.7	13.4
29	16.5	***	19.5	14.5	13.5	0.8	4.3	3.5	9.2	10.7	13	14.2
30	17.3	***	20	13.7	12.1	-0.9	8.2	12	9.2	7.6	12	15
31	18.6	***	21	***	11.5	***	6.9	10	***	11.5	***	18.4
Avg	16.8=	18	18.3	14.3	14.6=	8.2	3.7	7.7	8.9	12.1	13.4	14.7

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2010 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.1	17.7	15	17.1	13.2	5	8.6	12.8	11.8	13.5	16.7	15.3
2	19	17.7	14.3	15.5	14.4	5.6	6.5	8.2	8.4	14	16.3	15.3
3	17.9	17.8	14.2	16.5	14.4	3.7	7.6	8.5	6.1	13.9	17.4	15.3
4	14.5	16.5	15.9	14.8	13.1	6.1	8	8	6	12.1	14.7	13.3
5	14.4	17	17.3	14.8	9.2	7.3	10.9	7.8	7.3	12.3	13.3	14.6
6	14.5	18.6	18.1	16.8	9.5	4.3	9.9	8.6	8.8	15	13.8	13.3
7	16.8	21.1	18.2	15.4	8.7	11.9	9.4	9.8	9.6	17.1	13.4	12.2
8	18.3	18.8	16.2	14.1	14.1	7.3	8.1	9.7	11.8	13.9	14	14.9
9	17.9	18.7	18.2	13.7	12.8	6.3	7.4	7	11.5	13.3	11.1	14.8
10	19.2	20.7	17.6	13.1	8.8	9.2	8.1	6.2	10.2	12.3	11.4	15.4
11	18	20.1	18.9	11.1	9.2	9.5	7.7	3.4	9.9	12.4	11.2	13.6
12	15.8	20.8	17.9	11.8	6.2	8.3	3.2	3.1	8.4	8.9	13.6	13.1
13	18.2	19.2	16.6	13.3	7.6	7.1	1.2	4.6	9.1	8.4	11.7	16
14	14.6	17.6	14.8	14.3	13.2	4.3	2.2	4.6	21.1	10.2	13.5	14.7
15	14.7	17.4	15.6	15.5	13.9	3.2	5.1	6.1	13.1	9.8	14.3	13.8
16	14.3	16.1	17	15.7	12.8	2.2	3.7	4.2	9.7	9.5	14.8	14.2
17	16	14.7	15.3	15.5	12.8	3.3	2.2	7.4	7.6	7.2	11.2	15.8
18	19.1	16.8	14	12.4	13.5	1.1	3.5	11.7	10.9	11.9	12	16.8
19	16.1	16.8	13.3	13.9	12.4	2	5.7	3	15.3	12.9	14.7	17
20	16.5	15.9	19.3	10.2	12	3.8	5.3	1.9	16.3	14	17.9	17.2
21	17.7	18.1	17.2	8.1	10.5	2.8	3	2.6	11.1	16.2	15.6	17.1
22	18.5	20.5	17.6	9.9	9.6	6.8	3.7	7.1	11.1	13.6	15.3	18.2
23	18.5	20.3	16.7	5.7	9.4	7.2	7.2	3.7	8.6	14	12.4	18.5
24	18.5	18.7	16.1	4.3	8.5	4	10.7	3.4	11.5	14	11.9	16.7
25	19.6	18.8	17.1	6.7	9.8	4.2	9.4	***	10.7	10.4	14	15.7
26	16.8	16.9	18.9	10.1	12	4.2	5.3	6.6	11.6	8.8	17.1	15.6

27	17.6	16.2	14.1	11	12.6	9.4	9.2	4.7	8.1	12.5	17.8	16.8
28	14.5	15	11.7	11.2	7.9	5.9	13.2	5	4.8	12.3	14.6	18.1
29	14.6	***	11.6	13.5	5.5	6	9.7	9	11.1	11.4	13.1	17.3
30	15.8	***	15.7	12.3	3.2	7.8	9.1	9.3	15.6	14.1	14.5	15.3
31	17.8	***	15.7	***	4.5	***	7.6	13	***	14.8	***	14.9
Avg	16.9	18	16.1	12.6	10.5	5.7	6.9	6.7=	10.6	12.4	14.1	15.5

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2011 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.4	17.2	15.8	19.4	9.5	1.9	3.5	3.2	12.1	13.1	8.5	17.2
2	17.6	19.4	15	14.5	9.6	4.7	-0.1	3.6	***	12.1	7.6	15.1
3	17.6	18.2	18.3	14.2	14.9	2.3	2.4	4.4	***	9.8	9.4	13.5
4	17.5	18.1	17	11.6	13.4	3.7	2.2	7.8	***	8	13.3	12
5	18.6	20.1	17.7	12.1	11.1	5.2	6.6	6.9	***	6.8	12.7	13.9
6	17	21	17.1	15.4	14.7	7.7	7.8	4.7	***	7.4	10.6	18.7
7	16.1	19.8	18.2	12	12.6	11.1	5.9	2.2	***	9.7	9.9	17.8
8	17.4	20.7	18.2	12.1	11.9	6.5	2.9	2	12.6	10.8	13.6	10.9
9	17.5	21.2	18.2	10.4	8.9	3.7	3.7	4.1	11.5	15.4	11.1	10.8
10	15.2	19.6	17.8	14.8	10.3	12	0.4	6.4	10.2	16.9	11	12.4
11	14.7	19.7	17.3	14.8	13.3	10	0.1	3.4	10.6	14.6	10.8	14.5
12	16.5	21	16.8	13.2	12.9	8.3	1.6	5	11.8	15.3	13.4	12.9
13	16.6	18.7	16.9	16.6	11.1	4.9	3.8	6.3	13.7	16.4	12.6	16.4
14	16.9	18.1	15	16	11.2	5.5	2.3	7.5	13.1	17.2	11.1	18.1
15	15.7	18.2	16.5	14	10.5	7	2.2	6.1	8.9	13.6	10.4	14.8
16	17.4	17.2	19.1	13.9	12.1	10.3	2.7	2.8	7.4	12.1	13.3	14.7
17	15.1	18.5	18.9	12.3	9.4	5.2	5.3	4	7.1	11.7	16.1	16
18	18.9	17.4	18	11.8	9.4	2.2	2.2	4.9	10.3	13.3	15.1	15.1

19	20.5	17.6	17.4	10.7	7.9	3.2	4.2	5.7	8.3	12.9	14.5	16.4
20	16.9	16.5	15.9	14.8	6.7	4.1	4.5	9.2	5.9	10.7	16.5	15.8
21	16.3	15.7	15.1	10.3	7.4	2.6	2.2	5.2	8.6	9.8	11.1	18.1
22	16.6	16.1	16.5	8.4	8.6	2.1	2.3	12.1	8.2	14.9	10.4	15.3
23	16.7	14.2	18.3	8.9	13	8.8	8.8	9.1	9.2	11.7	11	14.7
24	17	16.3	18.1	12.2	13.6	8.3	7.1	***	8.9	12.7	11	14.4
25	16	16.2	15.9	12.6	7.7	9.6	3.1	***	11.7	12.8	10.7	17.1
26	16.1	16.1	15	13.8	7.1	7.2	5	***	14.6	12.6	10.5	18.1
27	16	16.3	15.8	6.4	5.8	4.6	2.8	***	13.4	14.3	14.9	17.9
28	14.5	17.3	14.5	5.9	3.2	1.6	4.6	***	13.3	13	12.5	14
29	17.3	***	16.6	3.9	4.7	2.2	7	***	12.5	12.5	9.9	11.8
30	19.9	***	18.7	5.6	3.8	2.7	3.1	***	11.8	11.4	16.9	13.2
31	18.7	***	18.2	***	4.6	***	4.4	***	***	10.5	***	16.8
Avg	17	18.1	17	12.1	9.7	5.6	3.7	5.5=	10.7=	12.4	12	15.1

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2012 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.7	20.1	16.5	9.5	13.5	6	1.8	4.7	4.4	11.8	***	14.7
2	17.6	17.4	18.2	9.9	13.9	3.7	6.9	1.2	1.8	11.9	8.8	16.8
3	17.4	17.7	17.8	10.7	11.7	7.7	9.6	2	4.8	11.4	***	15.2
4	16.7	16.9	17	12.6	13.8	4.2	4.8	10.5	7.8	11.4	12.4	16.7
5	17.4	16.1	15.8	14	12.6	8.4	0.8	8	8.8	10.9	***	14.7
6	17.5	17.9	14.9	14.4	12.5	6.6	7.5	1.8	9.1	12.7	13.8	15
7	17.3	18.1	13.6	15.2	13.2	3.1	8.6	5	12.4	9.8	***	15.4
8	20.6	19.6	15.5	14.2	10.9	9.6	5.8	6.3	10.8	9.5	12.7	16
9	16.9	19.4	16.5	11.1	16.5	8.9	6.4	4.4	11.5	12.9	***	17.1
10	17.5	14.8	17	10.5	15.7	2.5	3.1	2.3	9.4	14.4	12.2	14.9

11	18.9	12.9	16.7	11.1	13.4	0.7	***	6.3	7.4	11	***	13.1
12	19.4	15.6	15.4	10.8	11.9	0.3	8.2	6.4	9.2	8.3	15.8	11.2
13	19.5	17.1	13.7	11.3	12	4.9	7.1	2.3	14	9.1	14.9	15.1
14	18.5	18.8	16.7	9.7	11	7.3	2.6	4.2	9.5	11.8	14.8	18
15	18.1	17.9	14.6	12.3	9.8	4.4	2.7	11.2	8.9	16.7	14.5	17.4
16	15.9	18.1	16.9	12.4	6.2	5.9	8.9	5.2	8	14.8	16.1	16.4
17	17.7	16.7	13.6	13	6.8	4.8	***	3.3	11	12.7	14	14.6
18	19	16.5	9.5	12.2	7.8	10.3	***	5.1	11.6	11.1	13.5	14.8
19	18.1	18.4	10.7	11.7	3.9	7.5	3.5	8.3	9.8	9	12.3	15.4
20	18.8	20.6	16.9	9.3	1.7	3.7	***	10.3	11.2	10.8	14.4	17.8
21	19.1	19.1	14.6	10.4	3.9	9.4	***	10.4	13.8	15.2	13.4	16.4
22	18.6	17.8	14.4	9.5	3	***	5.2	10.1	8.9	10.8	13	18.7
23	19.6	17	17.9	7.9	5.1	6.5	0.9	9.6	6.2	10.2	16.3	18.9
24	17.3	15.3	15.8	5	10.2	7.9	1.1	6.8	8	11	12.7	18.6
25	15.8	15.4	16.7	8.3	9.6	6.6	1.9	9.9	8.9	8.7	10.2	18.9
26	15.7	18.6	13.5	12.3	10.7	2.1	2.6	6.3	13.2	12.1	9.4	17.1
27	14.8	19.7	14.8	11.5	11.4	9.7	7.1	4.9	13.6	10.4	11.4	16.1
28	13.9	19.7	15.4	8.6	9.9	1.6	5.9	11.4	8.6	11.8	10.5	18.6
29	13.4	18.7	17	7.8	9.1	3.6	4.6	14.9	6.6	13.6	15	18.7
30	15.2	***	13.7	10.5	7.1	1	0.7	14	8.9	11.9	12.1	20.9
31	16.8	***	12	***	6.7	***	1	11.9	***	10.2	***	17.1
Avg	17.4	17.7	15.3	10.9	9.9	5.5=	4.6=	7.1	9.3	11.5	13.1=	16.5

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2013 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.5	16.6	13.3	17.9	11.5	10.3	10.7	5.1	5.2	7.6	11.4	12.4
2	14.5	16	15.1	14.7	13.5	8.8	8.8	6	5.4	15.6	11.3	13.5

3	14.7	16.7	15.8	10.2	12.1	7	7.7	6.2	4.7	13.2	8.7	16
4	12.9	14.5	16.8	7.2	8	2.7	9.8	4.4	9.4	13.3	11.8	14.6
5	12.9	13.9	17.7	8.5	6.5	1.5	7.9	5.2	9.2	14	15.3	13.1
6	15.8	15.8	19.9	10.3	4.5	2.4	4.4	5.2	6.2	11	17.4	11.9
7	17.1	15.9	18.9	10.5	5.7	2.7	7.6	10	7.5	10.3	13.4	11.8
8	19	15.4	17.3	11.7	10.6	9.1	7.1	7.3	11.5	9.3	10.8	14
9	17.1	17.2	14.3	10.1	7.3	2.5	6.9	6	10.4	10.6	14.5	16.3
10	11.9	19.9	12.6	9.7	5.7	-0.2	10.9	5.3	10.5	9.7	12.4	12.1
11	11.6	19.6	12.5	9.2	10.2	1.8	6.2	3.2	8.6	13.5	13.1	12.6
12	15.2	18.6	14.4	9	8	1.6	6.7	5.9	8.6	10.8	14	13.9
13	14.3	18.3	15.8	11.9	7.6	9.9	5.1	3.5	12.2	9.3	15.8	14.1
14	16.9	19.7	13.8	12.9	8.2	5.3	7.5	5.2	6.8	7.1	17.9	15.6
15	16.3	15.9	14.2	13.7	10.9	6.1	7.8	2.3	8.1	8.5	15.8	15.2
16	16.3	15.8	17.2	14.2	10.7	3.9	8.2	9.3	9.9	12.6	16.6	14.6
17	19.5	17	15.6	19.8	10.1	2	6.1	10.8	11.4	10.2	15.7	13.3
18	19.6	18.9	13.1	10.8	6.9	2.4	8.8	6.5	9.3	10	14.6	11.5
19	16.9	17	15	9.5	6.1	6.7	7.7	3.5	12.2	9.9	14.5	13.8
20	16.9	11.8	12.3	8.7	10	5.1	5	1.6	10.8	10.6	15.5	14.9
21	17.1	9.4	12.6	10.7	10.2	7.2	6.3	9.2	5.9	10.1	13.2	20.5
22	16.4	12.7	15.8	8.4	12.4	6.9	2.7	5.5	3.9	8.7	14.4	18.4
23	17.5	12.7	17.8	8.3	12.6	8.7	7.1	0.7	8.5	6.9	15.5	18.7
24	19.6	17.2	16.8	10.1	10.7	5	8.8	4	10.2	10.4	15.7	18.8
25	16.6	16	15	10	10.1	6	8.6	6.9	9.8	13.9	15.2	18.7
26	16.1	19.6	16	11.4	12.6	8.6	4.6	10.9	9.7	13.3	17.2	19.3
27	17.3	18.9	16.3	11.4	10.3	4.4	7.3	13.9	11.8	13	12	18.8
28	14.4	14.6	14.8	11.9	6.2	3	5.2	9.4	6.9	14.3	12.4	17.6
29	15.8	***	15.8	11.9	4.3	2.3	3.3	12.4	6.1	13.2	12.4	16.3
30	18.1	***	14.5	10.8	6	3.5	1.5	6.8	6.8	15.6	14.2	14.9
31	17.9	***	14.8	***	5.9	***	2.4	3.8	***	13.9	***	15.9
Avg	16.2	16.3	15.3	11.2	8.9	4.9	6.7	6.3	8.6	11.3	14.1	15.3

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2014 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.6	17.9	17.8	16.2	10	10.5	13.9	11.6	6.9	12	11.3	***
2	19.3	18.6	17.5	15.6	7.8	7.5	11.7	10.1	5	11.5	15.4	***
3	19.4	17.9	17	11.4	10.4	3.7	8.4	13.6	9.2	10.3	16.1	***
4	20	18	17.2	9.9	10.4	4.6	8	12.2	9.1	10.1	14.1	***
5	18.3	19.4	18.4	10.8	8.1	5.7	5.5	10.5	9.4	12.1	14.5	***
6	19.7	19.2	18.4	10.9	8	3.3	1.6	8	13.4	11.5	14.2	***
7	20.1	18.1	16.8	13.7	9.2	0.9	1.9	15.2	13.1	15.9	14	***
8	20.2	18.9	17.1	12.8	12.5	3.7	1.2	13.3	9.8	11	15.4	***
9	17.8	17.7	13.5	13.3	11.5	5	-1.9	13.4	16.1	11.2	15.3	***
10	16.2	19.5	13.4	12.7	8.4	3.3	1.1	10.7	14.3	11.1	***	***
11	16.3	19.7	16.3	12.7	9.2	0	0	15.5	14.1	11.6	***	***
12	16.1	21.4	11.9	12.2	6.4	0.9	4.7	13.2	11.5	15.7	***	***
13	15.6	21.8	8.7	12.6	10.6	3.8	3.1	12.3	12.8	12.5	***	***
14	13.9	20.8	13.4	15.7	9.7	5.8	1.3	10.3	12.2	11	***	***
15	16.3	19	15.6	12.5	11.1	6.8	0.9	7.4	18.2	13.1	***	***
16	19	19.3	17.4	11.5	9.4	7	5.1	10.7	17.6	11.8	***	***
17	19.1	17.9	17.4	11	6.9	4.4	8.4	10.4	15.5	9.3	***	***
18	15.8	20.8	17.5	10.6	6.3	5.7	6.8	12.3	14.9	10.4	***	***
19	17.6	20.4	16.8	14.1	6.1	5.1	5.2	14.7	7.4	10.5	***	***
20	19	17.2	15	16.2	9.8	1.2	2.2	10.8	4.5	11.2	***	***
21	17.2	15.9	14.8	15.4	11.8	2.2	4.5	10.9	6.8	13.7	***	***
22	16.6	15.1	16.4	15.6	8.4	3.1	2.5	6.5	10.6	14.2	***	***
23	20.2	17.4	17.4	12.9	8.8	3.2	6.8	7.2	17.6	13.4	***	19.4
24	20	16.4	17.7	10.1	11.5	8.5	2.8	9.1	16.6	17.1	***	17.3
25	17.1	16.2	19.4	8.6	12.7	4.7	6.5	5.7	12.6	13	***	16.5

26	16.8	15.4	16.7	8.7	10.7	10.4	6.8	5.6	11.4	12.2	***	16.6
27	17.6	14.7	15	9.1	7.7	5.6	7	7.9	11.9	12.9	***	16.7
28	21.3	18.4	12.4	6	9.8	2.5	3.5	4.2	11.6	18.5	***	16.1
29	20.1	***	13.9	8.4	7.9	3.5	4	4.1	13.7	19	***	17.9
30	17.5	***	14	10.4	7.7	6.4	6.7	8.1	11.7	13	***	17.3
31	17.5	***	16.3	***	7.1	***	8.1	9.5	***	11.1	***	16.5
Avg	18	18.3	15.8	12.1	9.2	4.6	4.8	10.2	12	12.6	14.5=	17.1=

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2015 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16	12.1	15.6	16	9.1	13.6	3.6	0.6	13.2	11.6	13.2	***
2	18.4	10.1	13.4	16	9	12.5	1.8	2.5	9.5	10.5	8.2	***
3	18.3	15.8	11.4	17.3	8.8	13.2	3.7	3.8	7.7	11.8	7.6	***
4	16.7	17.4	14.7	16.2	9.5	7	8.6	7.5	7.6	12.2	9.5	***
5	16.8	17.9	16	13.5	9.2	3.5	***	5.3	8.4	13.9	9.6	***
6	16.7	16.7	15.8	12.7	10.2	1.8	***	1.7	7.4	11.6	18	***
7	17.6	16.3	17.4	13.2	6.8	4.5	8.9	5.2	10.5	13.6	15.8	***
8	17.6	19	16.7	13.7	9.2	3.5	7.6	6.4	7.6	13.2	15	***
9	16.7	21.8	18.1	14.3	13.5	3.1	6.6	7.5	6.3	14.1	15.2	***
10	17.5	18.6	17.8	13.2	13	4.4	11.5	5.6	10	11.6	13.9	***
11	20	18.6	17.9	12.6	11.8	6.3	10.6	6	9.4	10.1	12	***
12	19.6	18.6	18.2	11.1	10.9	6.1	9.2	4.1	9.3	12.8	11.9	***
13	17.6	20.1	17.7	12.2	9.4	3.6	2.8	8.3	10.7	14.4	14.3	***
14	16.2	16.2	17.3	14.5	8.6	6.6	0.6	5.2	7.7	12.3	13.6	***
15	17.9	14.1	18.9	9.5	11.9	7.1	4.9	6.2	13.9	11.6	10.6	***
16	12.4	13.2	16.1	6.7	12.4	5.2	6.9	8.2	12.8	9.3	10.7	14.3
17	11.3	12.9	14.7	4.9	12.2	10.6	5.9	10.5	8.9	12.1	10.3	15.4

18	14.6	13.7	15.1	9.4	9.9	5.4	6.2	10.4	8.3	14.7	12.2	15
19	14.7	17.6	18.1	10.4	16.3	2.5	5	11.3	8.7	15.9	12	17.4
20	13.8	16.4	15.5	10.4	14.8	2.8	5.9	11.2	8.4	16.2	***	16.9
21	14.9	13.7	17.1	7.9	11.3	4.7	8.8	10.1	14.9	14.8	9.1	16.1
22	18.3	12.7	17.4	11.3	8.3	5.6	8.6	9.2	13.6	12.6	***	14.7
23	17.8	12.7	18.4	12.7	9.7	5.8	10.1	10.9	12.6	13.1	***	15
24	18.1	17	17.7	11.4	11.7	7.6	5.6	10.7	11.7	15.4	14.2	17.1
25	22	17	16.6	11.8	16	5.3	7.5	14.9	13.7	16	15.9	13.8
26	17.1	17.3	15.9	14.6	11	4.7	5	12.7	14.9	14.1	***	14.1
27	16.9	17.9	14.2	13.7	11.7	7.2	2.1	13.6	16.9	11.5	***	14.8
28	16.3	17.5	14.4	12	9.5	6.5	3.8	13.8	14.5	11.6	***	17.7
29	15.8	***	13.7	11.3	7	4.1	6.5	12.1	14.4	12.1	***	19.7
30	17.4	***	15.7	10.5	10.2	5.6	2.9	15.4	12.1	17	***	18.4
31	15.1	***	14.3	***	7.8	***	2.8	16	***	14.8	***	17.6
Avg	16.8	16.2	16.2	12.2	10.7	6	6.0=	8.6	10.9	13.1	12.4=	16.1=

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2016 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.4	21.3	17.8	13.5	3.5	7.3	8.3	7.7	12.5	10.3	14.5	15.4
2	19.8	20.5	17.8	15	5.3	7.1	1.7	4.8	14.1	8.6	14.5	12
3	17	17.1	18.7	14.8	7.5	7	0	7	12.2	6.9	14.8	13.7
4	17.9	15	19.3	13.8	8.8	11.4	2.3	5.5	12.4	5	15.1	16.5
5	19.9	14.5	18.4	13	4	8.9	10.7	2.6	11	5.3	14.5	15.9
6	20.4	14.7	20.3	11.1	6.3	7.4	7.7	3	10.6	9.9	12.9	14
7	13.1	15.2	18.1	10.4	11.9	6.4	3.8	6.9	11.4	11.5	12.9	17.4
8	12.3	15.5	15.8	9.8	12.8	7.2	0.3	4.7	13.2	12	15.5	15.4
9	15	13.4	15.6	11.4	11.6	7	4.6	1.6	9.4	8.3	13.8	17.4

10	14.4	14.9	16.3	13.5	11.8	12.1	6.2	3.4	9	6.5	12.9	13.4
11	17.9	16.1	17.1	14.4	9.5	7.7	3.4	6.4	10.1	12.6	13	13.7
12	16.3	17.4	15.9	15.7	8.7	4	5.1	6.4	12.1	10	11.8	14.6
13	14.8	18.4	16	15	10.3	7.4	7.5	10.1	11.6	10.2	11.4	15.5
14	18.7	17.4	14.8	15.2	11.2	6.7	4.7	6.7	10.6	12.1	9.7	15
15	15.4	16.8	16.7	14.9	10.9	9.4	5	8.1	7.5	13.3	11.1	17.5
16	15.3	15.4	16.2	15.4	11.1	7.3	9.9	9.8	10.2	11.3	11.6	16.3
17	15.5	16.9	16.5	17.3	12.5	4.6	9	10.1	7.5	8	12	15.2
18	15.4	18.1	17.3	16	12.8	3.9	6.7	9.9	5.8	9.1	10.1	15.1
19	15.8	16.5	16.3	16.5	11.1	6.4	10.2	11.6	4.4	13.4	10.8	18.9
20	17.6	17.1	14.4	14.1	9.5	6.7	8.9	11	8.3	13.3	14.1	17.2
21	19.2	15.7	12.6	0	7.9	6.2	8.3	9	13.8	15.1	14.2	17.5
22	20.2	16.6	11.1	11.6	10.7	2.5	7.2	6.1	10	15.8	15.4	18.4
23	19.7	16.9	14.3	11.2	10.7	4.2	3.4	2.8	10.2	14.8	15.2	18.8
24	17.9	20.8	17.4	10.9	11.3	4.2	0.1	7	10.4	15.1	15.8	10.7
25	15.4	21.4	17.5	11	9.6	6.2	5.5	6.7	9.5	14	13.7	10.5
26	14.8	15.5	18.3	11	9.9	5.1	8.3	8.7	10.1	14.8	12.4	14.6
27	16.1	13.2	15.3	7.5	8.2	5.1	4.7	9.5	10.9	14.2	14.9	16.1
28	17.9	15.5	12	9.9	7.2	8	6.4	12.1	8.3	16.2	15.7	16.6
29	17.5	16.2	10	9.5	7.6	3.8	9.5	12.2	5.5	14.6	14.5	15.3
30	19.4	***	16.9	5.4	7.4	3.2	9.4	13.3	11.5	11.9	16	13.8
31	19	***	16.2	***	6.9	***	8	12.7	***	11	***	16.2
Avg	17.1	16.7	16.2	12.3	9.3	6.5	6	7.7	10.1	11.5	13.5	15.4

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2017 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19.4	19.7	19.7	17.4	11.7	7.4	10.2	8.6	7.9	14.9	18.3	16

2	19.9	16.1	18.1	17.1	13.2	11.8	8.6	9.6	5.2	15.1	18.1	14.2
3	14.2	15.6	17.2	16.2	11.6	10.3	7.5	7.9	7.3	15.3	16.9	13.7
4	14.5	18.7	16.5	14.6	14.2	8.9	4.6	10.8	6.6	10.3	16.2	13.7
5	16.9	15.4	18	15.4	13.6	10.7	5.4	10.2	10.4	10.3	15.4	14.4
6	15.9	15.8	17.3	14	15.5	5.1	6.1	6.8	12.5	9.1	12.5	13.5
7	15.6	18	17.8	15.2	11.4	8.2	6.9	3.5	11.4	12.4	9.9	15.2
8	15.5	17.6	18.6	17.4	13.7	4.3	6.5	7.5	9.1	10.8	9	15.8
9	14.9	18	13.5	15.4	11.1	1.1	10.5	7.6	8.7	9.8	10.9	13.8
10	16.7	18.2	12.3	16	10	6.5	6.8	10.9	14.9	7.6	12.2	10.6
11	17.5	19.4	10.4	17.4	12.7	9.6	3.1	9.9	13.8	5.4	14	11.6
12	18.3	18	13.9	17.2	9.3	6.2	2.1	8.1	11.5	10.2	14.6	13.2
13	15.8	17.9	15.4	12.2	8.9	6.3	4.6	10.1	12.7	9.6	16.5	14.9
14	16.9	18.2	17.3	8.3	9.4	8.7	3.7	8.4	12.1	11.6	16.1	12.9
15	15.6	20	15.6	7.9	10.6	6.6	6.4	6.7	12.1	12.3	9.2	12
16	12.5	18.9	14.1	10.1	10.3	3.3	3.2	6.7	10.8	8.5	7.4	14
17	12.5	21	12.1	13.6	9.8	2	1	5.3	8.9	6	8.2	17.3
18	11.7	19.2	16.7	12.4	9	6.2	1.3	3.5	12.4	5.7	8.7	12.9
19	17.2	15.1	15.4	10.4	6.7	8.7	1.2	2.1	10.6	11	10.1	12.4
20	14.4	14.1	15.7	9.4	8.5	9.8	6	3.9	10.5	12.2	15.1	12.9
21	15	13.2	13.6	8.3	8.6	5.6	4.7	7.4	13.5	11.8	14.8	13.2
22	15.6	14.8	17	6.6	9.6	4.7	2.1	8.6	12.3	12.5	11.5	17.2
23	18.4	13.2	18.9	8.4	10.6	3.5	7.4	5.7	9.5	16.2	9.7	16
24	20.1	15.9	13.4	10.6	10.5	0.5	5.7	3	10	13	11.8	15.8
25	15.7	14	12.1	10.7	7.4	1.7	4.1	5	12.4	13.5	11.1	13.9
26	11.8	13.2	12.3	6.8	7.9	1.9	6.2	3.8	6.6	9.7	12.2	10.6
27	17.3	11.9	12.5	11.9	6.3	4.6	2.6	6	4.3	7.3	10.7	14.9
28	16.2	15.5	12.2	12.2	6	9.9	3.7	8.7	10.1	6.1	10.6	14.9
29	14.2	***	15.8	10.9	5.7	6.5	5.7	10.9	9.8	8.5	12.8	15.4
30	15.4	***	12.4	10	5.8	5.9	12.4	10.4	8.4	16.1	14.9	17.2
31	18.5	***	17.6	***	6.6	***	9.4	10.2	***	15.6	***	16.8

Avg	15.9	16.7	15.3	12.5	9.9	6.2	5.5	7.3	10.2	10.9	12.6	14.2

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2018 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.7	14.4	16.5	15.8	8	9	2.1	6.1	10.4	15.3	8.6	14.6
2	12.1	17.5	16.1	16.6	12.5	5.2	7.5	4	13.1	11.1	8.8	13.4
3	14.9	14.9	17	17.2	9.3	***	1.8	5.2	8.4	5.5	11	14
4	13.9	15.6	16.8	16.3	6.3	***	-1	7	5.2	2.5	13.4	12.9
5	16.7	15.5	17.6	15.1	4.2	***	***	4.9	8.4	5.2	9	13
6	15.3	19	17.2	15	7.2	2.8	0.2	2.9	9.1	7.5	6.6	15.5
7	15.4	18.2	16.9	6.2	12.6	4.3	3	3.5	9.1	12.1	8.6	14.8
8	13	17.7	13.7	12	12.8	5.1	3.8	2.3	5.3	12.9	6.9	13.9
9	12.7	19.9	11	13.1	9.1	5.4	8.3	4	6.6	10.8	7.8	12.4
10	11.7	18.1	13.5	12.6	6.2	5.8	8.5	7.2	2.8	13.4	10	12.2
11	13.8	16.3	16	11.7	10.3	4.8	5.5	4.4	4.2	11.3	14.3	10.8
12	18.3	17.5	16.2	11.6	11	3.6	5.8	1.3	5.9	8.5	13.2	15.1
13	16.5	18.4	15.1	15.7	8.2	4.3	8.3	4.7	8.7	8.3	13	15.8
14	18.5	17.5	16.5	15.6	9.8	3.9	5.7	11.5	8.6	8.4	13.5	15.7
15	15.6	16.3	14.5	13.8	8.7	4.6	3.2	10.3	7.9	11.9	14.9	19
16	14.7	16.6	12.8	12.4	6.5	2.9	1.5	9.7	11.2	10.2	12.9	19.1
17	15.4	15.7	12.1	11.9	4	2.1	2.5	5.7	7.4	9.7	14.6	18.7
18	16.9	18	13	14.7	5.1	7.2	2.7	4.1	9	8.3	12.6	18.1
19	19.5	19.2	14.1	12.3	9.1	5.7	3.4	4	8.8	9.2	12.8	14.8
20	17.8	19.2	15.7	12.5	10.3	8	3.3	6.4	7.6	7.1	13.3	15.2
21	16.9	17.6	15.7	10.9	***	5.3	4	9.8	4.5	7.1	11.1	15.5
22	17.5	17.4	13.6	10	8.9	4.1	3.8	9.9	5.5	5.9	7.8	15.8
23	17.5	18.3	13.7	9.2	7.7	2.5	3.9	9.8	9.4	8.6	11.8	17.8
24	15.8	13.6	13.2	16	6.9	4.8	5.2	9	13.8	11.1	10.5	16.5

