

APPENDIX D

TECHNICAL EVALUATION OF SUBSURFACE-TO-OUTDOOR AMBIENT AIR PATHWAY

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*Final Supplemental Remedial Investigation Report for Vapor Intrusion Pathway
Middlefield-Ellis-Whisman Study Area, Mountain View and Moffett Field, California*

**HALEY &
ALDRICH**

TABLE OF CONTENTS

LIST OF TABLES	ii
LIST OF FIGURES.....	iii
EXECUTIVE SUMMARY.....	iv
1 INTRODUCTION.....	1
2 SITE CONDITIONS.....	3
2.1 Location	3
2.2 Land and Resource Use.....	3
2.3 Hydrogeology	3
2.4 History of Environmental Investigation and Remediation.....	4
2.5 Basis for the Air Sampling Program	4
2.6 Remedy Implementation	5
3 SITE CONCEPTUAL MODEL	7
3.1 Sources of VOCs:.....	7
3.2 Chemicals of Concern	8
3.3 Pathways	8
3.4 Receptors.....	9
4 AIR SAMPLING PROGRAM	10
4.1 Types of Samples	10
4.2 Sampling Procedures.....	10
5 COMPARISON OF OUTDOOR AND BACKGROUND SAMPLE RESULTS	12
5.1 Statistical Parameters	12
5.2 Statistical Analyses	15
5.2.1 Non-Parametric Comparison.....	16
5.2.2 Parametric Comparison.....	16
5.3 Summary of Analyses	17
6 MODELING SUBSURFACE TO OUTDOOR AMBIENT AIR PATHWAY.....	18
6.1 Groundwater to Outdoor Ambient Air.....	18
6.2 Soil to Outdoor Ambient Air.....	19
6.3 Sensitivity Analyses.....	20
6.3.1 Sensitivity Analyses of Parameters in Groundwater to Outdoor Ambient Air Simulation.....	22
6.3.2 Sensitivity Analyses of Parameters in Soil to Outdoor Ambient Air Simulation	24
7 FLUX CALCULATIONS	28
7.1 Methods and Results	28
7.2 Discussion	29
7.3 Conclusions.....	30
8 CONCLUSIONS	31

REFERENCES

TABLES

FIGURES

ATTACHMENT A Statistical Analyses – Supporting Information

ATTACHMENT B RBCA Tool Kit – Groundwater to Outdoor Ambient Air

ATTACHMENT C RBCA Tool Kit – Soil to Outdoor Ambient Air

ATTACHMENT D Meteorological Data at Moffett Field Station

LIST OF TABLES

<u>Table No.</u>	<u>Title</u>
D5-1	TCE Concentrations in Outdoor Ambient Air
D5-2	TCE Concentrations in Background Outdoor Air
D5-3	Statistical Parameters for Outdoor and Background TCE Concentrations
D6-1	Average Wind Speeds at the Moffett Field Meteorological Station
D6-2	Parameters Selected for Sensitivity Analyses
D6-3	Results of Sensitivity Analyses for Groundwater-to-Outdoor Air Pathway
D6-4	Results of Sensitivity Analyses for Soil to Outdoor Air Pathway

LIST OF FIGURES

Figure No.	<u>Title</u>
D2-1	Site Location Map
D2-2	Former Buildings and Occupants (Circa 1987)
D2-3	MEW Companies Former Facilities South of U.S. Highway 101
D2-4	Location of RRWs, SCRWs and Groundwater Treatment Systems MEW Site
D2-5	Regional Recovery Wells, Conveyance Pipelines and Treatment System Location, RGRP North of U.S. Highway 101
D2-6	Location of Soil Cleanup Activities, MEW Facilities South of U.S. Highway 101
D3-1	Outdoor Inhalation Exposure
D5-1	Outdoor Sample Locations – Former MEW Companies Facilities
D5-2	Outdoor Sample Locations – Moffett Field
D5-3	Reference Sample Locations
D5-4	Background Sample Locations
D5-5	Comparison between Statistical Parameters for Outdoor and Background TCE Concentrations
D5-6	Comparison between Statistical Parameters for Outdoor and Background TCE Concentrations

List of Acronyms and Abbreviations

<u>Acronym</u>	<u>Description</u>
95 UCL	95% Upper Confidence Limit
ANOVA	analyses of variance
ASTM	American Society of Testing and Materials
BAAQMD	Bay Area Air Quality Management District
bgs	below ground surface
Canonie	Canonie Environmental
CD	Consent Decree
cis-1,2-DCE	cis-1,2-Dichloroethene
cm	centimeter
1,2-DCB	1,2-dichlorobenzene
1,1-DCE	1,1-dichloroethene
DTSC	Department of Toxic Substances Control
EA	Endangerment Assessment
EKI	Erler and Kalinowski, Inc.
EPA	U.S. Environmental Protection Agency
Five-Year Review	First Five-Year Review Report for the Site
f_{oc}	fraction of organic content
ft	feet or foot
HVAC	Heating, Ventilation, and Air Conditioning
kg	kilogram
LSD	Least Significant Difference
m	meter
MEW	Middlefield-Ellis-Whisman
mg/kg	milligram per kilogram
mg/L	milligram per liter
$\mu\text{g}/\text{m}^2/\text{min}$	microgram per square meter per minute
$\mu\text{g}/\text{m}^3$	microgram per cubic meter

List of Acronyms and Abbreviations

<u>Acronym</u>	<u>Description</u>
MRL	minimal risk level
NAS	Naval Air Station
NASA	National Aeronautics and Space Administration
ND	non-detect
NMAC	Northeast Mountain View Advisory Council
OEHHA	Office of Environmental Health Hazard Assessment
PCE	Tetrachloroethene or perchloroethene
Q/C	Air dispersion factor
RBC	risk-based concentration
RBCA	Risk Based Corrective Action
REL	reference exposure level
RfC	reference concentration
RGRP	Regional Groundwater Remediation Program
RI	Remedial Investigation
ROD	Record of Decision
RWQCB	Regional Water Quality Control Board
SCRW	source control recovery well
sec	seconds
SIM	select ion mode
The Site	Middlefield-Ellis-Whisman Study Area
SVE	soil vapor extraction
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
VC	vinyl chloride
VOCs	volatile organic compounds

APPENDIX D
TECHNICAL EVALUATION OF SUBSURFACE-TO-OUTDOOR
AMBIENT AIR PATHWAY
MIDDLEFIELD-ELLIS-WHISMAN STUDY AREA
MOUNTAIN VIEW AND MOFFETT FIELD, CALIFORNIA

1 INTRODUCTION

This appendix presents an evaluation of the subsurface to outdoor ambient air migration pathway for volatile organic compounds (VOCs) at the Middlefield-Ellis-Whisman (MEW) Study Area in Mountain View and at Moffett Field, California (the Site). This evaluation was originally presented to the Northeast Mountain View Advisory Committee on 20 April 2005. In its 18 November 2007 comments on the supplemental RI for vapor intrusion, the United States Environmental Protection Agency (EPA) requested that this evaluation be included in the revised RI document.

In its First Five-Year Review Report for the Site (Five-Year Review), the EPA concluded that, based on the results of air samples collected at the Site, "there does not appear to be an unacceptable short-term or long-term health risk to outdoor ambient air" from subsurface volatilization into the outdoor ambient air (EPA, 2004). EPA also found that outdoor ambient air quality in the vicinity of the Site is generally similar to the outdoor air quality in other urban environments in the San Francisco Bay Area. Specifically, EPA stated that "[o]utdoor air quality in areas over the TCE groundwater plume area is generally consistent with background outdoor air quality outside the TCE groundwater plume area". However, EPA also noted that existing data sets could be used to further evaluate the subsurface-to-outdoor ambient air pathway and that EPA is considering further evaluation of this potential pathway.

To evaluate the impact of the groundwater plume and post-cleanup soils on outdoor ambient air, this appendix provides the following lines of evidence:

1. A comparison of statistical parameters for outdoor ambient air samples collected at the Site, and for background outdoor air samples collected from locations between 0.25 and 2 miles from the Site
2. Statistical analyses comparing the concentrations of VOCs in outdoor ambient air to background concentrations;
3. A simulation of the groundwater-to-outdoor ambient air potential pathway;
4. A simulation of the soil-to-outdoor ambient air potential pathway; and
5. Calculations of outdoor ambient air concentrations from flux measurements.

For this Site, EPA is using interim action levels for TCE as follows:

1. 2.7 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in commercial structures.

2. $1 \mu\text{g}/\text{m}^3$ in residences.

Results of the analyses listed above are compared to these interim action levels.

2 SITE CONDITIONS

This chapter provides background information for the Site, including descriptions of the physical characteristics, land and resource uses, and a summary of environmental investigations and remedial actions.

2.1 Location

The Site is located around Middlefield Road, Ellis Street, Whisman Road, and U.S. Highway 101 in Mountain View, Santa Clara County, California (Figure D2-1). Historically, several companies conducted manufacturing operations that required storing, handling, and using of chemicals, including VOCs, in the MEW Area of the Site South of Highway 101. These companies are referred to as MEW Companies in this document. Former Naval Air Station (NAS) Moffett Field (Moffett Field) is located just north of U.S. Highway 101.

2.2 Land and Resource Use

Beginning in the mid 1800s, the area in Mountain View south of U.S. Highway 101 was used primarily for agricultural purposes. Agricultural uses of the area continued until 1959, when it began to be developed with light-industrial facilities (Figure D2-2). Since 1959, operations in the area have included semiconductor and electronics manufacturing, and metal finishing; activities that required the use of chemicals, particularly solvents. Some of the chemicals leaked from their containers or were otherwise released to the subsurface. All of the MEW Companies have ceased operations at the Site, and many of their former facilities have changed ownership and occupancy (Figure D2-3).

North of U.S. Highway 101, Moffett Field was commissioned in 1933. The National Aeronautics and Space Administration (NASA) Ames Research Center, located adjacent to Moffett Field and north of the highway, was originally opened in 1940 as a laboratory of the National Advisory Committee on Aeronautics. The Navy operated continuously at NAS Moffett Field until it transferred most of the facility (with the exception of Orion Park and Wescoat Housing areas) to NASA in July 1994 [Erlor & Kalinowski, Inc. (EKI), 2001].

2.3 Hydrogeology

Groundwater aquifers within the Site consist of shallow and deep aquifer systems separated by a laterally extensive aquitard approximately 40 feet thick. The shallow aquifer system is generally less than 160 feet below ground surface (bgs) south of U.S. Highway 101 and generally less than 100 feet bgs north of U.S. Highway 101. Subdivisions within the shallow aquifer have been designated the "A/A1", "B1/A2", "B2" and "B3" aquifers. The regional aquitard is designated the "B/C" aquitard. The zones below the "B/C" aquitard are termed the "C" aquifer and the Deep aquifers. Groundwater flow in the shallow aquifer zone is generally to the north, while flows in the "C" and Deep aquifers are generally to the northeast. The shallow and deep aquifer systems at the Site are not used for drinking water.

Aquifer Zone	Approximate Depth Interval Below Ground Surface
"A" [or "A/A1"]	0 to 45 feet
"B1" [or "B1/A2"]	50 to 75 feet
"B2"	75 to 110 feet
"B3"	120 to 160 feet
"C"	200 to 240 feet
"Deep"	Generally deeper than 200 feet

The direction of groundwater flow at the Site is generally to the north. However, the construction of underground slurry walls and recovery wells has altered the direction of groundwater flow locally in certain areas (e.g., the groundwater may flow to the west or east around slurry walls).

2.4 History of Environmental Investigation and Remediation

The Site includes locations of several current and former industrial facilities where operations have included semiconductor and electronics manufacturing, metal finishing, and other activities that required the use of chemicals. While in operation, a variety of chemicals, particularly solvents, were stored, handled, and used of a variety of chemicals. Some of the chemicals leaked from their containers or were otherwise released to the subsurface. In 1981, Intel Corporation and Fairchild Semiconductor Corporation initiated the first subsurface investigations at the Site. Data obtained from this investigation revealed that VOCs were present in the groundwater and subsurface soil. At approximately the same time, other companies conducted separate investigations at nearby sites and confirmed the presence of similar VOCs in soil and groundwater. Since then, the MEW Regional Groundwater Remediation Program (RGRP) and the MEW Companies, the Navy and NASA have installed numerous monitoring wells to complete the groundwater investigation. Monitoring wells continue to be monitored by the MEW Companies, the U.S. Navy, and NASA.

The MEW Companies, the Navy, and NASA have also implemented a number of onsite source control and groundwater remedial actions: removal of solvent piping and below-ground solvent storage facilities, closure of all waste solvent holding sumps, installation of soil vapor extraction systems and groundwater extraction and treatment systems, excavation of impacted soils, and construction of four slurry walls to control the migration of chemicals.

2.5 Basis for the Air Sampling Program

An endangerment assessment (EA) (ICF-Clement, 1988) by EPA evaluated whether the Site poses a hazard to human health or the environment. The report concluded that there is no imminent or substantial endangerment associated with contact with surface soils. The EA identified the only potentially significant exposure pathway as that to groundwater containing chemicals; however, there were and are no water supply wells within the MEW plume.

The ROD for the Site was issued in May 1989. The ROD set the cleanup levels for soils containing TCE at 1 milligram per kilogram (mg/kg) for soils contained within slurry walls and 0.5 mg/kg for soils outside slurry walls. For groundwater, the ROD specifies a cleanup level of 0.005 mg/L TCE in the shallow aquifers and 0.0008 mg/L TCE in the deep aquifers.

Chemicals of concern defined in the Record of Decision (ROD) for the Site are:

- trichloroethene (TCE)
- 1,2-dichloroethene (cis and trans isomers – cis-1,2-DCE and trans-1,2-DCE)
- 1,1,1-trichloroethane (1,1,1-TCA)
- 1,2-dichlorobenzene (1,2-DCB)
- chloroform
- vinyl chloride (VC)

- Freon 113
- 1,1-dichloroethane (1,1-DCA)
- tetrachloroethene or perchloroethene (PCE)
- 1,1-dichloroethene (1,1-DCE)
- phenol

In addition, the ROD lists four metals as chemicals of concern: antimony, arsenic, cadmium, and lead.

On 3 October 2002, EPA requested additional air sampling data to further evaluate the potential migration of VOCs from the groundwater to indoor air in commercial buildings at the MEW Companies' former facilities, as the 1988 EA for the Site did not provide a quantitative evaluation of the groundwater-to-indoor air exposure pathway. Also, toxicity factors for one of the chemicals of concern, TCE, had been reassessed since the EA were prepared and the facility-specific risk assessments were conducted (Harding Lawson Associates (HLA), 1999; Smith, 1997; and Locus, 1997). To assist EPA's evaluation of the protectiveness of remedial actions at the Site, EPA requested a work plan to conduct a human health risk assessment to evaluate the groundwater-to-indoor air exposure pathway by collecting air samples. The final work plan was submitted to EPA in April 2003 (Locus, 2003a).