25	16.3	12	15.2	13.4	9	1.2	5.9	9.4	13.5	10.8	16.3	17
26	16.7	12	12.4	11.8	11.1	5.3	8.8	7.3	11.6	14.2	15.5	19.4
27	17.3	13.8	14.1	8.6	9.5	6.5	4.4	5	10.9	11.8	11.9	14.9
28	15.9	14.1	16.3	10.1	8.1	4.6	8.8	3.5	9	12.1	8.7	13.3
29	16.7	***	15.1	12.1	8.7	2.8	***	4.8	7.5	15.7	6.9	15
30	17.1	***	17	9.8	5.9	4.8	6.7	6.8	9.2	11	12.2	18.5
31	14.3	***	16.2	***	5.2	***	5.1	13.1	***	8.4	***	18.6
Avg	15.8	16.6	15	12.8	8.4=	4.7=	4.6=	6.4	8.4	9.9	11.3	15.5

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2019 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.7	16	15.7	12.6	12.9	7	8.2	9.3	3.3	6.7	12.5	14.3
2	12.9	15.7	15.9	11.8	13.4	6.2	5.7	6	3.9	7.6	14.4	16.6
3	12.6	15.3	15.7	12.8	14	7.5	6	7.5	6.5	13.7	11.7	11.1
4	15.5	13.8	14.4	13.1	11.3	7.7	4.5	5.6	6.1	13.1	12.3	9.4
5	16.5	15.1	16.5	11.8	12.6	9.1	5.6	4.4	8.4	11.3	14.1	11.4
6	14.2	16.7	16.7	11	13	6	2.3	2.5	7.9	13	16.6	12.8
7	12.6	16.4	18.1	13.1	14.5	2.8	5.5	2.4	7.1	11.3	11.5	15
8	17.3	15.7	15.5	14.2	11	4.8	3.2	5.3	10.2	9.2	9.6	12.8
9	16.8	17.7	15.5	11.8	8.3	6.1	5.4	4.5	11.2	9.5	13.2	12.6
10	17.2	18.1	16.2	14.4	5.9	6.6	4.2	3.1	9.9	8.4	13.9	12.5
11	17.4	17.8	16.9	13.9	7.7	5	3.3	8.8	9.7	6.7	14.5	14.6
12	16.9	16.8	17.8	14.1	8	6.6	5.3	6	10.2	12.6	16.2	14.7
13	15.5	17.4	18.6	13.1	10.5	2.4	7	8	7.1	10.5	14.4	16.5
14	16.4	15.6	17.4	14.5	12.9	0.1	5	4.9	4.5	9.7	14.1	14.8
15	16.9	15.9	16.4	10.2	10.3	2.6	9.1	4.4	6	12.6	14.5	9.8
16	16.7	16.4	18	8.5	8.8	2	8.1	6	10	9.2	15.5	8

17	16.7	14.7	16.4	10.5	8.7	2.4	8.1	7.5	9.7	13.2	11	11.6
18	17.1	12.8	18.3	10.5	9.7	4.1	9.4	8.2	15.7	17.1	10.9	15.5
19	13.6	13.5	17.3	11.9	11.3	5.4	9.4	6.7	13.9	15	12.1	14.1
20	8.6	16.9	16.9	12.6	12.9	5.4	2.9	4.5	12.9	15.5	12.2	12.8
21	13.1	16.5	14.7	12.1	7	3	-0.9	5.6	11.8	9.9	14.1	15.7
22	18	16.1	14.6	11.5	4.9	2.9	0.6	7.4	8.2	8.4	15.4	13.7
23	14.4	15.5	15.1	12.3	6.7	4.6	13.1	5.6	6.7	8.1	15.3	13.9
24	13.4	14.6	17.5	12.7	6.5	3.9	4.8	6.6	6.6	8	15	17.2
25	13.4	17.2	15.6	11.2	7.2	4.2	1.3	9.4	5	11.9	14.7	16.6
26	13.1	15.9	12.6	11.5	8.1	5.7	4.1	7.8	4.2	16	11.7	17.1
27	14.5	15	12.9	11.3	9.3	7.5	2.9	9.8	7.6	14	13.9	12.8
28	15.5	15.1	12.9	10.5	10.2	6.9	8	8	10.1	9.8	15.2	11.3
29	16.2	***	11.3	11.2	7.8	8.9	6.4	8.8	9.7	7.7	16.1	12.7
30	17.7	***	11.8	9.1	4.7	8.7	7.1	6.5	7.5	8.8	15.3	14.7
31	16.8	***	15.4	***	9.1	***	4.2	7	***	11.9	***	14.4
Avg	15.3	15.9	15.8	12	9.7	5.2	5.5	6.4	8.4	11	13.7	13.6

Daily Minimum Temperature (C) Data for station [0127272A4] - UMTHATHA WO -31.5490 28.6730 745 m 2020 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.4	17.8	14.5	12.1	7.3	5.8	---	---	---	---	---	---
2	17	17.8	15.3	11.9	7.5	6.8	---	---	---	---	---	---
3	19.4	18.6	13.7	11.7	11.8	6.1	---	---	---	---	---	---
4	18.5	17.7	15.1	15.2	10.5	7	---	---	---	---	---	---
5	16.9	19.6	17.8	15.2	9.6	4.4	---	---	---	---	---	---
6	16.2	17.2	16.3	12.7	8.4	6.2	---	---	---	---	---	---
7	17.2	14.6	15.1	8.1	9.8	6.1	---	---	---	---	---	---
8	19.2	15.9	17.7	5.2	9.2	5.8	---	---	---	---	---	---

9	17.5	14.4	16.1	11.1	8.3	5.6	---	---	---	---	---	---
10	15.3	14.9	16.8	13.6	7.4	11	---	---	---	---	---	---
11	16.2	15	15.8	15	8.2	8.7	---	---	---	---	---	---
12	19.5	16.6	16.8	11	9.2	4.5	---	---	---	---	---	---
13	18.1	14.7	15.6	10.4	8.4	0.3	---	---	---	---	---	---
14	18.6	17.3	16.2	11.8	6.1	-0.4	---	---	---	---	---	---
15	18.1	17.7	15.3	11.6	6	-0.3	---	---	---	---	---	---
16	17.8	20.5	13.4	9.6	5.3	1.4	---	---	---	---	---	---
17	19.4	16.8	12	7.8	4.2	2.4	---	---	---	---	---	---
18	16.4	16.1	13.4	9.9	5.8	4.1	---	---	---	---	---	---
19	13.8	16.1	13.4	11.1	8.3	3.5	---	---	---	---	---	---
20	12.4	18.8	15.3	15.4	6.8	3.2	---	---	---	---	---	---
21	14	17.5	15	14.1	7.4	5.7	---	---	---	---	---	---
22	15.6	14.9	16.2	14.7	9.5	5.7	---	---	---	---	---	---
23	14.7	13.3	15	14.8	10.5	3.9	---	---	---	---	---	---
24	13.9	12.1	15.2	14.7	7.3	3.2	---	---	---	---	---	---
25	16.9	14.8	18.1	13.7	7.5	2.8	---	---	---	---	---	---
26	12.8	17.2	11.9	12.1	5	3.4	---	---	---	---	---	---
27	11.5	16.1	8.1	12.2	2.5	5.2	---	---	---	---	---	---
28	11.3	12.1	9.4	11.5	1	4.6	---	---	---	---	---	---
29	11.4	11.6	13.7	10.7	9.2	1.3	---	---	---	---	---	---
30	16.7	***	15.6	8.9	8	4.2	---	---	---	---	---	---
31	16.3	***	14.7	***	5.5	***	---	---	---	---	---	---
Avg	16	16.1	14.8	11.9	7.5	4.4						

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2007 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	5	11	9.3	5.3	-4.2	1.6	-3.8	-6.5	-8.5	8.5	7.4	5
2	6.5	11.1	7.6	9.2	-1.3	-0.8	-2.5	2	-1	9.1	4.1	5.6
3	6.4	11	10.4	6	-2.2	-5.2	-11	-5.5	-6.1	4.4	1.4	11.1
4	11	12	13.3	5.5	-2	6.1	-10.6	-10.6	-3	0.5	-7	5.5
5	11.1	11.2	6.4	4	-2.5	7	-10.4	-8	-4.3	-4.2	1.8	6.8
6	16.4	8.2	6.6	6.5	-2	5.7	-3	-5.4	-7.8	3.3	8	7.9
7	10.5	7.3	5	9	-2.4	2	-1	-0.2	2.6	0	2	7.4
8	3.1	10.9	5	7.5	-8	-3.1	-6.1	-8.9	2.6	1	-1	4.3
9	1.8	10.5	8	8.3	-5.4	-2.3	-12.7	-7.2	5.8	2.1	-2.9	9.5
10	2.5	11.2	6	7.8	-2.8	-1.8	-11.7	4.7	-5.5	2.6	9.4	12.3
11	5.6	1.3	8.8	6.1	-4.7	-7	3	5.3	-7.5	1.5	2.7	12.2
12	10.4	4.7	3.6	2.8	-2.7	-9.3	2.4	-13	2.5	7	4.1	12.5
13	13.1	1.3	6.1	0.2	-6	-9.6	-11.5	-4.9	9.3	1	-3	11.5
14	12	7	12	0.6	0.6	-11.2	-11	-4.5	2.5	7.6	-1.8	11.5
15	11.5	0	10	8.1	1.7	-9.6	-8.3	-10.1	2	6.8	1.1	10.6
16	11.1	3	1.4	5.5	-3	-13.7	-8.9	-7	-3.5	7	7.4	11.8
17	7.8	9.4	1	0.3	0.1	-11.5	-9	-9.5	-3	2.8	6	11.9
18	7.2	3.5	1.5	9	-8.4	-6.4	-4.5	-13.1	-6.4	9.5	3	7.7
19	7.9	8.7	1.6	4.4	-6	-14.2	-10.7	0	-4.8	4.7	4.9	4
20	6.7	15.7	-2	4.5	6.3	-4.5	-9	6	0.2	-5.1	9	7.5
21	2.7	6.6	-3.2	4.8	-5	-12.4	-5	5.3	-0.4	3	6.5	6.5
22	6.3	11.3	1	2.4	-4	-8.7	-8.1	-1.4	-1	10.3	12.1	5.4
23	7.6	11.5	7.5	-2.9	-5.5	2.4	-5.8	-1.6	2.1	9.6	1.3	10.1
24	14.3	13	5.5	-2.7	-12.8	3	-1.4	1.4	3.5	1.5	5.5	14.7
25	13.4	14	0.8	-1.1	-11.4	3.5	-1.5	-9	0.7	0.7	6	13
26	13	14.4	8	0.5	-13.6	0	-14.5	-4.4	2.9	0	2.8	10.9
27	12.5	14	9.8	-1.3	-6	-4.7	-8.5	2.1	8.5	8.6	5.5	7
28	10	15.2	8	0.4	-10.1	-1.6	-5.3	-5.2	2.5	3	2.8	8
29	11.6	***	5	-10	0.6	-5.2	-3.1	-7.6	1	10.5	4	12.9
30	12	***	5.9	-1.8	-3.1	-5.2	-2.1	-8	5.1	7.7	9.4	7.9
31	10	***	3.2	***	-1.3	***	-8.5	-4.9	***	10.7	***	7.7

Avg	9.1	9.3	5.6	3.3	-4.1	-3.9	-6.6	-4.2	-0.3	4.4	3.8	9.1

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2008 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.7	9.8	8.6	1.5	5.1	-9	-8.5	-0.3	-6	-2.2	7.3	4.5
2	14.6	4.3	8.6	6	-0.1	-8	-6	-9.1	-3.9	-2	7.1	12.2
3	14.5	10.8	8.3	-0.3	1	-3.9	-7	-9.6	-3	-1.5	5.8	13
4	9	11	9.5	3.4	5.5	-2.5	-6.3	-7.1	-8	1.4	-1.7	7.5
5	10.4	10.9	13.6	1.5	2.5	-4.6	-6.4	2.6	-0.8	5	-3.2	12.8
6	10.7	10	10.8	7.4	3.5	-5.2	0.5	-11.6	-15.5	5.1	2.4	10.5
7	10	7.8	9.5	-4.6	0.4	-0.5	0	-6.6	-7.4	10.8	6.7	4.7
8	6.8	11.4	9.7	-4.5	-2.6	0.6	2.7	-14.4	-1	10.4	4	4.5
9	5.3	11.5	12.6	-5.3	3.5	0	-0.1	-8	-2	7.4	0.1	4.6
10	3	11.8	9.9	-3.9	8.4	-0.1	-5.4	-13	5.7	-5.6	6.9	11
11	7.6	13.7	12.9	3.5	3.3	5.4	-14.5	-12.2	-10.6	-5.3	8.5	10.6
12	10.2	11.6	4.6	3	4.5	-0.6	-9.7	-9	-1.8	0.5	10.6	10.1
13	12	7.8	7.6	2.1	-1.5	0.6	-8.3	5	-1.7	-0.2	8.5	8.5
14	15	6.5	1.4	4	-1.4	0.4	-3.5	0.9	14	8.1	1.6	8.6
15	15	9.9	1.5	-1.7	2.4	3	4.1	2	12.9	6.8	5.8	11.2
16	9	13	0.6	-2.5	5.2	-5.2	-1	4.9	2.6	4.7	10.5	5.3
17	10.9	10.3	0.5	-5.5	-2.3	-2	-11.8	-0.7	-10.7	6.8	4.6	10.1
18	10	12.6	3	-2.9	-0.7	6	-9	***	-1	3	7.5	13
19	9.6	8.8	0	0.4	-0.2	3.9	-5.3	0	3.3	0.5	6.3	13.4
20	12.8	13	4.5	2.4	-0.8	3.9	-8.6	3.9	-1.1	3	11.5	12.3
21	7.5	9.6	8.4	0.6	-1.2	0.1	-6.8	3.5	-1	5.2	9.7	13.6
22	11	9.8	9.5	-8.1	3	2.1	-7.3	4.5	-8	6.8	11.8	8
23	10.3	10.9	7.9	-8	-2	-5.6	-1.2	7.3	-2.2	3	9	8.3

24	11	13	3.7	-6.8	-5.2	-7.6	-0.1	11	1.8	-1.9	5.8	0.7
25	11.7	11.3	7.2	-6.3	-2	-8.5	-5.2	-0.5	-5.6	4.3	12	4.7
26	10.8	10.3	3.5	-1	0.3	-8.4	-5.5	-6.9	1	2.3	9.5	3.5
27	11	9	1.5	-6.2	-2.4	-4.3	0.5	-10.1	-5.3	10.9	12.3	8.8
28	12.5	3.5	4.2	7.8	6.6	-0.2	-9.3	-8.5	-6	6.1	13.5	12.5
29	12	4.6	3.1	6.3	5.3	-5.2	-9.2	-9.8	-0.1	7	12.4	4.9
30	3.5	***	2.7	2.7	6.8	-10.2	2.9	-2	1.9	5.4	13.3	2.1
31	5.4	***	2	***	2.3	***	4.7	3.4	***	7.5	***	9.5
Avg	10.1	9.9	6.2	-0.5	1.5	-2.2	-4.5	-3.0=	-2	3.7	7.3	8.5

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2009 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.5	13.1	10	2.5	3.5	-2	-2.4	2.8	1.3	5.2	6.7	6.8
2	7	12	8	5	6.5	-7	-3.4	2.7	***	3.6	6	6.9
3	9.4	14	9	6.6	6.5	-3.9	-0.6	-5.5	***	1.6	4.7	8.2
4	6.8	8.9	12.7	1.3	5.7	1.4	-2.9	-1.8	***	8.7	6.1	8.8
5	9.5	4	6	7.5	-0.7	0.3	-5.9	5	***	4.1	4.4	8.7
6	10.7	6.4	7.2	7	5.8	4.7	-3.1	-10.5	***	1.7	1.1	5.9
7	8.8	9.4	4.8	9.4	2.3	1.2	-8.9	-4.1	***	3	3.8	11.8
8	12	11.8	6.8	2.5	4.3	-0.5	-5.9	-2.3	***	-0.1	12.4	13.6
9	16	13	7.5	5.5	4.5	-7.2	4.8	3	***	-0.8	2.4	8.8
10	15.7	14.5	3.5	3.6	0.8	-5.5	0	3.5	***	0	0	7.7
11	11	12	8.7	1.5	-0.3	4	4.8	1.9	***	8.6	3.9	9.4
12	12.5	8.4	5.7	-2.3	-2	2.6	3.5	7	***	3.9	4.3	4.5
13	10.9	9.6	8.4	4	-2	0.6	-0.9	-1	***	3	4.8	7.8
14	8.8	13.3	12.6	-4.3	4.3	1	-3.9	-11.8	***	4.1	1.5	5.3
15	10.5	10	9	-3.6	5	-0.8	-7.8	-8.6	1.5	6.9	5.5	9.4

16	11	4.6	6.1	0.1	4.4	3.5	-12.8	-5.6	-2.6	9.3	3.6	3.9
17	12	4.7	6.4	-1	1.9	-9.3	-11.7	3	-9.9	7.7	1.9	2.3
18	10.8	5.1	-4	2.3	-1.9	-8.1	-8.6	5.2	-7.3	4.2	5.8	6.9
19	9.5	12	-0.3	1.4	-6	-6.5	-10.5	4.5	-9.8	0.2	6.2	9.8
20	5.8	13.7	3	2.3	-9.5	-3.1	-11.3	-9	-8.4	-3.4	0.7	11
21	9.8	14.5	-3.1	2.9	-4.6	4.4	-8.4	-7.4	-8.6	-0.5	8.3	7.2
22	13.3	15.1	-2.5	1	5.3	5.2	-6.7	-9.5	5.7	7.1	4.9	13
23	5.5	9.5	0.8	6.4	1.2	1.2	-2.8	-8.4	3	3.9	5	13.3
24	9.1	10.6	1	8.6	3.3	-0.4	-3.3	-3.5	1.3	2.7	7.8	6.6
25	7.3	13.6	2	9.5	0.2	-1.8	-14.4	-2.5	-2	7.4	13.3	8.7
26	12.4	11.3	2.7	3	-7.3	-6	-12.3	4.5	-6	9	9.3	5.2
27	13.5	8	3.6	-3.3	-9.2	-8	-10.3	3.6	-0.8	11.1	5.5	7.7
28	10.2	11.9	8.5	1	-6.8	-4.9	-10.6	-11.7	1.1	6.8	-1.8	3.1
29	10.2	***	0.4	5.1	-2	-12.5	-1.6	-6	***	4.5	5.3	8.5
30	8.1	***	3.5	8	-2	-8.6	3.1	4	***	2.7	6.9	3.2
31	12.4	***	4.3	***	-2	***	1.5	9	***	0.3	***	5.5
Avg	10.2	10.5	4.9	3.1	0.3	-2.2	-4.9	-1.6	-2.8=	4.1	5	7.7

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2010 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.8	10.9	3.8	7.3	0	-9.4	1.7	-6	1.5	7	5.8	6.1
2	12.6	5	10.1	5.1	-0.7	-9.2	-4.1	-6.3	-4.3	4.6	6.9	9.3
3	12.4	5.2	9.6	5.9	9.4	-10.1	-4.3	-6.9	-7.8	3	11.8	8.2
4	10.8	9.6	7.6	9.1	3.1	-3.5	-4.7	-7.9	-8.9	7.7	8	5.5
5	9	11.8	8.4	7.7	2.5	-8.4	1.4	-5.6	-9.2	7.7	6.4	5.7
6	8	6.8	7.6	8.1	4	-7.2	0.7	-3.3	-3	8.7	3.5	4.4
7	11.5	15.5	6.7	3.3	-3.2	3.5	-2.5	-5.5	-3.6	9.6	4.8	3.3

8	8.6	10	2.6	0.6	-4.3	0.3	-3.9	3.4	-4.8	8.5	3.3	3.5
9	8.1	7.7	7.3	10	9.3	-3.4	1	-3.2	2.2	2.8	5.5	3.4
10	13	10.6	9.3	2.1	6.2	2.3	4.6	-4.3	0.6	0	6	6.1
11	12.7	12.8	11.5	0.1	0.9	3.2	-0.6	-11.7	-0.6	6.8	2.4	8.5
12	10.7	14.1	8	0.7	-1.8	3.1	-10.1	-4.8	-2.4	3	1.8	8.4
13	11.9	12	13.1	0.8	3.8	1	-12.8	-6.3	-1.1	2.6	1.2	6.8
14	11.1	14.1	10.2	1.3	7.3	0.4	2.9	-6.2	3.2	4.4	5.8	9.4
15	10.7	13.7	7.9	3.3	4.2	-4.3	-3.7	-4.2	9.2	2.7	3.6	8.3
16	9.4	13.1	3.1	11	2	-9	-6.6	-9.8	2.5	0.9	10.6	9.7
17	8.2	10.3	9.1	9.3	3.8	-8.6	-7	-9.8	2.6	-5.4	9.4	7.4
18	6.6	7	5.2	4.9	0.1	-9.4	-9.6	-3.6	9.4	0	9.1	8.5
19	13	6.5	2.7	6.1	-1.7	-1	-11	-0.8	11.2	1.9	6.6	10.9
20	11.5	7.5	4.1	2.9	-2.5	-7.3	-11.3	-8.1	10.3	-3.9	8.9	12.5
21	6.9	9.3	9.2	-3.6	-3	-7	-9.4	4.7	3.2	7.2	10.3	12.2
22	14.1	13.8	6.6	2.9	-4.4	-6.3	-4.3	1.7	-0.2	8.7	8.6	11.2
23	12.8	14.3	3.3	-1.4	-5.3	-7.3	-3.4	-6.7	-3	8.5	8	6.2
24	10.3	13.4	3.8	-3.4	-1.7	-7.5	-4.9	-12.2	-2.8	8.2	5.7	7.2
25	14.2	12.9	11.8	-1.7	-2	***	-5.4	-2.7	4.8	2.4	8.9	8.9
26	14	12.2	13.4	-2.5	2	-6.1	-5	-2.8	5.8	1.5	9.7	10.8
27	10.6	11.1	4	-0.6	8.7	-5.9	-4.3	-9.5	-1.3	3.5	9.9	9.4
28	10	4.6	-0.6	0.4	-7.6	-6.5	-8.1	-4.6	-3.1	5.6	7.9	10.4
29	8.9	***	0	0.3	-12.5	3.6	-2.6	-7.2	4.6	1	6.6	10.2
30	8.6	***	8.5	1.4	-8.8	3.7	-6.6	3	4	2.1	3.9	11.6
31	14.8	***	10.5	***	-8.1	***	-3.3	6.1	***	9.5	***	11.1
Avg	11	10.6	7	3	0	-4.0=	-4.4	-4.6	0.6	4.2	6.7	8.2

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2011 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	11.8	9.2	9.2	11.3	-7.3	-5.4	-6.7	-9.1	-1.7	-1.6	-2.5	10.5
2	14.4	9	7.7	9.4	-3	-5	-4.2	-9	2.9	3.4	-6	9.8
3	13.2	10	12.3	7.7	7	-4	-8.4	-2.1	-3.2	2.2	-3.4	7.3
4	13.2	12.3	10.4	3	3.1	-6.4	-3.7	0.2	-1.3	-4.2	3.5	4.7
5	13.1	12.9	10.7	3.3	1.1	-7.1	0.2	-1.3	-3.1	-4.8	-1.8	6.9
6	11.9	14.2	7.9	7.4	8.2	-6.4	1.1	-2.1	-5	-8.8	-3.6	10
7	7.6	10.7	7.3	7.4	2.7	2.8	-3.8	-6.7	-4.4	1.3	-4.1	8.2
8	8.3	10.9	11	5	4.5	0.5	-9	-6.8	-3.5	2	2.9	5
9	9.2	12.7	12.4	3.9	0	0.9	-8.5	-7.8	2.4	0.3	-0.2	4.9
10	11.3	14.6	11.7	4.3	5.5	6.8	-8.2	-8.8	-1	0.4	2	8.1
11	11	14.4	11.3	2	5.2	2	-9	-10.2	2.4	1.2	5.8	9.5
12	10.2	12.3	12.2	10.4	3.2	-0.6	-8.3	-3.9	0.2	2.7	5	5.8
13	9.3	12.8	12.3	9.7	4.8	-2.8	-8.3	-1.4	-1.1	9.9	1.8	0.3
14	11	10.7	10.1	8.5	-1.1	-5.1	-8.8	-0.2	-1.7	13.6	4.8	5.6
15	10.5	10.3	9.1	6.8	-3.1	-1	-9.2	-0.9	-2.9	2	2.1	3.4
16	11.8	9.5	9.5	6.8	1.8	2.7	-9.7	-6.4	-6.9	6	4.6	4.3
17	11.5	13.1	13.2	7.1	-2.3	-6.6	-10	-6.8	-8.1	2.9	10.5	7.1
18	11.2	12	12.2	3.7	-5.4	-8.8	-8.7	-1	9.8	2.7	10.6	3.6
19	13.3	11.9	11.3	4	-3.3	1	-7.2	-2	-5.9	2.8	7.6	12.7
20	12.4	9	7.7	4	-5.3	-6.7	-8.7	-2.8	-9.6	-2.3	5.2	8.7
21	12.6	9.3	7.3	-2.4	-2.5	-9.6	-9.6	1.5	3	-3.5	5.7	11.4
22	13.9	8.4	5.4	-5.4	-0.6	-6.7	-7.8	6.9	-2.4	3.7	4.6	9
23	11.4	6.9	9	-2.3	7.5	-0.3	-7.7	4	-1	0.3	-1.1	9.4
24	12.9	8.5	5	6.3	3	-4.4	2.3	-3.1	1.8	0.2	3.8	10.2
25	13.2	6.9	3.7	3	-4.5	-0.3	-1.8	-4.1	0.4	-0.1	4.3	9.9
26	8.6	10.1	8.1	1.5	0.3	-4.8	-0.5	2.9	5.2	0.9	3.4	12.6
27	10.6	6.8	8.7	-3.6	-5.3	-8.4	-6.1	1.3	3.4	-4.2	6.5	12.6
28	6.6	7.4	9.2	-6	-4.5	-3.3	0.5	-1.5	2	5	4.3	9.8
29	8.3	***	10.3	-6.4	-4.4	-1.1	-7.1	-2	7	3.6	0.8	5.2
30	12.4	***	8.2	-7	-0.2	-4.6	-8.8	4.2	0.7	2.6	12	2.1

31	11.1	***	11.5	***	-5.6	***	-8.6	2.1	***	3.9	***	10.5
Avg	11.2	10.6	9.5	3.4	0	-3.1	-6.3	-2.5	-0.7	1.4	3	7.7

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2012 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.5	14.7	11.1	2.2	2	-7.1	-7.1	-7.5	-9.2	-2.5	2.1	10
2	6.3	11.4	10.5	-1.9	-2.6	-7.8	-0.7	-13.2	-13.4	-2.9	-1.3	10.5
3	2.7	13.1	5	-1.1	6.5	-5.4	-5.2	-4.6	-4.6	1.7	2.5	7.9
4	12.1	11.8	3.8	1.7	2.6	-6.6	-6.8	4.5	0.4	2.9	11.5	8.4
5	12.9	11.8	10.1	5.1	-1.5	2.1	-10.2	1.4	0.8	-2.7	2.6	10.4
6	8.2	10.5	9	4.3	-2.3	-7.5	1.2	-4.6	3.2	1.8	4.9	6.1
7	10.2	6.1	8.8	7.3	-3	-5.8	0.7	-2.8	4.4	5.4	7.6	8.5
8	14	13.9	7.4	2.8	-0.2	0.4	-3.9	-1.2	0.8	3.5	6.4	5.5
9	13.6	12.5	7.8	2.2	1.4	-0.8	-5.5	-2.7	0.3	2.5	2.1	10
10	11.9	11.8	4.4	-0.9	-0.3	-9.5	-0.9	-0.4	-4.4	2.9	1.1	10.2
11	10.4	5	9.9	-5.2	-0.5	-11.2	-4.3	-1	-7.3	4.2	2.3	9.8
12	12.3	1.8	6.3	-4	-0.7	-8.1	-8.7	-6.4	-5.3	0.1	15	10.6
13	15.2	5	1	-3.8	0.2	-10.5	-7.3	-7.7	5.3	-5.9	9.9	8.1
14	13.2	9.9	6.2	-0.9	1.7	-1.6	-1.4	0.5	3.7	6.4	9.3	6.7
15	13.3	9.5	2.6	5.1	-2.6	-1.4	-1.8	2.8	-1.9	9.7	8.5	11.2
16	9.7	11.8	8.4	6.3	-4.9	-6.3	-1.3	-5	-4	10	9.5	10.1
17	6.2	10.8	3.7	7.8	-3.7	-6	-5.2	-12.3	1.1	8	10.3	4.9
18	10.9	12.1	0.3	1.3	-0.2	4.6	-9	-1	2	3.1	8.4	4.7
19	10.1	8.6	0.8	-0.7	-5.4	-3.3	-4.2	7.5	-2.8	1.3	4.4	6.3
20	12.2	14	-0.4	-1.9	-12.7	-6.4	0.4	2.5	-5.6	5.5	3.2	9.9
21	13.4	12.1	2.1	2.6	-10.2	-1.2	-6.1	-1.5	7.4	2.8	7.7	7.4
22	12.4	7.8	8.5	4.6	-8.6	3.3	-9.1	0.4	1.4	1.3	3.9	10.7

23	7.4	6.1	11.9	-1.1	4.4	-1.5	-10.8	-0.8	-5.4	3.9	4.3	7.1
24	10.8	1.7	11.5	-2	1.2	-2.6	-9.3	-1.5	-2	2.8	6.2	10.2
25	7.4	***	9.8	-2.4	1.6	1.8	-10.1	2.7	-4.7	5.3	-2	11.7
26	3.8	11	9.4	6.1	3.3	0.3	-8	-6.9	0.4	7	-6.3	12.8
27	10.3	8	8.3	-0.4	-3.8	-6	-1.9	-10.5	0.5	6.1	3.3	11.7
28	8.5	14.4	12	-2	-4.8	-10.8	-4.1	-4	1.9	5.3	-1.2	13.7
29	6.6	13.1	8.5	-2.2	0.8	-0.3	-10.4	9.2	-2.4	5.1	7.4	10.4
30	6.1	***	7.3	5.6	-2.5	-7.5	-12.5	0.8	-4.4	3.4	8	13.4
31	11.6	***	5.1	***	-4.6	***	-8.6	6.7	***	3.8	***	13.1
Avg	10	10.0=	6.8	1.2	-1.6	-4.1	-5.6	-1.8	-1.5	3.3	5.1	9.4

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2013 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.8	10.1	7.3	12.8	0.5	4.3	-3.6	-10.8	-9.9	3.8	-0.3	7.4
2	9.4	4.8	8.4	4.3	0.9	1.7	-8	-10.3	-11.3	-1.2	5.1	7.7
3	8.8	7.2	4	4.1	-1.1	-2.2	***	-10.4	-2.3	-3.3	-1.7	8.2
4	4.9	8.8	3.6	-2.8	0.1	-3.5	***	-10.3	-7.6	-2	-1	5.3
5	4.7	7.2	7.5	-4	-7.9	-10.1	***	-9.7	-10.9	-1.8	1.4	6.9
6	6.2	8.6	9	-1.6	-9.8	-12.2	***	-9.9	-10	1.4	14.1	3.4
7	11.5	3.1	8.6	-0.9	-0.9	1.2	***	-1.6	-8.6	4.5	0.5	1.1
8	9	8.1	11.8	4	-2.4	4.4	***	-10	6.8	1.9	-4.8	9.4
9	7.8	7.9	8.2	3.4	1.2	-6.4	***	-2.3	-2.8	-2.6	8.1	10.8
10	4.5	12.2	7.1	0.4	-7.7	-13.2	***	-11.9	-1.6	-1.9	6	9.1
11	6.1	10.3	2.6	-1	-0.8	-4.8	-5.1	-12.7	3.3	1.4	0.1	7.3
12	9	12.6	6.4	3.7	-6.2	-0.8	-1.9	-2.7	2.9	2.5	0.4	8.2
13	4.8	***	9.9	0.1	-4.7	-1.1	-3.8	3.6	1.5	-1.9	1.9	4.1
14	8	9	5.7	1.7	-0.7	-6.6	***	-2.2	-2.6	-9.7	3.9	5.4

15	12.1	11	7.4	-0.2	0.4	-6.6	***	-3.8	-1.2	-7.4	12.4	10.7
16	10.7	10.3	10.8	3.8	4.2	-13.3	***	-1.9	0.1	-0.6	8.3	8.9
17	8.7	11.5	5.9	9.9	5	-13.6	***	3.5	-0.5	5.1	3.8	7.1
18	13.2	12.5	2.1	2.2	-2.9	-11.5	***	-8.2	-5	4.7	8.1	5
19	12.8	9.4	4	1	-4.2	0.7	-2.6	-15.1	-2.4	3.9	5.2	2.2
20	10.8	6.1	4.4	3.6	-0.5	-3.8	-7.6	-12.7	1.1	5.1	9.2	6.7
21	9.9	0.7	0.8	0.1	-2.3	-5.3	-8.9	-1.4	-7.7	4.1	6.4	12.7
22	8.1	0.4	4.2	-2.6	-2.8	-6.2	-10.2	-14.6	-11.2	2.5	2.2	8.3
23	2.3	2.1	8.4	-0.6	-2.1	-8.5	0.7	-20.1	7.9	-1.9	6.1	12.7
24	8.3	9.2	6.9	-2.6	1.2	7.3	-6.7	-10.1	-3.2	3.3	7.7	9.3
25	11.5	2.1	11.4	-1.7	0.4	4.6	-9.1	-8.7	-6.7	5.3	5.9	12.7
26	11	10.7	10.8	-1.9	5	-7.9	0.2	6.9	-0.2	4.7	9	12.3
27	11.7	9.2	12.1	-1.5	-1.2	-13.5	2.7	6.9	4.5	6.9	5.4	7.8
28	9.1	9	11.2	0.1	-8.7	-9.9	-5.8	2.8	-6.1	5.5	5.8	11.9
29	7.3	***	11.6	-0.6	-12.4	-10.1	-10.4	2.8	-10.9	3	6.5	9.2
30	11.3	***	10.3	-4	-3.2	***	-15.8	-6.2	-6.3	5.7	8.6	4.5
31	12.6	***	8.9	***	-5.3	***	-13.9	-7.4	***	1.9	***	8.1
Avg	8.9	7.9=	7.5	1	-2.2	-5.1=	-6.1=	-6.1	-3.4	1.4	4.8	7.9

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2014 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.3	8.5	9.4	8.2	-1.7	-0.1	-1.9	-3.4	-9.4	3.6	5.5	5.3
2	9.7	12.4	9.2	3.6	-3.9	-3.7	-2.6	-2.9	-8.2	3.1	9.1	7.9
3	8.2	11.6	11.1	1.5	-4.2	-7.5	-5	2.7	-7.6	2.8	6.6	10.1
4	12.1	12.6	11.9	-3.9	-1.6	0	-1.7	2.8	-5.5	-1	5	6.9
5	9.3	13.8	11.3	2.2	-0.4	-5.5	-10.8	-8.3	-7.3	-6.5	6.8	9.3
6	14	13.2	10.8	-4.1	-9	-11.2	-16.6	-11.3	-4.1	-3.1	6.5	8.3

7	14.8	11.4	8.4	-2.7	1.8	-12.6	-16.3	-11.8	-0.7	2.3	7.2	6.4
8	13.9	13.3	8.9	1.6	5.3	-1.2	-16.4	3.8	-4.3	2.4	3.1	12.6
9	10.7	11.4	9.6	-1.1	2	2.1	-19.2	3	-4.2	2.7	5.8	9.7
10	8.6	14.3	7.2	-2	-0.5	-12.6	-17.6	0.7	-2.8	2.4	7.3	9.3
11	8.7	10.5	10.2	-2.5	-3.6	-18.3	-4.6	-1.4	-5.2	-1.5	8.7	6.6
12	5.4	8.5	4.5	-2.1	-5.3	-13.5	-8.6	-2.5	-1.5	-1	10.5	7.1
13	10.2	14.2	2.6	-1.8	-5	-7.5	-11.9	5.4	-7	2.7	3.8	7.7
14	4.6	12.3	1.4	4.4	-4.1	-8.5	-14.2	-1.7	-1.7	-4.8	0.9	8.9
15	5.5	11.9	8.8	6	-5.3	2.4	-13.4	-5.6	11.7	8.1	1.6	9.1
16	10.2	9.1	6.8	5.3	-2.4	-9.1	-8	-0.4	6.6	4.6	-0.1	8.3
17	10.8	8.4	7.4	1.1	-2.2	-11.1	5.8	-3	9.6	0.6	-2.9	3
18	11.3	12.1	6.6	0.4	-4.6	1.3	-0.9	4.6	-0.5	-0.7	3.2	3.4
19	10.8	13	4.2	2.5	-4.9	-6.9	-4.4	6.2	-2	-3	-0.3	11.1
20	11.2	8	1.1	4.5	4.9	-10.7	-11.4	-0.9	-6	3.4	0.4	9.6
21	12.3	10.3	4.6	3.4	-3.5	-11.1	-17.3	-6.1	-6.8	1.9	5	8.8
22	9.1	8.6	10.6	3.7	-7.8	-10.5	-3.1	-4.5	-3.3	3.2	1.9	8.9
23	13	7.5	9.7	4.9	6.5	-6.5	-13.1	-4.4	9	1.9	9	6.1
24	13.4	9.1	6.5	2.1	2.6	-9.3	-3.4	-8.1	1.1	5.9	6	10.4
25	10.9	4.9	9.8	-2.2	3.8	4.4	1.3	-12.3	-5	6.7	10	4.3
26	10.5	8.6	2.2	-4.4	0.9	-2.7	-5	-7.3	-1.5	6.2	8.8	9.8
27	9.4	4.3	2.3	-5.7	-4.9	-11.4	-7.8	0.4	0.8	8.6	9.3	10.5
28	12.9	9.1	3	-9	2.6	-14.9	-9.9	-4.2	2	10.8	4.6	8.3
29	15.1	***	1.5	-1.1	1.1	-10.1	-11.2	-5.4	-1.9	9.6	7.8	10
30	12.8	***	-1.4	-3.5	-3.3	-4.1	-8.5	-2.2	-4.2	6.5	6.3	13
31	10.7	***	-0.2	***	-3.8	***	-7.4	-1.7	***	5.7	***	10.3
Avg	10.7	10.5	6.5	0.3	-1.6	-7	-8.6	-2.6	-2	2.7	5.2	8.4

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2015 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.9	3.7	5	4.4	-7.1	6.9	-9.1	-8.8	0.4	4.7	3.6	3.9
2	8.5	1.2	3.8	6.9	-3.1	1.2	-8.2	-9.7	1.6	0.2	-0.5	12.7
3	12.9	8.3	-1.3	11.4	-5.9	3	-5.5	-3.9	0.4	-0.2	-1.6	10.7
4	12.8	5.5	4.2	***	-4.8	-2.2	2.9	1.4	-2.1	-2.9	1.5	9.1
5	12.5	10.5	8.8	***	-3.7	-7.6	5.3	-7.8	-5.1	3.5	5.5	13.6
6	7.9	10.8	9.2	***	-1.6	-8.4	0.8	-9.2	-3.9	0.4	4.3	11.5
7	10.6	9.5	10.6	***	-3.1	-7.6	-3	-6.9	2.6	-1.8	7	9.4
8	12.3	6.4	6.6	***	-4.7	-7.3	-1.8	-7.7	-1.3	4.6	1.5	10.1
9	10.9	4.1	7.9	***	0.6	-8.7	-2.9	-4.1	-6.4	7.8	11.4	7.9
10	9.6	10.3	7	***	4.3	-7	-0.2	-4.1	-3	4.1	11	6.2
11	8.2	10.3	7	***	0.2	-4.6	5.6	-8.9	1.7	-7.5	6	9.2
12	13.2	8.9	8.8	***	-1.8	-7.4	2.1	-9.2	-2.5	-4.6	7.1	11.4
13	12.7	12.7	7.5	***	-5.1	-6.8	-11	4.7	-3.5	3.4	6.7	7.5
14	10.7	6.5	11.6	***	1.7	1.3	-12.1	-5.1	-4.6	8.3	6.7	6.7
15	9.7	6.8	12.5	0	-1.6	1.1	-5.8	-4.6	7.6	4.9	5.4	-1.7
16	5.5	4.8	8.9	-5.6	-0.6	-0.8	0.8	-2	5.4	4	2.2	7.3
17	1.3	0.3	7.6	-1.2	0	-0.9	-1	-3.8	2.8	***	0.8	3.3
18	6.6	7.6	4.8	1.6	-0.2	-6.3	-1.4	-0.6	2	1.6	5.3	5.4
19	8.5	6.3	10.5	-3.2	4.7	-9.6	-4.2	2.6	2.9	13.1	-1.6	7.1
20	6.8	9.3	5.5	-4.9	-0.1	-8.8	-3.4	5.3	-0.1	10	6.1	12
21	4	7.1	5.1	-5.5	1.1	-5.6	2.5	-3.9	6.1	7.8	2.6	6.6
22	7.8	4.4	5.6	-4.4	-1.5	-7.4	1.8	-5.4	-0.2	7.9	2.7	9.9
23	6	0.8	10.5	4.8	5.5	-5.3	-1.7	1.9	-1.7	4.3	-2.6	5.4
24	6.7	8.9	9.1	2.8	4.9	-2.8	-5.6	-0.3	0	10.2	0.7	3.9
25	13.8	3.3	8	0.9	1.4	-7.4	-1.8	6.8	1	8.5	4.6	8.6
26	13.1	4.1	8.1	0.8	-4.1	-4.2	-6.8	3.7	8.2	9.3	5.3	8.9
27	11.4	7.4	5.1	-1.6	-4.9	-3.9	-8.3	4.5	7.3	6.7	2.9	4.2
28	10	9.4	3.7	-5.4	2.4	1.5	-3.6	-0.2	2.2	1.3	0.7	7.5
29	8.4	***	0.7	-1.5	-1.5	-2.6	0.1	-3.2	0.9	-3.7	2.4	15.1

30	6	***	***	-3.2	0.3	-6.4	-3.3	4.2	6.6	0.6	3.2	9.6
31	10	***	3.3	***	-4	***	-7.4	9	***	10.6	***	10.2
Avg	9.2	6.8	6.9=	-0.2=	-1	-4.2	-2.8	-2.1	0.8	3.9=	3.7	8.2

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2016 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.8	10.1	11.9	2.2	-8.6	-3	0.5	-5.1	6	-5	8.4	10.5
2	9.3	10.4	9.3	-4	-5.8	-5.4	-8.7	-6.1	1.4	-0.1	5.4	5.8
3	7.9	10.9	14.2	-4.7	-3.9	-3.9	-13	-1.1	-0.8	0.8	5.3	1.2
4	10.8	9.6	11.3	-2.7	-6.4	3.6	-2.5	-6.6	-0.1	-4.9	14	11.7
5	13.9	6.9	15.3	7.2	-8	-4.2	4.7	-4.8	2.5	-10.5	11.5	7.7
6	10.8	1.8	12.7	4.1	-5.9	-8.5	-4.8	-6.8	7	-1.5	8.3	5.5
7	8.6	5.5	12.9	3.6	6.3	-7.1	-11.7	-4.6	3.4	3.8	7.4	6.5
8	6.9	8.5	10.8	2.9	5.9	-7.2	-9.4	-10.8	-0.8	1.5	11.3	7.1
9	9.2	6	10.1	1.4	4.8	0.5	-7.9	-14.5	-0.8	-5.2	11.7	11.3
10	7.7	7.2	8.8	3.2	1.4	4.8	-11.1	-9.2	2	-8.5	8.9	8.9
11	9.2	1.7	10.6	1.9	-0.9	-3.2	-8.9	-8.1	3.9	2.5	8.5	8.2
12	7.5	5.6	7.8	8.2	0.1	-8	-9.7	-5.7	6.5	2.9	7.2	6.3
13	7.9	14.8	8.9	4.4	6.7	2.5	-5.4	3.1	4.3	-4.1	3.5	7
14	7	7.4	11.1	2.8	1.8	6.3	-5.1	-5.8	0.9	-2.7	-1.4	5.9
15	11.2	4.7	7.7	1.3	-0.9	6.6	-4.8	-9.3	-3	0.1	1.6	6.6
16	10.6	11.3	11.3	1.9	-1.9	-5.5	-8.1	1.3	0.2	3.8	5.5	11.5
17	10.2	12.2	7.9	3.9	-2.3	-8.9	0	1.6	-3.5	0.5	6.8	3.5
18	7.2	11	4.1	6.5	7	0.5	-3.1	3.7	0.4	-2.2	2	6.4
19	10.3	8.9	1.3	8	6.5	-1.4	-4.9	-0.4	-6	6.5	1.3	11.6
20	11	10	2.6	7.2	2.8	-2.5	-0.7	-0.4	2	5.2	4	13
21	11.7	9.7	2	2.8	-0.1	-6.3	-1.2	-4.4	1.6	5.6	5.8	11.5

22	14.5	6.8	2.9	2.6	-1.9	-11.9	-6.8	-4.1	1	5.2	9.8	10.8
23	13.8	4.5	1.5	-1.5	3.4	-9.6	-7.8	-8.3	0.6	5.7	11.5	3
24	13	10.8	5.9	-2.8	3.8	-4.8	-9.6	-3.1	-3.5	1.5	6.7	5.7
25	9	13.5	9.1	2.4	-1.7	***	-1.1	-5.7	-3.8	5.6	9.4	4.1
26	9.6	11.3	9.7	-1.8	-5.4	-4	-3.9	-3.8	-1.9	5.7	6.8	13.1
27	7.4	5	7.7	-3.1	-5.8	3	-8.3	-1	4.2	1.6	4.9	12.4
28	10.3	2.1	2.9	-1.7	-5.8	0	0.1	-0.4	-7.2	2.9	9.9	11.8
29	11.9	6.9	-2.7	5.5	-5.7	-2.1	-1.8	-0.9	-9.4	7.5	10	10
30	10.6	***	5.8	-3.6	-7.8	-1.6	-2.6	-0.6	-6.3	5.3	7.3	7.8
31	9.2	***	-0.4	***	-4.8	***	-1	-0.8	***	0.3	***	10.2
Avg	10	8.1	7.6	1.9	-1.1	-2.8=	-5.1	-4	0	1	7.1	8.3

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2017 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.8	6.7	12.8	6.4	1.3	-4.1	-1.5	7.8	-1.8	5.8	6.2	6
2	14	11.5	12.9	2.6	-0.1	-2.2	-0.7	-3.6	-7.1	0.2	9.2	8.8
3	9.1	10.8	10.5	4.7	1.5	-4	-3.8	-5.5	-8.8	5.7	6.9	9
4	8.8	13.4	12.1	3.6	6	-2.3	-8.2	-5.1	-8.9	4.6	4	8.4
5	13	11.2	9.4	6.9	5.1	-6.6	-3.5	-0.6	9.8	1.5	4.7	8.6
6	12.1	10.4	8.4	8.2	5.8	1.6	-5.9	-10.8	8.1	-1.8	0.3	6
7	11.8	13.1	5.7	9.5	-0.1	2.1	-8.1	***	0	1.2	-6.1	1.9
8	10.6	12.2	7	8.6	0.2	-12.1	-4.7	-12.4	-4.5	3	1.3	6.3
9	8.4	14.3	7.8	5.7	2.8	-15.4	2.6	-8.5	-5.2	1	-0.9	7.6
10	11.4	13.3	3.7	9.6	3.5	2.1	-6.2	6.2	-0.7	-3.5	6.6	3.2
11	13.5	12.5	1	11.1	4.5	1.5	-7.9	-3.3	-3.4	-7.5	0.7	3.9
12	14.1	11.9	7.8	9.8	2.4	1.3	-11	-4	-1.3	-0.4	1.6	3.7
13	12.9	13.2	9.7	4.6	2.2	-3	-9.3	-4.7	6.2	0.9	7.4	4.6

14	11.8	12.6	8.2	0.2	1.2	-3.3	-10.4	-7	-1.5	-1.6	8.3	4.1
15	11.5	11.8	8.5	-2.4	-3.4	-8.8	-0.4	-0.6	2.4	0.1	-0.5	-1.7
16	7.5	12.7	4	-1.6	-1.6	-15.6	-6.7	-10.6	4.1	-1.9	-0.4	1.8
17	6.2	13.1	1.6	1.7	-5.2	-2.5	-9.7	-1.8	3.7	-3.5	-0.6	9.2
18	3.8	14.4	3.1	1.8	-5.3	-6.5	-7.6	-1.7	3	-6.9	-1.5	8
19	12.1	10.6	3.9	-5.2	-5.2	2.8	-8.9	-8.2	-2.8	4.6	-1.8	7.7
20	10.5	9.7	0.9	-8	-5.3	-3.4	-6	-6.8	1.7	4	2.8	1.9
21	8.6	9.1	3	-7	-5.4	-10.7	-7.4	-3.4	0.7	4.4	13.3	3.5
22	8.2	10.3	6	-6.6	-5	1.4	-9.6	-2.5	7.5	0.9	2.9	11.2
23	11.7	10	6.6	-5.4	-4.3	-13.9	-12.9	-7.1	3.4	9.3	5.6	9.2
24	13.2	9.6	7.1	-3.6	4.9	-15.7	-12.5	-5.1	1.4	4.6	5.9	12.1
25	9.6	9.5	5.7	-2.6	-1	-9.5	2.6	-11	4.5	4.5	5.8	8.1
26	8	6.9	3.1	-5	-3	-13.2	-10.1	-13	-9.3	4.1	2.2	4.4
27	6.8	4.8	-1.2	2.6	-7.2	-0.8	-12	-7.1	-12.7	-1.4	-1.5	2.5
28	4.9	7.8	-1.7	-1.3	***	1.7	-9.9	***	-4.6	-1.5	-4.5	7.7
29	0.1	***	3.8	-2.6	-6.3	-3.3	-4.5	***	-0.2	1.9	2.8	10.9
30	5.5	***	0.1	-3.5	-5.8	0.4	-7.2	-5.1	-3.4	9	6.7	8.4
31	9.2	***	7.5	***	-4.3	***	-4.4	-8.6	***	4.5	***	5.7
Avg	9.7	11	5.8	1.4	-0.9=	-4.7	-6.6	-5.1=	-0.7	1.5	2.9	6.2

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2018 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.3	7.5	11.6	8.2	***	2.7	1.9	-3.7	0.9	8	1.4	11.9
2	1.9	6.1	9.1	7.1	***	-2.3	-1.7	-9.1	3.6	3.9	-0.6	4.1
3	2.1	9.1	10.5	7.9	***	-4.6	-11.7	-7	-1.6	0.1	-6	6.2
4	3.5	9.8	7.5	9.8	-6.6	-5.2	-12.2	-4	0.4	-4	6.5	10.2
5	8.8	6	12.1	10.2	-5.5	-9.1	-12.3	-9.1	0.8	-5.2	-1.9	6.2

6	10.4	8.2	14	8.4	-4.9	-8	-11.9	-11.2	4.5	-3.7	0.9	6.3
7	4.4	11.9	9.8	7.1	***	-6	-11	-8.5	-3.7	-1.1	1.2	10.8
8	8.6	7.6	5.7	6	4.7	-6.1	-8	-14.2	-5.2	-0.6	-4.6	8.7
9	7.7	12.3	2.3	7.1	-3.4	1.7	-7.9	***	-3.6	1.4	-3.2	6.9
10	6.4	12.3	3.3	7.8	-6.8	-6.1	2	-2.8	-9.3	3.8	-3.3	5.4
11	4.5	12.7	8.7	5.9	4	-9.3	-2.9	-3.8	-6.7	5.2	0	0
12	9.3	12.4	5.9	6.1	2.1	-5.3	9	1.3	-2.8	3.8	3.9	4.1
13	6.9	13.3	6.3	9.8	4.9	1.7	4.9	-4.7	-5.6	2.5	6.8	10.9
14	12.2	11.6	11.1	6.5	4.2	3.7	-0.2	-5.8	-7.4	0.5	6.4	11.8
15	11.9	9.4	10	4.6	-3	4.6	-7.8	-8.5	-2.3	5.8	2.7	14.1
16	9.3	10	7.1	2.5	-7.7	-3.4	-10.3	-2.2	-5.6	5.2	4.4	9.3
17	10.8	12.5	7.4	6.5	-8.8	-6.3	-6.4	-8	-0.6	3.8	7	11.1
18	12.1	11.3	9.2	10.6	-4.2	0.4	-6.3	-5.8	2.7	1.5	7.9	14.4
19	9.9	13.9	9.5	3.4	-4.8	-3.2	-7.4	3.4	0.5	0.8	8.5	10.4
20	10.1	12.4	8.3	1.5	5.9	-9.9	-8.5	2.7	-4.9	0.2	5.1	9.1
21	11.2	14	9.6	-0.7	4.2	-6.9	-5.4	-1	-8.3	-2.7	0.9	***
22	11.6	10.2	8.9	-0.4	3.4	-9.1	-7.4	-3.3	-8.1	-6.2	-3.6	7.2
23	9.6	12.1	5.4	0	2.6	-7.2	2.1	-4.9	-1.4	-1.2	-4.9	3.4
24	8.4	10.1	8	5.1	-1.1	-7.8	-1.4	-3.3	7	-2	0.5	13.8
25	12.5	4.9	9.2	1.9	-4.7	-9.3	-4.2	-3.1	10.2	-0.1	9.2	7.7
26	7.3	2.1	3.6	4.3	-2.9	-8.5	-7.7	-6.3	-0.3	1.3	9.7	5.5
27	8.3	5.7	0.6	***	-6.1	-4.1	-1.7	-9	-4	3.6	9.3	8.5
28	9.6	7	5.5	***	-1.1	-8.7	-8.7	-7.9	-3.7	3.2	3.4	8
29	6.1	***	9.4	***	-4.9	-6.1	-5	-8.5	-9.2	6.6	1.9	3.3
30	10.4	***	11.4	***	-8.6	3.1	-10	-3.4	-5.4	4.2	4.3	13
31	6.5	***	10.8	***	0	***	-10	1.1	***	2.5	***	10.1
Avg	8.4	9.9	8.1	5.7=	-1.8=	-4.5	-5.4	-5.0=	-2.3	1.3	2.5	8.4=

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2019 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.7	11.3	3.1	6	6.4	-2.9	0.9	***	***	1.6	1.1	9.4
2	7.8	9.5	6.4	3	7.6	-5.2	-1.6	***	***	0.1	7	4.5
3	7.7	9.4	10.2	2.4	4.3	-6.2	***	***	***	6.6	-0.5	4.9
4	9.5	6.8	5.5	8.7	-0.4	-0.9	***	***	***	0.4	8.1	2.7
5	10.8	7.6	10.4	7.4	3.8	1.4	***	***	***	-4.4	1.5	3.5
6	7	***	8.7	4.4	4.2	-5.1	***	***	***	0.2	12.7	9
7	9.4	12.7	11.1	0.2	6.8	-9.6	-2.7	***	-2.8	3	***	9.4
8	13.9	12.2	10	6.9	3	-4.6	-3.2	***	-2.6	-1	4	9.9
9	10	14.9	7.9	1.2	-1.4	-5.8	-4.1	***	-2.5	-0.3	3.2	8.7
10	9.2	13.9	11.3	8.3	-5.3	-0.3	-3	***	-3.6	0.8	9.7	9.2
11	***	11	8.4	5.3	-3.8	-0.8	-5.7	***	-3	-3.4	10.5	7.8
12	***	7.4	10.7	3	-2.7	-0.4	-4.7	***	3.1	4.9	9.9	9.2
13	6.1	11.6	11.4	2.4	0.5	-10.4	-7.3	***	-2.7	4.8	8.8	10.3
14	9.1	11.6	9.3	6.4	1.2	-12.8	-6.3	***	-8.1	-3.6	7.6	10.3
15	13.5	11.6	7.6	2.8	3.1	-7.7	-5.8	***	-2.2	4	9.2	2.6
16	***	11	10.5	-0.6	2.6	-9.6	-6.9	***	-1.1	-3.8	10.7	2.1
17	***	9.6	8	-1.3	0.3	-4.7	-6.1	***	-2.8	3.7	7.6	0.1
18	***	6.2	11.4	-1.2	5.5	-7.9	-2	***	0	***	6.2	10.9
19	***	5.5	7.6	-0.3	7	-7.4	0.9	***	1	***	4.7	4.5
20	***	13.4	7.3	8.8	4.6	3	-5.6	***	7.6	***	4.9	4.5
21	0.5	11.6	10.2	7.3	-4.8	0.4	-17.5	***	7.6	***	4.5	7.4
22	7.2	10.8	9.3	6.6	-7.2	-2.8	2.1	***	0.7	2.1	8.9	10.6
23	5.8	7.7	9.4	7	-3.9	-3.5	***	***	-2	0	3.5	12.8
24	10.2	***	8.4	3.6	-6	***	***	***	-0.5	-0.4	10.8	15.3
25	9.6	***	5.7	1	-0.8	***	***	***	-3.5	7.8	3.9	13.3
26	10.1	6.1	8.1	***	-1.9	-3.7	***	***	-8.7	1.9	-0.5	7.7
27	4.5	***	6.1	-1.3	-0.7	0.5	***	***	-4.3	0.1	0.4	7.3
28	4.2	2.8	5	-1.1	2.8	3.7	***	***	-4.2	3.8	3.4	7.5

29	13.1	***	2.8	0.3	-2.9	1.6	***	***	1.1	-3.6	14.9	11.7
30	11.7	***	2.5	2.3	-4.5	-1.4	***	***	2.8	-7.5	10.9	10.4
31	11.2	***	6.4	***	-2.8	***	***	***	***	3.7	***	11.3
Avg	8.7=	9.8=	8.1	3.4=	0.5	-3.7=	-4.4=		-1.3=	0.8=	6.5=	8

Daily Minimum Temperature (C) Data for station [0148352 8] - BUFFELSFONTEIN -31.3690 26.6960 1763 m 2020 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.6	13.3	9.2	8.8	-1.7	-5.1	---	---	---	---	---	---
2	9.7	14.7	8.2	6.8	-2.5	-6.7	---	---	---	---	---	---
3	11.9	11.6	4.8	6.8	-0.5	-5.4	---	---	---	---	---	---
4	12.4	9.3	6.1	7.7	-0.3	-7	---	---	---	---	---	---
5	12.5	9	7.7	6	-2.4	-6.6	---	---	---	---	---	---
6	13.7	12.6	6.6	5.7	-2.9	-6.6	---	---	---	---	---	---
7	14.1	11.4	6.9	-1.9	-3	-6.5	---	---	---	---	---	---
8	13.3	12.1	9.5	-7	-1.4	-7.2	---	---	---	---	---	---
9	10.4	9.2	8.5	3.4	-3.8	-6.6	---	---	---	---	---	---
10	11.5	11.5	8.4	8.2	-4.6	5.3	---	---	---	---	---	---
11	12.2	10.1	6.5	7.3	-2.9	-2.5	---	---	---	---	---	---
12	12.8	10	9.8	3.7	-3.3	-9.4	---	---	---	---	---	---
13	10.2	9.1	7.6	-0.1	-0.2	-11.9	---	---	---	---	---	---
14	10.6	9.3	8.2	5.7	-6	-10.7	---	---	---	---	---	---
15	7.3	9.2	5	1.6	-2.5	-12.9	---	---	---	---	---	---
16	10.7	13.2	9.4	0	-4.1	-7.5	---	---	---	---	---	---
17	9.5	12.8	8.3	-2.8	-4.3	-10.6	---	---	---	---	---	---
18	13.4	10.6	8.4	-1.9	-4.1	-9.1	---	---	---	---	---	---
19	10.6	7.7	6.1	2	-0.6	-7.4	---	---	---	---	---	---
20	10	13.6	9.1	6.3	-4.4	-1.8	---	---	---	---	---	---

21	10.7	10	9.5	8.9	-3.7	-6.7	---	---	---	---	---	---
22	7.7	9.8	7	6.1	-2	-10	---	---	---	---	---	---
23	10.6	7.1	10.9	4.7	-3	-4.5	---	---	---	---	---	---
24	8.2	2.6	10.3	8.1	-4.4	-9.5	---	---	---	---	---	---
25	10.6	1.9	9	6.5	2.9	-2.7	---	---	---	---	---	---
26	8.2	8.9	3.1	6.8	-3.5	-0.7	---	---	---	---	---	---
27	3.2	11.3	-1	5.9	-5.1	-4.1	---	---	---	---	---	---
28	-0.4	7.4	-1.8	5.4	-3.7	-7.4	---	---	---	---	---	---
29	3.5	7	5.3	1.2	-0.3	-8.5	---	---	---	---	---	---
30	11.4	***	6.2	-2.9	-3.5	-6	---	---	---	---	---	---
31	9.5	***	10.9	***	-1.7	***	---	---	---	---	---	---
Avg	10	9.9	7.2	3.9	-2.7	-6.5						