2.6 Remedy Implementation

Remediation at the Site includes mitigation measures that address chemicals in the groundwater, soils, and air. These mitigation measures were and are performed according to specifications established pursuant to the ROD.

Since subsurface investigations were initiated at the Site in 1981, substantial groundwater and soil monitoring and remediation have been completed. Remedial investigation efforts have included soil gas collection, over one thousand soil borings, and thousands of soil and water samples. The extensive investigation provided accurate delineations of unsaturated soils requiring cleanup and defined the horizontal and vertical boundaries of the MEW plume.

Based on the extensive remedial investigation studies, the MEW Companies have implemented soil and groundwater remediation programs that have included soil excavation and treatment, installation of soil-bentonite cutoff walls, soil vapor extraction (SVE), in-situ chemical oxidation, and groundwater extraction and treatment.

Starting as early as 1982, the MEW Companies, the Navy and NASA have constructed and operated groundwater extraction and treatment systems to control source areas and to remove VOCs from the aquifers. Remedial actions at the Site have reduced soil concentrations to below ROD cleanup standards and have substantially reduced the groundwater concentrations of TCE and other VOCs. Investigation and remediation efforts have been described in detail in numerous reports, and have been summarized primarily in the MEW Remedial Investigation (RI) Report, (HLA, 1988), the Feasibility Study (Canonie, 1988), and the Two-Year Evaluation reports (Locus, 2000b and 2001), and the five-year evaluation reports [EPA, 2004; Locus, 2003d-f; Geosyntec, 2003c; Geomatrix, 2003b; Weiss, 2004b; PES Environmental, Inc. (PES), 2003b].

Recovery wells operated by individual companies for the purpose of controlling chemical sources are referred to as Source Control Recovery Wells (SCRWs). SCRWs are installed and operated by the entity responsible for the chemical source area. For more details on the remedial measures implemented at the Site, the reader should refer to facility-specific reports, the regional design report (Smith, 1996a and b), and the operation and maintenance plans (Locus, 1999 and 2000a). The locations of regional and source control recovery wells and

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*Appendix D: Evaluation of Subsurface to Outdoor Air Pathway
Final Supplemental Remedial Investigation for Vapor Intrusion Pathway
Middlefield-Ellis-Whisman Area and Moffett Field, California*

groundwater treatment systems are shown on Figures D2-4 and D2-5. Areas where soil remediation was implemented are shown on Figure D2-6.

3 SITE CONCEPTUAL MODEL

The site conceptual model identifies sources, chemicals of concern, potential exposure pathways, and receptors. This site-specific conceptual model includes figures and written descriptions illustrating the current understanding of where VOCs may be volatilizing from sources and how the chemicals may be transported from the point of release to the point where people could inhale them.

3.1 Sources of VOCs:

For a worker or resident at the Site, potential inhalation exposure may have a number of sources. For outdoor exposure, these sources could be one or a combination of the following:

1. Volatilization from the subsurface (soil and/or groundwater) to the outdoor ambient air,
2. Contribution from background outdoor air,
3. Emissions from industries.

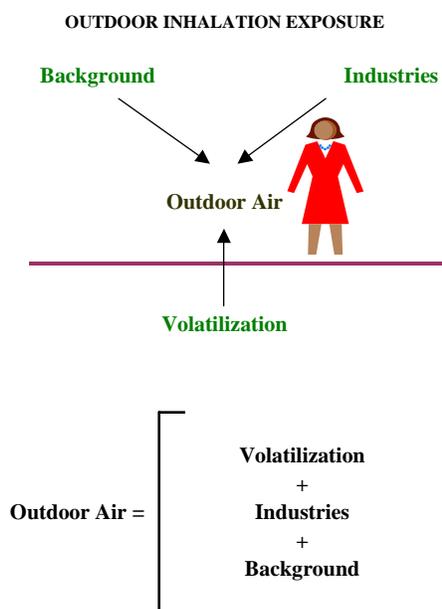
Subsurface Sources: The Site includes locations of several current and former semiconductor and other manufacturing and industrial facilities.

Beginning in the mid 1800s, the area in Mountain View south of U.S. Highway 101 was used primarily for agricultural purposes. Agricultural uses of the area continued until 1959, when it began to be developed with light-industrial facilities (Figure D2-2). Since 1959, operations in the area have included semiconductor and electronics manufacturing, and metal finishing; activities that required the use of chemicals, particularly solvents. Some of the chemicals leaked from their containers or were otherwise released to the subsurface. All of the MEW Companies have ceased operations at the Site, and many of their former facilities have changed ownership and occupancy (Figure D2-3).

North of U.S. Highway 101, Moffett Field was commissioned in 1933. The National Aeronautics and Space Administration (NASA) Ames Research Center, located adjacent to Moffett Field and north of the highway, was originally opened in 1940 as a laboratory of the National Advisory Committee on Aeronautics. The Navy operated continuously at NAS Moffett Field until it transferred most of the facility (with the exception of Navy housing – Orion Park and Wescoat Housing areas) to NASA in July 1994 (Erler & Kalinowski, Inc. (EKI), 2001).

Potential impacts from sources in the subsurface have been reduced significantly since their discovery in 1981 because of the remedial measures implemented by the MEW Companies, the Navy, and NASA. Soil and groundwater remediation programs implemented at the Site have included soil excavation and treatment, installation of soil-bentonite cutoff walls, soil vapor extraction (SVE), in-situ chemical oxidation, and groundwater extraction and treatment. Remedial actions at the Site have reduced soil concentrations to below ROD cleanup standards and have substantially reduced the groundwater concentrations of TCE and other VOCs.

Figure D3-1



Background Outdoor Sources: TCE and other VOCs can still be found in commercial products that are used commercially or in homes (e.g., degreasers, dry cleaning solvents). Emissions from these products contribute VOCs to the background outdoor air. The Bay Area Air Quality Management District (BAAQMD) operates approximately 20 monitoring stations in the Bay Area. Air samples are collected from these stations every two weeks and are analyzed for VOCs and other airborne chemicals. The background air quality data show that TCE concentrations have decreased significantly since the time the stations were first monitored (in the 1980s), though TCE is still being detected in some stations.

The BAAQMD recently installed a monitoring station in Whisman Park in Mountain View. Monitoring of this station showed TCE concentrations as high as $0.53 \mu\text{g}/\text{m}^3$. Before the Whisman Park air monitoring station was installed, the closest monitoring station to the MEW site was located at 160 Cuesta Drive, approximately 2 miles from the Site. This monitoring station was abandoned in 2000. While the station was in operation, ambient air sampling was conducted at this station approximately every twelfth day. Summary data for the most recent three years (1997- January 2000) for TCE, PCE, chloroform, 1,1,1-TCA, and VC are as follows:

- TCE concentrations ranged from undetected ($<0.44 \mu\text{g}/\text{m}^3$) to $7.4 \mu\text{g}/\text{m}^3$. TCE was detected in 12 of 89 samples.
- PCE concentrations ranged from a minimum concentration of $0.07 \mu\text{g}/\text{m}^3$ to a maximum concentration of $4.7 \mu\text{g}/\text{m}^3$. PCE was detected in all samples.
- Chloroform concentrations ranged from undetected ($<0.1 \mu\text{g}/\text{m}^3$) to $89 \mu\text{g}/\text{m}^3$. Chloroform was detected in 13 of 89 samples.
- 1,1,1-TCA concentrations ranged from undetected ($<0.34 \mu\text{g}/\text{m}^3$) to $6.5 \mu\text{g}/\text{m}^3$. 1,1,1-TCA was detected in all but one of the 89 samples.
- VC concentrations were below the detection limit of $0.78 \mu\text{g}/\text{m}^3$ for all 89 samples.

As part of the MEW air sampling program, a total of 163 background outdoor air samples were collected from a number of locations around the MEW site at the same time that indoor and outdoor ambient air samples were collected in and outside buildings over the MEW plume. Results from these samples are discussed later in this document.

Emissions from Industries: These industries include dry cleaners, car service stations, or any others that use VOCs in their operations.

3.2 Chemicals of Concern

Air samples were analyzed for chemicals of concern as defined in the ROD. These include TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, 1,2-DCB, chloroform, VC Freon 113, 1,1-DCA, PCE, and 1,1-DCE.

3.3 Pathways

Inhalation: Volatile chemicals may evaporate (or volatilize) from the groundwater or soil, migrate upward through soil and into the outdoor ambient air. Additional sources of VOCs in outdoor air include background concentrations and emissions from industries. This appendix describes an evaluation of the exposure pathway of Site occupant inhalation of VOCs from outdoor ambient air. An evaluation of the exposure to indoor air is not evaluated in this appendix, but a detailed evaluation is provided in the main Supplemental RI document.

Other Pathways: An EA (ICF-Clement, 1988) by EPA evaluated whether the Site poses a hazard to human health or the environment. The report concluded that there is no imminent or substantial endangerment associated with contact with surface soils. The EA identified the only potentially significant exposure pathway as that to groundwater containing chemicals; however, there were and are no water supply wells within the MEW plume. As these pathways have been evaluated in the EA, and are not discussed further in this document.

3.4 Receptors

Potential receptors are workers and residents at the Site.

4 AIR SAMPLING PROGRAM

On 3 October 2002, EPA requested a work plan "to conduct a human health risk assessment to evaluate the groundwater-to-indoor air exposure pathway by collecting indoor air, outdoor ambient air, and soil gas samples at each Facility." In response, the MEW Companies submitted a unified work plan on 2 December 2002 (Locus, 2002), followed by a revision on 16 April 2003 (Locus, 2003a) that included responses to EPA's 17 February 2003 comments. NEC chose to submit a separate work plan (Geosyntec, 2003a), though it is similar to the unified work plan. NASA initiated a vapor intrusion study in accordance with its own work plan (MACTEC, 2003a) and addenda (MACTEC 2003b and 2004). The Navy also submitted a work plan for its own air study (Navy, 2003b). Results were submitted to EPA in several reports (Locus, 2004a-c and 2006; Weiss 2003 and 2004a; PES 2003a and 2004; Geomatrix, 2003a and 2004; Geosyntec 2003b, 2004a and b, and 2005; Navy 2004a and b; NASA 2005a and b).

4.1 Types of Samples

The following types of air samples were collected at the Site:

Indoor Samples: These samples were collected in areas typically occupied by workers, at breathing zone height. The results were used to estimate potential worker exposure to VOCs.

Pathway Samples: These samples were collected in areas where potential conduits were observed that might provide a direct route for VOC vapor migration into a building. Examples of these potential conduits include utilities, cracks in the floor, and open sumps. Results of samples in these areas represent localized preferential pathways, and are not representative of exposure point concentrations to occupants. The data collected from these samples are used to evaluate whether localized mitigation is necessary.

Outdoor Samples: These samples were collected outside buildings (e.g., at HVAC unit inlets). The results from these samples can be compared to those from indoor samples to evaluate the potential contribution of VOCs from outside air to indoor air.

Background Outdoor Samples: These samples were collected by the RGRP outdoors at distances of 0.25 to 1.5 miles away from the MEW Site to assess background levels of VOCs in outdoor air.

Quality Assurance Samples: These samples were collected to maintain an acceptable level of quality assurance. Quality Assurance Samples included field duplicates, field blanks, and laboratory control samples.

4.2 Sampling Procedures

Approximately 2,800 air samples have been collected at the Site from 58 residences and 47 commercial buildings. Sampling locations were selected on pre-sampling walkthroughs with EPA.

South of U.S. Highway 101, samples were collected from 25 commercial buildings in the spring and fall of 2003. Two rounds were collected from each building in each season separated by a one-week period. The air samples were analyzed by accredited laboratories using EPA Method TO-15 select ion mode (SIM) for up to 11 chemicals, depending on those detected in the groundwater beneath each facility. The chemical analyte lists included TCE; cis-1,2-DCE; VC; trans-1,2-DCE; chloroform; 1,1-DCE; 1,1-DCA; PCE; Freon 113; 1,1,1-TCA; and 1,2-DCB. Before sampling started, the laboratory cleaned and certified each canister and the corresponding flow controller and filter to SIM-level reporting limits for the chemicals listed above. Air samples were collected over a period typical of worker exposure. Some background outdoor samples were collected over a 10-hour period, with others over 12-hour or 24-

hour periods. Five additional commercial buildings on properties not previously occupied by the MEW Companies were sampled in 2004, and one more was sampled in 2006.

In June 2003, NASA began an extensive air sampling program, including more 1,400 samples, in which samples were collected from six buildings (15, 16, 17, 20, N210, and N243) on Moffett Field and from outdoor and background locations. A combination of 24-hour and 8-hour samples was collected. Subsequently, NASA collected samples from three additional buildings (N11, N239A and N259). The Navy sampled four residences in the Wescoat Housing Area of Moffett Field. In 2006, after the Wescoat Housing Area was redeveloped, samples were collected from 38 residences. Of these 38 residences, 10 are over or within 100 feet of the TCE plume.

5 COMPARISON OF OUTDOOR AND BACKGROUND SAMPLE RESULTS

Air samples have been collected and analyzed at the Site to evaluate the potential for VOC vapors to migrate from the subsurface into buildings and into outdoor ambient air. As part of the evaluation, two types of outdoor air samples were collected:

Outdoor Ambient Samples: These samples were collected outside buildings at the Site to evaluate the potential contribution of VOCs from outside air to indoor air. Figures D5-1 and D5-2 show the locations of the outdoor ambient air samples used for the subsurface-to-outdoor ambient air analyses.

Background Outdoor Samples: These samples were collected outdoors at a distance of 0.25 to 1.5 miles away from the MEW Site to assess background outdoor levels of VOCs. They include the background outdoor samples as well as EPA-designated "reference" samples. Figures D5-3 and D5-4 show the locations of these samples used for the subsurface-to-outdoor ambient air analyses.

The primary background and outdoor ambient air sample TCE data are summarized in Tables D5-1 and D5-2, respectively. Section 4.6.4 of the RI compares primary samples with duplicate and split samples, finding a high correlation between primary and duplicate samples. Therefore, primary samples are used in the analyses below.

5.1 Statistical Parameters

These air sample datasets were compiled for all sampled facilities, and representative statistical parameters were calculated separately for outdoor samples taken from locations over the MEW plume and for background samples.

The parameters are as follows:

Median: The median is that value separating the highest half of the sample set from the lowest half. To find the median, the data are arranged from lowest value to highest value, and the middle one is found. The median is used primarily for skewed distributions -- the majority of the data are either lower or higher than the mean (defined below) -- which it represents more accurately than the arithmetic mean.