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2007 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.1	14.2	15.2	13	0.6	3.4	-1.4	***	***	10	10.9	9.5
2	8	12.7	11.3	11.1	3.8	0.8	-3.8	15.8	***	10.7	8	9.7
3	12	14.8	16.4	8.9	6.2	1.1	-5.3	0.8	***	10.6	13.1	7.6
4	15	12.7	10.4	9.2	4.6	2.3	-4.5	-3.9	8.9	7.8	10.9	7.7
5	13.2	13.3	10.1	10.2	3.6	11.1	-3.6	-8.6	3.5	1.8	10.7	8.4
6	15.7	14.8	8.2	11.8	7.1	6.1	1.9	11	3.3	8.1	7.5	8.5
7	9.5	13.4	4.8	9.9	7.3	5.5	7.8	-0.4	3.8	5.1	7.4	9
8	6.6	14.1	11	9.4	4.9	3.9	-1.7	-3.9	8.1	2.4	8.5	10.1
9	8.5	16.9	11.9	13.5	2.9	0	0	10.6	3.9	3.1	5.1	12.9
10	13.2	15.3	8.4	11.3	4.4	-0.3	3.4	11.3	1	3.2	6.6	11.8
11	11.5	9.9	11.7	10.7	0.7	-3.5	10.8	0.5	0.7	5.7	2.6	11.3
12	16.1	7.7	9.1	5.6	10.9	-5.3	5.3	-3.8	9.2	8.6	6.4	15.4

13	15.1	7.9	11.2	3.8	10.9	-3.9	-2.1	5	4.2	8.6	4.7	13.3
14	14.6	7.4	13.4	5.1	14.2	-6.4	-1.5	6.5	3.1	10.4	6	12.2
15	15	5.9	13.2	10.2	8.1	3.8	-0.3	1.3	8.2	7.8	7	11.9
16	11	8.9	9.7	11.4	3.6	0.8	-1.1	0.6	4.4	6.9	8.6	14.1
17	11.3	10.9	8.6	5.3	6.2	2.3	0	-1.5	3.8	9.1	8.6	11.4
18	15.3	10.8	5.3	11.4	-1.4	-2.9	-2.5	-3.7	0.5	7.5	6.1	8.9
19	12.7	15.5	5.3	9.9	16.4	-6.8	0	8.1	4.3	6.3	9.5	8.5
20	11.6	16.7	2.7	7.5	1.1	-1.3	-0.7	13.1	9.3	4.1	11.9	10
21	10.6	13.4	6.5	12.5	-0.6	-4.3	-0.2	6.4	4.2	7.8	11.5	12.7
22	16.3	14.9	8	6.9	-0.3	-0.8	-1.5	3.4	10	13.5	11.6	11.3
23	12.6	12.8	11.7	5.6	-2.2	10.1	6.4	6.6	5.8	10.1	7.6	14
24	16.5	17	10.6	4.3	-3.9	7.1	4.6	3.4	4.1	5.4	8.8	13.9
25	16.2	17	8.7	5.6	-4.2	8.8	4.1	***	4.3	4.2	7.7	13.5
26	16.3	15.2	10.8	8.6	-5.6	1.4	-2.9	***	5.5	4	8.7	12.8
27	15.6	16.1	9.8	7	-1.5	0.4	0.3	***	10.2	13.1	7.2	9.6
28	13.1	15.6	10.9	-1.1	-2.7	-0.4	-0.2	***	11.6	8.6	6.6	10.6
29	15.1	***	8.3	-3.6	7.1	-0.3	3.9	***	9.2	11.7	9.7	12.1
30	13	***	7.9	4.1	6.9	6.4	4.7	***	10.2	10.8	10.9	11
31	11	***	7	***	4.2	***	***	***	***	12.4	***	11.4
Avg	12.8	13.1	9.6	8	3.7	1.3	0.7=	3.4=	5.8=	7.7	8.3	11.1

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2008 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.2	15.2	***	7.6	5.5	-2.4	-5.8	-0.7	-0.3	3	11.4	8.3
2	15.7	10.9	***	7.7	1.4	-0.2	3.5	-3.5	7.1	7.3	8.8	14.8
3	9.6	13.3	***	5.3	3.5	6	2.4	-1.4	***	4.2	6.4	12.7
4	10.5	11.3	14.9	9.1	5.9	2.6	-2.1	-2.3	9.6	4.1	4.5	12.3

5	11.9	14.8	13.2	12.2	4.8	2.8	1.5	1.5	-0.1	5.4	3.2	12
6	12.9	12.9	13.6	6.7	11.1	2.3	4.1	***	-6	6.7	8.4	11.9
7	12.6	4.7	15	4.8	5.3	3.3	5.8	0.8	0.9	16.9	4.6	11.6
8	7.2	12.6	11.2	6.5	7.7	2.2	9.5	-4	5.7	11.9	3.9	10.7
9	6.9	13.3	14.9	2.9	13.4	-0.7	1.6	-2.9	4.2	2.8	-0.2	10.9
10	8.8	13.2	15.2	4.4	13.3	-1.4	-4.8	-2.4	4.6	1	6.8	15.6
11	12.3	13.8	13.4	8	5.1	10.9	-7.8	-5.4	3.6	0.8	11.5	12.5
12	16.9	11.5	10.6	7.6	7.2	6.7	-6.4	9.3	-1	8.2	11.1	11.4
13	15.6	10.7	10.2	8.3	4.3	3	-7.2	11	2	9.9	10.2	11.2
14	16.2	10.6	10.2	6.3	3.8	3.1	-1.8	5.6	15.9	8.9	10.5	11.6
15	16.8	12.5	5.7	4.1	11.2	4.5	11.6	9.2	8.6	10.3	10.8	9.5
16	11.1	14.8	3	4.3	7.8	-0.6	1.7	2.9	1.7	7.6	11.9	9.5
17	11.3	14.1	3.8	4.6	6.3	3	-4.1	2.3	-4.1	8.3	8.2	13.6
18	13.8	14.9	9.8	6	3.8	8.1	6.7	2.9	-0.4	***	8.1	13.7
19	13.5	13.8	7.6	6.7	7.4	5.6	2.9	2.7	1.8	11	8.4	15.8
20	13.5	14.7	9.6	3.8	6.6	5.9	0.5	7.1	-0.1	8.9	13.2	15.3
21	10.1	12	9.1	3.5	8.6	5.4	1.2	8.5	0.3	9.2	12.2	14.9
22	12.9	16.2	11.4	-0.7	4.4	0.7	2.1	10.8	-0.5	5.4	13.2	12.4
23	14.2	13.1	8.5	-0.9	1.8	-1	2.9	13.7	9.2	4.7	12.8	10.1
24	11.4	14.7	8.7	0.1	1	-2	2.7	8.8	5.1	3.7	11.9	6.8
25	12.7	13.8	10.6	9.5	3.7	-4.3	7.7	1.1	0.3	4.7	12.4	5.5
26	15.4	***	***	7	2.9	1.4	6.8	-1.1	3.5	5.1	12.1	10.4
27	15.9	***	***	3	0.8	3.5	2.8	-3.5	1.8	12.8	12.5	12.3
28	14.5	***	11	8	11.9	3	-2.6	0.1	3.4	10.1	13.3	12.4
29	13.8	***	9.8	7	9.2	-3.3	-3.5	3.1	5.1	10.9	13.1	11.6
30	12	***	9.2	7.7	10.6	-6.3	11.4	4.2	6.9	8.6	7.7	10.8
31	10.6	***	11.3	***	1.3	***	11.7	-0.9	***	9.9	***	10.2
Avg	12.7	12.9=	10.4=	5.7	6.2	2.1	1.8	2.6=	3.1=	7.4=	9.4	11.7

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2009 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.3	13	12.6	7.8	7.2	7.8	-4	4.9	***	7.8	9.7	7.8
2	11.1	14.5	10.8	9.1	0.7	4.4	-4.7	4	***	6.6	9	9.7
3	11.1	8.7	12.3	7.4	2.2	4.1	5.8	0.2	***	6.9	8.9	10.3
4	9.9	7.5	14.1	4.3	5.6	4.9	-0.5	9.7	***	12.2	8	10.3
5	9.2	7.6	10.8	11	3.8	6	-1.4	6.9	***	10.8	11.5	10.4
6	10.4	13.1	9.9	10.6	8.1	8.2	1.9	-1.9	***	9.9	9.9	12.9
7	12.8	6.5	8.9	10.4	4.1	-1.2	-1.1	0.4	***	11.4	11.9	15.3
8	14.3	11.9	12	7.5	5.3	-4.3	0.7	8.3	***	7.6	16.4	14.2
9	15.3	10.5	10.6	10.4	4.7	-1.9	9.2	8.1	***	6.5	8.6	12.4
10	11.2	***	9.2	9.6	1.6	-1.5	7.1	12.6	***	8.7	6.9	11.8
11	10.2	***	11.2	7.5	0.7	7.7	6	7.2	***	10.7	9.1	12
12	14.2	***	10.2	5	4.9	4.5	3.8	4.9	***	9	13.1	11
13	14.7	17.5	15.5	4.7	4.7	2.7	5	-1.9	***	8	11.9	8.1
14	12.1	11.3	13.5	2.8	8.6	2	1.9	***	***	8.9	7.4	6.8
15	11.4	10	10.3	4.8	10.8	-0.4	-4.8	***	***	9.6	5.7	10.2
16	14.8	8	11.6	3.7	10.8	2	-6	***	***	10.1	4.7	8.6
17	12.7	7.9	4.9	4.5	4.5	-2.8	-7.7	***	***	8.7	4.2	8.7
18	10.3	10.2	3.7	5.5	6.2	-1.1	-0.4	***	-0.1	7.7	6.3	10.8
19	11.6	14.4	7.8	6.9	5.2	-2.2	-4.8	***	-0.7	6	8.4	13
20	11.1	14.4	7.2	5.1	1.1	4.1	-6.2	***	0	3.5	8.1	13.3
21	12.7	15.9	3.4	4.3	0.5	8.4	3.2	***	-0.7	7	14.2	10.2
22	11.7	11.9	2.6	1.9	***	9	4.9	***	6.9	8	12.8	15.9
23	11.6	10.4	6.7	10.9	10.2	5.7	-0.5	***	6.4	7.4	11.8	15.4
24	11.3	12.1	11.3	8.7	9.5	3.3	-4	***	4.4	9.3	13.9	10.9
25	11.5	14.5	9.3	10.3	1.5	-0.3	-5.3	***	5.1	9.9	15	11.6
26	15.7	15	9.5	4.9	0	-0.7	-4.4	***	3.1	10.7	9.3	11.4
27	9.9	10.7	11.4	4.8	-2.8	-1.5	-6.4	***	3.5	11.3	9.1	10.1

28	10	14.5	10.4	6.2	-0.2	-3.3	-2.4	***	3.5	7	9.3	13
29	11.8	***	9.7	14	5.2	-8.4	8	***	3.9	6	9.5	10.2
30	9.2	***	10.1	9.4	2.2	-6.2	6.2	***	7.3	4.7	8.3	7.7
31	13.6	***	10.5	***	3	***	1	***	***	4.9	***	11
Avg	11.8	11.7=	9.7	7.1	4.3=	1.6	0	4.9=	3.3=	8.3	9.8	11.1

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2010 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.3	12.1	9.3	11.6	4.6	-2.1	2.3	4.5	9.7	13.3	12.3	11.8
2	15.3	11	12.5	10.3	5.7	-1.8	5.8	2.5	3	10.6	11.6	12.4
3	13.4	13.5	11.5	12.1	11.8	-4	5	1.3	-1.2	10.8	14.1	12.4
4	11.5	12.8	14	11.3	10.8	4.5	0.7	0.5	-1.7	8.8	11	9.6
5	11.7	13	15.1	11.6	4.6	-1.3	6.7	3.9	-2.1	9.1	10.5	10.2
6	11.6	14.9	12.6	12.1	6.2	5.2	6.4	2.9	6	11.3	9.3	8.7
7	14.5	18.4	11.9	12.2	3.7	14.3	3.3	-0.2	2.2	***	9.3	7.8
8	15.5	15	9.3	8.3	1.3	7	0.5	5.3	1.7	***	8.7	10
9	12.3	14.7	14.4	11.5	15	-0.9	5.8	1.9	8.2	***	7.1	11.4
10	15.7	13.4	11.1	9	10.3	4.2	9	1.1	3	***	7.3	11.2
11	14.2	16.2	14.2	4.8	7.9	5.4	0.4	-6.6	5.1	14.6	5.3	9.5
12	14.1	18.3	12.2	6.1	3.9	4.6	-2.3	-3.9	4.7	3.7	8.6	9.5
13	15.6	16.5	14.1	8.2	13.7	6.5	-6.4	5.4	2.5	3.9	7.6	11.9
14	12.8	15.8	10.8	10	9.6	7.3	5.5	7.5	16.5	6.7	8.9	9.7
15	11.1	16.8	11.3	11	8.5	-1.8	-0.3	-0.5	7.5	6.1	9.3	10.2
16	11	13.4	12.8	13.3	7	-2.3	-1	-4	4.2	2.9	11.6	11.5
17	13	11	12.2	11.3	8.2	-3.9	1.2	-1.7	5.4	-0.9	8.8	12.7
18	11.8	11.3	11.1	9.1	7.7	-5.1	-1.7	8	7.7	6.2	9.7	13.1
19	13.1	15.7	8.7	9.3	5.7	6.8	-1.8	1.3	12.6	8.2	14.1	14

20	13.2	14.7	14.9	7	4.1	1.7	-3	-4.3	13.3	2.6	14.2	14.2
21	12.4	15.5	13	3.5	2.4	4.8	-2.9	11.5	8.3	14.6	12.5	14.1
22	16.5	14.5	13	4.9	2.2	0	-2.1	7.3	3.7	12.4	11.8	16.2
23	16.1	16.3	9.9	1.4	1.7	-1.1	4.8	2.9	0.2	10.1	9.8	14.6
24	15.3	14.3	9.1	1.3	6.4	-0.6	4.5	2	3.3	10.1	8.5	11.6
25	15.6	15.2	16.2	1.1	6.5	***	2	-0.2	8	5.7	10	11.9
26	15	12.7	15.3	8.2	12.4	3.1	2.3	5.8	7.4	3.6	13.5	12.4
27	14.6	13.2	8.3	6.8	13.9	***	3.3	1.2	4.7	6.4	13.5	13.7
28	10.5	8.7	5.2	4.5	0.4	1	1.8	2.2	1.5	7.3	10.6	15.4
29	9.5	***	5.7	5.1	-3.3	10.8	5.9	-2.2	6.4	6.9	9.5	15
30	11.7	***	12	3.5	-5.1	5	1.8	6.1	15.8	8	9.2	12.7
31	16.4	***	11.5	***	-3	***	8.2	7	***	9.8	***	12.7
Avg	13.6	14.2	11.7	8	6	2.4=	2.1	2.2	5.6	7.9=	10.3	12

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2011 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.3	12.2	13	***	-0.2	1.3	-1.6	-0.9	3.8	4.2	3.8	11.7
2	15	11.5	10.6	***	2.6	6.4	-0.3	-3.2	10.4	7.8	2.1	11.6
3	14.6	14.4	14.8	***	9.1	6.7	-3.1	4.2	6.4	5.6	3.7	9.8
4	14.9	13.1	13.3	***	7.3	4.8	-5.5	9.3	4	3.7	9.1	8.8
5	15	16.8	14.4	***	5.2	2.7	0.7	2.3	2.7	1.8	7.3	11.2
6	14.3	16.7	13.8	***	10.9	0.1	2.5	1.5	5	-0.4	3.5	14.2
7	11.2	14.9	12.3	***	5.9	5.5	-0.7	-2	2.1	5.3	1.9	13.8
8	13.8	13.5	14.4	***	7.3	4.2	-4	-1	3	6.3	9.7	6.4
9	14.5	16.5	14.8	***	4.7	1.9	-4.1	-1.8	6.1	9.6	5.4	6.9
10	12.1	16.2	14	***	10.4	7.1	-4.4	-1.7	5	9.7	8.4	8.9
11	12	17.3	14.1	***	10.1	5.2	-5.3	-3.5	6	8.6	8.9	8.6

12	13	15.2	13.8	13.7	9.4	2.7	-3.3	9.9	7.3	12.1	10.2	8.6
13	13.2	15.4	14	13	6.7	0.8	-3.1	4.2	9.2	13	7.6	10.5
14	13.4	12.7	13.4	12.1	6.3	1.3	-3.9	1.9	8	14.7	7.2	14.3
15	12.1	14.4	12.9	11	3.6	9.6	-4.3	-0.8	3.5	9.7	7.9	10.8
16	14.1	12.4	13	9.4	4.1	6.3	-4.9	-1.3	0.8	7.7	9.9	8.2
17	12.1	14.8	15.4	8.8	3.5	-2.5	-5.2	-2	-1.2	8.6	13.6	12.8
18	14.6	14.8	14	7.8	1.7	-5.4	-3.1	1.5	17.4	9.6	12.3	9.5
19	19.4	14.8	13.8	7.2	2.8	9.7	0.1	6.1	1.2	9.6	10.4	13.1
20	13.7	10.7	13	11.7	0.1	-1.6	-2.1	4.3	-2.9	6.2	11.2	12.5
21	13.4	13.7	11.8	2.4	7.4	-4.3	-2.9	11.4	6.3	4.8	6.5	14.3
22	15.2	12	10.3	-0.4	9.7	3.3	-3.2	6	2.4	9.3	6	13.1
23	12.6	10.1	13.1	1.8	15.4	7.8	-2.6	4	5	5.9	7	10.7
24	13.9	11	13	10.2	10.1	2.1	5.8	2.3	6.7	6.7	5.9	11.7
25	13.7	9.5	13.4	7.8	0.9	3.6	0	1.6	3.5	9.3	6.5	13.2
26	12.9	14	11.6	7.5	0.5	2.3	-0.3	6.9	13.9	7.6	9.7	15.3
27	14	11.1	***	4.3	-1.1	-2.7	-3.4	4.1	9.2	6.7	10.8	0
28	12.4	12.2	***	1.5	-1.7	2.4	4.4	5.2	8.7	11.1	7.5	11.5
29	11.7	***	***	2.6	5.7	1.5	1	3.4	8.4	8.1	6.5	8.7
30	17.5	***	***	-1.5	5.4	0	-0.7	16.4	8.9	4.4	15.2	10
31	15.4	***	***	***	0.5	***	-3.1	8.1	***	5.9	***	13.2
Avg	13.9	13.6	13.3=	6.9=	5.3	2.8	-2	3.1	5.7	7.5	7.9	10.8

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2012 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.7	16.4	13.8	6	8.3	-1.5	7.5	-2.7	-2.2	9.8	4.7	11.3
2	13.5	14	13.9	4.1	6.8	-2.3	5.6	-7.3	-5.8	13.9	5.7	12.2
3	12.2	13.7	11.7	5.2	9.2	-0.1	0.4	6.6	2.1	10.9	6.8	13.1

4	13	14	10.8	7	8.8	-1.6	-1.6	12	3.2	9	11.4	11.7
5	13.6	13.6	10.9	10.3	5.5	9.8	-5.7	5	0.3	7.9	11.8	11
6	13.6	15.7	9.5	7.9	5.7	-2.1	10.4	0.2	4.6	6	12	10.2
7	12.7	11.7	12.7	14.8	2.5	-2.2	4.7	0.1	8	6.4	9.6	12.7
8	17.7	16.3	13.8	6.5	4.3	4.1	2.1	2.1	7.7	6	8	11
9	15.4	16.2	12.1	3.4	12.9	2.8	2.4	1.6	7.4	9.3	7.6	14.3
10	15.2	11.7	14.2	5.3	9.3	-2.3	8.1	7.3	4.7	6.6	5.8	11.4
11	14.6	11.8	11.7	3.2	5.5	-2.3	-0.9	4.3	1.3	5.7	9.6	10.7
12	16.7	9.5	10.3	0.9	7.1	-1.4	-2	0.9	2.7	6.6	13.3	10.4
13	17.2	11.2	8.5	0.9	5.3	-5.6	-0.1	1.7	8.9	2.7	11	13.5
14	15.4	12.1	11.3	4.9	6.8	-2.5	2.2	11.2	5	10.3	11	13.9
15	15	14.7	8.1	9.5	1.8	9.7	0.8	9.8	4.7	11.8	11.7	13.7
16	13.4	15.8	10.6	8.5	-0.1	-0.3	1.2	2.3	1.4	11.1	***	12.8
17	9.6	13.7	8.2	9	6.4	0.7	-1.4	-3.7	11.3	9.3	10.5	10.9
18	12.8	13.1	6.3	9	6.7	4.8	-3.9	1.4	8.1	9	10.3	8.9
19	15.1	12.6	8.2	4.7	-2.8	6.1	-0.2	11.4	6.5	6.2	8.6	10.8
20	14.1	15.5	10.6	3.1	-5.5	1.9	10.1	7.5	3.5	6.9	10.5	14
21	15.7	15.9	7.9	5.7	-3.2	3.3	7	3.8	11	7.3	9.5	13
22	15.1	13.4	10.2	4.9	-4.3	5.9	0.3	6.6	4.1	5.4	9.5	14.6
23	12.7	10.8	13.4	3.6	12.6	4.8	-4.5	6.6	2.2	6.3	14.2	14.4
24	12.8	8.2	12.9	3.9	3.7	3.9	-5.2	8.5	5.1	6.2	10.4	16.6
25	9.5	12.1	10.1	1.9	2.8	4.8	-3.4	8.1	2.6	6.3	6.9	14
26	12.2	15.5	9.8	13.2	7.5	6.3	5.8	1.8	5.4	8.8	3.4	13.9
27	13.1	15.8	13.8	2.9	3.4	4.1	1.7	-2.1	11.3	7.3	8.2	13.6
28	11.8	16.1	13.3	0	0.3	3.3	0.2	1.8	3.9	7.9	4.6	15.3
29	11.7	15.2	13.9	5.8	11.8	4.8	-4.4	9.1	2	10.3	10.1	16.3
30	11.6	***	9.3	16	1.9	5.6	-6.8	6	2.3	7.4	10	18.2
31	13.3	***	7.7	***	1.5	***	5.1	15.3	***	5.7	***	13.7
Avg	13.6	13.7	11	6.1	4.6	2.1	1.1	4.4	4.4	7.9	9.2=	13

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2013 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.9	13.4	9.1	13.8	10.6	15.5	6	-0.8	-2.3	3.2	6.5	9.7
2	10.7	9.3	10.7	11.4	6.8	10	0.6	-0.3	-3	10.8	6.8	10
3	11.3	10.6	13.6	6.4	8.7	3.7	0.1	-1.2	5.9	8	5.8	14
4	10	9.8	13.6	3.5	3.5	3.6	3.5	-1.9	1.6	7.4	5.2	10.1
5	10.3	9.7	12.6	1	-1.7	-1.4	1.7	-1.6	-2.6	8.2	9.9	9.1
6	11.7	12.4	15.8	5.3	-2.8	-0.9	4.4	-0.9	0.7	6.5	12.6	8.8
7	14.4	11.1	14.4	5.1	9.3	3.9	3.8	7.6	-0.5	6.4	9.5	9.9
8	16.4	12.5	12.9	13.1	8.8	10.8	1.3	-1.2	9.5	6.8	5	8.3
9	15	15.9	9	6.3	5.7	-4.7	0.2	-5.1	6	4.3	11.2	12.6
10	8.9	15.3	8.8	1.8	1.7	-7.9	2.7	-3.1	2.3	3.4	10.5	8.8
11	6.6	15	8	-0.7	3.4	5.9	0.9	-5.5	4.7	6.9	8.7	8.3
12	11.3	15.4	9.8	5.8	1	8.7	1.1	3.9	4.4	7.3	6.7	9.2
13	9.8	14.2	13.1	7	4	7.3	8.9	8.9	8.2	4.3	7.5	9.1
14	12.4	13.6	10.1	7.8	8.8	7.1	2.3	4.8	4.9	-1.2	9.8	11.3
15	12.1	12.2	10.1	12.6	11.8	-3.9	0	5.3	1.5	-0.2	12.7	10.9
16	13.8	12	12.7	14.3	7.6	-6.4	2	4.2	3.9	8.5	12.9	11
17	16.4	14.8	9.6	17.2	6.8	-5.3	-0.2	9.4	2.1	7.2	9.6	10.8
18	15.3	16.7	6.9	6.5	2.2	-4.5	2.2	1.5	1.2	6.5	11	10.5
19	13.7	14.6	8.7	5.3	1.6	7.9	-0.1	-6.2	3.6	6.1	11.8	9.5
20	13	7.5	5.6	4	9.1	6.3	-0.5	-5.2	9	8.3	11.7	10.5
21	12	4	7.5	6.4	8.8	1.2	-1.6	8.7	2.3	6.6	7	16.7
22	12.1	5.6	10.2	2.3	6.4	3.5	-2.4	-3.8	-4.7	3.7	5.6	15.5
23	9.6	7.6	12.9	3.9	8	-2.8	5	-6.8	3.8	1.7	10.1	15.4
24	12.8	12.4	0	2.8	6.3	11.1	-1.1	-2.6	7.6	7.1	10.6	14.4
25	13.5	7.2	12.8	3.8	10.6	11.8	-2.9	-0.4	1.2	9.1	9.7	14.6
26	12.6	14.4	12.2	4.7	14	0.5	9.7	5.3	4.5	7.2	11.1	14.3

27	13.5	18.6	13.7	4.7	9.3	-4.2	5.8	16.3	9.3	7.5	7.7	13.9
28	12.3	11	12	10	-0.2	-5.1	2.2	13.8	2.3	8.5	8	12.3
29	12.5	***	11.5	4.7	-4.3	-3	-4.5	9.9	-3.7	7.4	8.2	11.8
30	14	***	10.4	3.1	6.8	7.9	-5.7	1.9	-1.5	9.6	9.9	11.2
31	12.7	***	10.2	***	3.9	***	-5.6	1	***	8.5	***	10.7
Avg	12.3	12	10.6	6.5	5.7	2.6	1.3	1.8	2.7	6.3	9.1	11.4

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2014 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.5	13	13.4	11.1	3.2	9.3	8.4	4.3	-1.2	6.1	8.3	11
2	16.7	13.4	13.4	8	2.5	1.4	4.2	3.9	-1.2	5.4	12.1	10.6
3	14.4	13.3	13.5	6.8	3.9	1	2.2	12	0.1	3.5	12.6	11.9
4	16.5	12.2	13.4	3.1	9.4	6.7	7.3	10.6	1.9	3.1	8.9	10.9
5	15.1	14.7	14.1	6.9	6.3	0.1	2.5	-0.4	1.9	3.7	7.5	11.1
6	15.5	14.5	13.2	1.3	-1.1	-5.7	-2.7	-4.3	9	5.1	9.2	10.5
7	16.5	13.3	12	2.4	8.9	-7.4	-5.7	-1.7	3.5	9.9	10.5	12.2
8	17	13.8	14.2	6.7	8.2	9.3	-6.6	6.8	3.3	6.5	9	13
9	15	13.6	10	3.6	8.2	8.8	-7.3	5.3	2.3	4.3	11.4	13.9
10	12.2	15.2	9.7	3.6	5	-5.8	-7	3.6	9.6	4.7	11	13.3
11	11.8	15.6	12.7	3.5	2	-10.4	3.7	4.4	3.8	2.2	10.7	12.6
12	10.9	17.9	7.7	4.9	3.3	2.5	4.4	3.1	4.6	8.9	11.2	10.7
13	11	15.8	6.1	4.2	1.7	5.5	-5	4.2	6.3	6.9	10.8	8.7
14	11.2	16.3	5.7	10.9	2.3	5.8	-6.2	5.2	3.5	5.7	8.9	10.1
15	11.3	16	9.7	8	1.4	7.5	-6.6	0.8	12.9	9	4.9	10.6
16	17.4	13	12	7.2	1	-3.2	10.8	0.1	12.7	7.2	2.4	10
17	16.9	12.3	12.8	5.6	-0.6	-5.3	13.7	2.2	13.5	4.1	1.4	11.4
18	13.9	14.9	14	7.4	-0.2	7.4	6.2	12.3	8.6	***	4.3	8.4

19	13.2	14.8	12.5	8.5	-0.8	-1.5	1.9	12.1	2.1	***	7.6	13.3
20	13	11	11.5	8.4	8	-3	-3.1	9.6	-0.5	***	9.4	11.2
21	13.9	12.1	9.7	9.5	1.8	-1.2	-5.7	3	-2.4	9	10.3	11.5
22	14	11.8	11.8	9.7	0.8	-1.3	2.4	1.3	1.8	9.1	10.4	10.3
23	15.9	13.1	17.5	5.1	13.1	5.4	-2.3	-0.5	15.4	6.1	12.5	11.6
24	15.2	12.4	12.7	3.8	11	2.9	-2.6	-1.3	10.1	10.7	9.3	15
25	12.5	10.1	13.7	2.1	10.2	7.2	8.2	-1.6	3.9	8.1	11.3	10.2
26	11.5	11.3	8.4	4.9	10.1	7.2	4.5	4.5	3.8	7.6	11.4	12.9
27	13	9.6	7.1	2.2	8.3	-0.6	-1.7	2.2	5	7.9	11	11.7
28	15.6	12.5	9.2	-0.1	11.7	-7.3	-3.7	-1.7	4.5	13.1	9.4	10.9
29	17.9	***	7.8	3.9	5.4	-2.1	-4.9	-2.2	6.6	13.1	8.9	13
30	14	***	5.8	1.7	0.7	10.6	6	0.3	5.2	9	11.3	14.4
31	12.7	***	8.2	***	-1.9	***	5	1.2	***	7.9	***	13
Avg	14.2	13.5	11.1	5.5	4.6	1.5	0.7	3.2	5	7.1=	9.3	11.6

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2015 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.7	7.3	11	9.5	2.8	5.1	-3.9	-0.9	5.7	6.9	7.9	9.9
2	12.2	4.2	10	11.1	2.8	6.7	-5.8	-1.4	4.1	6.4	1.9	12.5
3	14.1	10.6	7	13.7	-0.5	6.8	2.6	10.6	0.3	6.3	0.8	12.3
4	14.6	10.4	9.9	11.7	0.2	0.7	10.1	9.7	1.1	5.1	3.9	9.9
5	14.5	12.5	11.7	9.2	3.3	-3.6	9.5	-1.9	-0.6	9.6	5	14.1
6	13.6	11.3	11.2	8.6	0.6	-6.7	2.4	-3.8	1.9	7	13.6	14.1
7	12.4	12.3	12.5	***	-2.2	-3.1	1.3	0.7	7.1	6.9	9.3	14.8
8	15.7	9.9	10.9	***	-2	-1.9	0.9	5.4	3	8.1	6.7	15.8
9	13.6	9.6	12.1	5.8	9	-3.9	1	2.7	-1.4	9.4	12.5	14.3
10	13.3	14.2	10.7	5.2	7.7	-2.8	1.5	0.4	7.3	7.6	11.2	14.4

11	13.3	15.9	12.5	5.6	6.5	1.3	13.1	-4.5	5.3	3.1	8.4	11.8
12	16.7	15.5	13.8	4.1	3.1	-1.7	6.2	-5.1	5.9	2	8.9	11
13	14.7	15.7	10.7	5.1	2.3	-1.1	-3.2	9.9	5	10.7	10.2	9.1
14	12.3	12.3	14.9	***	5.5	6	-7.3	0.4	1.9	9.4	7.6	7.9
15	12.8	9.5	14.4	***	3.3	5.5	1.6	-1	11	7.1	8	7.5
16	8.2	8.2	11.9	0.8	5.9	2.8	4.7	8.4	8.5	4.7	5.6	8
17	5.4	7.3	10.2	0.1	2.4	0.6	0.9	4.6	3.4	4.7	6.2	10.1
18	9.1	12.6	7.8	3.3	2.2	-1.9	1.8	4.6	3.7	10.4	6.9	10.2
19	11.4	10	14.2	1.7	8.3	-4.4	-2.5	8.3	3.6	14	3.5	9.9
20	10.4	11.3	8.6	1.5	3.6	-5.5	0.4	8.4	3.7	12.9	9.5	12.7
21	10.1	8.5	10.7	3.6	5	0.5	2.6	2.4	12.2	8.8	4.8	10.6
22	14.5	6.5	12.3	2.3	2.1	-1.5	4.5	0.6	10.3	8.6	5.2	9.9
23	12.4	6.1	13.4	7.5	3.8	8.1	3.6	3	6.1	10.3	5.7	6.8
24	12.8	13.4	12.9	5.6	6.9	4.8	-2.3	3.9	6.4	13	11.2	9.8
25	17.2	9.2	11.8	8	8.4	-2.3	0.6	8.6	7.9	11.2	11	10.1
26	15	11.1	12.3	7.9	2.6	-1.7	-2.1	7.4	11.3	10.8	6.9	11
27	12.8	14	10.7	4.7	3.7	-1.1	-4	7.1	12.3	9.2	4.9	12.6
28	11.4	12.4	8.5	1.5	12.2	5.1	0.4	7.8	8.4	4.3	6.7	10.8
29	10	***	6.4	4.7	12.1	2.3	6.1	4.7	5	4.6	9	16.1
30	7.2	***	5.8	4.2	3.9	-4.6	4.8	10	8.8	4.7	9.6	13.2
31	11.3	***	9.6	***	2.2	***	-2.3	12.4	***	11.2	***	16.2
Avg	12.4	10.8	11	5.7=	4.1	0.3	1.5	4	5.6	8	7.4	11.5

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2016 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.9	16.3	15.4	11.8	-0.8	5.9	6	0.3	11.3	1.2	10	11.6
2	16.2	14.3	13.4	9.2	2.4	2.9	-2.1	***	7.6	3.6	11.2	8.8

3	13.3	12.4	15.6	5.2	0.3	1.8	-8.2	3.2	7.6	2.6	9.9	7.7
4	14.1	10.4	16.4	7.3	-0.1	5.5	-2.9	-0.2	5.1	1.1	11.9	13.4
5	16.9	9.8	16.4	9.2	-2.1	4.2	12.4	3.5	4.6	-2.5	11.1	12.1
6	17.5	9.4	14.9	6.2	1.3	-0.2	2.8	0.6	7.9	8	9.2	11.2
7	10	10.5	14.6	6	7.8	2.2	-5.7	-2.9	8.5	7.2	9.5	9.9
8	8.5	12.4	12.2	7.5	5.6	0.9	-2.8	-4.2	3.5	6.5	13.4	11.4
9	11.8	11.5	12.4	6.7	6	9.1	-1.6	-8.3	4.5	2.3	12.7	12.6
10	12.9	11.9	12.1	8.1	7.4	9	-4.6	-1.9	3.9	-1.2	9.9	10.2
11	14.1	10.8	11.9	11.4	2.2	1.7	-1.3	6.3	5.7	8.5	9.6	10.1
12	11.1	9.1	12.2	12.3	2.5	-2.5	4.3	7.9	7	6.9	9	10.2
13	12.3	16.3	12.3	11.5	8	5.7	-1.6	13.4	5.5	5.4	7.2	12.9
14	13.8	14.1	11.4	10.6	4	9.6	2.2	0	2.7	6.9	6.3	12
15	11.9	11.9	11.3	11.1	3.7	9.6	1.5	-3.1	3.6	6.9	7.9	15.1
16	11.9	12.6	11.9	10.7	4	-0.8	3	4.6	5.6	7.1	10.3	12.9
17	12.3	13.4	12.8	8.1	3.5	-3.7	1.9	4.7	1.6	3.2	8.1	11
18	11.2	13.8	8.8	12.2	4.5	5.3	2.8	3.9	1.9	4.9	5.7	12.2
19	15.2	11.3	11.9	12.2	7.2	4.7	8.7	9.3	-0.1	8.7	3.8	15.5
20	14.7	12	11.7	9.3	4.4	4.9	9.9	4.5	7.7	9.2	10.1	14.1
21	12.8	12	7.8	8.7	4.4	-1.4	3.5	0.4	7.5	11.6	9.5	14
22	15.8	12.6	6.3	6.5	9.6	-6.2	-3.1	3	5.6	7.4	13.1	15.1
23	15.4	10.4	8.5	5.6	11.5	-2.9	-4.9	-2.3	3.8	9.2	13.4	10.6
24	15	16.4	12.5	3.4	8.3	2.5	-8.4	3.7	4.2	9.9	10.9	7.6
25	12.3	16.4	14.3	10.3	6.2	4.1	-0.3	6.1	2.5	11.8	10.2	7.3
26	11.7	11.9	13.3	7.2	1.9	6.4	2.9	2.1	2.4	10.9	9.5	13.6
27	12	8.6	13.4	3.3	5.8	6.9	1.4	5	8.5	7.9	11	13.6
28	14.4	10.5	6.3	10	4.1	-1.7	3.1	7	0.9	12.9	12.2	13.3
29	13.9	11.6	6.4	6.9	3.2	-0.8	6.5	6.6	0.5	10.7	11.2	11.3
30	15.3	***	15.2	1.8	1.5	1.7	3.5	8.5	5.2	9.4	13.7	11.8
31	14.3	***	12.4	***	1.3	***	1	7.4	***	5.6	***	14.3
Avg	13.5	12.2	12.1	8.3	4.2	2.8	1	3.0=	4.9	6.6	10	11.9

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2017 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.5	16.1	14.5	13	6.4	8.3	3.3	13.5	2.4	8.9	12.9	11.9
2	15.9	12.1	14.3	10	8.3	8.6	3	9.5	-2.5	8.7	12.4	13.7
3	10	12	13.4	10.5	6.8	7.8	1.1	2.3	-1.3	13.6	12.8	9.9
4	10.2	15.6	11.8	9.7	10.8	7.2	-2.4	1.9	-0.1	6.5	12.3	10.5
5	14.3	13.1	13.9	10.1	13.4	0.9	8.5	4.4	11.4	6.2	13.6	11.8
6	13.1	11.4	14.6	9.7	12.9	9.5	2	-0.9	9.1	3.6	7.4	9.3
7	12.4	15.5	14.7	11.5	6	11.5	-2	-4.9	6.6	6.9	5.2	8.1
8	12.3	14	15.6	13.7	5.2	-0.8	8.3	-3.1	3.6	7.3	3.1	10
9	10.8	15.7	8.9	10.2	6.5	-5.1	10.9	-2.3	1.1	5.8	8.1	9.1
10	12	16.4	8.7	15.3	7.2	13.5	-1.1	16.5	9	2.7	9.1	6.8
11	14.1	16.7	5.7	14.1	9.1	10.1	-2.2	4.4	6.2	-0.6	6.5	8.4
12	14.6	14.8	9.9	13.9	5.1	9.2	-4.1	0.9	5.6	6.4	8.4	8.5
13	12.6	15	13.8	11	4	7.1	-2.2	6.2	11.9	5.2	14.1	11.3
14	13.4	14.2	13.1	3.9	3.8	1.8	-0.9	2.3	9.3	3.9	13.9	8.6
15	13.1	16.9	12.2	1.6	2.4	-2.5	4.5	2.9	9	9.5	3.4	5.3
16	8.4	14.4	9.8	1.5	2.9	-7.5	1.5	-3.7	6.1	4.9	2.6	7.5
17	7.9	16.3	9.4	6.5	3	5	-2.9	0.4	6	2.7	3.5	13.8
18	11.1	19.1	11.9	5.1	0.8	-2.3	5.6	0.7	6.7	-0.1	5.2	10.2
19	15.3	11.7	11.8	2.9	7.1	12.4	0.6	-3.3	5.3	7.2	4.6	9
20	9.9	11.3	6.6	0.1	5.9	5.5	-1.1	-1.8	5.1	5.5	9.5	5.9
21	9.4	10.8	9	0.4	4.1	-2.1	-2.2	7.3	8	6.7	13.5	8.8
22	12.1	12.3	12.6	0.6	7.7	10.1	-0.9	3.2	8.9	6	8.3	14.4
23	15.8	11.7	14.8	2.4	8.5	-3.7	-5	1.2	3.9	12.2	6	11.9
24	14.9	13.5	9.4	8.1	11.6	-6.1	-7.2	5.3	4.2	10	7.4	13.4
25	12.1	11	8.3	4.9	4.8	-4	5.4	-0.7	7.1	9.1	7	9

26	11	9.6	8.3	3.2	4.7	-3.9	-1.7	-6.1	-0.9	5.4	8.3	7.5
27	13.2	8.9	8.6	8.9	1.7	0.2	-4.2	-1.3	-1.9	3.2	6.7	7.3
28	12.8	11.4	9.5	7	1	5.5	-2	1.4	1.7	2.9	3	12
29	8.8	***	10.9	3.3	-1.2	-0.3	2.2	7.5	7.6	4.7	7.5	13
30	10.2	***	7.9	2.6	1.3	11.9	1.7	3.3	3.4	13.7	11.7	13.2
31	15.3	***	15.9	***	9.1	***	1.4	0.4	***	10.1	***	11.3
Avg	12.4	13.6	11.3	7.2	5.8	3.6	0.6	2.2	5.1	6.4	8.3	10

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2018 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11	9.5	14.5	13	3.5	5.3	11	0.1	7.3	13.9	5.2	13.3
2	8.3	11.9	13.3	11.1	8.9	3.9	1.3	-2	7.4	7	4.1	9.8
3	9.8	10.9	13.2	14.6	4.2	0.5	-5.1	-1.5	5.2	2.4	-0.1	11.1
4	9.3	13.6	14.3	13.9	0.9	3.2	-6.1	1.2	7.1	-1.5	11.4	11.7
5	16.9	12.3	16.2	13.8	0.6	-2.6	-5.7	1.8	10.2	1	4.1	13.3
6	15.1	14.5	14.6	12.9	6	-1.4	-7.2	-1.3	6.5	3.2	4.5	12.6
7	12	14.4	14.3	10.1	5.2	6.7	-4.8	-0.9	4	4.2	4.8	13.4
8	10	13	10.5	11.8	9.1	7.9	-2.9	-3.7	0.7	5.8	-1	10.8
9	9.5	17.5	7	10.8	3	10.2	1	0.2	-0.7	8	3.1	8.7
10	9.9	15.2	7	9.6	-0.5	1.7	5.7	1.8	-3.5	10.6	2.2	8.4
11	12.7	13.6	11	7.5	11	0.8	1.2	-0.6	-0.1	11.1	6.5	5.9
12	18.5	15.1	10.6	7.3	7.9	1	12.8	9.8	7.9	5.4	8.6	10
13	16.3	15.8	10.5	14.5	7.7	6.7	8.8	6.2	3.4	4.5	13.5	12.3
14	15	13.5	15.6	12.7	7.5	9	2.5	5.6	0.5	6.4	12.4	13
15	12.6	13.4	11.5	10.9	1.6	8.9	-2	8.1	4.8	8.7	10.9	15.6
16	12.9	13.8	9.1	7.1	-1.9	-1.3	-5	1.6	1.8	7.8	9.9	12.6
17	14	13	8.6	***	-1.6	-3.1	-1	1.8	4.1	6.5	9.7	14.6

18	13.7	13.9	11	11.3	-1.6	12.3	0.5	0	6.1	6.3	9.5	15.7
19	15.8	15.4	12.7	10.5	0.1	4.8	0.9	8.3	3.1	6.4	11.3	12
20	13.8	14.7	10.5	8.3	3.9	-1.3	0.8	9.6	2.8	3	10.5	11.1
21	13.5	15.5	11.2	5.6	8.2	-1.6	1.4	7.2	1.4	0.8	6.4	11
22	13.5	14.6	10.4	7.5	8.5	-1.1	-1	7.4	0.4	-0.4	3.2	12.8
23	13.2	14.2	10.3	8.1	10.8	1.5	9.8	5.2	6.2	4.6	7.8	15.3
24	11.1	11.5	12.9	10.9	4.9	6.5	8	5	11	7.1	8	13.7
25	13.8	7.5	12	6.9	2.5	0.6	7.6	3.4	16.1	5.9	13.6	14.9
26	11.6	5.8	11	8.8	3.5	-2.3	0	2.7	5.3	7.7	12.9	15.3
27	13.2	11.1	9.2	***	1.8	0.3	4.7	0.2	2.1	7.8	9.4	12.5
28	12.9	11.2	16.4	6.3	10.2	-1	0.3	-0.1	4	7.9	6.2	9.5
29	10.4	***	15.3	6.3	5.8	0.7	1.6	-0.6	-0.7	11.3	4.4	10.2
30	13.8	***	14.7	5.4	0.3	7.9	-0.5	4.2	2.5	6.1	8.7	15.8
31	11.3	***	14.1	***	8.2	***	-2.7	10.3	***	3.6	***	13.6
Avg	12.8	13.1	12	9.9=	4.5	2.8	1.2	2.9	4.2	5.9	7.4	12.3

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2019 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15	13	12.1	7.8	9.7	2.3	5.9	0.6	2.3	6	4.5	12.1
2	9.8	13.2	12.8	6.2	17.1	1.7	4.6	-1.1	4.8	2.4	10.1	13.4
3	10.2	11.7	12.8	10.4	12.7	1.5	4	2.3	1.7	13	4.4	6.9
4	14.2	9	14	10.5	9.1	10.9	2.8	***	5.2	9.3	12.2	5.2
5	12.9	12.7	13	9	9	9.1	-0.7	1	5.4	7.5	11.3	8.7
6	11.6	10.2	14.6	8.9	10	-0.3	-0.8	-0.1	4.4	8.2	14	13.3
7	10.6	13.3	15.7	7	10	-3.8	3.4	0.1	2.7	8.3	8.5	13.4
8	15.6	13.6	12.6	10.5	6.8	0.8	3.1	2.1	8.7	3.4	6.4	10.5
9	15.5	17.3	12.7	7	3.7	-1.5	6.4	-5	5.7	5.3	9.5	10.2

10	14.4	16.2	13.8	10.7	-0.2	4	11.9	-5.7	4.7	4.4	11.2	10.9
11	13.9	14.8	12.2	10	4.7	4.3	10.1	12.8	***	3.8	10.7	13
12	9.9	12.8	12.7	9.9	3.7	6.7	0.5	0.6	6	8.3	12.3	11.6
13	11.5	15.3	16.3	9.8	7.8	-2.9	-0.8	-2	1.2	5.3	11.6	10.9
14	15.3	14.9	14.7	12.7	6.5	-5.3	6.7	-2.7	-1.6	1.3	10.4	12
15	13.8	15	11.8	9.7	7.2	-2.3	7.5	-5.3	0.5	6.1	10.3	6.3
16	13.5	13.2	14.3	5.7	6.3	1.8	3.6	5.9	4.6	***	12.7	2.9
17	13.6	13.3	14.6	8.3	4.8	2.1	3.9	3.2	3.1	7.5	8.7	5
18	13.5	10.6	14.5	8.9	10	0.3	8.9	0.7	8.9	14	7.2	11.5
19	9.2	11.9	11.9	7.1	16.3	-1.1	11.2	1.4	9	14.2	10.4	11.4
20	4.8	14.3	13.8	8.4	7.9	-2.4	-2.3	-2	17.5	11.7	9.7	8.5
21	5.8	14.1	12.2	8.2	3.2	-2.6	-9.7	-2.9	10.6	6.1	9	13.1
22	12.6	14.3	12.3	8.3	-0.4	4.6	10.8	3.9	3.6	4.5	12.2	***
23	12.7	13.3	14	8.7	2.9	1.3	11.1	3.1	1	3.9	12.9	12.8
24	10.2	10	14	8.2	1.2	-0.8	4.2	3.4	3.5	5.6	12.6	15.7
25	11.5	10.8	11.8	6.2	5	-3	7.1	10.2	0.6	14.2	10.7	15.1
26	10.6	12.6	9.8	7.9	5.6	-1.8	-1.4	6.2	-2	9.7	9.2	13.9
27	8.5	11.8	9.5	5.7	9.3	7.4	-1.8	5.4	3.3	8.2	7.3	9
28	12	9.1	10.9	6.6	8.2	12.1	11.3	5.1	3.2	9.1	8.9	9
29	14.6	***	9.2	10.1	1.2	10.3	5.3	0.7	5.8	4.5	15.7	13.5
30	15	***	9.2	14.7	-0.1	7.2	5.4	1.3	5.7	-1.6	12.1	13.4
31	14.2	***	11	***	2.9	***	3.9	2.7	***	7.3	***	12.1
Avg	12.1	12.9	12.7	8.8	6.5	2	4.4	1.5=	4.5=	7.0=	10.2	10.8=

Daily Minimum Temperature (C) Data for station [0150620AX] - ELLIOT -31.3360 27.8400 1464 m 2020 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12	16.2	10.4	10.3	6.3	3.9	---	---	---	---	---	---

2	15.7	15.7	11.5	8.9	4.9	0.3	---	---	---	---	---	---
3	17.4	15.9	8.9	9.8	8.7	3.1	---	---	---	---	---	---
4	***	14	10.8	12.9	4.9	-0.8	---	---	---	---	---	---
5	16	18.2	13.7	13.6	3.5	0.1	---	---	---	---	---	---
6	16.4	14.3	11.6	10.2	2.4	0.5	---	---	---	---	---	---
7	16.3	12.4	11.1	2.5	2.7	1.1	---	---	---	---	---	---
8	15.7	13.8	14.4	-0.4	5.4	2.3	---	---	---	---	---	---
9	14	***	13.8	5	2.5	1.1	---	---	---	---	---	---
10	13.1	12.7	14.5	13	3.6	11.4	---	---	---	---	---	---
11	14.4	12.3	9	14	5.4	1.8	---	---	---	---	---	---
12	16.3	13.4	14.1	9.5	5.9	0.3	---	---	---	---	---	---
13	13.2	***	13.7	5.5	2.3	-3.6	---	---	---	---	---	---
14	14.3	13.1	14.7	8.3	1	-2.3	---	---	---	---	---	---
15	11.9	12.3	10.4	7.3	3.7	-2.9	---	---	---	---	---	---
16	12.5	15.6	10.7	5.7	***	-6	---	---	---	---	---	---
17	11.8	14	8.6	2.9	-0.3	-6.2	---	---	---	---	---	---
18	14.2	13	15.2	3.7	4.8	-2.5	---	---	---	---	---	---
19	12.2	***	12.8	5.5	6.2	-2.4	---	---	---	---	---	---
20	11.1	15.9	13.3	13.4	1.7	7.8	---	---	---	---	---	---
21	12.8	14.4	14.6	12.5	2.6	3	---	---	---	---	---	---
22	13.4	***	9.8	11.8	7.9	***	---	---	---	---	---	---
23	12.6	8.9	14.3	11.8	4.6	***	---	---	---	---	---	---
24	***	6.6	13.1	12.2	6.5	-0.9	---	---	---	---	---	---
25	14.6	7.5	10.8	9.3	7.6	-0.1	---	---	---	---	---	---
26	9.8	15	8.3	10	0.9	2.9	---	---	---	---	---	---
27	7.8	13.2	6.3	9	-0.4	-1.6	---	---	---	---	---	---
28	7.4	9	5.9	7.7	4.6	5.6	---	---	---	---	---	---
29	8.3	9	9.4	7	***	1.7	---	---	---	---	---	---
30	***	***	13.1	5.9	6	-1.1	---	---	---	---	---	---
31	14.3	***	12.4	***	11.3	***	---	---	---	---	---	---

Avg	13.2=	13.1=	11.7	8.6	4.4=	0.6=

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2007 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	***	17.7	15.7	***	1.6	7.3	-3.6	-5.2	-0.7	13.1	12	10.5
2	***	13.5	***	***	2.9	2.6	-3.1	-3.7	-0.1	12.2	9.4	11.5
3	***	***	***	***	***	0.6	-5.7	-2.3	1.1	9	12.3	11.1
4	***	***	***	***	3.4	4.4	-5.9	-5	2.2	6.9	7.4	8.5
5	***	13.7	***	***	3	10.9	-5.6	-3.3	1.5	4.4	11.2	11.6
6	***	13	***	***	3.2	6.8	-3.7	5.3	-2.6	11.2	9.4	11.8
7	***	12.2	***	***	2.6	2.8	-2.1	1.3	2.8	7.8	6.1	11
8	***	15.8	***	***	1.1	-0.8	-3.3	-2.7	11	7	5.8	11.4
9	10	16.3	***	***	0.9	-0.2	-7.2	1	4.3	6.6	4.8	12.8
10	11.6	16.6	***	8.5	1.3	-0.1	-8.1	2.7	-1.5	4.7	5.9	12
11	***	8.3	***	9.7	0.6	-2.7	-3.3	0.1	-0.2	5.8	3.2	15.7
12	13.8	7.1	***	5.9	***	-4.2	-2.5	-5.4	5.2	11.3	8.1	17
13	***	6.2	***	***	***	-4.1	-6.8	-2.9	7.9	8.3	6.5	13.6
14	14	7.1	***	***	***	-4.5	-6.2	0	3	8.7	6.4	12.9
15	15.8	8.2	***	5.8	***	-5.1	-6.2	-3.3	7.6	10.7	11.1	13
16	12.2	9	***	9.2	***	-6.4	-6	1.5	5.4	8.6	12	16.5
17	12.6	11	***	7.4	***	-7.1	-4.2	-2.8	3.9	8.5	9.2	14.9
18	14.5	13	***	11.4	***	-3.4	-2.8	-5.1	3.2	10.6	8	11.2
19	13.6	15	***	***	***	-6.7	-3.8	-2.2	2.9	8.2	11.8	9.3
20	12.3	19.5	***	***	***	-5.7	-3.8	0	4.6	5.5	11.1	11.8
21	12.5	13	***	***	***	-5.3	-2.6	0	5.4	9.4	15.9	13.8
22	12.6	15.8	***	***	***	-4.5	-3.2	-0.5	10.2	13	10.5	13.3
23	14.2	13.7	***	***	-5.6	-3.6	-2.1	0.4	5.9	10.3	5.6	15.9
24	18.2	15.6	***	***	-8.3	-1.6	-1.5	4.4	3.8	5.9	10	17.3

25	18.3	20.7	***	4.8	-7.6	-0.6	-1.2	1	3.8	5.4	9.4	14.3
26	15.4	18.7	***	7.1	-7.6	1	-4.8	2.2	8.8	7.7	8.8	13.6
27	16.6	16.7	***	5.2	-6.1	0.7	1	1.1	11.5	10.4	9	10.6
28	13.7	18	***	1.4	-5.7	1	-0.2	-3.3	7.2	7.7	7.6	13.4
29	15.5	***	***	-2.9	-5.3	-2.3	1.6	-3.5	6.5	14.4	8.6	14.8
30	16	***	***	0.1	-1.4	-3.3	-3.8	-2.2	9.4	12.2	12	14.3
31	12	***	***	***	2.3	***	-5.7	0.9	***	13.5	***	13.8
Avg	14.1=	13.7=	15.7=	5.7=	-1.3=	-1.1	-3.8	-1	4.5	9	9	13

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2008 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.2	14.6	12.4	7.5	7.4	-2.2	-5.7	-1.8	-3	1.2	9	8.3
2	16.8	12.8	12.8	8.3	2.9	1.4	-4.5	-5.8	-5.2	1.9	10.5	14.6
3	14.3	19.2	13.8	6.9	7.8	6.8	-4	-4.7	-1.8	3.8	8.9	14.4
4	12.5	13.9	13.6	9.2	5.9	0.9	-3.8	-0.9	-4.9	6.6	3.7	12.3
5	14.6	18.1	16	10.4	5.3	-2.1	-4.1	-0.1	-2.7	7.5	6.5	12.3
6	14	15.9	15.6	6.3	3.3	-2.6	0	-3.4	-3.7	7.5	11.1	12.1
7	13.8	14.5	13.8	2.2	2.7	-2.8	-2.4	-2.8	-2.6	14.1	8.6	11.3
8	10.7	13.1	14.4	5.6	1.3	2.5	4.5	-5	-2.6	12.7	6.1	12.3
9	8.2	16.4	15.2	3.4	4.2	-0.8	-1.2	-1	1.3	5.8	4.3	12.9
10	10.7	15.8	14.6	3.4	6.5	2.2	-6.7	-5.8	3.1	0.3	8.1	15
11	15	14.4	13.4	9.3	1.8	6.1	-8	-6.2	-1.5	1.5	12.7	13.6
12	15.1	11.2	10.4	7.8	1.9	1.4	-4.6	-6.1	0.2	3.9	12.3	13.1
13	16.5	10	10.1	8.1	3.7	-1.4	-4.3	-0.4	2.3	6.6	10.4	11.8
14	18	11.9	10.5	6.9	1.6	-0.4	-6.2	3.1	7.9	9.4	7.7	12.4
15	15	14.4	15	4.9	4.4	-0.6	1.1	4.6	7.6	9.5	10.1	12.3
16	15.5	16.2	8.9	3.9	6.3	-2.4	1	3.7	1.6	10.6	11.4	10.2

17	12.3	14.2	4.8	2.1	4.5	2.4	-3.8	1.9	-3.3	10.5	11.2	12.7
18	12.2	16.5	6.8	2.5	5.4	7.5	-0.4	3.4	-2.1	7.7	10.2	14.2
19	12.7	14.1	4.4	6.5	4.5	6.3	-1.8	4.2	4.4	8.5	9	14.2
20	15.3	14.5	7.2	5.6	4.2	5.3	-2.8	3.3	1.8	8	11.4	15.1
21	13.5	15.5	8.3	3.5	3.4	1.8	-2.4	8.2	0.6	10.8	12.2	14.9
22	16.8	13.3	9.8	-0.4	3.7	1.4	-3.1	4.7	-2.5	7.7	13.4	15.1
23	15.3	15.7	8.4	-1.9	2.7	-1.1	-3.7	9	-2.2	5.6	11.7	11.6
24	15.7	15.7	8.7	-1.5	0.4	-2.3	-2.7	10.4	1.6	5.9	11	6.5
25	14.3	14.7	11.8	-0.5	7.7	-3.3	-2.6	3.2	-0.5	6	13.2	6.6
26	15.6	13.2	9.5	2.5	2.6	-3.9	-2.4	-3.4	-0.9	6.1	11.6	8.7
27	15.5	13.3	7.8	0.8	2.5	-2.2	-2.1	-5.8	-1.2	10.1	15.4	12.4
28	16.9	9.7	10.2	9.1	4.5	-2.8	-4.3	-3.7	-1.2	11.5	14.3	14.2
29	13.1	9.9	10.8	5.3	3.3	-4.7	-5.3	-4.1	2.4	11.9	13.5	8.7
30	12.6	***	9.6	5.4	5.2	-6.4	-4.1	-2.9	6.4	9.7	11.9	6.3
31	12.4	***	7.6	***	1	***	-1.7	-1.4	***	9.1	***	10.1
Avg	14.2	14.2	10.8	4.8	4	0.1	-3	-0.2	0	7.5	10.4	11.9

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2009 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8.2	13.6	13.3	9	3.8	-1.1	-4.2	6.6	5	9.6	8.5	8.9
2	10.6	18.6	12.8	9.3	1.6	-2.6	-5.2	4.4	***	7.1	9.8	10.9
3	6.4	14.4	13.2	9.9	0	-3.1	-2.9	0	3.3	8.2	10	10.2
4	9.7	12.2	14.7	8.3	8.2	3.4	-2.1	0.1	-1.1	12.4	11.9	12.3
5	10.5	12.6	11	11.1	6.9	-0.7	-1.7	2.9	3.4	9.8	9.9	13
6	10.9	14	12.4	11.6	7.8	2.7	-2.6	-2.2	3.7	8.7	7.2	11.3
7	12.3	14.1	11	9	5.8	1.9	-3.1	0.7	5.1	8.2	9.5	16
8	16	15.2	10.8	9.1	6.4	3.5	-3.3	1.8	***	5.9	14.3	15.1

9	17.8	15.5	11.8	9.5	6.1	-0.7	-1.7	6.1	***	1.7	7.4	14.1
10	15	16.3	10.4	8.7	2.5	-1.9	-2.7	2.5	***	7.1	5	12.1
11	13.3	15.3	12.5	7.4	1.4	8.8	-2.8	2.1	0.7	10.6	5.6	11.8
12	15.8	12.2	11.8	4.2	2	6	0.4	2.2	-2.8	8	9.1	9.8
13	13.7	16.1	15.2	8.2	6.1	3	-2.7	1	0.6	4.3	8.5	11.9
14	14.9	15.5	13.5	3	5.4	1.7	-0.7	-2.1	1.3	7.2	4.2	8.8
15	13.3	10.9	11.2	2.6	7.7	-2.2	-3.5	-0.8	8.1	9	7.9	15
16	16.8	7.8	11.1	3.6	5.8	2	-6.3	-0.6	4.5	10.7	7.3	9.7
17	***	10.5	8.1	3.7	4.9	-1.9	-5.8	1.3	0.7	9.5	4.9	8.6
18	***	11.5	3.2	7.1	0.7	-0.5	-5.5	2.2	0.9	6.1	7.8	11.3
19	***	16.9	6.1	3.9	-1	0.5	-5.1	0	-3.5	6.7	7.9	10.8
20	17.6	17	6	6.7	-1.3	3.1	-5.6	-3.4	-0.9	4.7	5.9	12.6
21	16.8	17.1	4.5	6.7	0.7	6.5	-5.3	-4.7	-0.7	6.7	10.9	11.7
22	14.6	14.4	4.3	6.4	4.5	7.4	-2.1	-3.8	7.3	10.8	9	15.7
23	11.4	11.2	5.4	9.3	4	5.4	-2.7	-2.8	7.1	9.2	10.8	19.6
24	11.5	15.3	7.4	7.6	4.6	3.2	-2.6	1.7	6.8	9.8	13.7	13.6
25	11.7	16.6	9.2	10.6	1.7	-1.2	-6.6	0.3	7.2	11.8	13.9	10.9
26	18.3	16.1	9.9	5.9	-0.9	-2.7	-7.1	1.2	0.9	11.3	14	11.3
27	15.8	14.3	9.9	2.7	-1.6	-3.7	-5.1	3.2	3.5	13.7	10.6	12
28	14.6	14.7	12	3	-0.7	-4.3	-6.1	-2.4	6.2	11	7.8	8.9
29	13.8	***	8.5	5	-0.7	-4.4	-2.9	-0.1	4.8	9.1	10.4	12.3
30	13.1	***	10.4	7.9	-4	-5.9	2.5	8.1	7.1	6.1	12	11.2
31	15.8	***	9.8	***	-1.6	***	5.4	9.1	***	8.4	***	14.4
Avg	13.6=	14.3	10	7	2.8	0.7	-3.2	1.1	3.0=	8.5	9.2	12.1