Arithmetic Mean: This is the simple arithmetic average, equal to the sum of all values divided by the number of values. For a data set $X = \{X_1, X_2, \dots, X_N\}$, where N is the number of samples,

$$\text{Mean (arithmetic)} = [X_1 + X_2 + \dots + X_N] / N \quad 5-1$$

While the arithmetic mean can be a useful tool for evaluating a normally-distributed data set, it also may be influenced by outliers (a single observation significantly inconsistent with the rest of the data). In such cases, the mean is substantially different from the median, and the median is a superior statistical indicator.

Geometric Mean: The geometric mean is the product of all data points in the data set, raised to a power equal to the reciprocal of the number of data points. For a data set $X = \{X_1, X_2, \dots, X_N\}$, where N is the number of samples:

$$\text{Mean (geometric)} = [(X_1) \times (X_2) \times \dots \times (X_N)]^{1/N} \quad 5-2$$

The geometric mean is useful to determine a central tendency of a dataset and is not significantly influenced by outliers.

To illustrate the difference between the arithmetic mean and the geometric mean, consider this data set:

$$(3, 4, 5, 3, 6, 8, 3, 5, 2, 100).$$

For these data, $\{X_1, X_2, X_3, X_4, \dots, X_N\} = \{3, 4, 5, 3, \dots, 100\}$, and $N = 10$.

From equation 5-1:

$$\text{The arithmetic mean} = [3+4+5+3+6+8+3+5+2+100]/10 = 13.9.$$

From equation 5-2:

$$\text{The geometric mean} = [3 \times 4 \times 5 \times 3 \times 6 \times 8 \times 3 \times 5 \times 2 \times 100]^{1/10} = 5.5.$$

In this case, the geometric mean better represents the complete data set than the arithmetic mean. The arithmetic mean skewed the average towards the single outlier.

Percentile: The percentile (e.g., 25th or 75th) of a dataset is the value where the remainder of the dataset exceeds that percentile. For example, the 75th percentile is the value where 25 percent of the data exceeds that percentile.

Standard Deviation: The standard deviation describes how far a typical data value is from the average value of that dataset. The standard deviation σ is computed as follows:

$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - x_N)^2}, \quad 5-3$$

where N is the number of samples, x_i is the value of each discrete sample, and x_N is the arithmetic mean of the data set. A large standard deviation suggests that a typical data value is far away from the mean. A small standard deviation suggests that data values are clustered closely around the mean.

Maximum/minimum: These define the extremes of the dataset (low and high).

Comparison of Statistical Parameters: These statistical parameters were computed for two Site datasets:

1. Background outdoor samples, and
2. Outdoor ambient air samples collected at the Site.

The statistical parameters are shown in Table D5-3 and Figure D5-5.

Table D5-3: Statistical Parameters for Outdoor and Background TCE Concentrations

Statistical Parameter	Outdoor	Background
Arithmetic Mean	0.38	0.37
Geometric Mean	0.20	0.23
25th Percentile	0.14	0.18
Median	0.19	0.25
75th Percentile	0.27	0.27
Maximum	18	9.9
Minimum	0.022	0.03
Standard Deviation	1.07	0.84
No. of Data Points	386	300

Figure D5-5

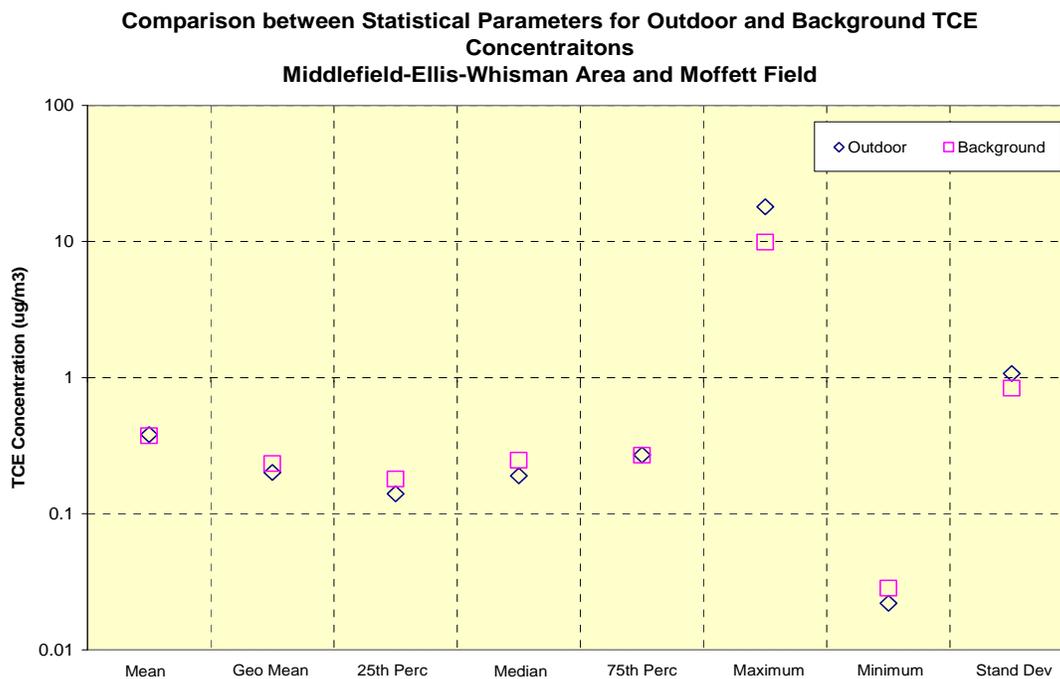
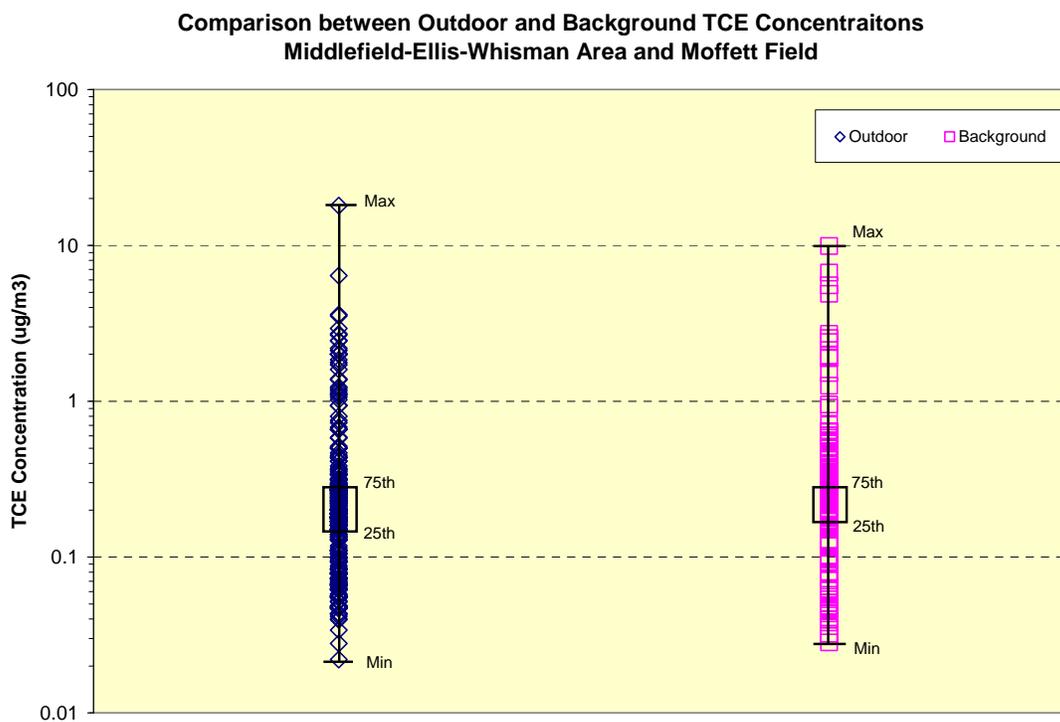


Figure D5-6



According to these statistical analyses, there do not appear to be any significant differences between the background and outdoor data sets. This finding is consistent with the conclusion in the Five-Year Review that outdoor ambient air quality over the TCE groundwater plume is similar to outdoor air quality outside of the plume.

Figure D5-6 (above) graphically presents the TCE concentrations in the outdoor and background samples collected at the Site. In this figure, the ranges of values for each of the data sets appear to be similar.

If the groundwater plume were a source of TCE to the outdoor ambient air, the outdoor ambient air concentrations over the plume would be higher than those outside of the plume. This does not appear to be the case for these data.

To substantiate these observations, more robust statistical analyses were performed, and are discussed in the following section.

5.2 Statistical Analyses

Statistical analyses were performed to compare outdoor ambient air concentrations of TCE to background outdoor concentrations and to confirm observations from the comparison of statistical parameters. The analyses provide a statistical evaluation of the potential impact from the Site on outdoor concentrations. Both the parametric and non-parametric comparisons described in detail below yield results indicating that outdoor TCE concentrations at the Site are not significantly higher than background outdoor air concentrations. Attachment A provides additional details on the statistical computations.

A total of 386 outdoor and 300 background primary samples were collected. TCE was detected in 229 of 386 (59%) outdoor samples and 102 of 300 (34%) of background samples (does not include duplicate samples – See section 4.6.4 of the RI). Detection limits for the outdoor air samples ranged from 0.043 to 0.29 $\mu\text{g}/\text{m}^3$, with an average of 0.19 $\mu\text{g}/\text{m}^3$. Detection limits for the background samples ranged 0.043 to 0.95 $\mu\text{g}/\text{m}^3$, with an average detection limit of 0.23 $\mu\text{g}/\text{m}^3$. Statistical comparisons were made using only detected concentrations. Detected concentrations for each group ranged from 0.022 to 18 $\mu\text{g}/\text{m}^3$ for outdoor samples, and 0.028 to 9.9 $\mu\text{g}/\text{m}^3$ for background samples.

Comparison between outdoor and background was limited to detected concentrations because accurate TCE concentrations are unknown for the non-detect result. Non-detect results in one dataset are equivalent to those in the other because the TCE concentrations are known only to be lower than the reporting limit. Excluding the non-detect results leads to statistical comparisons of only the data with higher (and more distinct) values. Statistical hypothesis tests are influenced by sample size, variability, and the magnitude of the difference to be detected between groups. Excluding the larger and most similar portions of the data increases the difference between the remaining data, as well as increasing the variability and decreasing the sample sizes. Although these factors may reduce the power of statistical tests to detect a difference, this is countered by evaluation of only the most distinct portions of the data.

Considering the similar range of detection limits, more than 40% of these datasets are equivalent (41% non-detect for outdoor and 66% non-detect for background outdoor), and according to the results of multiple statistical tests, there is no evidence that on-site outdoor ambient air TCE concentrations are significantly higher than background outdoor concentrations. A significance level, or probability p-value, of 0.05 was used (95% confidence) in all statistical tests conducted. A p-value less than 0.05 indicate that there is a low probability of the null hypothesis being true, and provides evidence in favor of the alternative hypothesis. A p-value greater than 0.05 indicates no evidence against the null hypothesis. In comparisons between outdoor and background air concentrations, one-sided hypotheses were used to specifically test whether on-site outdoor concentrations

were higher than background outdoor concentrations, as opposed to testing whether concentrations were simply different.

5.2.1 Non-Parametric Comparison

The Wilcoxon rank-sum test is a non-parametric test for comparing two data sets. Non-parametric methods make no assumptions about the distribution of the data. A one-sided test was used to test the null hypothesis that the sum of the ranks of the outdoor samples is equal to or lower than the sum for the background samples. This is tested against the alternative hypothesis that the sum of the ranks for outdoor samples is greater than the background rank sum.

Test results using only detected concentrations indicate outdoor concentrations are not significantly higher than background outdoor concentrations ($p = 0.998$) (Table A-1, Attachment A). A p-value of 0.998 is far greater than 0.05; thus, there is no evidence against the null hypothesis and this test concludes that concentrations over the MEW plume are not significantly higher than concentrations in areas outside of the plume.

5.2.2 Parametric Comparison

A single factor analysis of variance (ANOVA) was also used to determine if there is a significant difference between background and outdoor ambient air concentrations. ANOVA is a two-sided method; it tests for any difference between the two groups and must be followed by a multiple comparison test to determine whether a significant difference is in a meaningful direction, specifically whether outdoor concentrations are greater than background. Multiple comparison methods need only be used if the initial ANOVA result concludes a significant difference exists.

The ANOVA method has underlying assumptions that must be met by the data for the method to produce meaningful results, specifically homogeneity of variance and normality of the two datasets. Homogeneity of variance means that the variability in each group is approximately equal. Both assumptions are most easily checked using residual plots, although variance and goodness-of-fit tests can also be used. If these assumptions are not met initially, data transformations can be applied to meet them. A log transformation is commonly used with concentrations, and was used here.

An F-test using the ratio of the log-transformed variances for the two groups provided no evidence against equal variance ($p = 0.85$) (Table A-2, Attachment A). In addition, the Shapiro-Wilks goodness-of-fit test was used with each dataset to test for normal and log-normal distributed data. Although neither dataset explicitly passed the goodness-of-fit tests for either distribution (p ranged from <0.0001 to 0.0007) (Table A-2, Attachment A), the residuals from the ANOVA based on log-transformed detected concentrations appear to be normally distributed. The residual plots also show even variability for both datasets. Table A-2 and Figures A-1 and A-2 in Attachment A provide a summary of the assumption test results and residual plots.

The ANOVA based on log-transformed detected concentrations concludes a significant difference between the two datasets ($p = 0.028$) (Table A-1, Attachment A), but a multiple comparison test is required to check the direction of the difference. Fisher's least significant difference (LSD) test was used to determine the direction of the difference, specifically whether outdoor concentrations are significantly higher than background outdoor. Fisher's test does not provide a p-value, but rather provides the confidence limits around the difference between the two groups. Given the one-sided hypothesis (testing for outdoor concentrations significantly higher than background) and a difference calculated as background minus outdoor, only the upper confidence limit is necessary. If outdoor concentrations were significantly higher than background then both the difference (background minus outdoor) and the upper confidence limit on the difference would be negative. The upper confidence limit on the difference is greater than zero (0.228) (Table A-1, Attachment A), therefore this test

concludes that outdoor concentrations are not significantly higher than background. This assessment, similar to the non-parametric test, shows that concentrations over the MEW plume are not significantly elevated compared to concentrations in areas outside of the plume.

5.3 Summary of Analyses

If the groundwater plume were a source of VOCs in the outdoor ambient air, the outdoor ambient air concentrations over the plume would be significantly higher than those outside of the plume. Comparison of the statistical parameters and the statistical evaluations provides compelling evidence that outdoor air concentrations of TCE in areas over the MEW plume are not significantly elevated compared to background outdoor air concentrations of TCE in areas outside of the plume. This indicates that the MEW plume is not a significant source of TCE to outdoor ambient air.