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2010 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	18.1	13	11.8	13.4	5.9	-2.9	2.7	-1	2.9	11.7	9.6	11.2
2	16.5	11.9	15.5	11.5	4.7	-3.3	-1	-1.5	1.3	11.2	12.1	14.5
3	14.4	11.1	12.1	11.1	11.3	-4.1	-0.2	-1.8	1.2	7.6	12.7	13.6
4	13.9	13.4	13.2	12.7	7.4	-0.5	5.3	-2	-2.8	9.6	11.2	9
5	11.8	12.8	13.4	11.4	4.1	-3.8	1.9	-1.7	-2.3	11.8	9.1	10.8
6	17.6	13.6	14.2	10.9	1.6	-3.7	-0.3	2.7	-0.5	11.3	9.3	8.4
7	16.1	18.8	13.7	10.2	1.6	-1.5	5	-0.8	5.9	12.4	8.8	7.5
8	14.7	15.7	11.6	7.1	1.5	2.1	3.3	0.7	3.2	11.2	12	8.3
9	13.4	13.9	12.1	7.3	8.8	-3.7	0.1	-2.8	7.7	7.8	9.2	10.7
10	15.6	16.4	15.1	7.5	2.7	3.7	10.2	-5.5	3.4	5.7	8.9	13.5
11	14.9	17.6	18.3	4.6	3.2	6.6	0.3	-4.6	3.4	8.1	6.7	13.1
12	13.2	17.9	13.6	6.5	-0.2	5.7	-2.4	-5.3	1	7.1	7.9	11.1
13	17.1	17.3	15.4	6.7	0.9	3	-7.5	-4.2	3	7	6.1	10.5
14	16.3	14.6	13.5	6.9	8.5	1.1	-2.9	-4.2	5.8	7.9	11.7	14
15	15.1	15.8	9.1	8.6	8.6	-2.4	-0.7	-0.6	8.2	6.5	10.3	12.7
16	12.5	15.9	10.8	13	9.5	-6.5	-2.2	-3.3	6.5	3.8	13.3	14.5
17	11.7	13.9	12.1	10.6	5.7	-2.3	-6.2	-3.4	7.8	1.1	12.5	12.7
18	14.3	10.8	9.3	9.4	4.5	-6.2	-5.2	-1.1	15.1	5.7	12.7	11.8
19	16.2	12.8	8.8	8.5	4.7	-5.5	-5.3	2.1	12.7	9.8	10.9	14.2
20	14.4	13.1	11.3	5.7	2.8	-4.8	-5.5	-3.6	11.6	4.1	12.5	14.2
21	13.3	14.8	11.3	3	2.6	-4.8	-2.7	-2.5	5.4	5.6	14.7	13.9
22	16.6	16.1	13	5.8	1.1	-3.6	-3.9	3.9	3.1	11.2	12.3	13.1
23	15.8	17	9.6	2.2	0.2	-2.3	-0.9	-2.3	1.2	10.4	11.9	11.8
24	15.6	15.6	10.1	0.4	0.1	-5.4	4.9	-4.8	2	8.7	10.9	10.2
25	16.8	15.3	15.1	5	0.7	-5.3	-0.5	-0.9	8.8	2.4	11.9	12.5
26	17	14.6	16.4	3.5	2.7	-4.8	-2	2.2	11	3.8	13	12.8
27	15.1	12	8.1	5.4	2.9	-2.3	-0.5	-4.7	5.1	5	12.4	15.1
28	13.7	10.6	5.2	7.6	-1.3	-2.3	-1.3	-3	2.8	8	11.1	13.8
29	11.1	***	6.1	5	-3.1	1.8	0.2	-0.8	8.9	4.8	10.2	13.9
30	11.3	***	11.2	4.9	-3.2	4.5	-3.1	4.4	5	7.6	7.7	15.3
31	17	***	11.2	***	-1	***	-0.7	3.2	***	9.1	***	14.2

Avg	14.9	14.5	12	7.5	3.2	-1.8	-0.7	-1.5	4.9	7.7	10.8	12.4

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2011 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.7	12.6	11	15.7	-0.6	-6.2	-6.6	-5	3.2	4.1	5.8	14.3
2	16.8	13.4	10.4	12.6	1.4	-4.5	-7.7	-5.2	7.7	8.7	2.1	12.3
3	16	13	14.7	11.1	8.8	-5.3	-7.2	-2.7	0.5	4.8	3.5	11.2
4	16.3	14.1	12.9	7.4	6	-4.7	-4	-1	-0.8	0.7	11	7.5
5	15.3	17	13.5	6.9	5.2	-2.7	1.2	0.8	0.3	2.2	4.7	15
6	14	15.9	10.7	9.5	9.9	-5.1	0.8	0.5	-1	-1.6	1.9	13.4
7	12.8	14.1	12.2	8.9	5.3	6.2	0.6	-4	0	1.8	3.4	13.3
8	12.3	15	13.8	6.1	3.8	4.1	-2.9	-4.7	1.1	2.8	6.3	9.9
9	14.8	15.8	14.5	7.5	4.1	-0.9	-3.4	-4	5.1	4	8.5	9
10	13.7	17.2	13.9	9.2	8	5.3	-4.1	-1.8	1.5	5	11.2	10.4
11	13.3	16.9	14	7.2	8	2.7	-5.2	-5.3	3.3	7.2	9	10.2
12	13.6	15.1	13.6	11.7	6	3	-4.1	-4.4	7.1	7	11.4	8
13	13.3	15.4	13.9	11.5	6.8	-0.3	-4.4	-0.4	4.6	9.7	4	7.6
14	14.1	13.8	13.6	9.8	4.6	-1.9	-4.2	2.2	3.7	17.1	8.2	12.2
15	12.1	14.1	14.1	9.5	1.6	-1.1	-4.6	1.6	-0.7	8.7	5.9	6.9
16	15.8	13.4	13.7	9.2	4.2	5.2	-4.5	-2.4	-3.4	8.4	7.3	7.7
17	14	16.5	15.8	8	3.3	-0.8	-5.3	-3.7	-3.4	6.3	12.2	11.3
18	15.3	16.9	14.9	8.1	0	-4	-5.5	-3.1	2.1	8.2	13.1	10.1
19	16.2	15.5	13.3	6.4	-0.6	-1.4	-4.7	0.7	1.1	8	11.4	16.6
20	17.5	13	11.3	6.3	-0.7	-3.3	-5.3	-2.4	-3.2	5	13.8	15.2
21	15.2	13.2	10.6	3.3	-0.2	-4.7	-6	-1.2	2.5	3.1	9.8	14.8
22	17.3	12.9	10.7	0	0.4	-4.8	-5.2	6.5	2	7	7.9	13.4
23	15.6	10.2	12.5	2.4	4.8	1.3	-4.7	4.1	3.8	5.9	8.9	13.4

24	15.8	11.9	9.6	9.4	7.7	-0.8	-2.6	3.1	4.8	4.3	8.2	12.3
25	15.2	11.5	8.7	6.9	0.9	0.4	1	-0.9	4.7	8.7	6.6	13.2
26	11	11.2	11.2	4.6	-0.1	-2.4	0.5	0.1	7.5	3.7	7.6	14.6
27	13.3	12.3	11.2	1.1	-1.6	-5.6	-3.2	5.1	7.8	1.4	8.7	14.4
28	10.1	12.1	12.4	-3.1	-3.2	-4.9	0.2	2.1	5.3	10.7	8.9	12.6
29	11.6	***	13.3	-3.2	-3.5	-5.3	-1.7	2.5	10.3	14.1	6.3	10
30	16.6	***	13.1	-1.3	-3.3	-4.3	-4.8	4.4	5.4	9.4	15.6	9.2
31	15.1	***	13.9	***	-3.1	***	-4.7	4.8	***	5.3	***	13.6
Avg	14.5	14.1	12.7	6.8	2.7	-1.6	-3.6	-0.4	2.8	6.2	8.1	11.7

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2012 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.9	17.5	14.7	5.2	6.7	-2	-5	-2	-1.2	-0.5	5.5	13.6
2	13.1	15.5	14.4	3.8	2.7	-4	-2.1	-6.5	-5.7	1.4	2.9	12.4
3	9.7	15.5	11.7	4.9	6.8	1.6	-1.1	-3	-4	4.5	7.3	9.7
4	12	15.6	10.8	7.1	3.1	-1.8	-0.4	2.7	1.7	4.8	11.7	12.2
5	15.9	12.7	13.4	7.7	2.7	-1.3	-5.4	1.3	1.3	3.8	11.1	13.2
6	12.2	12.9	10	12	1.9	-1.8	3.9	-1.4	5.3	5.8	11.8	11.5
7	15.3	13.2	11.3	7.1	2.3	-4.6	2.9	0.9	4.4	11.1	12.5	11.9
8	16	17.7	16.3	5.5	5.8	3.4	-0.5	0.8	3.6	8	10	11.8
9	15.7	16.7	13.5	3.5	4.6	-0.7	-3.3	-3.5	2.9	10	7.6	13.7
10	15	16.3	12	0.7	4.4	-3.3	-3.4	-3.7	1	4.4	7.6	13.3
11	15.9	10.4	13.1	0.7	2.5	-7.2	-3.5	2.2	-1.1	6.2	9.2	12.3
12	15.8	6.9	8.5	1.1	4.2	-5.5	-4.1	-1.6	0.2	5.1	15.1	12.8
13	17.2	8.9	7	1.3	4.2	-6.8	-4.3	-5.7	9.2	3.5	13.1	13.5
14	14.7	8.6	8.7	2.7	4.6	-4.8	1.4	-2.2	7.4	7.5	10.9	13.3
15	14.8	13.2	9.6	6.2	4	-2.7	1.1	7.6	5.1	13.4	13.1	12.9

16	13.6	12.3	11.7	7	-0.4	-3.3	-1	-1.8	1	13	14	10.9
17	13.9	12.8	8.6	10.7	-1.5	-3	-2.1	-6.2	2.5	8.7	11.8	10
18	15.8	13.9	4.8	7.3	-1	4.1	-3.1	0.3	8.7	8.1	10.5	10.9
19	15.1	13.8	4.6	3.1	-1.7	1.3	-3.1	6.2	1.6	6.3	12.8	11.6
20	15	15.4	6.7	2.4	-4.6	-1.3	-2.5	8.7	-0.2	6.9	12.2	13.6
21	16.8	15.7	7.9	5.4	-5.3	3.5	-1.7	4.1	13.4	6.3	11.8	12.8
22	16.6	12.8	10	9.5	-5.4	8.5	-2.8	3.1	5.1	5.2	8.5	15.4
23	13.7	10.3	13.6	4.5	-0.9	4.9	-5.5	-0.4	-0.5	7.2	11.4	12.2
24	14.6	8.1	14.4	1.4	0.1	4.5	-5.2	-0.4	3.5	6.3	10.6	17.3
25	11.6	11.7	13.3	5.1	-0.3	2.8	-5.5	6.6	1.5	11.8	5.7	14.6
26	10	14	11.8	10.7	5.2	-0.1	-5.4	-1.2	3.6	7.3	1.8	13.7
27	13.6	13	12.6	3.7	0.6	-1.4	-2.4	-4.1	11.9	8.8	9.1	14.7
28	10.8	15.2	14.3	1.2	0	-5.1	-1.1	3.3	4.7	7.9	8	16.1
29	12.5	15.8	14	0.9	2.7	-2.6	-3.2	7.7	0.4	9.7	11.9	13.9
30	13.1	***	11.1	3.6	1.3	-4.4	-6.5	6.1	-1.9	8.7	13	12.9
31	15.5	***	7.7	***	0.8	***	-6.1	8.6	***	6.8	***	16.8
Avg	14.1	13.3	11	4.9	1.6	-1.1	-2.6	0.9	2.8	7	10.1	13.1

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2013 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.8	13.4	11.8	13.4	2.9	3.6	5.4	-4.6	-5.3	2.7	4.4	11.2
2	13.1	12.2	8.5	9.8	3.4	7.2	0.5	-4	-6.3	3.7	8.2	13.7
3	14.7	14	10.3	7.6	2.3	-2.3	-3.9	-4.3	-2.5	2.6	5	14.2
4	10.7	12.3	11.4	2.8	3.5	-5.7	5.2	-3.9	0.8	4.5	4.3	10.6
5	9.5	9.9	12.3	2.4	-1.9	-7.6	0.5	-3.9	-2.5	5.7	6.7	11.2
6	14.7	11.9	15.3	3.5	-3.2	-7.6	1.6	-4.2	-3	5.6	14.1	9.6
7	13.9	11.5	17.1	4.3	-2.6	-4.4	0.5	2.9	-3	6.4	10.7	8.5

8	15.1	11.6	15.4	4.7	-0.7	3.8	-0.3	-1.6	11.5	3.6	2.9	13.3
9	16.2	14.2	11.2	4.3	5.6	-2.3	-1.3	-2.3	3.4	4.7	9.3	14.6
10	12.7	15	8.2	5.1	0.5	-8.6	4.2	-3.6	1.6	6.6	10.3	12.9
11	9.9	13.2	10.2	3.1	0.8	-8.8	1.3	-7.8	8.1	8.4	8.8	11.6
12	11.6	13.4	11.6	4.5	-1.4	-4.9	-2.1	1.1	7.3	8.3	7.8	10.2
13	13.3	15.3	15.4	6.9	-2.2	-3.3	-2.9	-2.9	4.1	4.1	11.3	9.7
14	14.9	14.8	11.4	7.5	-0.8	-5.3	-1	0.9	-3.9	0.8	10.2	12
15	15.9	14.2	11.3	5.7	1.3	-4.5	-3	-5.9	-3	2.3	16.1	13.3
16	16	12	12.7	6.8	3.2	-6.2	-0.8	2.7	-0.9	3.5	13.7	12.7
17	14.6	14.1	12.2	9.5	5.6	-8.1	-2.3	5.5	-1	9.1	7.8	11.3
18	16.6	15.6	8.5	7	2.8	-7.1	2.1	-2.1	0.9	7.5	11.5	10.3
19	15.1	13	9.3	6	0.8	-2.4	-1.2	-7.4	1.1	7	10.3	10.5
20	14.3	11	7.1	7.6	2.4	-2.6	-4.4	-6.8	6.2	9.3	14.4	12.2
21	13.6	7.1	6.3	5.5	1.3	-3.7	-5.2	-0.7	-2.2	8.4	11.4	15.5
22	14	7	9.2	0.8	1.5	-2.3	-6.2	-1.1	-3.3	5.4	10.8	16
23	10.4	9.5	12	3.1	0.7	-4.6	0.3	-7.4	4	4.1	10.1	17
24	13.7	11.4	10.2	3	5.5	-1.7	-1.6	-3.9	-1.5	6.8	12.4	14.6
25	16.3	11.3	14.3	2.9	1.4	***	-3.9	-0.9	8.2	9.9	12.8	16.5
26	13.3	13.8	12.1	2.8	3.1	***	-4.7	6.7	4.4	7.3	14.5	16.8
27	***	15.2	14.1	3.1	3.8	-0.9	-1.7	6.5	13.3	9.4	10.3	13.8
28	14.1	14.1	13.2	3.3	-1.8	-5.3	-1.8	3.7	2.6	9.8	10	16.7
29	14.1	***	14.3	5.4	-6.2	-7.1	-7.5	6.6	-1.2	7	7.9	13.8
30	14.6	***	12.7	2.2	-0.5	-1.1	-8.1	0.2	0.8	10.7	12.3	11.5
31	14.3	***	13.1	***	-2.7	***	-7.6	-1.2	***	9.5	***	14.6
Avg	13.8=	12.6	11.7	5.2	0.9	-3.7=	-1.6	-1.4	1.3	6.3	10	12.9

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2014 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

1	16.5	14.7	14.6	11	1.5	3.5	0	-1	-0.6	7.6	12.5	11.3
2	15.5	16.1	14.8	8.5	1.3	-0.8	0	-0.4	-1.3	5.4	13.1	13.2
3	15.9	13.8	15.8	4.4	2	-4.1	-2.3	0.5	-1.2	4.5	12.1	13.5
4	16.4	15.8	14.5	3.5	2.7	-0.7	-1.9	2.1	0	3.3	8.7	10.9
5	15.9	16.6	12.6	5.5	4.7	-4.7	-2.7	-0.8	-0.9	1.9	7.9	13.1
6	17	16.6	15.5	4.1	1	-7.8	-7.7	-5	0.2	3.8	8.9	11.6
7	18.3	14.5	12.4	5	4.4	-7.2	-9.2	-2.7	0.6	6.4	12	12.9
8	17.5	17.1	14.7	7.7	5.7	-6.4	-8.8	8	1	8.9	9	15.6
9	15	14.7	14	6.1	4.4	-3.1	-10.3	7.4	1.4	7.2	13.1	14
10	12	15.1	10.7	5.1	0.7	-4.3	-8.6	3	3.1	6.5	12.1	13.5
11	12.9	***	13.3	4.6	1.3	-9.5	-9	6.3	2.2	6.1	12.5	11.7
12	12.3	***	9.6	4.7	-2.1	-7.9	-2	2	4.6	9.8	12.6	12.3
13	13.8	***	6.3	5.3	0.8	-6.5	-7.7	3.1	1.7	9.3	10.2	12.4
14	10.4	***	9.4	9.2	1.1	-6.2	-8.3	3.5	4.2	5.3	7.2	13.3
15	12.7	***	13.9	8.6	-0.3	4.9	-7.9	2.4	14.5	12.8	6.5	13
16	16.7	***	11.7	7.5	-0.2	-1.6	-6.3	2.3	14.6	8.8	3.8	12.2
17	16.8	***	13.1	3.7	-1	-5	4.4	1.8	13.2	5	3.5	9.4
18	16.7	18.8	11.9	3.9	0.2	-0.7	0.2	3.8	5.1	3.2	6.2	9.9
19	13.5	17.1	9.3	6.3	0.8	-4	-2.5	7.5	-0.1	3.5	7.3	15.1
20	13.4	***	7.8	9.1	4.3	-8.2	-6.9	7.7	0.2	8.2	9.7	11.2
21	15.8	***	7.8	8.1	3.7	-6.4	-7.8	4	0.5	8.5	8.6	9.6
22	11.5	***	11.7	6.5	0.1	-6.8	-6.2	-0.7	2.9	8.8	10.7	12.3
23	16.4	***	12.2	8.4	5.9	-5.4	-3.9	-5.9	10.4	10.2	10.3	12.7
24	16.6	***	11.8	5.7	5	-4.6	-4.7	-2.6	6.4	12.7	10.5	13.6
25	15.4	***	12.7	2.5	6.2	-2.3	-1	-4.2	2	11.9	12.1	9.5
26	12.4	***	8.9	2.1	2.3	1.8	0.1	-4.4	3.7	10.1	11.5	13.5
27	14.1	14.4	6.1	3	0.7	-3.4	-4.4	-0.8	6.9	12.5	12.1	15.4
28	16.1	12.2	7.4	-0.9	2.9	-7.6	-4.7	-2.3	6.2	14.8	10.2	13.8
29	18.6	***	7.3	1.1	1.4	-4.6	-3.7	-1.8	4.2	15.1	10.6	13.4
30	16.5	***	6	1.2	1.4	-0.6	-3	-1.3	-0.3	11.5	11.6	16.6

31	14.6	***	6.2	***	-1.8	***	-2.5	3	***	10.7	***	14.4
Avg	15.1	15.5=	11.1	5.4	2	-4	-4.5	1.1	3.5	8.2	9.9	12.7

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2015 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12	8.4	11	10.3	-0.3	6	-3.5	-5.9	5.8	8.1	10.3	11.9
2	14.3	6.5	10.8	12.1	1.4	6.2	-4.4	-5.2	0.8	5.4	3.9	17.9
3	14.9	10.2	7.5	15.4	-0.3	7.3	-2.7	-4.9	3.7	3.5	1.9	15.6
4	14.6	11.2	9.6	14.7	-0.5	1	-1.7	-1.2	2.4	3	5.7	14.3
5	15.4	12.1	14.2	8.9	-0.6	-1.7	3.1	-3.7	2.1	9	8.1	17.2
6	15.4	12.3	11.2	8.5	2.7	-4.6	3.3	-4.7	***	6.2	6.4	14.3
7	16.3	11.7	14.3	8.5	4.2	-2.2	1.2	-4.1	4	3.7	12.3	17.4
8	16.5	10.3	12.6	8	0.4	-5.2	2.2	-4.1	5.5	10.9	7.9	19.5
9	14.7	11.1	11.9	5.9	1.8	-4	2.3	-2.6	0.4	15.1	12.3	12.1
10	13.8	16.1	11.9	5.5	8.7	-2.8	1.8	1.1	0.4	9.8	13.6	13
11	14.4	14	14.5	5.8	3.8	-1	3.1	-4.7	5.7	4.1	10	17.1
12	16.4	14.6	12.3	6.3	5.8	-0.6	7.8	-5.4	2.4	4.5	11.2	16.1
13	16.3	15	12	5.2	0.9	-3.1	-2.3	1	6.2	14.6	10.5	13.3
14	15.1	12.5	13.3	7.6	0.2	-1.6	-2.8	-3	3.3	11.1	10.8	11.3
15	14.6	10.6	15.3	5.8	-0.4	-2.2	1.9	-2.7	9.5	9.3	8.2	6.7
16	11.7	8.4	12.1	1.2	-0.7	-1.8	3.8	2.6	7.2	7.1	7.2	10.2
17	7.6	8.1	12.1	-0.9	3.9	1.7	0.4	1.7	7.2	5.8	12.6	11.6
18	9	13.7	9.2	3.5	1.8	-1.3	0	3	4.8	8.5	10.9	14.6
19	12.5	12.2	14.8	0.4	3.5	-4.5	-3.1	6.3	3.8	16.3	8.4	15.8
20	10.5	11.1	10.1	-1.4	2.6	-4.3	-2.6	7.3	2.9	15.4	12.3	16.7
21	12.3	11.8	9.1	-0.4	1.5	-3.1	6.8	1.4	13.1	10.5	6.2	15.2
22	13.5	9.6	12	1.5	2.7	-3.3	6.7	1.1	6.1	12.2	4.8	13

23	14.5	9.3	15.6	7.6	2.7	-2.7	2.9	7.1	4.6	10.9	5.9	12.8
24	15.5	12.9	13.6	6.2	2.6	-0.7	1.5	4.7	5.6	15.3	12.3	11.8
25	17.2	11.3	11.7	4.8	4.7	-4.3	0.5	7.4	7.1	11.2	15.1	14.9
26	16.7	12.4	12	3.5	-0.6	2.5	-1.3	11.2	12.5	13.5	10.3	13.9
27	16.4	12.1	8.8	3	-0.7	0.4	-4.1	7.9	11.3	10.9	8.1	13.8
28	14.5	12.8	9.9	0.2	1	0.7	-2.5	8.1	9.6	10.7	6.1	15.4
29	12	***	7.9	2.1	-1.5	0.5	0.2	3.8	4.9	5.9	12.4	18.1
30	12.2	***	9.1	-0.1	0.8	-2.9	-2.5	8.6	9.3	8.7	12.9	15.9
31	14.4	***	10.7	***	-0.1	***	-3	12.9	***	15.1	***	14.6
Avg	14	11.5	11.6	5.3	1.7	-1.1	0.4	1.5	5.6=	9.6	9.3	14.4

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2016 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17	16.4	14.3	8.5	-1.9	1	3.8	0.3	5.2	2.3	12.7	13.9
2	16.8	16.3	14.8	2.8	-1.1	-0.2	-2	-0.9	4.2	5.1	11.6	11
3	15.9	17.5	14.1	6.7	-0.6	-0.2	-6	0.2	3.8	***	13.5	10.2
4	18.7	13.7	14.5	5.8	1.5	2.2	-3.7	-2.9	5.3	***	17.1	17.6
5	19.1	11.3	15.5	10.1	-2.3	3.4	4.4	-3.5	2.6	***	14.5	16
6	19.5	11.7	15.5	8.4	-1.7	-1	0.6	-3.5	13.4	***	12.3	13.6
7	13.9	14.8	16.7	6.5	8.3	-1.5	-3.4	-2	8.2	***	10	16.5
8	11.9	14.1	14.8	8.9	8.7	-1.5	-6.4	-0.4	3	***	14.4	15.4
9	11.1	10.8	14.5	7.6	7.1	0.2	-4.5	-5.2	4.6	***	15.2	14.5
10	14.5	12.6	15.4	7.9	7.1	5.1	-3.6	-3.6	5.5	***	12	13.2
11	14.6	12.6	14.1	8.2	3.1	2.1	-4.1	-2.9	8.8	***	11.5	11
12	12.8	13.9	11.8	9.8	1.7	-1.8	-4.1	-2.1	***	***	11	15.6
13	14.7	20.5	12.8	9.7	9.7	6	-2.4	1.9	7.1	***	8.6	13.7
14	12.7	16.6	13.4	8.5	6.6	9.2	-2	-0.1	6.9	***	5.6	12.6

15	12	16.9	12.9	8	5.1	9.5	-2.9	-2.9	2.6	***	7.1	10.8
16	13.8	15.9	14.9	7.5	4.4	1	-1.6	8	6.1	***	13.2	15.3
17	15.8	14.5	14.1	9.1	3.9	-2.1	-0.3	7.3	0.5	8	11.4	14
18	13.2	15.7	10.7	11.9	5.5	-1.4	-1.5	7	3.7	4.9	8.2	15.9
19	16.7	13.5	7.1	13	8.7	-0.1	-2.1	7.3	0	8.6	6.4	16.4
20	15	14.8	9.7	11.6	6.5	-1.6	-1.2	3.5	2.6	13	9.1	16.8
21	17	12.2	7.8	10.1	4.2	-2.9	-1.4	1.2	4.1	11.4	12.1	14.5
22	17.9	13.2	6.5	7.3	3.6	-3.7	-4.6	1.2	3.2	10.7	13.9	11.6
23	17.9	12	7.7	5.5	4	-2.2	-2.6	-1.9	4.7	11.2	16.2	12.5
24	***	15.3	9.8	2.9	5.7	-2.6	-1.6	-0.8	2.4	7.8	15.4	12.3
25	14	17.6	13.8	4.7	5.7	-1.6	2.6	-0.9	1.9	11.1	12.9	9.2
26	12.7	15.1	12.3	5.2	2.7	-2.2	0.4	2	3.3	11.4	10.5	17.4
27	11.8	10.6	10.6	4	1.4	-0.3	-2.6	2.7	9.7	9.2	13.8	15.5
28	13.8	8.6	6.7	***	0.7	-2.7	2.4	3.3	1.1	12.9	16.3	14.7
29	14.7	13.5	3.5	***	0	-2.7	5	2.4	-2.8	13.7	14	13.2
30	16.5	***	8.2	2	-1.1	-2.5	3.2	2.8	-0.6	12.4	13.3	13.2
31	15.5	***	7.5	***	-0.5	***	0.3	3.5	***	8.8	***	14.8
Avg	15.0=	14.2	11.8	7.6=	3.4	0.2	-1.4	0.7	4.2=	9.6=	12.1	14

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2017 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.1	13.2	15.6	13.2	4.7	-2.2	3.4	10.3	3.6	12.3	12.6	13.5
2	18.6	15.5	14.8	8.8	4.9	-0.2	2.9	2.9	-0.6	8.3	15.8	14.4
3	14.1	13.5	14.3	10.3	5.1	-1.5	3.3	-0.7	-1	11.4	11.9	12.1
4	13.7	16.7	13.3	11	11.1	-0.1	-1.1	0.4	-1.4	8.6	9.9	11
5	16.4	***	12.9	12.5	7.4	-2.4	-2.8	5.1	6.3	7.5	12.5	12.2
6	15.8	14	12.3	12.9	5.2	-3.1	-3.5	-1.7	5.5	5	10.9	11.8

7	14.5	15.9	11.3	12.4	5	8.6	-3.8	-5.2	4.5	7.8	4.7	10.1
8	12.5	14.4	11.2	13.3	4.2	-4.3	-1	-5.5	0.5	7.1	5.5	10.7
9	15.7	18	11.5	9.5	4.8	-7.9	6.2	-2.4	1.3	5.1	6.6	11
10	14	17.1	8	11.6	3.2	-1.4	-1	9.4	7.5	4.5	8.1	10.3
11	16.5	15.4	6.7	14.4	7.2	3.7	-2.7	3.7	1.8	0.9	7.2	8.2
12	16.6	17	10.6	12.8	***	-1.1	-3.2	-1.5	4.6	4.8	8.5	9.2
13	15.7	16.5	12.9	11.1	6	-2.1	-3.4	1.5	10.7	6.3	14.7	9.2
14	12.9	14.4	15.1	4.8	3.5	-3.1	-5.6	-3.2	5.4	6.4	12.5	10.2
15	15.4	17.5	13	2	0.5	-0.2	-1.3	-1.6	9.5	6	3.6	6.8
16	11.5	16.2	6.9	4.8	3.2	-5.1	-3.4	-4.5	8.1	4.6	3.6	10
17	8.8	16	6	5.9	-0.8	-5.3	-7.4	1.4	6.9	3.9	2.3	16.3
18	10.6	16.5	8.1	6.5	-0.3	-2.7	-7.9	-0.5	5.3	0.6	3.3	12.1
19	14.8	14.6	12.7	3.2	-0.4	2.4	-7.2	-3.8	3.8	5.7	4	11.1
20	13.3	12.6	8.1	0.5	-0.9	3	-6.9	-4.3	7.3	6.1	7	9.6
21	12.3	12.5	9.3	5.2	-0.6	-5.3	-6.2	-1.8	6.9	8.3	17.2	10.8
22	15.5	11.6	10.7	0.5	-1.4	-4.7	-7.1	1.5	12.5	***	11.3	15
23	16.7	11.4	12.4	0.9	-1.6	-4.4	-7.2	-4.3	6.6	12.4	7.6	14.3
24	15.8	13.8	10.6	3.9	0.5	-8.7	-6.7	-3.3	2.7	10	8.2	13.6
25	14.2	12.1	7.7	1.7	-0.6	-6.6	-3.5	-3.7	11.8	7	8.7	12.6
26	10.5	11.3	4.3	1.3	1.2	-6.3	-4.5	-6.1	1	8.1	8.5	9.7
27	15	7.5	5.1	8.4	-0.6	1.9	-8.3	-1	-3.9	4.5	8.6	9.9
28	11.3	12.5	4	5.3	-2.8	2	-6.2	-0.4	3.6	2.9	5.3	12.9
29	9	***	9.6	3.5	-0.6	-1.9	-3.2	8.9	12	8.7	11.9	13.1
30	11	***	5.2	2.5	-3.3	-2.8	-2.9	0.7	6.5	9.5	10.6	14.1
31	13.7	***	10	***	-2.1	***	-1.9	-3.3	***	10.8	***	11.9
Avg	14	14.4=	10.1	7.2	2.1=	-2.1	-3.4	-0.4	5	6.8=	8.8	11.5

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2018 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.1	10.2	15.4	11.1	***	1.2	-3.3	-2.2	4.6	9.7	5.8	15.1
2	9.3	12.9	12.7	11.1	***	-3.1	0.4	-3.5	7	8.5	5	10.4
3	12.2	12.5	13	12.1	***	-4.2	-5	-1.1	3.1	5	3.6	10.1
4	11.8	13.2	12.3	14.1	0.9	0.9	-7.7	1	-0.8	0.8	11.2	11.7
5	15	13.5	14.7	13	-0.4	-2.6	-6.7	-3.9	1.4	1.2	5.2	10.6
6	15	14.9	13.8	10.8	0.5	-3.6	-6.7	-5.8	7.8	2.1	7.2	14.1
7	13.8	14.9	14.1	9.3	2.1	-3.6	-6.6	-3.5	0.9	5.3	4	15
8	15.5	13.3	***	10.4	2.2	-2.7	-4.5	-7.5	-2.6	6.2	1.7	***
9	12	15	8	10.8	1.8	-2.1	-2.6	3.1	-1.1	7.9	6.6	11
10	10.9	16.7	***	10.5	-0.7	-2.9	4	-1.3	-3	8.7	5.4	9.7
11	13.7	15.5	12.1	8.2	2.8	-4.4	0.1	-5.1	-2.7	10	9.5	6.9
12	14.8	15.2	10.5	8.5	4.3	-3.7	2.9	-4.6	-1	9.5	11.7	9.7
13	15	15.6	11	11.8	2.4	-1.2	8.4	-1.8	-2.5	6.4	14.9	13
14	17.2	13.7	13.4	10.5	6.8	-0.6	2.6	4.2	-2.1	7.7	17.2	13.4
15	16.1	13.5	12	7.5	4.9	5.7	-0.6	-0.1	-0.9	6	11.4	18
16	14	15	11.9	7.5	-0.3	-1.1	-4.1	-1.4	0.3	9.8	13	14.1
17	13.8	14.6	11	11.2	-2.3	-4.4	-2.7	-4.1	-1.6	7.3	13.2	19.7
18	14.4	15.6	14.4	12.5	0.8	-1.9	-4.1	0.2	2.7	4.1	11.8	16.4
19	14.7	16.5	13.4	8.6	0.3	-2.3	-4.5	-0.9	-0.3	6.6	12.1	15.4
20	14.6	15.2	10.7	6.9	6.4	-2.8	-4.5	1.5	2.8	5.2	15.3	13.3
21	16	16.8	10.1	4.8	4.9	-3.1	-3.9	2.7	1.3	2.7	8.6	11.7
22	14	14.3	12.4	4.1	1.9	-4	-3.9	3.7	0.6	2.6	4.5	13.5
23	11.2	***	11.7	4.8	1.1	-4.9	-3	0	9.7	4.6	6	15.6
24	11.3	14.1	10.9	6.7	1.2	-4.9	-1.5	0.7	9.9	5.3	8.9	19.7
25	13.2	9.5	12.4	6.2	0.3	-6.1	-2.7	3	11.1	7.1	15.2	16.4
26	13.1	6.7	7.8	4.9	-0.2	-4.2	-3	0.6	4.1	8.1	15.7	17
27	13.4	11.5	6.1	***	-1.8	-2.2	-1.9	-4.7	0.7	11.1	13.9	15.2
28	13.1	12.9	8.5	***	0.2	-3.6	-1.6	-3.8	0.5	10	8.8	11.5
29	10.5	***	10	***	1.8	-0.2	-0.9	-2.4	-1.9	11.5	6.7	12.3

30	13.9	***	13.9	***	-1.7	0.2	-4.3	0.3	2.1	10	12.1	16.8
31	11.6	***	12.9	***	-0.8	***	-4.1	2	***	6.3	***	15.5
Avg	13.5	13.8=	11.8=	9.2=	1.4=	-2.4	-2.5	-1.1	1.7	6.7	9.5	13.8=

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2019 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.1	14.2	9.7	11.3	6.9	3.3	4.7	-4.5	-3.7	5	7	16.2
2	13.1	13.1	11.2	7.7	7.5	0.2	0	0.3	-1.4	2.4	13.3	13.9
3	12.1	13.6	13.3	8.3	7.6	-1.2	-3.9	1.5	-2	7.2	6.8	9.5
4	17.3	11	12.9	11.7	6.3	0.3	-4.4	-2.8	-1.7	7.6	11	7.4
5	15.9	13	15	10.7	7.1	4.4	-4	1	6.9	1.4	10.4	9.1
6	12.3	12.7	15.1	10	7.9	0.1	-4.9	-4.4	4.4	4.7	14.7	15.6
7	14.5	14.8	15.7	8.8	7.1	-3.1	1.5	-5.8	2.3	11.3	11.7	13.9
8	16.6	16.8	14.8	9.5	6.1	-2.7	-2.2	-1.4	2.1	5.7	8.4	14.5
9	13.8	17.7	11.7	7.8	2.6	-2.3	-3.2	-4.5	2.1	5.6	8.6	12.8
10	13.9	17.3	13.7	9.8	1.4	3.2	-3.3	-5.9	2.5	6.6	15.5	12.8
11	13	14.2	12.8	10.3	1.9	-0.9	-3.4	7.1	1.2	2.2	11.9	12.2
12	10.2	12.3	13.3	10.5	2.6	0.3	-3.1	-2.9	2.6	10	13.4	10.8
13	12.2	14.5	14.8	8.9	3.9	-1.6	-3.2	-4.4	3.5	10.7	10.8	12.7
14	13.7	14.2	13.8	8.8	4.7	-6.1	-3.6	-4	-1.2	6.3	11.4	13.5
15	15.8	15.6	12.1	6.2	5	-5.5	-2.7	-3.5	1.1	12.6	10.2	10.6
16	16	13.9	15	2.9	7	-6.4	-2.9	-1.9	3.2	7.7	12.6	7.7
17	14.6	13	13.3	3.3	5.1	-4.4	-2.8	1.5	3	9.5	12.5	8
18	14.9	11.6	14.9	4	7.1	-3.1	-2.5	1.1	4.8	14.6	9	17.5
19	12.5	12.9	13	7.2	4.7	-3.2	-1.3	4.9	7.9	16.6	9.1	10.8
20	8.6	13.6	11.9	12.9	5.4	-3.8	0.6	1.4	11.9	11.8	8.7	10
21	10.4	14.7	12.9	10.1	2.5	-5.1	-6.3	-0.6	9.4	9.4	10.7	12.4

22	14.7	14.8	10.7	10.3	-0.9	-0.7	-4.4	-0.5	6.1	7.1	12.8	17.1
23	13.9	13	13.9	10.8	1.5	-4.2	6.8	-1.2	1.8	6.1	9.4	15.3
24	14.2	12.6	11.7	9.3	1.3	-4.7	0.4	-0.1	5.1	4.9	13.3	17.5
25	12.5	11.8	10.7	6.8	3.4	-5	-4.9	-0.3	3	7.3	11.8	17.5
26	13.2	8.7	12.2	5.2	2.9	-3.5	-4.8	-0.8	-1.2	11	8.8	17.8
27	11.6	11.3	10	5.2	2.9	9.1	-4.9	-0.9	1	6.8	10.4	13
28	12.6	9.1	***	5.2	3.6	4.7	-2.8	1.6	2.3	8	12.8	11.6
29	16.7	***	***	4.8	1.9	-1.2	-2.6	-1.8	3.9	2.7	20.4	13.8
30	14.7	***	***	5.5	0.3	-0.3	-1.1	-3.2	5.9	-0.2	16.6	13.5
31	14	***	***	***	1.3	***	-4.4	0	***	5.9	***	15.4
Avg	13.8	13.4	13.0=	8.1	4.1	-1.4	-2.4	-1.1	2.9	7.4	11.5	13

Daily Minimum Temperature (C) Data for station [0175678A0] - ALIWAL-NORTH PLAATKOP -30.8020 26.8830 1350 m 2020 08:00 (Extracted 2023/06/29 10:1

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14	16.2	13.8	10.9	2.3	-2.9	---	---	---	---	---	---
2	15	17.5	12.8	8.1	2	-3.5	---	---	---	---	---	---
3	16	15.5	10.8	12.8	2.9	-3	---	---	---	---	---	---
4	16	13.6	11	11.6	4.3	-2.8	---	---	---	---	---	---
5	14.4	14.6	11.9	9.7	1.5	-2.4	---	---	---	---	---	---
6	14.3	16.4	11.2	9	1.6	-2.2	---	---	---	---	---	---
7	17.1	14.5	12.1	5.3	2.2	-2.5	---	---	---	---	---	---
8	16.3	14.8	13.1	1	3.8	-3	---	---	---	---	---	---
9	15.1	14	12.7	7.1	1.8	-3.5	---	---	---	---	---	---
10	15	14	12.7	9.9	1	6.7	---	---	---	---	---	---
11	15.5	12	10.2	9.1	0.4	1.8	---	---	---	---	---	---
12	15.2	11.9	12.6	11.3	1	-4.1	---	---	---	---	---	---
13	14.3	10.4	11	7.9	2.3	-7.6	---	---	---	---	---	---

14	14.6	13	11.1	8.1	0	-8.6	---	---	---	---	---	---
15	14.2	13.4	10.9	6.3	-0.8	-8.4	---	---	---	---	---	---
16	14	16.5	12.3	5.2	-0.9	-3.5	---	---	---	---	---	---
17	14.4	16.4	11.1	3	-2.9	-6	---	---	---	---	---	---
18	16.8	13.8	9.7	3.2	-1.7	-5.4	---	---	---	---	---	---
19	15.7	12.7	11.5	6.1	2.2	-4.6	---	---	---	---	---	---
20	14.6	16.2	11.3	8.9	0.4	-5.1	---	---	---	---	---	---
21	14.6	14.1	10.2	11.5	0.4	-4.1	---	---	---	---	---	---
22	13.5	14.1	10.2	10.2	0.5	-4.8	---	---	---	---	---	---
23	13.8	10.4	13.5	8.3	1.2	-5.5	---	---	---	---	---	---
24	13	6.7	13.9	10.3	-0.1	-6	---	---	---	---	---	---
25	13.7	8.6	10.6	8.9	9.3	-6.5	---	---	---	---	---	---
26	12.7	11.8	8.6	8	1	-3.9	---	---	---	---	---	---
27	8.2	14.6	5.6	7.7	-3.5	-2.7	---	---	---	---	---	---
28	7	11.4	5.6	8.2	-4.8	-1.9	---	---	---	---	---	---
29	8.5	10.7	7.3	4.9	***	-5.8	---	---	---	---	---	---
30	14.9	***	8.7	4.6	-1.5	-2.8	---	---	---	---	---	---
31	15.1	***	13.3	***	-2.7	***	---	---	---	---	---	---
Avg	14.1	13.4	11	7.9	0.8=	-3.8						

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2007 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	***	10.6	12.4	7.7	1.1	5.3	-3.9	1.8	4	9.6	9.4	7.4
2	***	9.5	10.3	8.5	6.7	2	-6.6	5.9	4.6	9.7	6.4	10.1
3	***	11.7	14.4	9.2	4.3	-0.3	-5.6	3.3	4.6	7.4	10	7.4
4	***	10.9	10	6.6	4.1	5.9	-5.4	-4.4	10.7	5	10.8	5.1
5	***	11.5	5.5	7.7	3.5	6.4	-4.5	-7.8	9.3	3.7	8	9

6	***	9	3.7	9.8	4.7	3	-1	8.1	4.4	8.2	6.7	8
7	***	9	2.8	8.9	3.3	1	-3	-2.8	0.8	7.1	4.1	8.5
8	***	13.2	5.4	8.7	2.7	-1.9	-4.2	-5.2	7.1	3.3	5	9.1
9	***	13.4	7.6	8.1	1.3	***	-7.5	1.8	3.4	2.7	5.1	9.5
10	***	13.7	7.6	5.3	2.8	3.6	-6.6	7.4	2.1	2.2	5.6	10.5
11	***	5.3	9.5	10.5	0.9	-1.4	3.1	4.4	7.4	3.4	2.8	13.9
12	***	4.2	6.6	3.5	2.8	-2.9	0.4	-2.9	14.8	10.2	8.3	13
13	***	2.5	8.5	1.6	1.2	-5.2	-5.8	9.3	4.3	7.2	5.6	11
14	***	4.1	8.3	7.4	6.3	-5.3	-4.1	5	-0.4	8.1	9.4	9.5
15	***	5.7	8.3	6.7	2.4	-1.2	-4.2	0.3	10.8	7.5	7.9	10.4
16	***	9.3	6.8	8.8	-1.6	-4.9	-2.5	-1	4	4.1	7.3	14.4
17	***	6.1	4	7	0.7	-4.5	-1.7	-3.8	1	10.2	6.4	11.6
18	***	11.9	2.6	9.3	-0.4	-1.8	-1.2	-3.9	3.1	6.9	5.7	6.1
19	***	15.1	2.1	7.3	11.3	-6.8	-2.4	1.7	6.1	5.1	10.7	4.9
20	***	14.5	1.1	6.6	-1.4	-1.3	-1	5.7	8.5	-0.6	11.7	9.4
21	***	12.5	4.4	9	-4.2	-3.4	3.3	9.4	8	8.3	12.9	12
22	***	11.5	7.4	6.6	-3.7	-1.4	4.7	7.7	11.5	10.6	10.4	10.6
23	***	9.6	7.4	3.7	-5	3.4	4.3	5.1	4	8.1	5.1	13.5
24	***	12.4	4.1	3.4	-7.7	5.2	6.6	0.9	***	4.1	5.7	14.4
25	***	13	3.3	3.7	-6.2	7.4	2.3	-1.8	2.5	1.2	4.1	11.3
26	***	10.5	9.8	8.1	-6.9	-2.2	-3.3	5.1	4.9	4.1	9.7	10.9
27	***	14.2	7.4	4.2	-3	-2.3	-3.6	-1.9	9.3	10.1	5.3	6.6
28	***	13.8	9.5	-3.3	-2.8	-0.4	-3.7	-3.2	6.6	7.2	2.2	9.4
29	***	***	7.6	-6	1.6	-0.8	-2	1.7	8	11.9	7.5	10.1
30	***	***	7.8	0.1	1.1	-2.1	-3.6	2.7	7.2	9.1	9.2	10.7
31	9.7	***	5.5	***	3.3	***	-3.6	4.7	***	11.1	***	9.5
Avg	9.7=	10.3	6.8	6	0.7	-0.2=	-2.1	1.7	6.0=	6.7	7.3	9.9

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2008 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.7	12	11.5	***	***	-4	-0.7	2.9	-6.6	-0.7	7.8	6.6
2	13	9	12.1	***	***	3.3	0.1	1	-1.7	7.8	12.2	12.3
3	11	14	12.1	***	***	3.2	1.7	-1.3	2.2	4.5	4.9	10.2
4	10.1	9.5	10.8	***	***	0.1	-0.1	-1.2	0.4	5.7	0.3	10.9
5	10.8	13.6	12.6	***	***	-2.2	-1.6	1.9	1	3.4	4.9	10.6
6	11.5	12.5	***	***	***	-1.6	0.9	0.9	-3.1	4.2	9.2	9
7	11.6	11	***	***	***	0.3	2.8	1.6	3.3	11.9	6.5	9.9
8	7	10.6	***	***	6.9	-0.8	5.5	-2.8	7.3	8.3	3.2	9.7
9	3.1	11.7	***	***	7.4	-3.1	-3.5	-1.1	10.9	5.2	2.5	9.6
10	7.4	12.3	***	***	9.8	2	-6.1	-5.9	3.9	0.2	6.6	13.6
11	11.8	13.1	10.8	***	***	7.6	-8.1	-3.9	-3	3.9	9.7	12.1
12	12.2	9.8	8.6	***	3.2	1.4	-8.7	1	-2.4	8.5	10.5	11.7
13	14.3	7.3	7.9	***	4.1	5	-7.5	4.9	4.7	10.1	9.1	7.5
14	15.6	9.1	7.5	***	4.9	1.6	-1.9	5.3	9.5	6.3	7.6	10.1
15	15.7	12	5.3	***	***	3.1	9.1	8.2	11.8	5.9	8.3	10.2
16	12	12.8	1	***	***	-1.2	-0.4	0.3	1.5	7.6	9.4	8.7
17	8.3	11.4	0.6	***	***	0.9	-3.7	-3	-4.3	8.2	8.8	11.8
18	10.4	12.7	***	***	***	6	2.7	-0.4	5.5	5.2	7.7	12.9
19	8.5	11.8	***	***	***	4.8	-0.6	3.9	1.8	7.7	6.3	14.3
20	10.1	10.5	***	***	5.2	5.5	-1.4	3.4	-2.5	10.7	11.1	14.7
21	10	12.1	***	***	5.7	0.8	1.2	8.5	-2.4	15	11.6	12.3
22	12.8	10.3	***	***	3.7	0.8	0.6	9.9	-0.8	5.7	12.6	13.7
23	12.6	11.7	***	***	1.6	-2.1	0.1	11	6.1	3.2	9.8	9.5
24	12.3	12.6	***	***	1.9	-2.5	1.9	8.5	5.3	4.5	9.2	5.9
25	10.4	11.9	***	***	3	-2.6	0.2	1.8	4.4	1.5	9.8	5.7
26	13	12.9	***	***	2.3	-1.6	-0.8	-0.4	5.1	6	8.8	5.5
27	12.5	10.7	***	***	2.7	-1.4	2.9	-1.7	0.3	12.2	14.1	8.4
28	12.7	7.5	***	***	7.4	3.2	-2.4	0.9	-3.2	10.1	12.5	13.2

29	9.3	8.2	***	***	4.6	-4.3	-2.9	-1.5	11	11.3	13.1	9.8
30	9.8	***	***	***	7.7	-4.4	3.2	5.9	3.4	7.6	8.8	7.1
31	10.9	***	***	***	-0.8	***	9.6	-2.3	***	7.6	***	7.1
Avg	11	11.2	8.4=		4.5=	0.6	-0.3	1.8	2.3	6.8	8.6	10.1

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2009 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.4	10.4	9.2	4.5	2.9	2.1	-5	2.3	6.5	4.2	7.6	4.1
2	9.3	13.2	9.3	6.5	2	-0.6	-3.2	0.3	9.8	3.2	5.8	7.9
3	10.1	11.5	10.4	5.9	-0.2	0.2	1.4	-1.9	4.2	6.6	5.5	6.6
4	8.7	7.8	10.1	4.9	5.8	4.6	-2.2	1.2	1.8	10.1	7.5	8.6
5	6.7	7.2	8.3	7.8	3.6	5.3	-1.5	5.4	10.1	8.7	8.7	7.6
6	9.4	9.5	8.4	9	4.4	4.5	-2.8	-1.5	14.1	6.2	7.2	8.4
7	8.8	10.2	6.9	5.4	3.4	-1.3	-3.9	-1.5	15	9.5	9.2	14.8
8	13.9	10.4	7.5	6.6	2.3	-3.2	-2.8	4.9	3.4	6.4	12.6	11.5
9	15.4	11.7	5.7	7.6	1.4	0.3	1.7	2.3	0.1	4.5	7.2	10.9
10	12.9	12.6	6.4	4.8	-1.4	-1.7	-0.7	4.7	-2.2	3.2	3.1	8.9
11	11	11.2	9	4.1	0.7	5	4.1	7.3	-3.3	7.7	8	7.8
12	14.4	8.8	9.9	3.6	0.8	3.4	1.8	0.4	-2.1	3.8	10.2	5.7
13	12.9	13.2	10.6	2.6	2.5	3.1	-0.1	-3.6	6.1	2.3	11.9	7.8
14	11.4	12.6	11.3	0.5	4.2	1	-1.1	-5.8	3.2	3.4	5.8	5.3
15	9.6	6.6	8.4	3.4	5.5	-0.4	-4.6	2.4	12.7	10.7	3.1	10.4
16	13.6	4.5	8.8	4.3	8.3	2.1	-6.8	-0.2	8.5	8.1	2.6	6
17	11.3	6.9	3	4.1	0.8	-0.4	-5.3	3.1	2.3	5.8	1.8	7.1
18	8.8	9.9	-0.4	6.2	-0.5	1.8	-3.4	6.2	-0.6	2.5	5	9
19	7.1	13.6	2.2	7.5	-1.7	-1.1	-5	-1.9	-2.5	2.4	5	6.6
20	5.6	13.7	3.2	3.5	-2.2	1.3	-3.2	-4	-0.2	2.8	5.2	8.4

21	9.6	0	1.6	3.3	3.1	4.5	-1.4	-4.3	3.2	5.9	8.6	9
22	8.4	9.8	3.2	1	8.1	6.3	-0.6	-3.6	3.3	5.1	6.1	15
23	6	6.3	5	9.9	6.1	2.1	-3.4	-0.9	3.2	10.1	9	16
24	7.4	10.7	6.4	6.4	5.6	-0.6	-5.8	-1.9	4.8	8.2	11.9	9.2
25	8.2	13	7.5	6.5	1.9	-5.9	-7.8	5.1	4.8	8.8	10.3	6.3
26	15	11.9	8.7	2.9	-0.9	-5.2	-7.8	4.9	3.1	7.3	9.7	8
27	11.3	9.8	10.4	0.4	-2.5	-5.3	-4.7	-1.8	5	10.4	5.3	8
28	9.7	11.2	9.1	3.3	-0.8	-4.6	-3.1	-5.4	1.8	6.8	4.3	4.6
29	10.8	***	6.5	8	-1	-7.8	0.4	1.5	1.4	5	8	6.7
30	8.3	***	8.2	6.7	-2.3	-3.4	2.7	11.2	1.7	1.5	7.9	7.2
31	11.8	***	7.8	***	-3.4	***	0.1	9.1	***	6.2	***	11.9
Avg	10.3	9.9	7.2	5	1.8	0.2	-2.4	1.1	4	6	7.1	8.6

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2010 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.5	11.1	8	9.4	3	-3.1	-1.1	1.1	11.2	9.4	5.9	8.2
2	12	7.9	10.7	7.4	2.7	-3.3	3	0.8	0.8	11.1	9.8	11.8
3	9.9	9.7	9.3	8.7	9.5	-4.1	1.2	0	-2.4	8.3	10.7	11.4
4	9.2	11.1	10.7	9.2	7.7	-0.5	0.7	-0.3	1.4	5.2	8.2	7.2
5	5.8	10.3	9.1	10.2	3	-3.8	1.9	4.1	5	8	6.2	7.1
6	11.4	10.6	10.9	10.2	3.8	-1.7	1	3.8	2.1	9.1	4.2	4.5
7	13.9	15	10.4	8.5	3.5	5.3	2.5	0.6	0.5	10.6	3.1	3.2
8	10	12.8	8.2	5.1	3.6	2.2	4	5.5	0.5	6.8	12.3	4.2
9	8.2	11.1	10.3	10.5	9.6	-2.6	2.6	-4.3	4.4	3.4	5.2	7.8
10	13	12	9.8	3.8	3.5	-1	7.7	-7.1	1.4	5.8	5.3	9.4
11	11.5	14.6	12.2	1.6	3.2	4.1	0.2	-8	0.3	7.9	4.2	7.9
12	9.6	14.4	10.4	5.3	0.1	7.1	-4.5	-1.6	6.2	2.4	10	7.4

13	12.3	14.5	10.8	5.8	3.8	2.3	-7.6	-2	8.3	1.8	7.5	7.7
14	12.3	11.4	8.2	6.6	11.5	2.1	3.9	-2.2	10.4	4.7	6.2	9.6
15	11.6	13.1	5.8	8.3	6.2	-3.4	-2.2	2.3	14.7	2.6	8	8.8
16	8.6	12.8	9.4	8.5	6.5	-8.3	-3	-1.3	4.5	0	10	11.8
17	7.1	10.1	9.1	9	5	-3.5	-4.8	0.4	2.8	-1	7.7	10.9
18	11.6	7.7	6.5	6.4	4.7	-6	-2.9	5.2	13.2	6.9	7.3	8
19	13.5	9.4	7.7	6.5	3.5	-1.7	-1.8	-3.7	11.1	6.6	8	10.5
20	11.3	8.4	9.2	2.6	2	-2.8	-3	-6.8	10.8	4.4	11.2	8.8
21	10.5	12.5	7.6	0.9	1.8	-4.4	-0.6	1.3	4.6	11.3	13.5	11.1
22	13.9	12.3	9.7	1.1	-0.1	0	-1.3	2.5	2.4	10.3	11.1	10.5
23	11.6	13.8	6.8	-2.5	0.1	-2.8	5.5	-0.3	1.3	8.6	8.4	10.9
24	11.5	12.3	7.2	-4.7	2.5	-2.8	5.3	-4.4	5.4	8.7	7.6	7.4
25	13.1	13	10.7	0.5	2.1	-2	2.6	-0.7	3.8	2.5	7.6	7.9
26	13.5	9.4	12.2	3	5	0.6	3	4.1	11.7	0	10.1	8
27	12.3	8.4	6.2	2.6	11.6	-1.1	1.7	-2.1	1.1	2.1	9.9	10.7
28	10.9	5.7	10	4.1	-4.2	0.8	3.3	4.4	-2	4.5	9.6	10.8
29	8.4	***	10.8	2.7	-8.1	7.5	0.1	4.7	8.5	2.1	6.6	12.9
30	7.4	***	***	3.2	-5.2	2.8	-2.5	7.8	8.8	4.5	4.7	11.8
31	15.2	***	9.5	***	-3.6	***	2.1	5.8	***	5.5	***	12.5
Avg	11.1	11.3	9.2=	5.1	3.2	-0.8	0.5	0.3	5.1	5.6	8	9.1

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2011 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.2	9	7	13.6	-1.6	-5.8	-5.8	-4.4	6.3	3.4	1.2	11.6
2	13.7	9	8.6	10.6	2.7	-2.6	-3.9	-3.2	5.7	5.9	-0.9	9.8
3	13	9.2	12.1	6.5	7.6	0.6	-6.4	1.5	0.2	1.9	3	6.2
4	13.1	11	10	2.7	4	-2.1	-6.7	0.9	3.7	-0.8	8.2	2.3

5	11	13.8	10.9	2.1	3.9	-1.7	0.5	0.7	3.4	-1.6	4.4	11.8
6	9.4	13.2	8.6	6.8	6.9	-4.1	-1.4	-3.2	3.6	-2.8	1.2	10.8
7	8.2	11.2	10.3	4	3.7	1.7	-1.1	-6.6	3.6	6	1.6	12
8	9.9	11.4	10.6	1.5	1.7	-0.1	-3.7	-3.5	3	5.2	12	5
9	10.6	12.8	11.7	5	1.8	-1.7	-3	-2.9	13	6.9	13.2	4.7
10	9	14.4	10.4	6.2	6.4	3.7	-3.7	-5	6.5	6.2	6.6	7.4
11	9.3	13.5	11.4	4.3	6.3	2.3	-4.4	-4.9	7.2	6.8	4.7	7.4
12	8.8	11.4	12.7	8.1	7.1	1	-3.2	2.4	12.2	6.4	6.7	4.3
13	10.5	12.8	12	8.3	2.6	0.3	-3.3	1.5	8.3	8.7	3.6	7.9
14	11.5	10.3	11.6	7.8	2.4	-1.3	-3.4	-0.3	4.1	12.2	4.8	10.3
15	7.7	10.1	12.1	5.8	2.4	0.2	-4.3	-2	4.5	4.6	2.8	4.8
16	12.2	9.4	10.6	5.7	5.1	2.7	-4.9	-6.3	-1.6	3.2	4.9	4.9
17	10.2	11.7	11.7	3.4	1.7	-2.6	-5.1	-2.5	-0.4	1.9	7.3	7.5
18	12.7	12.7	10.4	3.6	-1.1	-5.6	-4.6	-0.7	12.9	7.9	8.1	9.6
19	13.5	11.8	10	4.1	1.3	1.9	-2.8	2.2	0.2	6.1	8	12.1
20	12.5	8.7	8.1	6.5	-1.1	-1.6	-2	-2.3	-2.1	2.3	11.1	12.9
21	11.2	10.2	8.8	0.3	-0.7	-4.1	-2.4	11.7	-1.9	2	5	10.8
22	14	9.7	8.2	-3.1	2.7	-1.9	-0.6	7.3	0.1	7.5	3.9	12.3
23	11.8	6.4	10.1	2.2	9	3.5	-1.9	3.8	0.2	12.1	5.5	9.6
24	12.5	9.2	10.8	8.3	7.4	-3.1	1.6	2.5	0.7	10.9	4.4	8
25	12.1	9.5	8.8	7.9	-0.6	-0.6	-1.1	-0.3	4.2	5	1.9	10.9
26	9.2	7.3	6.9	2.8	-1.1	-1.9	-1.6	4.8	11.5	3.9	3	12.3
27	9.6	8.5	7.1	0	-4.1	-3.4	-5.6	0.9	6.8	6.9	4.3	12.3
28	6.6	8.9	10.3	-2.7	-2.4	5	2.7	-1.1	2.4	10	6.5	8.9
29	8.4	***	11.7	-3.3	1.8	6	-2	7.2	6.6	14	2.7	5.4
30	13.8	***	10.7	-1.3	0.1	-1.8	-4.8	13	3.1	4.6	12.3	7.4
31	7.8	***	10.5	***	-2	***	-4.1	6.8	***	0	***	10.4
Avg	10.9	10.6	10.2	4.3	2.4	-0.6	-3	0.6	4.3	5.4	5.4	8.8

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2012 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8	14	11.2	1.4	8.6	-0.3	0	-5.8	-4	4.1	0.6	10.8
2	9.7	13.1	11.9	0.1	7.1	-3.2	2.8	-8.7	-7	9.5	-0.8	8.4
3	10.1	12.8	5.9	2.9	10.7	0.2	2.7	0.7	-1.3	12.5	5.8	8
4	8.5	12.2	8.2	5.6	7.5	-0.9	1.6	7.3	-3.1	11.9	10.3	7.6
5	11.5	8.4	8	5.6	4	8	-2.6	4.7	-3.6	6.8	8.2	9.4
6	9.3	9.8	5.9	7.9	3.8	0.7	5.8	-3.6	0.9	9.6	8.7	10.5
7	11.1	9.2	8.9	7.6	1.9	-3.3	2.3	-2.9	7.4	6.5	6.9	9.7
8	13.4	14.3	11.1	4.1	3.7	-0.6	-1	-2.1	5.7	4.5	5.8	10.2
9	12.6	14.3	11.1	1.3	4.7	-0.8	-3.7	-2.5	5.5	10.6	5.4	8.8
10	13.1	12.2	8.9	0.6	4.9	-4.3	-3.2	3.6	2.2	4.8	4.3	9.9
11	13.4	7.6	7.2	-0.6	3.1	-7.6	-1.3	-0.2	-0.9	2	7	9.1
12	13.8	4.9	6.2	-1.3	2.7	-2	-4.5	-3.1	2.2	1.1	16.9	8.9
13	15.2	5.8	5	1.1	3.6	-5	-2.9	-4.6	5	1.7	9	10.8
14	11.7	8.1	4	3.8	1.3	-4.4	-1.5	7.2	3.8	4.7	6.3	10
15	11.4	10.7	5.9	5.9	0	1.1	-2.4	4.9	2.9	10.6	12.1	10.8
16	9.9	9.5	7.9	5.6	-3	-1.6	-2.7	-2.9	-0.7	9	11.2	8.5
17	10.3	9.5	5.6	6.7	-2	0.7	-3.7	-6.5	3.4	6.5	9.3	7.7
18	11.5	10.2	2.3	2.9	6.1	3.5	-4.5	5.3	7.2	6.1	6.4	5.1
19	13.1	11.5	4.2	0.2	-3	3.3	-2	9.9	2.6	5.4	7.8	8.5
20	11.5	11.7	4.8	1.9	-7.3	0.5	1	9.9	3.5	5.1	9.5	10.4
21	13	12.1	5.8	3.3	-8	-1.4	3.7	5.4	10.6	7.6	7.8	9.1
22	12.5	11.8	7.5	5.4	-4.8	5.7	-3	2.9	0.6	4.7	4.6	13
23	10.3	8.3	10.4	-0.1	4.8	1.9	-6.1	-0.9	-0.9	4.7	10	10.7
24	10.7	5.1	11.2	-3	6.5	1.4	-4.8	7.8	3.6	2.4	7.5	14.3
25	6.7	11.3	10.8	1.7	5.4	0	-4.6	6.3	0.8	7.3	3.2	10.3
26	7.2	12.8	9.6	8.8	2.9	-0.4	-3.1	-1.6	7.8	5.8	1.7	9.7
27	8	13.1	10.3	2.5	-1.3	-2.2	-1.7	-3.6	11.2	5.4	3.6	10.4