6 MODELING SUBSURFACE TO OUTDOOR AMBIENT AIR PATHWAY

This chapter provides additional evidence that the MEW plume is not a significant source of VOCs in the outdoor ambient air by using the American Society of Testing and Materials (ASTM) Risk Based Corrective Action (RBCA) Tool Kit. This Tool Kit is a state-of-the-art modeling package that uses site-specific input parameters to simulate, among other things, volatilization from groundwater and soils to outdoor ambient air. The RBCA Tool Kit was used for the following simulations:

Volatilization from groundwater to outdoor ambient air. This simulation was performed to further assess whether the groundwater plume may be contributing chemicals to outdoor ambient air.

Volatilization from soils to outdoor ambient air. This simulation evaluates the potential contribution of VOCs to outdoor ambient air from soils at the MEW Site with an assumed concentration equal to the soil cleanup level established in the ROD.

The RBCA Tool Kit considers the phased steady-state partitioning of dissolved organic constituents from groundwater or soil to the soil vapor phase, the soil vapor flux to ground surface, and the dispersion of released vapors into the ambient air breathing zone directly over the groundwater plume or at some other receptor point.

The groundwater-to-outdoor air and soil-to-outdoor air simulations are conservative because an infinite source and no degradation of constituents in either groundwater or soil vapor are assumed. Further, the model assumes soil concentrations equal to the ROD cleanup standards, even though post-remediation confirmation samples demonstrated soil concentrations were well below these standards.

6.1 Groundwater to Outdoor Ambient Air

To assess the potential contribution of the MEW groundwater plume to outdoor ambient air, the RBCA Tool Kit requires several input parameters, which were selected based on the information collected from the MEW Site. These input parameters are discussed below. Printed copies of the simulations and the input parameters are included in Attachment B.

Groundwater Parameters: The Five-Year Performance Review Report for the RGRP (Locus, 2003d) provides an estimate of the mass of dissolved TCE in the A aquifer. The average concentration of TCE (C_{TCE}) in the A aquifer is obtained by dividing the mass of TCE (M_{TCE}) in the aquifer by the volume of water in the aquifer (V_w) within the plume boundary.

$$C_{TCE} = M_{TCE}/V_w \quad 6-1$$

The average concentration is calculated because the RBCA Tool Kit is used to estimate an overall contribution from the whole plume, which can be represented by the average TCE concentration across the plume.

From Appendix F of the Five-Year Performance Review Report, the mass of TCE in the "A" Aquifer in 2002 (the most recent year for which estimates are available) is estimated to be 539 kilograms (kg). The volume of groundwater within the plume boundaries is 1,951,000 m³ (Area of plume = 1,423,000 m², average thickness of "A" Aquifer formation is 4.57 m, and the porosity = 0.3). Then, from equation 6-1 the average concentration of TCE in the aquifer, in milligrams per liter (mg/L), is,

$$C_{TCE} = 539 \text{ kg} / 1,951,000 \text{ m}^3 = 2.8 \times 10^{-4} \text{ kg/m}^3 = 0.28 \text{ mg/L}$$

The RBCA Tool Kit also requires the width of the plume, which is approximately 730 meters.

Soil Parameters: The depth to groundwater varies across the Site. An average depth of 13 feet (4 m) was used in the simulation. The soil formation in the top 13 feet was determined to be silty clay based on available cross-sections (e.g., Canonie, 1988), and model recommended defaults were used for other parameters.

The RBCA Tool Kit assigns parameters (such as porosity, water and air content, etc.) for each soil type. The default for the fraction organic carbon is 0.01, but a more conservative value of 0.005 was used for this simulation.

Air Parameters: Two air parameters are required by the RBCA Tool Kit for this simulation: 1) the air mixing height and 2) the wind speed velocity.

The model default of 2 meters was used for the air mixing height. Wind speed data from 1996 to 2003 were obtained from the Moffett Field meteorological station (Attachment D). These are summarized in Table D6-1.

Results: Using the input parameters described above, the RBCA Tool Kit computes the outdoor ambient air concentrations anticipated at the point of exposure. In this case, the point of exposure for outdoor ambient air is assumed to be directly above the plume.

The simulated outdoor ambient air concentration at the point of exposure is $0.031 \mu\text{g}/\text{m}^3$. This value is two orders of magnitude lower than the residential and commercial long-term exposure goals of 1 and $2.7 \mu\text{g}/\text{m}^3$, respectively. In addition, this simulated value is also approximately one order of magnitude lower than the 25th percentile of the measured outdoor and background concentrations, indicating that the groundwater plume's contribution to TCE in the outdoor ambient air is insignificant.

Conclusion: The simulated outdoor ambient air concentration is substantially lower than the interim action levels and the 25th percentile of outdoor and background concentrations, which indicates that the groundwater plume is not a significant source of the TCE in outdoor ambient air.

6.2 Soil to Outdoor Ambient Air

The MEW ROD established soil cleanup standards of 0.5 mg/kg TCE in areas outside slurry walls and 1 mg/kg in areas within slurry walls. The MEW Companies have performed extensive soil and soil gas investigations throughout their former properties to identify soils exceeding the ROD cleanup requirements. Subsequently, the companies implemented several measures to remediate those soils to below the soil cleanup standards.

The RBCA Tool Kit was used to estimate the contribution to outdoor ambient air from soils at assumed TCE concentrations of 0.5 mg/kg. This is a conservative assumption because remedial measures have reduced the

Table D6-1: Average Wind Speeds at the Moffett Field Meteorological Station

Date		Wind Speed	
From	To	km/hr	cm/sec
29 July 2003	29 July 2004	9	250
29 July 2002	29 July 2003	6	167
29 July 2001	29 July 2002	6	167
29 July 2000	29 July 2001	7	194
29 July 1999	29 July 2000	7	194
29 July 1998	29 July 1999	6	167
29 July 1997	29 July 1998	6	167
29 July 1996	29 July 1997	6	167
Average		6.625	184

concentrations in these soils to levels much lower than the cleanup standard. As with the groundwater simulation, the RBCA Tool Kit requires several input parameters, which were selected based on data collected from the MEW Site. These input parameters are discussed below. Attachment C provides printouts of the simulations, including pages where input parameters are entered.

Soil Parameters: The depth to groundwater varies across the Site. An average depth of 13 feet (4 meters) was used in the simulation. The soil formation in the top 13 feet was determined to be silty clay based on available cross-sections (e.g., Canonie, 1988), and model recommended defaults were used for other parameters.

TCE was not detected in surface soil samples collected throughout the Site, and soils shallower than 6 feet that contained TCE concentrations above the ROD levels have been excavated. For simulation purposes, the depth to soils containing the hypothetical 0.5 mg/kg of TCE is conservatively assumed to be 3 feet (1 meter). Consequently, the soils with the assumed 0.5 mg/kg TCE are between 3 feet (1 meter) and 13 feet (4 meters).

The RBCA Tool Kit assigns parameters (such as porosity, water content, air content, etc.) for each soil type. The default for the fraction organic carbon is 0.01, but a more conservative value of 0.005 was used for this simulation.

The area of the soils containing the assumed 0.5 mg/kg TCE was estimated to have square dimensions of 330 feet x 330 feet (100 meters x 100 meters), which is larger than any of the soil areas that have been remediated.

Air Parameters: The two air parameters required for this simulation by the RBCA Tool Kit, the air mixing height and the wind speed velocity, are the same as those used for the groundwater-to-outdoor ambient air simulation. The default of 2 meters was used for the air mixing height, and an average wind speed of 184 centimeters per second (cm/sec) was used.

Results: The RBCA Tool Kit computes the anticipated outdoor ambient air concentrations onsite at a point of exposure directly on top of the TCE-impacted soil. Because the remediated soils are actually at some distance from the residential area west of Whisman Road, the model was also used to compute the concentration in air at another hypothetical point of exposure in the residential area 300 meters from the impacted soil. Attachment C presents printouts from the RBCA Tool Kit for this simulation.

The simulated outdoor ambient air concentration at the point of exposure directly above the impacted soils is $0.037 \mu\text{g}/\text{m}^3$. At the point of exposure in the residential area, the simulated air concentration is $0.0041 \mu\text{g}/\text{m}^3$. Both values are orders of magnitude lower than the residential and commercial long-term exposure goals of 1 and $2.7 \mu\text{g}/\text{m}^3$, respectively. In addition, these simulated values are about two orders of magnitude lower than the 25th percentile of outdoor and background concentrations, indicating that residual concentrations in the soil do not contribute a significant amount of TCE to outdoor ambient air.

Conclusion: According to the RBCA Tool Kit results, in the unlikely event that soils with concentrations equal to soil cleanup levels established in the ROD are present at the MEW Site, these soils would not present a significant source of TCE to outdoor ambient air.

6.3 Sensitivity Analyses

After a model has been used to draw conclusions, a sensitivity analysis can be performed to identify which model inputs have the most impact on the results of the simulations. The first step of a sensitivity analysis is to identify which parameters should be varied. Then, for each input parameter, the prediction simulations are executed with the value of the parameter varied over a specified range.

The RBCA Tool Kit was used to predict the concentrations in outdoor ambient air from volatilization from the groundwater and from soils. Because the desired outcome is that the groundwater plume and the soils do not produce outdoor concentrations above the interim action levels, changes to model conclusions are insignificant if:

1. TCE outdoor concentrations in the commercial area are less than $2.7 \mu\text{g}/\text{m}^3$,
2. TCE outdoor concentrations in the residential area are less than $1 \mu\text{g}/\text{m}^3$.

Based on known information and expected model behavior, the parameters shown in Table D6-2 were selected for the sensitivity analyses.

Table D6-2: Parameters Selected for Sensitivity Analyses

TYPE OF SIMULATION	
Groundwater to Outdoor Ambient Air	Soil to Outdoor Ambient Air
Concentration in groundwater	
Thickness of surface soil	
Depth to groundwater	Depth to top of impacted soil
Type of soil	
Fraction of organic content (f_{oc})	
PH	
Mixing zone height	
Ambient air velocity	

Three types of sensitivity, Types I through III, can be described:

Type I Sensitivity: When variation of an input causes insignificant changes in the model results or conclusions, the model has a Type I sensitivity to the input. Type I sensitivity is of no concern because regardless of the value of the input within the considered range, the conclusions remain the same.

Type II Sensitivity: When variation of an input causes significant changes in the model results, but no significant changes in the model's conclusions, the model has a Type II sensitivity to the input. Type II sensitivity is of no concern because regardless of the value of the input, the conclusion remains the same.

Type III Sensitivity: When variation of an input causes significant changes to both the model results and the model's conclusions, the model has a Type III sensitivity to the input. A Type III sensitivity can invalidate model results because over the range of that parameter in which the model can be considered representative, the conclusions of the model change.

When checking the sensitivity of the model to input parameters, Type I or Type II sensitivities are acceptable because neither changes the conclusions of the model. Because Type III sensitivity would change the conclusion of the model, it would not be acceptable.

6.3.1 Sensitivity Analyses of Parameters in Groundwater to Outdoor Ambient Air Simulation

Many of sensitivity parameters for groundwater are known with high degree of certainty. For example, a representative average TCE concentration was estimated from the TCE mass, which was determined using analytical data from several of the monitoring wells in the area. The depth to water is measured frequently, and the seasonal variations are very well documented. The type of soil in the vadose zone is known from many borings installed at the Site. The plume width is mapped annually, and has not shown significant changes. The air velocity was obtained from numerous measurements collected by the meteorological station on Moffett Field.

Concentration of TCE in groundwater: An average TCE concentration is required for the model because the RBCA Tool Kit is used to estimate an overall contribution from the whole plume, which can be represented by the average TCE concentration across the plume. An average TCE concentration of 0.28 mg/L was found to be representative of current conditions at the Site (Section 5.1).

To illustrate the sensitivity of the model conclusions to the average TCE concentration in the groundwater, two additional simulations were performed by increasing and decreasing the average concentration of 0.28 mg/L by one order of magnitude (i.e. 10 times). Below are the results of these simulations:

Average TCE in GW (mg/L)	2.8	0.28	0.028
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.32	0.032	0.0032

The outdoor ambient air concentration increases by the same ratio as the groundwater concentrations. However, the simulations show that even if the concentrations were to increase by 10 times, which is highly unlikely and not representative of the Site conditions, the resulting TCE concentrations in outdoor ambient air within the plume area would still be below the interim action levels. This parameter therefore has Type II sensitivity, which is acceptable because the model conclusions do not change.

Thickness of surface soils: The results of this simulation are not sensitive to this parameter. The model uses a thickness of 100 centimeters (cm) for surface soils. Two additional simulations with 10 cm and 50 cm were performed, but the outdoor ambient air concentration did not change. This is a Type I sensitivity because neither the model results nor conclusions change significantly.

Depth to groundwater: Groundwater elevation data are collected frequently at the Site. A depth to water of 13 feet (400 cm) is representative of average conditions at the Site. Seasonal changes are limited to maximum of two feet total (13 feet +/- 1 foot). However, two additional simulations were performed to evaluate the sensitivity of the results on the depth to water. The water level was changed by +/- 3 feet (100cm), and the results are as follows:

Depth to groundwater (cm)	500	400	300
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.025	0.032	0.042

Thus, even if the water rose on an average by 3 feet (100 cm), the resulting outdoor ambient air concentrations would still be significantly below interim action levels. This is a Type II sensitivity, which is acceptable because the model conclusions do not change.

Type of Soil: The soil formation at the MEW Site in the top 13 feet is clay to silty clay. The RBCA Tool Kit assigns default soil parameters based on soil type. The simulation presented in Section 5.1 uses a silty clay formation. The sensitivity of the model to two other types of clayey soils available in the RBCA Tool Kit, clay and sandy clay, was tested.

Type of Soil	Clay	Silty Clay	Sandy Clay
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.037	0.032	0.063

The model does not show a significant sensitivity between clay and silty-clay soils. For sandy clay, which is not the soil type observed to be in the vadose zone at the MEW Site, the simulated outdoor ambient air concentration increased but remained significantly below interim action levels. This is a Type I sensitivity because neither the model results nor conclusions change significantly.

Fraction of organic content (f_{oc}): The results are not sensitive to this parameter. The model uses an f_{oc} of 0.005. Two additional simulations with f_{oc} of 0.01 and 0.001 were performed, but the outdoor ambient air concentration did not change. This is a Type I sensitivity because neither the model results nor conclusions change significantly.

pH: The results are not sensitive to this parameter. The model uses a pH of 6.8. Two additional simulations with a pH of 8.5 and 4 were performed, but the outdoor ambient air concentration did not change. This is a Type I sensitivity because neither the model results nor conclusions change significantly.

Mixing zone height: The simulation uses the model default of 200 cm. Two additional simulations were performed using mixing heights of 100 cm and 300 cm.

Mixing Height (cm)	100	200	300
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.064	0.032	0.021

The simulated outdoor ambient air concentrations increase with decreasing mixing height, but the concentrations remained significantly below the interim action levels. This is a Type II sensitivity, which is acceptable because the model conclusions do not change.

Ambient air velocity: The air velocity used in the RBCA Tool Kit was an average of eight years of data from the meteorological station at Moffett Field. In those eight years, the minimum average annual air velocity was 167 cm/sec, and the maximum annual average velocity was 250 cm/sec. Two additional simulations were performed with these two values:

Ambient Air Velocity (cm/sec)	164	184	250
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.035	0.032	0.023

The outdoor ambient air concentration increases with decreasing air velocity, which is expected. However, the concentrations remained significantly below the interim action levels. This is a Type II sensitivity, which is acceptable because the model conclusions do not change.

Conclusion: A sensitivity analysis was performed on parameters used to simulate the groundwater to outdoor ambient air scenario. All parameters showed either Type I sensitivity (model results and conclusions do not change significantly) or Type II sensitivity (model results may change significantly, but the model conclusions do not). None of the parameters showed Type III sensitivity, indicating the range of parameters does not change

Table D6-3: Results of Sensitivity Analyses for Groundwater to Outdoor Air Pathway

Parameter	Range in Value	Range in Outdoor Air Conc. ($\mu\text{g}/\text{m}^3$)	Sensitivity	Comment
Concentration in groundwater (mg/L)	0.028 - 2.8	0.0032 – 0.32	Type II	Acceptable. No changes to model conclusions.
Thickness of surface soil (cm)	10 - 100	No effect	Type I	Acceptable. No significant changes to model results or conclusions.
Depth to groundwater (cm)	300 - 500	0.025 - 0.042	Type II	Acceptable. No changes to model conclusions.
Type of soil	Clay – Sandy Clay	0.032 - 0.063	Type I	Acceptable. No significant changes to model results or conclusions.
Fraction of organic content (f_{oc})	0.001 - 0.1	No effect	Type I	Acceptable. No significant changes to model results or conclusions.
pH	4 - 8.5	No effect	Type I	Acceptable. No significant changes to model results or conclusions.
Mixing zone height (cm)	100 - 300	0.021 - 0.064	Type II	Acceptable. No changes to model conclusions.
Ambient air velocity (cm/sec)	167 - 250	0.023 - 0.035	Type II	Acceptable. No changes to model conclusions.

the conclusions of the model (Table D6-3).

The RBCA Tool Kit shows that simulated outdoor ambient air concentrations resulting from the groundwater plume at the MEW Site are orders of magnitude lower than the interim action levels, and significantly lower than outdoor and background concentrations.

6.3.2 Sensitivity Analyses of Parameters in Soil to Outdoor Ambient Air Simulation

As in the groundwater-to-outdoor ambient air simulation, many of parameters used in the soil-to-outdoor ambient air simulation are known with high degree of certainty. For example, the type of soil in the vadose zone is known from many borings installed at the Site, and the air velocity was obtained from numerous measurements collected by the meteorological station at Moffett Field. For the purpose of these sensitivity analyses, only the onsite concentration is presented (i.e., the point of exposure on top of the soil). The same conclusions can be made for the offsite residential area simulation, as well.

A sensitivity analysis was not performed for the bottom of the impacted soil, as that is assumed to be the top of the groundwater table. Also, because the soil concentration and area are only hypothetical, and because the model assumes highly conservative values for these parameters, sensitivity analyses on the soil concentration and the area of the hypothetically impacted soils was not performed.

Thickness of surface soils: The results of this simulation are not sensitive to this parameter. The model uses a thickness of 100 cm for surface soils. Two additional simulations were performed using soil thickness of 10 cm and 50 cm, but the outdoor ambient air concentration did not change. This is a Type I sensitivity because neither the model results nor conclusions change significantly.

Depth to top of impacted soils: TCE was not detected in surface soils and any soils above 6 feet that showed concentrations above the ROD cleanup standards have been excavated. For simulation purposes, the depth to soils containing the hypothetical 0.5 mg/kg TCE concentration was conservatively assumed to be 3 feet (1 meter), half of the depth of the soil excavations. To perform a sensitivity analysis, two values were considered for depth to top of impacted soils: 50 cm and 200 cm, which constitute half and double the value used in the simulation, respectively. If a depth to impacted soils of 50 cm is used, that means that the bottom half of the modeled surface soil column would be impacted because thickness of the surface soil is assumed to be 100 cm in the model. This is not a likely scenario because TCE was not detected in surface soils.

Depth to Top of Impacted Soil (cm)	50	100	200
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.089	0.037	0.019

The simulated outdoor ambient air concentrations increase with decreasing depth to top of impacted soils, but the concentrations remained significantly below the interim action levels. This is a Type II sensitivity, which is acceptable because the model conclusions do not change.

Type of Soil: The soil formation at the MEW Site in the top 13 feet is clay to silty clay. The RBCA Tool Kit assigns default soil parameters based on the soil type. The simulation presented in Section 5.2 uses a silty clay formation. The sensitivity of the model to two other types of clayey soils available in the RBCA Tool Kit, clay and sandy clay was tested.

Type of Soil	Clay	Silty Clay	Sandy Clay
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.042	0.037	0.079

The model does not show a significant sensitivity between clay and silty clay soils. For sandy clay, which is not the soil type in the vadose zone at the MEW Site, the simulated outdoor ambient air concentration increased but remained significantly below the interim action levels. This is a Type I sensitivity because neither the model results nor conclusions change significantly.

Fraction of organic content (f_{oc}): The model uses an f_{oc} of 0.005. Two additional simulations with an f_{oc} of 0.001 and 0.025 were performed (5 times lower and higher, respectively).

Fraction of Organic Content (f_{oc})	0.001	0.005	0.025
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.088	0.037	0.0092

The simulated outdoor ambient air concentrations increase with decreasing f_{oc} , but the concentrations remained significantly below the interim action levels. This is a Type II sensitivity, which is acceptable because the model conclusions do not change.

pH: The results are not sensitive to this parameter. The model uses a pH of 6.8. Two additional simulations with a pH of 8.5 and 4, were performed, but the outdoor ambient air concentration did not change. This is a Type I sensitivity because neither the model results nor conclusions change significantly.

Mixing zone height: The simulation uses the model default of 200 cm. Two additional simulations with mixing heights of 100 cm and 300 cm were performed.

Mixing Height (cm)	100	200	300
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.074	0.037	0.025

The simulated outdoor ambient air concentrations increase with decreasing mixing height, but the concentrations remained significantly below the interim action levels. This parameter has a Type II sensitivity, which is acceptable because the model conclusions do not change.

Ambient air velocity: The air velocity used in the RBCA Tool Kit was an average of eight years of data from the meteorological station at Moffett Field. In those eight years, the minimum average annual air velocity was 167 cm/sec, and the maximum annual average velocity was 250 cm/sec. Two additional simulations were performed with these two values:

Ambient Air Velocity (cm/sec)	164	184	250
Outdoor TCE Air Conc. ($\mu\text{g}/\text{m}^3$)	0.042	0.037	0.027

The outdoor ambient air concentration increases with decreasing air velocity, which is expected. However, the concentrations remained significantly below the interim action levels. This parameter has a Type II sensitivity, which is acceptable because the model conclusions do not change.

Conclusion: Sensitivity analyses were performed on parameters used to simulate the soil-to-outdoor ambient air scenario. All parameters showed Type I sensitivity (model results or conclusions do not change significantly) or Type II sensitivity (model results may change significantly, but the model conclusions do not).

Table D6-4: Results of Sensitivity Analyses for Soil to Outdoor Air Pathway

Parameter	Range in Value	Range in Outdoor Air Conc. ($\mu\text{g}/\text{m}^3$)	Sensitivity	Comment
Thickness of surface soil (cm)	10 - 100	No effect	Type I	Acceptable. No significant changes to model results or conclusions.
Depth to top of impacted soil (cm)	50 - 200	0.019 – 0.089	Type II	Acceptable. No changes to model conclusions.
Type of soil	Clay – Sandy Clay	0.037 – 0.079	Type I	Acceptable. No significant changes to model results or conclusions.
Fraction of organic content (f_{oc})	Clay – Sandy Clay	0.001 – 0.025	Type II	Acceptable. No changes to model conclusions.
pH	4 – 8.5	No effect	Type I	Acceptable. No significant changes to model results or conclusions.
Mixing zone height (cm)	100 - 300	0.025 – 0.074	Type II	Acceptable. No changes to model conclusions.
Ambient air velocity (cm/sec)	167 - 250	0.027 - 0.042	Type II	Acceptable. No changes to model conclusions.

None of the parameters showed Type III sensitivity, indicating the range of parameters does not change the conclusions of the model.

The RBCA Tool Kit modeling analyses show that simulated outdoor ambient air concentrations resulting from soils with concentrations equal to the soil cleanup criteria established in the ROD at the MEW Site are orders of magnitude lower than the interim action levels, and significantly lower than outdoor and background concentrations.

7 FLUX CALCULATIONS

In an 18 May 2004 EPA memorandum, EPA evaluated the emission flux data for trichloroethylene (TCE) that were collected at 350-380 Ellis Street (formerly the Raytheon Company's Facilities Site) during a one-day field test in the summer of 1999. EPA's evaluation focused on whether these limited data indicate a potential for significant air emissions of TCE to outdoor ambient air. EPA used the flux measurements to provide preliminary information on the potential for impacts to outdoor ambient air quality. EPA noted that this is a limited data set that may not be representative of long-term emissions and/or may not reflect conditions throughout the MEW Site, but the evaluation can be used qualitatively to assess the findings of the model simulations discussed in the previous chapter using field data.

To evaluate the data, EPA calculated outdoor TCE air concentrations based on the emission flux measurements and compared these calculated results to ambient air concentrations. The approach and results are discussed briefly below.

7.1 Methods and Results

In an effort to estimate outdoor ambient air concentration for the 350-380 Ellis Street location, the emission flux data that were collected at the site were combined with air dispersion factors known as Q/C terms.

Emission Flux Data: TCE was detected in 4 of 11 flux chamber tests. The detected TCE flux values were 0.059, 0.27, 0.59, and 0.78 micrograms per square meter per minute ($\mu\text{g}/\text{m}^2/\text{min}$). The method detection limit for TCE was 0.027 $\mu\text{g}/\text{m}^2/\text{min}$. The average and 95% upper confidence limits (95 UCL) for the data set were calculated to provide a central tendency and a reasonable maximum estimate of air concentration for the 350-380 Ellis Street property. Non-detect flux values were assigned a concentration of $\frac{1}{2}$ the detection limit. Given the relatively high percentage of non-detects (>60 percent), both the 95 UCL and the maximum flux measured on-site were used to provide a range of reasonable maximum estimates for TCE in outdoor ambient air. The geometric mean, arithmetic mean, 95 UCL (assuming a log-normal distribution), and maximum flux are 0.041, 0.16, 0.47, and 0.78 $\mu\text{g}/\text{m}^2/\text{min}$ respectively.

In order to use these summary statistics to estimate air concentrations, it is first necessary to convert these flux values to appropriate units of grams per square meter per second ($\text{g}/\text{m}^2/\text{sec}$). The converted emission flux values for the geometric mean, arithmetic mean, 95 UCL, and highest reported detection are 6.8×10^{-10} , 2.7×10^{-9} , 7.8×10^{-9} , and 1.3×10^{-8} $\text{g}/\text{m}^2/\text{sec}$, respectively.

Air Dispersion Factor (Q/C): Q/C terms were taken directly from the Soil Screening Guidance: Technical Background Document (EPA, 1996) and are based on the AREA-ST, an updated version of the Office of Air Quality Planning and Standards, Industrial Source Complex Model, ISC2. The ISC2 Model is a steady-state Gaussian plume model that uses a full year of meteorological data to estimate air concentrations at selected receptor locations. In this case, air concentrations were estimated at on-site locations employing a double numerical integration over the source in the upwind and crosswind directions.

There are different Q/C terms available depending on the location of the site and the size of the source area. The San Francisco Bay Area was selected as the location and source areas from 0.5 to 30 acres were assumed (these areas represent the minimum and maximum areas for which Q/C terms are available).

Air Equation and Assumptions: To estimate an outdoor ambient air concentration, the emission flux value is combined with the air dispersion factor as follows:

$$C = (J \times CF)/(Q/C)$$

7-1

Where:

C = air concentration ($\mu\text{g}/\text{m}^3$)

J = emission flux for TCE ($\text{g}/\text{m}^2/\text{sec}$)

CF = conversion factor ($10^9 \mu\text{g}/\text{kg}$)

Q/C = inverse of the mean concentration at the center of a 0.5 acre (Q/C = 89.51) and 30 acre (QC= 46.03) source ($\text{g}/\text{m}/\text{sec}$ per kg/m^3)

Estimated Air Concentrations: EPA calculated outdoor ambient air concentrations for different scenarios:

1. Scenario 1: The maximum flux measured for TCE of $1.3 \times 10^{-8} \text{ g}/\text{m}^2/\text{sec}$ equates to an outdoor ambient air concentration of $0.15 \mu\text{g}/\text{m}^3$ TCE assuming a 0.5 acre source, and $0.28 \mu\text{g}/\text{m}^3$ TCE assuming a 30 acre source.
2. Scenario 2: The 95 UCL flux equates to an outdoor ambient air concentration of $0.087 \mu\text{g}/\text{m}^3$ TCE for a 0.5 acre source, and $0.17 \mu\text{g}/\text{m}^3$ TCE for a 30 acre source.
3. Scenario 3: The arithmetic mean flux yields estimates of $0.030 \mu\text{g}/\text{m}^3$ TCE assuming a 0.5 acre source, and $0.059 \mu\text{g}/\text{m}^3$ TCE for a 30 acre source.
4. Scenario 4: The geometric mean flux yields estimates of $0.0076 \mu\text{g}/\text{m}^3$ TCE assuming a 0.5 acre source, and $0.015 \mu\text{g}/\text{m}^3$ TCE for a 30 acre source.
5. Scenario 5: The flux detection limit for TCE of $4.5 \times 10^{-10} \text{ g}/\text{m}^2/\text{sec}$ equates to an air concentration of $0.0050 \mu\text{g}/\text{m}^3$ TCE assuming a 0.5 acre source, and $0.0098 \mu\text{g}/\text{m}^3$ for a 30 acre source area.