28	7.5	12.8	10.9	1.3	0.6	-5.4	-4.7	4.2	1.3	5.5	5.4	13.2
29	6.3	14.1	9.9	0.1	3.5	0.4	-7.8	11.9	0	7.4	8.8	10.4
30	9.1	***	7.3	7	1.5	0	-6.3	9.9	0.8	5.6	9.5	12.9
31	11.7	***	3.7	***	-1.8	***	-1.7	9.2	***	3.3	***	12.4
Avg	10.7	10.7	7.8	3	2.2	-0.5	-1.9	2	2.3	6.2	7.1	10

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2013 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.2	8.2	7.7	13.5	6.8	10.8	5.6	-2.4	-5.2	3.8	2.4	6
2	7.4	8.5	5.7	9.7	7.2	5.2	***	-1.3	-4	5.7	3.8	9.3
3	9.2	8.8	7.8	1.3	6.1	-1.2	***	-3	2.6	6.3	0.1	11
4	7	8	8.8	-2	0.9	-5.6	1.4	-1.4	-2.3	7.7	5	8.1
5	4.9	5.5	11.5	0.6	-5.4	-6.1	0.7	-1.9	-3.8	6.2	9.8	6.1
6	11.3	9.3	13.1	2.8	-3.2	-5.3	4.3	-1	0	3.2	14.4	3
7	10.5	8.6	12.5	6.6	1.6	-0.3	3.3	4.1	2.6	2.3	7.5	3.3
8	14.2	8	14.6	11.4	3	6.5	1.4	-4.1	13.7	0	2.2	8.8
9	14.4	9.7	7	7.2	1.3	-7	-1.1	-6.5	1.4	4.8	3.9	10.2
10	8.6	12	4.8	0.9	-0.6	-9.2	0.4	-5.5	0	5.1	5	8.5
11	5.6	10.7	6	-2.5	***	-5.6	-0.8	-2.6	3.8	8.9	4.1	7.1
12	5.6	10	7.9	0.1	***	-4	-0.9	-1.2	3.4	4.1	6.4	6.1
13	9.3	11.6	11.1	5.2	***	5.1	-0.8	0.7	4.5	0.7	7.9	5.7
14	11.8	13.1	8.2	6.7	5.4	0.3	-2.4	-1.3	3.3	-2.6	12.4	8.2
15	11.6	10.5	9	7.2	3.6	-3.1	-0.7	-4.3	3.6	-1.1	12.7	9.2
16	12.6	8.1	9.4	15.9	5.9	-7.4	2.3	-1.4	2.4	3	11	8.8
17	11	9.7	8	12.6	2.3	-6.1	***	4.1	3.5	1.9	4.6	6.3
18	13.7	12.1	5.5	4.2	-0.8	-2.8	3	-3.9	4.6	1.3	8.6	5
19	11.1	10.1	7.4	3.4	0.8	0.6	1.8	-7.4	7.8	3.2	6.7	6

20	8.8	6	5	5.4	2.6	2.6	-4.4	-1.6	4.6	6.4	9.9	8.3
21	9.8	3	7	4.3	1.8	-0.5	-5.2	4.2	-2.5	2.9	6.3	13.3
22	8.2	5.9	11.7	1.9	2.7	1.8	-1.2	-2.4	-5.5	2.1	4.7	12.3
23	7.7	6.6	11.9	1.7	3.8	-0.4	3.8	-5.8	7.8	-0.3	7.4	12.4
24	13.1	7.5	10.9	1.8	5.4	4.7	1.1	0.1	9.5	3.5	7.1	11.6
25	12.1	7.1	10.3	2.7	4.9	8.4	-0.6	-2.3	4.9	7.8	9.4	12
26	8.6	13.5	8.8	3.1	10.1	-0.2	1	12	8.1	6	10.5	13.4
27	10.5	15.9	9.1	3.7	4.8	-6.3	5.6	11.7	10.3	4.9	6.5	11
28	8.4	10.7	8.4	5.8	-0.3	-7.2	-1.5	13.5	-0.9	6.2	5.6	11
29	11.2	***	10.7	4.5	-3.6	***	-6.2	9.4	-5.4	4	3.9	10.3
30	10.8	***	10.6	1.3	3.4	***	-6.4	-2.1	-3	8.3	7.3	7.3
31	10.4	***	10.1	***	1.3	***	-4.1	-5.6	***	7.6	***	10.3
Avg	10	9.2	9	4.7	2.6=	-1.2=	-0.0=	-0.3	2.3	4	6.9	8.7

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2014 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.8	10.1	11.8	9.2	4	5.8	2.9	0.4	-3.7	2.2	8	6.4
2	12	12.6	13.1	7.8	3.6	0.1	3.4	2.5	-1.3	0.2	9.3	9.3
3	11.1	10	10.1	2.6	2.3	-0.7	0.4	4.3	-0.9	-0.4	9.1	8.2
4	12.4	11.1	11.7	-0.5	5.9	3.5	-0.8	3.5	1.2	-3.8	5.2	7.7
5	13	13.3	11.1	1.2	1.1	-4.8	-1.5	-0.7	1.2	-0.3	3.8	8.8
6	13.7	12.1	12.1	0.3	-1.7	-6.5	-7.1	-2.7	1.8	3.2	4.1	7.5
7	14.8	10	9.4	3.4	4.8	-6.8	-10.2	-2.4	4.7	7.2	7.1	8.5
8	13.7	13.5	11.8	5.5	5.4	-0.9	-10.6	4.2	6	10	4.6	11.7
9	11.7	11	10	3.6	3.5	3.3	-11.8	3.4	6	2.3	9.9	10.6
10	8.7	11.5	6.8	2.6	-1	-6	-11	1.1	9	0.9	8.8	9.6
11	8.9	12.7	10	3	0.5	-10.4	-3.8	2.2	6.4	4.2	9.1	7.2

12	8.9	13.2	4.6	3.9	-1.4	-5.8	-2.7	2	4.4	8.2	6.6	10.2
13	9.2	11.8	0.7	3.8	-0.7	-3.8	-6.3	4.2	2.8	3.2	6.7	7.8
14	5.4	13.2	7	7.3	0.4	-5.2	-7.5	2.4	6.6	-0.2	4.5	10
15	9.7	11.9	9.4	5.7	2.2	0.8	-5.4	-0.9	11.2	6.3	1.7	9.2
16	13.1	10.3	9.3	2	0.5	-4.5	3.2	1.4	11.7	4.3	-1.4	8.1
17	11.5	9.9	10.3	4.6	-2.8	-4.6	5.7	1.2	11	0.3	-2.3	5.8
18	12.5	12.6	8.4	3.8	-4.2	2.4	-2.2	5.7	***	-2	0.7	6.7
19	8.7	12.2	8	5.6	0.7	-3.3	-5.2	5.7	-1.9	1	3	9.3
20	8.5	9.7	4.6	7.9	5	-6.7	-5.7	7.7	-4.9	3.6	4.5	6.9
21	10.8	11.5	4.7	8.3	0.6	-5.9	-7.4	0.6	-0.8	***	4	5
22	8.3	9.9	10.5	8.1	-0.4	-2.6	-1.9	-2.8	2.5	***	6.1	7.6
23	10.6	11.5	10.2	1.9	5.9	-0.2	-1.7	-3.9	8.9	***	9.3	10
24	12.7	10.8	10.6	-1.3	3	-2.3	1.9	-5.7	7.3	6	7	7
25	10.3	7.5	12.7	0.1	6.9	2.8	4.8	-5.4	1	6.7	7.8	9.4
26	7.8	8	5.8	1.4	3.7	3.8	-2.5	-2.3	5.5	5.6	7.8	7.7
27	10.7	7.8	2.8	-0.9	1.9	-3.2	-3.7	7.3	3.6	***	8.3	9.8
28	12.8	9.7	3.4	-3.4	9	-5.2	-5.3	-2.3	0.8	10.6	5.9	7.5
29	15.4	***	7	-0.5	5.9	-0.6	-6.5	-5.3	3.3	10.5	5.6	7.4
30	12.3	***	5	-0.4	3.5	2.4	-1.8	-2.7	-0.3	9.3	8	12.4
31	9.1	***	4.6	***	1.6	***	-1.5	-3.7	***	6.5	***	10.4
Avg	10.9	11.1	8.3	3.2	2.2	-2.2	-3.3	0.6	3.6=	3.9=	5.8	8.5

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2015 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8.2	4.4	6.3	8.2	1.3	3.4	-2.5	-6.1	1.5	2.3	8.5	10.9
2	10	2.4	4.5	9.7	***	4.2	-2	-3.6	0.6	2.2	-0.4	13.8
3	11	5.1	2.9	11.3	***	2.6	-1	-0.4	-1.8	5.9	-2.6	12.2

4	10.8	7.4	6.6	10.7	-0.1	-1.8	1.4	2	0.2	6.4	-1.5	9.4
5	9.2	7.9	8.6	3.9	3.5	-3.4	6.2	-2	-1	8.5	6.5	12.2
6	10.9	7.7	5.9	***	0.2	-4.7	2.9	-5.2	0.5	4	8	10.7
7	10.8	6.9	10.6	***	-1.7	-1.1	-0.8	-1.4	6.9	7.3	9.6	11.2
8	12.8	6.8	8.3	***	2.7	-2.4	3	-1	1.4	11.2	6.6	16.2
9	10.6	8.5	7.9	1.6	5.4	-2.7	1.2	-0.1	-0.9	11.5	7.9	11.2
10	9.5	11.5	9.6	2.7	4.3	-1.8	0	-4	4.8	8.3	8.6	8.4
11	9.8	12.4	11	3.2	1.7	-0.4	5.3	-5.7	0.6	-0.4	8.9	12.1
12	12.6	12.6	10.1	1.9	0.8	-2.3	5.2	-4.4	-0.5	3.2	8.5	11.9
13	12.5	11.9	9	2.6	0.4	-1.8	-4.4	2.9	2	10.8	6.2	8.7
14	11.8	8.8	9.7	6.6	5.1	0.3	-6.1	-0.7	3	9.1	6.4	5.8
15	9.1	4.9	12.3	2	5.4	0.9	7.5	6.4	10.9	5.8	3.8	3.3
16	7	2.4	10.9	-2.8	4.4	-0.9	3.7	8	7.6	3	0.4	9.8
17	2.5	2.6	7.4	-5.1	1.1	-1.5	-1.1	8	2.8	3.3	7.5	7.1
18	3.3	11.2	6.6	-2.8	7.7	-2.4	0.7	7.6	-0.6	9.6	5.1	12.2
19	5.7	10.6	9.1	-2.2	7.3	-4.2	0.6	7.1	-0.6	12.4	3.2	11.8
20	6.5	7.4	4.9	-1.2	6.1	-2.5	4.3	3.4	2.3	11.3	9.4	11.6
21	10	8.3	7.1	-1.5	7.1	-1.4	4.1	-1.2	10.9	10.3	1.9	11.6
22	9	6.6	9.5	1.3	2.8	-1.6	3.9	-1.6	8.3	7.2	0.8	7.5
23	9.2	5.5	10	5.3	4.8	-1	1.6	5.5	7.7	8.3	2.3	7.9
24	10.3	9.1	10.7	3.3	5.4	1.4	-2.2	6.7	8.1	10.3	6.4	11.9
25	12.9	7.5	8.3	5.5	6.4	-0.9	-1.1	8.5	11.1	10.7	10.5	10
26	11.2	9.8	7.5	3.6	6.9	-0.1	-2.2	9.5	13	9.3	7.3	10.1
27	11.9	10.7	4.8	-1	4.5	0.5	-3.8	5.9	10.1	6.7	5	9.4
28	9.7	7.9	5.1	-0.2	9.6	-0.8	3.1	8.6	9.6	6	1.7	14.1
29	7.4	***	3.9	3.7	9.9	-0.6	2	6.3	8.9	5.2	9.3	16
30	6.7	***	5	1.3	7.8	-4	-2.3	8.6	9.1	2.7	9.7	13
31	10.6	***	6.7	***	4.5	***	-2.9	9.8	***	9	***	11.2
Avg	9.5	7.8	7.8	2.7=	4.3=	-1	0.8	2.5	4.5	7.1	5.5	10.7

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2016 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.9	12.9	11.1	10.8	-5.3	2.4	2.4	-1.3	8	-0.9	7.3	8.9
2	11.9	12	14.1	3.3	-0.5	-1.3	-4.9	-1.3	6	-0.3	7.3	4.5
3	11	13.6	11	2.1	1.1	-0.1	-8.1	-1.5	3.7	-0.7	10.9	7.5
4	14.4	8.9	11.8	5.4	-2.9	0.3	-1.2	-3.7	0.8	-2.8	13.6	11.8
5	17.4	4.4	13.7	7.8	-1.9	1.8	8	-3.3	10.5	-2.5	13.3	11.6
6	16.5	7.1	12.6	4.7	0.7	0.2	-2.9	-2.4	12.8	5.3	8.4	9.8
7	10	8.5	14.7	1	5.7	0	-6.1	2.1	5.4	0.4	***	10.8
8	6.7	7.3	10.8	2.8	6.5	-0.3	-3.6	-3.8	3.7	3.2	***	13.2
9	6.6	5	8.3	5.5	5	3.6	-3.7	-6.5	2.8	0.8	10.5	9.7
10	8.5	7.4	11.1	6.7	4.6	8.3	-3.4	-2.9	-0.2	-2.4	8.4	6.6
11	11.3	6.8	9.4	7.7	1.8	-2.4	-2.2	-2	5	10.8	6.5	5.9
12	9.4	9.5	8.8	9.3	3.4	-5.5	-4	1.4	5.1	2.7	7.4	9.8
13	10.2	15.4	11.3	8.2	6.7	2.4	-0.9	4.5	3.6	1	4.3	10.3
14	12.4	14.8	8.9	7.5	3.1	5.8	0.4	-0.3	3	-0.2	1.2	8.5
15	10.9	12	9.9	7.4	2.4	6.3	1.1	-3.5	5.2	10.3	3.5	7.9
16	8.7	12.1	10.4	7.8	3	-0.8	-0.6	3.7	5.2	4.6	13	11.1
17	12.3	9.5	9.7	7.6	2.8	-3.3	-1.8	5.3	-0.6	2.1	8	8.2
18	9.8	13	8.7	7.4	6	2.9	0.1	4	-0.6	-0.2	3.2	11.7
19	11.8	11.5	6.1	8.3	4.9	6.8	1.5	6.5	-2.8	6.4	1.3	15.5
20	9.6	10.7	5.4	7.6	1.5	2	9.3	1.9	3.6	8.3	5.1	12.3
21	12.6	7.2	4.5	9.7	4.7	-2.3	6.7	0	9	10.2	10.4	9.9
22	14.3	8.6	2.6	8.9	1.8	-4.7	1.3	-0.3	4.3	9.6	9.2	12.6
23	14.1	8.7	6.9	3.6	4.9	-1.9	-4.1	-3.8	0.1	8.3	11.3	10.1
24	13.6	13.9	10.3	2.5	5.6	0.2	-7	0.9	-0.2	6.5	12.1	6.1
25	10.7	13.6	12.2	6	3.3	-1.7	-0.1	-0.4	0.8	6.6	7.8	2.3
26	10	10.8	10.1	6	0	-0.6	-0.2	3.2	7.1	6.8	5.8	12.7

27	11.4	7.3	9.2	4.5	0.7	5.1	-3.1	6	9.4	9.4	9.3	12.2
28	11.7	5.5	7.6	3.8	0.3	2.9	-0.4	5.3	1	10.6	10.7	11.1
29	11.1	10.8	3.6	7.7	0.3	2.1	3.9	4.4	-2	11.3	9	9.1
30	13.3	***	10.8	-1.9	-0.9	-0.6	1.4	7.1	1.3	7.3	9.1	9.8
31	12	***	7.7	***	0.2	***	***	5.4	***	7.4	***	12.9
Avg	11.6	10	9.5	6	2.2	0.9	-0.7=	0.8	3.7	4.5	8.1=	9.8

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2017 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.3	12.2	11.5	10.6	4.1	-1.4	3.1	9.7	-1.1	8.9	10.2	11.2
2	13.5	12	11.8	8	5.3	1.7	4.8	5	-3.9	5.8	11.5	10.9
3	9.6	10.4	12.7	11.6	3.8	1.1	1.5	2.8	-2.1	8.2	11.7	8.2
4	9.1	13.3	12.1	10.9	7.4	4.5	-0.5	0.8	-0.1	4.5	9.7	5.1
5	12.6	11.1	11.9	12.1	8.2	2.5	2.4	0.6	7.8	0.9	9.4	8
6	12.5	10.3	8.8	8.4	6.7	0.8	-0.6	-4	8.3	1.9	4.7	7
7	10.2	12.5	9.7	9.3	6.7	6.5	-0.4	-4.5	11.6	5.5	0.8	6
8	8	10.5	9.7	10.2	4.5	-5.4	5.2	-4.5	5.8	6.2	-1.1	7.8
9	11.5	12.9	6.2	8.6	6.2	-8.5	8	1.5	3.5	2.4	0.2	8.4
10	10.1	13.1	4.2	9.2	5.7	7.5	2.9	8.4	8.2	-0.1	7.2	6.5
11	13.4	13.2	5	12.1	5.9	3.8	-0.4	9.7	9.3	-2.5	5.8	3.7
12	12.9	14	8.3	9.8	1.9	1.6	-1.7	6.6	6.8	3.6	9.3	3
13	11	13.5	9.6	9.6	1.6	2.6	-2	-0.7	14	2.8	13.5	4.9
14	8.3	11	12.7	1.8	0.2	0.5	-5.3	-5.3	***	2.6	10.3	5.1
15	***	13.7	7.3	-2.9	-0.8	-2.1	3	6.8	***	8.2	-0.1	2.8
16	***	13	4.4	-1.8	1.8	-8	-5	0.4	3.6	6.1	-0.3	8.1
17	***	13.8	6.7	1.6	0.6	1.1	-8.9	-1.4	1.8	1.6	-1.1	11.4
18	8.2	13.1	8.3	1.7	0.4	-3.7	-4.1	-3.9	2	-1.9	3.5	9.2

19	12.1	10.8	6.6	-0.4	0.9	2.5	-3.5	-7.1	5.7	4.7	5	7.4
20	10.9	9.4	4.1	-1.6	1.9	-1.6	0.3	-3.4	3.3	0.9	12.8	4.3
21	7.8	9.3	6.1	-0.9	1.6	-4.6	0	1.5	9.9	3.3	14	7.1
22	12.9	8.7	9.4	0	-0.5	4.4	-0.9	-1.3	8.2	4.4	5.7	12.2
23	12.1	7.7	9.6	1.6	3	-3.7	-4.3	-5.7	2.3	9.7	2.8	10.1
24	13.7	11.4	7.8	-1.5	8.5	-4.2	-5.4	-0.5	***	7.8	3.5	9.2
25	10.1	9.1	4.4	***	4.4	-1.1	8	-4.5	9.6	11.1	3.7	7.4
26	6.5	7.6	1.3	***	6.2	-4	-3.3	-6.2	-0.8	5.6	7	5.2
27	12.8	4.1	6.6	7	-1.4	5.5	-4.5	-2.4	-3.4	-0.8	1.4	6.4
28	8.8	10	5.2	2.5	-4.2	1.9	-3.1	-0.7	-3.3	-2.8	1.1	10.5
29	6	***	4.9	2	-3.5	-2.3	2.8	8.5	7.5	4.3	7.6	9.2
30	9.1	***	8.5	2.7	-1.3	1.9	-2.2	1.5	5.6	9.3	7.1	10
31	11	***	9.8	***	-1.2	***	-1	-1.3	***	8.3	***	6.9
Avg	10.7=	11.1	7.9	5.1=	2.7	0	-0.5	0.2	4.4=	4.2	5.9	7.5

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2018 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.3	6.7	12.5	8.7	***	1.2	1.6	-1.5	12.2	9.9	3.3	9.9
2	4.9	10	10.6	9	***	-0.7	-1.5	-4	3.1	3.9	-0.1	6.1
3	5.8	8.4	11.2	9.5	***	-0.3	-6	-5.3	1.1	-1.9	0.4	7.6
4	7.3	9	9.7	10.2	***	-1.7	-6.2	2.9	0.4	-5.3	9.6	6.7
5	13.4	8.9	10.2	11.2	***	-4	-6.2	-0.8	4.7	-0.9	7.9	10.2
6	10.3	12.5	11.6	9.2	***	-1.9	-6	-4.1	3.1	3	1.8	11
7	9.9	13	9.2	9.5	***	-2.2	-4.8	-3.6	-1.1	4.3	-0.2	12.3
8	11.3	11.2	8.5	8.6	***	-1.3	-2.2	-9.3	-2.5	5.1	-1.5	8.4
9	8.5	12.8	2.1	8.8	4.8	3.8	-0.3	-1.3	-3.1	7	3	6.9
10	5	13.4	4.9	8.3	1.8	0.4	2.7	-0.5	-5.1	7.3	3.6	5

11	9.6	13.3	9.1	5.4	7.2	-3.3	-0.1	-4.3	-1.5	9.4	7.1	3.8
12	12.8	13	6.3	4.9	2.1	0.3	6.4	4.2	3.5	4.9	8.6	10.4
13	11.4	10.8	7.7	8.4	1.5	1.1	5.9	6.9	2.5	3.6	12.7	8.7
14	10.7	11.7	11.6	8	2.9	1	-1	5.3	2	3.2	16.3	7.4
15	11.7	9.6	11.4	5	0.3	5.2	-3	1.5	3.4	4.7	12.7	13.9
16	9.5	11.5	7	4.1	-3.5	-1.3	-5.2	-1.8	0.5	5.8	10.8	11
17	13.3	11.2	6.6	6.3	-3.5	-3.4	-3.3	-0.2	7.8	2.7	9.8	11.9
18	11.4	12.4	10.6	6.7	-1.9	7.6	-3	-3.6	3.9	-0.6	8	12.9
19	12.1	13.2	9.1	5	-1	3	-3.1	0.1	3.3	6.3	7.7	11.1
20	10.8	10.6	6	2.3	6.7	-1.2	-2.6	9.7	1.5	-1	10.3	9.2
21	10	13.4	9.6	3.8	5.3	1.1	-1.6	4.3	-0.4	-5	3.7	7.7
22	11.7	10.5	9.3	2.8	3.5	-0.4	-2.5	2.3	1.7	-1.4	0.5	12.2
23	8.8	11	7.3	5.8	2.3	0	1	-1.4	7	2.9	2.2	9.4
24	8.2	11.3	7.3	13.8	3.3	0.4	-0.7	-1.1	5.8	4.5	6.8	12.5
25	9.4	6.2	7.5	10	1.6	2	0	4.6	12.7	6.7	13.1	11.7
26	9.8	3	5.5	3.4	-0.5	-1.2	-1.7	-1.9	7	7.6	12.6	13.3
27	10.3	10.2	5.5	***	-0.8	0.9	3.5	-4.5	4.7	9.1	10	12.5
28	7.8	9.8	8.3	***	4	-2.7	-0.3	-4.4	5.4	7.9	3.4	8.4
29	7.5	***	9.8	***	1.2	2.6	4.4	-2.8	-1.2	10.6	0.9	8.8
30	11	***	10.2	***	2.9	4.1	-0.3	6.5	0.1	6.3	8.1	13.6
31	8.2	***	8.5	***	2.9	***	-0.8	4.9	***	2.1	***	12.1
Avg	9.7	10.7	8.5	7.3=	1.9=	0.3	-1.2	-0.1	2.8	4	6.4	9.9

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2019 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.4	10.9	7.8	6.4	6.6	2.1	0.9	-5.2	-4.4	2.1	2	***
2	8.7	10.7	7.9	4.8	9.2	-0.2	-0.8	11.5	-0.1	0.5	11.5	***

3	7.1	9.6	9.6	6.4	11	-0.4	-3.4	3.4	1	9.1	9.2	***
4	11.7	8.1	9.8	9.6	4.8	1.3	-1.3	2.5	3.1	7.6	5.1	***
5	9.9	8	9.7	7.8	5.1	2.2	-1.3	3.8	0.4	2.3	7.4	4.3
6	6.7	8.7	12	7	9.5	0.2	-3.4	0	0.1	10.4	15.4	11.3
7	8.9	10	12	4.8	8	-3.6	3.9	2.1	1.3	5.8	***	10.4
8	13.4	14	11.4	7.3	3.1	1.1	-0.1	2	3.6	1.9	2.3	10.2
9	8.8	14	8.9	4.3	0.8	-1.1	-1.7	-4.7	3.9	5.5	3.1	10.1
10	11.6	14.2	6.1	5.9	-1	6	0.1	-2.5	2.7	3.1	10.9	10.4
11	7.9	11.7	9.7	6.6	1	2.1	1.8	7.5	4.4	-0.2	8.2	9.7
12	10.5	8.7	11.8	8.3	2	6.1	2.1	0.8	5.9	9.7	12.2	7.7
13	13.1	10.4	12.4	6.2	3.3	-3.3	0.6	-1.9	3.6	5.3	8.2	8.9
14	9.8	10.3	12.8	7.8	4.7	-4.6	0.7	-1.8	-1.2	2.5	7.6	10.4
15	10.7	12.7	9.8	5.6	6.2	-3.2	1.6	-3.1	3.6	8.3	5.9	4.7
16	10.4	10.5	8.3	3	8.4	-4	0.4	5.1	7.5	4.5	6.1	1.7
17	12.6	7.6	8.9	2.6	6.8	2	3.8	4	6.1	8.9	8.4	6.5
18	12.2	5.5	12.4	4.4	7.7	-1.8	5.4	1.5	8.8	12.5	6.3	13.7
19	7.6	8.3	10.6	7.1	7.2	-1.5	6.5	1.5	6.2	12.9	4.7	8.6
20	3.3	13.8	10.5	8.8	8.5	-0.1	-5.9	-3.6	12.9	10.5	4	9.8
21	7	10.1	8	5.6	2.4	2.8	-10	-0.9	15.6	4.7	7.7	13.1
22	14.5	10.4	7.1	7.3	-0.6	0	3.6	2.4	4.1	2.1	8	12.2
23	12.6	10.3	10.4	7.8	3.2	-4.1	6.8	0.8	-0.9	9.5	8.8	12.6
24	9.7	9.1	9.8	6.8	1.2	-4.6	-1.5	2.6	-0.8	5.6	8.9	15.1
25	6.7	7.1	8.3	5.8	3.3	-4.3	-3.3	8.8	-2.9	14.2	7.9	15.8
26	8	10	8.4	3.9	1.3	-4.4	-1.7	6.6	-1.5	12.1	6.3	16.8
27	7.5	7.6	6.6	3.6	3	5.1	2.3	4.6	1.9	9.8	8.5	8.9
28	8.2	8	10.6	3.3	2.1	7.6	1.2	-0.2	4	6	***	5.9
29	13.2	***	7.6	3.7	-0.8	5.7	-0.2	-1.8	5.5	0.7	***	11
30	12	***	7	3.1	-1.1	8.3	5.3	1.6	2.4	1.3	***	8.6
31	12.6	***	10.7	***	1.4	***	-3.1	-0.5	***	0.1	***	***
Avg	10	10	9.6	5.9	4.1	0.4	0.3	1.5	3.2	6.1	7.5=	9.9=

Daily Minimum Temperature (C) Data for station [0177176 4] - BARKLY-OOS (CAERLEON) -30.9310 27.6070 1818 m 2020 08:00 (Extracted 2023/06/29 10:17)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.6	14.8	10	6.6	***	-0.1	---	---	---	---	---	---
2	11.4	13.8	8.5	4	2.7	-1.2	---	---	---	---	---	---
3	13.2	12.2	5.5	7.9	3.8	1.1	---	---	---	---	---	---
4	16.4	11	8.5	8.5	3	-0.1	---	---	---	---	---	---
5	12.1	11.9	9.3	7.5	2.2	-1.3	---	---	---	---	---	---
6	13.4	13.2	8.4	8.9	0.9	-1	---	---	---	---	---	---
7	14.2	12.4	9	0.9	1.6	-1.6	---	---	---	---	---	---
8	13.9	12.4	10.5	-2.7	2.4	-1.2	---	---	---	---	---	---
9	12.3	10.8	10.2	3	0.8	-0.4	---	---	---	---	---	---
10	11.1	9.4	9.9	9.2	0.7	6.6	---	---	---	---	---	---
11	12.2	8.2	6.5	6.9	1.9	-0.5	---	---	---	---	---	---
12	13.2	7.8	10.1	10.2	1.1	***	---	---	---	---	---	---
13	10.7	9.6	9.2	5.2	0.9	***	---	---	---	---	---	---
14	9.4	12.5	10.3	5.8	-2.5	-5.7	---	---	---	---	---	---
15	8.7	11.3	9	3.6	1.6	-7.3	---	---	---	---	---	---
16	9.8	15	8.6	***	-2.5	-6.4	---	---	---	---	---	---
17	9.8	12.9	6.4	1.4	-0.9	-6.3	---	---	---	---	---	---
18	13.4	12.2	7	1	0.8	-3.7	---	---	---	---	---	---
19	11.4	10	9.3	5.4	4.1	-3.8	---	---	---	---	---	---
20	10.3	13.5	9.7	7.2	1.7	-2.1	---	---	---	---	---	---
21	11.8	10.5	7.9	10.4	0.2	-1.3	---	---	---	---	---	---
22	10.2	10	7.9	6.9	2.4	-2.8	---	---	---	---	---	---
23	8.7	4.8	11.3	4	0.5	-0.3	---	---	---	---	---	---
24	10.3	1.3	10.3	9	-0.1	-3.8	---	---	---	---	---	---
25	11.5	6.6	8.1	6.1	6.4	-0.2	---	---	---	---	---	---

26	9.1	10.1	5.9	5.6	-3.1	-0.2	---	---	---	---	---	---
27	7.8	11.8	4.2	6.7	-4	-0.2	---	---	---	---	---	---
28	4.1	6.7	3.7	***	-4.5	-1.9	---	---	---	---	---	---
29	8.9	5.1	7.8	***	2.4	-5.5	---	---	---	---	---	---
30	9.4	***	7.4	***	1.1	-3.7	---	---	---	---	---	---
31	13.8	***	***	***	0.4	***	---	---	---	---	---	---
Avg	11.1	10.4	8.3=	5.7=	0.9=	-2.0=						

Assessing the spatio-temporal patterns of road kills on selected routes between Komani and Kokstad

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