7.2 Discussion

The emission isolation flux chamber yields a direct measurement of VOC flux at a surface. In its 2004 *Interim Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*, the California Department of Toxic Substance Control (DTSC) specifies that "flux chamber results represent an additional line of evidence for evaluating subsurface contamination". This flux chamber analysis conforms to DTSC's Interim Final Guidance in that it represents one of five lines of evidence that were used to evaluate the subsurface to outdoor ambient air pathway.

Flux chambers measure the VOC flux from the subsurface, and do not differentiate between soil and groundwater contributions. Therefore, EPA's calculations represent a combined groundwater/soil contribution to outdoor ambient air. The outdoor ambient air concentrations estimated by EPA are below the interim action levels (1 and $2.7 \mu\text{g}/\text{m}^3$ for residential and commercial exposure, respectively) and consistent with background outdoor concentrations, even in the worst-case scenario when the maximum flux is used in the calculations.

Using conservative assumptions, the RBCA Tool Kit estimated outdoor concentrations of $0.031 \mu\text{g}/\text{m}^3$ from groundwater volatilization, and $0.037 \mu\text{g}/\text{m}^3$ from soil volatilization. The combination of the two yields a combined estimated concentration of $0.068 \mu\text{g}/\text{m}^3$ in outdoor ambient air. Comparing the estimated concentrations from the RBCA Tool Kit to those estimated by EPA, both methods yield outdoor ambient air

concentrations in the same range, and both methods indicate that the outdoor ambient air concentrations are significantly below EPA's interim action levels. It also appears that EPA Scenarios 3 and 4 conform more to the results of the RBCA tool kit. This would be expected because Scenarios 3 and 4 represent an averaged typical exposure. Scenario 1 represents an overly conservative maximum exposure. Scenario 2 is also a conservative scenario because it uses the 95 UCL of the concentration. Scenario 5 underestimates the outdoor ambient air concentration because it assumes non-detect flux levels for TCE.

7.3 Conclusions

Even by the most conservative EPA calculation, the estimated outdoor ambient air TCE concentrations are significantly below the interim action level, and consistent with background outdoor concentrations.

8 CONCLUSIONS

The document presents several converging lines of evidence showing that the groundwater plume and the soils at the MEW Site are not significant sources of TCE to outdoor ambient air. These lines of evidence are:

- A comparison of statistical parameters for outdoor and background air samples collected at the Site,
- Statistical analyses comparing the outdoor and background concentrations,
- A simulation of the groundwater-to-outdoor ambient air potential pathway,
- A simulation of the soil-to-outdoor ambient air potential pathway, and
- Calculations of outdoor ambient air concentrations from flux measurements.

In the Five-Year Review, EPA concluded, based on the results of air samples collected at the Site, "[o]utdoor air quality in areas over the TCE groundwater plume area is generally consistent with outdoor air quality at reference locations outside the TCE groundwater plume area". However, EPA also suggested in the Five-Year Review using existing data sets to further evaluate the subsurface-to-outdoor ambient air pathway.

This report describes five lines of evidence supporting EPA's finding above. These lines of evidence are:

1: Comparison of statistical parameters for outdoor and background air samples collected at the Site:

Data from outdoor ambient air samples collected at the Site were compiled, and representative statistical parameters were calculated separately for outdoor air samples over the MEW plume and for background outdoor air samples. These parameters include the arithmetic and geometric means, the median, the standard deviation, the 25th and 75th percentiles, the maximum and the minimum values. There are no apparent significant differences between these statistical parameters for the background and outdoor datasets. Further, the results of outdoor and background air samples appear to lie within the same range, and there do not appear to be any significant differences between the two types of samples. This supports the conclusion that outdoor ambient air quality over the TCE groundwater plume is similar to outdoor air quality outside of the plume.

2: Statistical analyses comparing the outdoor and background concentrations: More robust statistical analyses also were performed on the data to check for statistically significant differences between the outdoor and the background TCE concentrations. The analyses included a non-parametric test, as well as an analysis of variance test. Both tests showed that the outdoor and background concentrations are not statistically different, which further substantiates the conclusion that outdoor ambient air quality over the TCE groundwater plume is similar to outdoor air quality outside the plume.

3: Simulation of the groundwater-to-outdoor ambient air potential pathway: The RBCA Tool Kit was used to simulate the potential contribution of the MEW groundwater plume to outdoor ambient air. The Tool Kit computed outdoor ambient air concentrations at a simulated point of exposure directly above of the plume. The simulated outdoor ambient air concentration at the point of exposure is 0.031 $\mu\text{g}/\text{m}^3$, which is two orders of magnitude below the interim action levels, and significantly lower than the 25th percentile of outdoor and background concentrations.

4: Simulation of the soil-to-outdoor ambient air potential pathway: The RBCA Tool Kit also was used to compute the outdoor ambient air concentrations onsite at a point of exposure directly above impacted soil.

However, because the remediated soils are in fact at some distance from the residential area west of Whisman Road, the Tool Kit was also used to compute the concentration in air at another point of exposure in the residential area 300 meters from the soil. The simulated outdoor ambient air concentration at the onsite point of exposure is $0.037 \mu\text{g}/\text{m}^3$. At the point of exposure in the residential area, the simulated air concentration is $0.0041 \mu\text{g}/\text{m}^3$. Both values are orders of magnitude below the interim action levels, and significantly lower than the 25th percentile of outdoor and background concentrations.

5: Calculations of outdoor ambient air concentrations from flux emissions measurements: In an 18 May 2004 EPA memorandum, EPA evaluated the emission flux data for TCE that were collected at 350-380 Ellis Street in the summer of 1999. Flux chambers measure the VOC flux from the subsurface, and do not differentiate between soil and groundwater contributions. Therefore, EPA's calculations represent a combined groundwater-and-soil contribution to outdoor ambient air. The estimated outdoor ambient air concentrations are below the interim action levels and are consistent with background concentrations even when the maximum flux is used in the calculations.

In summary, the lines of evidence provided in this document indicate that outdoor air quality over the MEW plume is similar to background outdoor air quality. Estimates of volatilization from the subsurface to the outdoor air indicate that concentrations in outdoor air from the subsurface are significantly lower than the interim action level, and that the small contribution does not result in outdoor air concentrations above background.

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TABLES

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
0033-OR-247	9/3/2002	Primary	0.160 ND
0033-OR-272	9/5/2002	Primary	0.170 ND
0079-Air-023	11/18/2003	Primary	0.182
0079-Air-024	11/18/2003	Primary	0.240
0079-Air-088	11/25/2003	Primary	0.178
0079-Air-089	11/25/2003	Primary	0.220
0079-AIR-162	5/7/2004	Primary	0.022
0079-AIR-225	5/14/2004	Primary	0.048
313HVAC1	5/13/2003	Primary	0.180 ND
313HVAC1	10/2/2003	Primary	0.190 ND
313HVAC1	10/7/2003	Primary	0.190 ND
313HVAC1 A	5/6/2003	Primary	0.150 ND
313HVAC1 B	5/6/2003	Primary	0.240 ND
313HVAC2	5/6/2003	Primary	0.200 ND
313HVAC2	5/13/2003	Primary	0.180 ND
323HVAC1	5/6/2003	Primary	0.180 ND
323HVAC1	5/13/2003	Primary	0.180 ND
323HVAC2	5/6/2003	Primary	0.170 ND
323HVAC2	5/13/2003	Primary	0.180 ND
350HVAC1	5/10/2003	Primary	0.580
350HVAC1	5/17/2003	Primary	18.000
350HVAC1	7/8/2003	Primary	0.200 ND
350HVAC1	9/27/2003	Primary	0.180 ND
350HVAC1	10/4/2003	Primary	0.190 ND
350HVAC2	5/10/2003	Primary	0.660
350HVAC2	5/17/2003	Primary	0.440
350HVAC2	9/26/2006	Primary	0.150 ND
369HVAC1	5/6/2003	Primary	0.190 ND
369HVAC1	5/13/2003	Primary	0.180 ND
369HVAC2	5/6/2003	Primary	0.190 ND
369HVAC2	5/13/2003	Primary	0.190 ND
370HVAC1A	5/10/2003	Primary	0.190 ND
370HVAC1A	5/17/2003	Primary	0.190 ND
370HVAC1A	9/26/2006	Primary	0.170 ND
370HVAC1B	5/10/2003	Primary	0.200 ND
370HVAC1B	5/17/2003	Primary	0.270
370HVAC1B	9/27/2003	Primary	2.000
370HVAC1B	10/4/2003	Primary	0.310
370HVAC1B	11/13/2003	Primary	0.190 ND
370HVAC1B	9/26/2006	Primary	0.170 ND
370HVAC2A	5/10/2003	Primary	0.200 ND
370HVAC2A	5/17/2003	Primary	0.290
370HVAC2A	9/26/2006	Primary	0.160 ND
370HVAC2B	5/10/2003	Primary	0.190 ND
370HVAC2B	5/17/2003	Primary	0.200 ND
370HVAC2B	9/26/2006	Primary	0.160 ND
379HVAC1	5/6/2003	Primary	0.190 ND

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
379HVAC1	5/13/2003	Primary	0.180 ND
379HVAC2	5/6/2003	Primary	0.180 ND
379HVAC2	5/13/2003	Primary	0.180 ND
379HVAC2	10/2/2003	Primary	0.190 ND
379HVAC2	10/7/2003	Primary	0.190 ND
380HVAC1Ce	5/10/2003	Primary	0.200 ND
380HVAC1Ce	5/17/2003	Primary	0.200 ND
380HVAC1Ce	9/26/2006	Primary	0.150 ND
380HVAC1Cw	5/10/2003	Primary	0.190 ND
380HVAC1Cw	5/17/2003	Primary	0.190 ND
380HVAC1Cw	9/26/2006	Primary	0.160 ND
380HVAC1D	5/10/2003	Primary	0.190 ND
380HVAC1D	5/17/2003	Primary	0.200 ND
380HVAC2Ce	5/10/2003	Primary	0.180 ND
380HVAC2Ce	5/17/2003	Primary	0.200 ND
380HVAC2Ce	9/27/2003	Primary	0.190 ND
380HVAC2Ce	10/4/2003	Primary	0.190 ND
380HVAC2Ce	9/26/2006	Primary	0.170 ND
380HVAC2D	5/10/2003	Primary	0.190 ND
380HVAC2D	5/17/2003	Primary	0.200 ND
380HVAC2D	9/26/2006	Primary	0.150 ND
380ROOF1Cw	5/17/2003	Primary	0.150 ND
389HVAC1	5/6/2003	Primary	0.180 ND
389HVAC1	5/13/2003	Primary	0.190 ND
389HVAC2	5/6/2003	Primary	0.170 ND
389HVAC2	5/13/2003	Primary	0.190 ND
399HVAC1	5/6/2003	Primary	0.170 ND
399HVAC1	5/13/2003	Primary	0.190 ND
399HVAC2	5/6/2003	Primary	0.180 ND
399HVAC2	5/13/2003	Primary	0.180 ND
399HVAC2	10/2/2003	Primary	0.200 ND
399HVAC2	10/7/2003	Primary	0.200 ND
401HVAC1R	5/6/2003	Primary	0.170 ND
401HVAC1R	5/13/2003	Primary	0.190 ND
401HVAC1R	10/2/2003	Primary	0.200 ND
401HVAC1R	10/7/2003	Primary	0.230
401HVAC1R	11/11/2003	Primary	0.190 ND
401HVAC1R	11/14/2003	Primary	0.190 ND
401OUT1	5/6/2003	Primary	0.190 ND
401OUT1	5/13/2003	Primary	0.200 ND
401OUT1	6/9/2003	Primary	0.200 ND
401OUT1	9/4/2003	Primary	0.190 ND
401OUT1	4/1/2004	Primary	0.079
401OUT2	5/6/2003	Primary	0.190 ND
401OUT2	5/13/2003	Primary	0.180 ND
401OUT2	9/4/2003	Primary	0.190 ND
401OUT2	4/1/2004	Primary	0.065

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
415HVAC1R	5/6/2003	Primary	0.190 ND
415HVAC1R	5/13/2003	Primary	0.190 ND
455-AC-1-May13	5/13/2003	Primary	0.110 ND
455-AC-1-May6	5/6/2003	Primary	0.170 ND
455-AC-1-Oct2	10/2/2003	Primary	0.180 ND
455-AC-1-Sept24	9/24/2003	Primary	0.200 ND
455-AC-2-May13	5/13/2003	Primary	0.110 ND
455-AC-2-May6	5/6/2003	Primary	0.130 J
455-AC-2-Oct2	10/2/2003	Primary	0.240
455-AC-2-Sept24	9/24/2003	Primary	0.160 ND
455-AC-Jan5	1/5/2004	Primary	0.200 ND
460HVAC1	7/8/2004	Primary	0.170 ND
460HVAC1	7/14/2004	EPA Primary	0.270 ND
464HVAC1	5/6/2003	Primary	0.190 ND
464HVAC1	5/13/2003	Primary	0.190 ND
464HVAC2	5/6/2003	Primary	0.190 ND
464HVAC2	5/13/2003	Primary	0.180 ND
466HVAC1	5/6/2003	Primary	0.150 ND
466HVAC1	5/13/2003	Primary	0.180 ND
466HVAC1	10/2/2003	Primary	0.180 ND
466HVAC1	10/7/2003	Primary	0.190 ND
468HVAC1	5/6/2003	Primary	0.190 ND
468HVAC1	5/13/2003	Primary	0.190 ND
468HVAC2	5/6/2003	Primary	0.170 ND
468HVAC2	5/13/2003	Primary	0.190 ND
468HVAC2	10/2/2003	Primary	0.190 ND
468HVAC2	10/7/2003	Primary	0.190 ND
487-AC-1-May13	5/13/2003	Primary	0.110 ND
487-AC-1-May6	5/6/2003	primary	0.150 ND
487-AC-1-Oct2	10/2/2003	Primary	0.180 ND
487-AC-1-Sept24	9/24/2003	Primary	0.140 ND
515HVAC1	5/6/2003	Primary	0.190 ND
515HVAC1	5/13/2003	Primary	0.180 ND
515HVAC2	5/6/2003	Primary	0.170 ND
515HVAC2	5/13/2003	Primary	0.180 ND
545HVAC1	5/6/2003	Primary	0.190 ND
545HVAC1	5/13/2003	Primary	0.190 ND
545HVAC1	10/2/2003	Primary	0.190 ND
545HVAC1	10/7/2003	Primary	0.940
545HVAC2	5/6/2003	Primary	0.190 ND
545HVAC2	5/13/2003	Primary	0.180 ND
555HVAC1	6/22/2006	Primary	0.180 ND
644OUT1	5/6/2003	Primary	0.800
644OUT1	5/13/2003	Primary	1.600
644OUT1	11/13/2003	Primary	0.200 ND
644OUT1	7/1/2004	Primary	0.190 ND
644OUT2	5/6/2003	Primary	0.730

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
644OUT2	5/13/2003	Primary	1.100
644OUT2	6/9/2003	Primary	2.000
644OUT2	11/13/2003	Primary	0.290 ND
644OUT2	7/1/2004	Primary	0.680
645HVAC1	7/22/2004	Primary	0.200 ND
660HVAC1	10/2/2003	Primary	0.280
660HVAC1	10/7/2003	Primary	0.190 J
660HVAC1	5/25/2004	Primary	0.180 ND
670HVAC1	8/19/2004	Primary	0.190 ND
A17-1-24A-063003	6/30/2003	Primary	0.336
A17-1-24A-070103	7/1/2003	Primary	0.586
A17-1-24A-070803	7/8/2003	Primary	0.213
A17-1-24A-070903	7/9/2003	Primary	0.292
A17-1-81A-070203	7/2/2003	Primary	0.266
A17-1-81A-070703	7/7/2003	Primary	0.175
A17-1-82A-070203	7/2/2003	Primary	0.280
A17-1-82A-070703	7/7/2003	Primary	0.118
A17-1-83A-070203	7/2/2003	Primary	1.021
A17-1-83A-070703	7/7/2003	Primary	0.205
A17-24A-010704	1/7/2004	Primary	1.370
A17-24A-010904	1/9/2004	Primary	1.773
A17-24A-012004	1/20/2004	Primary	0.752
A17-24A-012204	1/22/2004	Primary	0.434
A17-24A-012604	1/26/2004	Primary	0.251
A17-24A-020304	2/3/2004	Primary	0.501
A17-24A-020604	2/6/2004	Primary	6.406
A17-24A-021004	2/10/2004	Primary	0.314
A17-24A-021804	2/18/2004	Primary	0.206
A17-24A-022004	2/20/2004	Primary	0.224
A17-24A-022304	2/23/2004	Primary	0.257
A17-24A-030204	3/2/2004	Primary	0.228
A17-24A-030404	3/4/2004	Primary	0.282
A17-24A-031104	3/11/2004	Primary	0.343
A17-24A-031704	3/17/2004	Primary	0.283
A17-24A-032204	3/22/2004	Primary	0.176
A17-24A-032404	3/24/2004	Primary	0.166
A17-24A-040104	4/1/2004	Primary	0.153
A17-24A-040604	4/6/2004	Primary	0.115
A17-24A-040804	4/8/2004	Primary	0.148
A17-24A-041304	4/13/2004	Primary	0.080
A17-24A-041604	4/16/2004	Primary	0.098
A17-24A-042204	4/22/2004	Primary	0.130
A17-24A-043004	4/30/2004	Primary	0.062
A17-24A-050304	5/3/2004	Primary	0.056
A17-24A-050504	5/5/2004	Primary	0.055
A17-24A-051104	5/11/2004	Primary	0.057
A17-24A-051704	5/17/2004	Primary	0.040

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
A17-24A-060204	6/2/2004	Primary	0.078
A17-24A-060404	6/4/2004	Primary	0.062
A17-24A-060804	6/8/2004	Primary	0.047
A17-24A-061004	6/10/2004	Primary	0.062
A17-24A-061504	6/15/2004	Primary	0.104
A17-24A-061704	6/17/2004	Primary	0.083
A17-24A-062104	6/21/2004	Primary	0.047
A17-24A-062304	6/23/2004	Primary	0.056
A17-24A-071003	7/10/2003	Primary	0.247
A17-24A-071103	7/11/2003	Primary	0.361
A17-24A-071403	7/14/2003	Primary	0.659
A17-24A-071503	7/15/2003	Primary	0.273
A17-24A-071603	7/16/2003	Primary	0.297
A17-24A-071803	7/18/2003	Primary	0.194
A17-24A-072103	7/21/2003	Primary	0.276
A17-24A-072303	7/23/2003	Primary	0.260
A17-24A-072403	7/24/2003	Primary	0.339
A17-24A-072503	7/25/2003	Primary	0.385
A17-24A-072803	7/28/2003	Primary	0.100
A17-24A-073003	7/30/2003	Primary	0.067
A17-24A-073103	7/31/2003	Primary	0.134
A17-24A-080103	8/1/2003	Primary	0.435
A17-24A-080403	8/4/2003	Primary	0.073
A17-24A-080603	8/6/2003	Primary	1.063
A17-24A-080703	8/7/2003	Primary	0.213
A17-24A-080803	8/8/2003	Primary	0.099
A17-24A-081103	8/11/2003	Primary	0.095
A17-24A-081203	8/12/2003	Primary	0.139
A17-24A-081403	8/14/2003	Primary	0.157
A17-24A-081503	8/15/2003	Primary	0.134
A17-24A-081903	8/19/2003	Primary	0.083
A17-24A-082003	8/20/2003	Primary	0.067
A17-24A-082103	8/21/2003	Primary	0.067
A17-24A-082203	8/22/2003	Primary	0.078
A17-24A-082503	8/25/2003	Primary	0.065
A17-24A-082803	8/28/2003	Primary	0.129
A17-24A-090203	9/2/2003	Primary	0.106
A17-24A-090303	9/3/2003	Primary	0.150
A17-24A-090403	9/4/2003	Primary	0.128
A17-24A-090704	9/7/2004	Primary	0.049 ND
A17-24A-090803	9/8/2003	Primary	0.189
A17-24A-090903	9/9/2003	Primary	0.084
A17-24A-090904	9/9/2004	Primary	0.052 ND
A17-24A-091103	9/11/2003	Primary	0.236
A17-24A-091203	9/12/2003	Primary	0.217
A17-24A-091404	9/14/2004	Primary	0.317
A17-24A-091503	9/15/2003	Primary	2.453

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
A17-24A-091703	9/17/2003	Primary	2.001
A17-24A-091803	9/18/2003	Primary	3.525
A17-24A-091903	9/19/2003	Primary	2.932
A17-24A-092104	9/21/2004	Primary	0.043 ND
A17-24A-092203	9/22/2003	Primary	2.706
A17-24A-092304	9/23/2004	Primary	0.353
A17-24A-092403	9/24/2003	Primary	2.180
A17-24A-092804	9/28/2004	Primary	0.240
A17-24A-093004	9/30/2004	Primary	0.048 ND
A17-24A-100504	10/5/2004	Primary	0.231
A17-24A-100704	10/7/2004	Primary	0.231
A17-24A-101204	10/12/2004	Primary	0.247
A17-24A-101404	10/14/2004	Primary	0.320
A17-24A-101904	10/19/2004	Primary	0.048 ND
A17-24A-102104	10/21/2004	Primary	0.048 ND
A17-24A-102604	10/26/2004	Primary	0.203
A17-24A-102804	10/28/2004	Primary	0.189
A17-24A-120103	12/1/2003	Primary	0.085
A17-24A-120903	12/9/2003	Primary	0.069
A17-24A-121903	12/19/2003	Primary	1.845
A17-24A-122203	12/22/2003	Primary	2.014
A17-24A-122903	12/29/2003	Primary	1.716
A17-24B-051904	5/19/2004	Primary	0.056
A17-24B-092303	9/23/2003	Primary	2.436
A17-24B-092603	9/26/2003	Primary	3.596
A17-81A-011304	1/13/2004	Primary	0.315
A17-81A-012804	1/28/2004	Primary	0.163
A17-81A-021204	2/12/2004	Primary	0.182
A17-81A-022504	2/25/2004	Primary	0.181
A17-81A-031904	3/19/2004	Primary	0.151
A17-81A-033004	3/30/2004	Primary	0.136
A17-81A-041904	4/19/2004	Primary	0.056
A17-81A-042804	4/28/2004	Primary	0.088
A17-81A-051304	5/13/2004	Primary	0.052
A17-81A-071703	7/17/2003	Primary	0.282
A17-81A-072203	7/22/2003	Primary	0.220
A17-81A-072903	7/29/2003	Primary	0.078
A17-81A-080503	8/5/2003	Primary	0.093
A17-81A-081303	8/13/2003	Primary	0.188
A17-81A-081803	8/18/2003	Primary	0.066
A17-81A-082703	8/27/2003	Primary	0.094
A17-81A-090503	9/5/2003	Primary	0.061
A17-81A-091003	9/10/2003	Primary	0.282
A17-81A-091603	9/16/2003	Primary	1.392
A17-81A-092503	9/25/2003	Primary	1.236
A17-81A-120303	12/3/2003	Primary	0.092
A17-81A-121603	12/16/2003	Primary	0.106

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
A17-82A-021204	2/12/2004	Primary	0.294
A17-82A-041904	4/19/2004	Primary	0.028
A17-82A-042804	4/28/2004	Primary	0.072
A17-82A-051304	5/13/2004	Primary	0.040
A17-82A-071703	7/17/2003	Primary	0.252
A17-82A-072203	7/22/2003	Primary	0.177
A17-82A-072903	7/29/2003	Primary	0.067
A17-82A-080503	8/5/2003	Primary	0.255
A17-82A-081303	8/13/2003	Primary	0.211
A17-82A-081803	8/18/2003	Primary	0.055
A17-82A-082703	8/27/2003	Primary	0.079
A17-82A-090503	9/5/2003	Primary	0.084
A17-82A-091003	9/10/2003	Primary	0.111
A17-82A-091603	9/16/2003	Primary	2.122
A17-82A-092503	9/25/2003	Primary	1.128
A17-82A-120303	12/3/2003	Primary	0.224
A17-82A-121603	12/16/2003	Primary	0.364
A17-83A-012804	1/28/2004	Primary	0.221
A17-83A-021204	2/12/2004	Primary	0.277
A17-83A-033004	3/30/2004	Primary	0.160
A17-83A-071703	7/17/2003	Primary	0.146
A17-83A-072203	7/22/2003	Primary	0.265
A17-83A-072903	7/29/2003	Primary	0.073
A17-83A-080503	8/5/2003	Primary	0.258
A17-83A-090503	9/5/2003	Primary	0.176
A17-83A-091003	9/10/2003	Primary	0.243
A210-1-24A-090904	9/9/2004	Primary	0.937
A210-1-24A-091604	9/16/2004	Primary	1.103
A210-24A 010306	1/3/2006	Primary	0.043 ND
A210-24A 010506	1/5/2006	Primary	0.232
A210-24A-071205	7/12/2005	Primary	0.499
A210-24A-071405	7/14/2005	Primary	1.207
A210-24A-071905	7/19/2005	Primary	0.512
A210-24A-072105	7/21/2005	Primary	0.467
A210-24A-090704	9/7/2004	Primary	2.658
A210-24A-091404	9/14/2004	Primary	1.167
A210-24A-092705	9/27/2005	Primary	0.281
A210-24A-092905	9/29/2005	Primary	0.413
A243-24A-030904	3/9/2004	Primary	0.411
A243-24A-031004	3/10/2004	Primary	0.502
A243-24A-031104	3/11/2004	Primary	0.450
A243-24A-031204	3/12/2004	Primary	0.372
A243-24A-080403	8/4/2003	Primary	0.047
A243-24A-080503	8/5/2003	Primary	0.183
A243-24A-080803	8/8/2003	Primary	0.067
A243-81A-030804	3/8/2004	Primary	0.262
A243-81A-080603	8/6/2003	Primary	0.228

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
A243-83A-080603	8/6/2003	Primary	0.270
MEW-1-24A-062304	6/23/2004	Primary	0.073
N210-A-24A-060704	6/7/2004	Primary	0.055
N210-A-24A-060804	6/8/2004	Primary	0.068
N210-A-24A-060904	6/9/2004	Primary	0.042
N210-A-24A-061104	6/11/2004	Primary	0.068
N210-A-24A-062104	6/21/2004	Primary	0.048
N210-A-24A-062204	6/22/2004	Primary	0.062
N210-A-24A-062404	6/24/2004	Primary	0.079
N210-A-24A-062504	6/25/2004	Primary	0.078
OA Front	5/6/2003	Primary	0.078 J
OA Front	5/13/2003	Primary	0.170 J
OA Roof	5/6/2003	Primary	0.140 J
OA Roof	5/13/2003	Primary	0.110 J
OP1	5/6/2003	Primary	0.340
OP1	5/13/2003	Primary	0.300
OP1	9/4/2003	Primary	0.180 ND
OP1	9/11/2003	Primary	0.660
OP1	12/23/2003	Primary	0.180 ND
OP2	5/6/2003	Primary	0.034 J
OP2	5/13/2003	Primary	0.063 J
OP2	9/4/2003	Primary	0.110 J
OP2	9/11/2003	Primary	0.110 J
Outside Bldg #D	5/11/2006	Primary	0.043
Outside Bldg.43	4/13/2006	Primary	0.100
RES11-OUT	8/10/2004	EPA Primary	0.270 ND
RES11-OUT	1/25/2005	EPA Primary	0.270 ND
RES11-OUT	2/24/2005	EPA Primary	0.270 ND
RES12-OUT	11/16/2005	EPA Primary	0.270 ND
RES12-OUT	1/25/2006	EPA Primary	0.270 ND
RES14-OUT	3/15/2006	EPA Primary	0.270 ND
RES15B-OUT	4/25/2006	EPA Primary	0.270 ND
RES15B-OUT	9/26/2006	EPA Primary	0.270 ND
RES17-OUT	2/26/2007	EPA Primary	0.270 ND
RES1-OUT	3/11/2004	EPA Primary	0.280 ND
RES1-OUT	3/30/2004	EPA Primary	0.280 ND
RES4-OUT	3/11/2004	EPA Primary	0.280 ND
RES4-OUT	3/30/2004	EPA Primary	0.280 ND
RES4-OUT	7/21/2004	Primary	0.280 ND
RES4-OUT	5/11/2005	Primary	0.160
RES4-OUT	2/26/2007	EPA Primary	0.270 ND
RES4-OUT2	10/27/2004	Primary	0.180
RES4-OUT2	12/1/2004	Primary	0.180 ND
RES6-OUT	8/10/2004	EPA Primary	0.270 ND
RES6-OUT	12/8/2004	EPA Primary	0.280 ND
RES8-OUT	8/23/2004	EPA Primary	0.270 ND
RES8-OUT	1/25/2006	EPA Primary	0.270 ND

TABLE D5-1
TCE CONCENTRATIONS IN OUTDOOR AMBIENT AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
V-5	4/30/2003	Primary	0.070 J
V-5	5/1/2003	Primary	0.058 J
V-5	9/24/2003	Primary	0.150 ND
V-5	10/2/2003	Primary	0.200 ND
V-5	10/2/2003	Primary	0.150 ND
V-5	1/15/2004	Primary	0.180 ND
V-5	12/15/2004	Primary	0.200 ND
V-6	4/30/2003	Primary	0.074 J
V-6	5/1/2003	Primary	0.072 J
Wescoat PG (EPA)	11/24/2003	EPA Primary	0.270 ND

Notes:

ND = Not detected

J = Estimated value below the detection limit

TABLE D5-2
TCE CONCENTRATIONS IN BACKGROUND OUTDOOR AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
B258-1-24A-063003	6/30/2003	Primary	0.236
B258-1-24A-070203	7/2/2003	Primary	0.434
B258-1-24A-070803	7/8/2003	Primary	0.303
B258-1-24A-072303	7/23/2003	Primary	0.351
B258-1-24A-091604	9/16/2004	Primary	0.226
B258-24A 010306	1/3/2006	Primary	0.043 ND
B258-24A 010506	1/5/2006	Primary	0.238
B258-24A-010704	1/7/2004	Primary	2.398
B258-24A-010904	1/9/2004	Primary	1.258
B258-24A-011304	1/13/2004	Primary	1.517
B258-24A-011504	1/15/2004	Primary	2.543
B258-24A-012004	1/20/2004	Primary	1.967
B258-24A-012204	1/22/2004	Primary	0.703
B258-24A-012604	1/26/2004	Primary	0.507
B258-24A-012804	1/28/2004	Primary	0.546
B258-24A-020304	2/3/2004	Primary	0.467
B258-24A-020604	2/6/2004	Primary	0.641
B258-24A-021004	2/10/2004	Primary	0.582
B258-24A-021204	2/12/2004	Primary	0.633
B258-24A-021804	2/18/2004	Primary	0.550
B258-24A-022004	2/20/2004	Primary	0.495
B258-24A-022304	2/23/2004	Primary	0.422
B258-24A-022504	2/25/2004	Primary	0.300
B258-24A-030204	3/2/2004	Primary	0.297
B258-24A-030404	3/4/2004	Primary	0.374
B258-24A-030804	3/8/2004	Primary	0.562
B258-24A-031104	3/11/2004	Primary	0.562
B258-24A-031704	3/17/2004	Primary	0.505
B258-24A-031904	3/19/2004	Primary	0.397
B258-24A-032204	3/22/2004	Primary	0.278
B258-24A-032404	3/24/2004	Primary	0.234
B258-24A-033004	3/30/2004	Primary	0.251
B258-24A-040104	4/1/2004	Primary	0.215
B258-24A-040604	4/6/2004	Primary	0.293
B258-24A-040804	4/8/2004	Primary	0.308
B258-24A-041304	4/13/2004	Primary	0.097
B258-24A-041604	4/16/2004	Primary	0.080
B258-24A-041904	4/19/2004	Primary	0.054
B258-24A-042204	4/22/2004	Primary	0.181
B258-24A-042804	4/28/2004	Primary	0.078
B258-24A-050304	5/3/2004	Primary	0.073
B258-24A-050504	5/5/2004	Primary	0.062
B258-24A-051104	5/11/2004	Primary	0.063
B258-24A-051904	5/19/2004	Primary	0.028
B258-24A-060204	6/2/2004	Primary	0.040
B258-24A-060404	6/4/2004	Primary	0.046
B258-24A-061004	6/10/2004	Primary	0.079

TABLE D5-2
TCE CONCENTRATIONS IN BACKGROUND OUTDOOR AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
B258-24A-061704	6/17/2004	Primary	0.061
B258-24A-071103	7/11/2003	Primary	0.259
B258-24A-071205	7/12/2005	Primary	0.049 ND
B258-24A-071405	7/14/2005	Primary	0.047 ND
B258-24A-071603	7/16/2003	Primary	0.156
B258-24A-071703	7/17/2003	Primary	0.451
B258-24A-071905	7/19/2005	Primary	0.046 ND
B258-24A-072105	7/21/2005	Primary	0.045 ND
B258-24A-072403	7/24/2003	Primary	0.444
B258-24A-072903	7/29/2003	Primary	0.038
B258-24A-080103	8/1/2003	Primary	0.100
B258-24A-080403	8/4/2003	Primary	0.031
B258-24A-080703	8/7/2003	Primary	0.347
B258-24A-081303	8/13/2003	Primary	0.151
B258-24A-081503	8/15/2003	Primary	0.062
B258-24A-081903	8/19/2003	Primary	0.056
B258-24A-082103	8/21/2003	Primary	0.032
B258-24A-082503	8/25/2003	Primary	0.051
B258-24A-082803	8/28/2003	Primary	0.129
B258-24A-090203	9/2/2003	Primary	0.122
B258-24A-090403	9/4/2003	Primary	0.162
B258-24A-090704	9/7/2004	Primary	0.239
B258-24A-090904	9/9/2004	Primary	0.051 ND
B258-24A-091003	9/10/2003	Primary	0.217
B258-24A-091503	9/15/2003	Primary	6.691
B258-24A-091703	9/17/2003	Primary	4.892
B258-24A-092104	9/21/2004	Primary	0.463
B258-24A-092303	9/23/2003	Primary	5.537
B258-24A-092304	9/23/2004	Primary	0.535
B258-24A-092705	9/27/2005	Primary	0.045 ND
B258-24A-092804	9/28/2004	Primary	0.324
B258-24A-092905	9/29/2005	Primary	0.314
B258-24A-093004	9/30/2004	Primary	0.236
B258-24A-100504	10/5/2004	Primary	0.299
B258-24A-100704	10/7/2004	Primary	0.277
B258-24A-101204	10/12/2004	Primary	0.478
B258-24A-101404	10/14/2004	Primary	0.606
B258-24A-101904	10/19/2004	Primary	0.184
B258-24A-102104	10/21/2004	Primary	0.243
B258-24A-102604	10/26/2004	Primary	0.237
B258-24A-102804	10/28/2004	Primary	0.229
B258-24A-122203	12/22/2003	Primary	2.705
B258-24A-122903	12/29/2003	Primary	1.887
B258-24B-091404	9/14/2004	Primary	0.445
B258-24B-092603	9/26/2003	Primary	0.090
ENCINAL	5/6/2003	Primary	0.190 ND
ENCINAL	5/10/2003	Primary	0.093 ND

TABLE D5-2
TCE CONCENTRATIONS IN BACKGROUND OUTDOOR AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
ENCINAL	5/13/2003	Primary	0.180 ND
ENCINAL	5/17/2003	Primary	0.550 ND
ENCINAL	9/27/2003	Primary	0.180 ND
ENCINAL	10/2/2003	Primary	0.190 ND
ENCINAL	10/4/2003	Primary	0.180 ND
ENCINAL	10/7/2003	Primary	0.190 ND
MOFFETT10	5/6/2003	Primary	0.180 ND
MOFFETT10	5/10/2003	Primary	0.177 ND
MOFFETT10	5/13/2003	Primary	0.200 ND
MOFFETT10	9/27/2003	Primary	0.180 ND
MOFFETT10	10/2/2003	Primary	0.180 ND
MOFFETT10	10/4/2003	Primary	0.180 ND
MOFFETT10	10/7/2003	Primary	0.190 ND
MOFFETT10 A	5/17/2003	Primary	0.091 ND
MOFFETT10 B	5/17/2003	Primary	0.432 ND
SANVERON	5/10/2003	Primary	0.194 ND
SANVERON	5/13/2003	Primary	0.180 ND
SANVERON	9/27/2003	Primary	0.350
SANVERON	10/2/2003	Primary	0.190 ND
SANVERON	10/4/2003	Primary	0.180 ND
SANVERON	10/7/2003	Primary	0.200 ND
SANVERON A	5/6/2003	Primary	0.240 ND
SANVERON A	5/17/2003	Primary	0.181 ND
SANVERON B	5/6/2003	Primary	0.200 ND
SANVERON B	5/17/2003	Primary	0.184 ND
SYLVAN	5/6/2003	Primary	0.180 ND
SYLVAN	5/13/2003	Primary	0.180 ND
SYLVAN	5/17/2003	Primary	0.475 ND
SYLVAN	9/27/2003	Primary	0.180 ND
SYLVAN	10/2/2003	Primary	0.180 ND
SYLVAN	10/4/2003	Primary	0.190 ND
SYLVAN	10/7/2003	Primary	0.180 ND
SYLVAN A	5/10/2003	Primary	0.101 ND
SYLVAN A	6/9/2003	Primary	0.180 ND
SYLVAN B	5/10/2003	Primary	0.191 ND
SYLVAN B	6/9/2003	Primary	0.600
Whisman Park - Mtn.View	5/21/2004	Primary	0.269 ND
Whisman Park - Mtn.View	6/2/2004	Primary	0.269 ND
Whisman Park - Mtn.View	6/22/2004	Primary	0.269 ND
Whisman Park - Mtn.View	6/26/2004	Primary	0.269
Whisman Park - Mtn.View	7/8/2004	Primary	0.322
Whisman Park - Mtn.View	7/20/2004	Primary	0.269
Whisman Park - Mtn.View	8/1/2004	Primary	0.269 ND
Whisman Park - Mtn.View	8/13/2004	Primary	0.269 ND
Whisman Park - Mtn.View	9/6/2004	Primary	0.269 ND
Whisman Park - Mtn.View	9/24/2004	Primary	0.269
Whisman Park - Mtn.View	9/28/2004	Primary	0.269 ND

TABLE D5-2
TCE CONCENTRATIONS IN BACKGROUND OUTDOOR AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
Whisman Park - Mtn.View	9/30/2004	Primary	0.269 ND
Whisman Park - Mtn.View	10/12/2004	Primary	0.322
Whisman Park - Mtn.View	10/24/2004	Primary	0.269 ND
Whisman Park - Mtn.View	11/5/2004	Primary	0.537
Whisman Park - Mtn.View	11/17/2004	Primary	0.269 ND
Whisman Park - Mtn.View	11/29/2004	Primary	0.269 ND
Whisman Park - Mtn.View	12/11/2004	Primary	0.269 ND
Whisman Park - Mtn.View	12/23/2004	Primary	0.269 ND
Whisman Park - Mtn.View	1/4/2005	Primary	0.269 ND
Whisman Park - Mtn.View	1/16/2005	Primary	0.269 ND
Whisman Park - Mtn.View	1/28/2005	Primary	0.269 ND
Whisman Park - Mtn.View	2/11/2005	Primary	0.269 ND
Whisman Park - Mtn.View	2/21/2005	Primary	0.269 ND
Whisman Park - Mtn.View	3/5/2005	Primary	0.269 ND
Whisman Park - Mtn.View	4/3/2005	Primary	0.269 ND
Whisman Park - Mtn.View	4/10/2005	Primary	0.269 ND
Whisman Park - Mtn.View	4/16/2005	Primary	0.269 ND
Whisman Park - Mtn.View	4/22/2005	Primary	0.269 ND
Whisman Park - Mtn.View	5/12/2005	Primary	0.269 ND
Whisman Park - Mtn.View	5/16/2005	Primary	0.269 ND
Whisman Park - Mtn.View	5/28/2005	Primary	0.269 ND
Whisman Park - Mtn.View	6/9/2005	Primary	0.269 ND
Whisman Park - Mtn.View	6/21/2005	Primary	0.269 ND
Whisman Park - Mtn.View	7/3/2005	Primary	0.269 ND
Whisman Park - Mtn.View	7/15/2005	Primary	0.269 ND
Whisman Park - Mtn.View	7/27/2005	Primary	0.269 ND
Whisman Park - Mtn.View	8/8/2005	Primary	0.269 ND
Whisman Park - Mtn.View	8/20/2005	Primary	0.269 ND
Whisman Park - Mtn.View	9/1/2005	Primary	0.269 ND
Whisman Park - Mtn.View	9/13/2005	Primary	0.269 ND
Whisman Park - Mtn.View	9/25/2005	Primary	0.269 ND
Whisman Park - Mtn.View	10/7/2005	Primary	0.269 ND
Whisman Park - Mtn.View	10/19/2005	Primary	0.269 ND
Whisman Park - Mtn.View	10/31/2005	Primary	0.269 ND
Whisman Park - Mtn.View	11/16/2005	Primary	0.269 ND
Whisman Park - Mtn.View	11/30/2005	Primary	0.269 ND
Whisman Park - Mtn.View	12/6/2005	Primary	0.269 ND
Whisman Park - Mtn.View	12/18/2005	Primary	0.269 ND
Whisman Park - Mtn.View	12/30/2005	Primary	0.269 ND
REFMOFFETT	5/5/2003	Primary	0.180 ND
REFMOFFETT	5/9/2003	Primary	0.097 ND
REFMOFFETT	5/12/2003	Primary	0.180 ND
REFMOFFETT	9/3/2003	EPA Primary	0.260 ND
REFMOFFETT	9/10/2003	EPA Primary	0.310
REFMOFFETT	9/24/2003	Primary	0.160 ND
REFMOFFETT	9/26/2003	Primary	0.170 ND
REFMOFFETT	10/1/2003	Primary	0.180 ND

TABLE D5-2
TCE CONCENTRATIONS IN BACKGROUND OUTDOOR AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
REFMOFFETT	10/3/2003	Primary	0.170 ND
REFMOFFETT	10/6/2003	Primary	0.180 ND
REFMOFFETT A	5/16/2003	Primary	0.092 ND
REFMOFFETT B	5/16/2003	Primary	0.954 ND
REFMV PUB	5/5/2003	Primary	0.200 ND
REFMV PUB	5/12/2003	Primary	0.180 ND
REFMV PUB	5/16/2003	Primary	0.255 ND
REFMV PUB	9/3/2003	EPA Primary	0.260 ND
REFMV PUB	9/10/2003	EPA Primary	0.260 ND
REFMV PUB	9/24/2003	Primary	0.220 ND
REFMV PUB	9/26/2003	Primary	0.170 ND
REFMV PUB	10/1/2003	Primary	0.180 ND
REFMV PUB	10/3/2003	Primary	0.170 ND
REFMV PUB	10/6/2003	Primary	0.220
REFMV PUB-D	9/10/2003	EPA Primary	0.260 ND
REFNEC	4/30/2003	EPA Primary	0.260 ND
REFNEC	4/30/2003	EPA Primary	0.290 ND
REFNEC	5/1/2003	EPA Primary	0.260 ND
REFNEC	5/1/2003	EPA Primary	0.290 ND
REFNEC	5/9/2003	Primary	0.187 ND
REFNEC	5/12/2003	Primary	0.180 ND
REFNEC	5/16/2003	Primary	0.191 ND
REFNEC	9/24/2003	Primary	0.180 ND
REFNEC	10/1/2003	Primary	0.180 ND
REFNEC	10/3/2003	Primary	0.180 ND
REFNEC	10/6/2003	Primary	0.170 ND
REFNEC 2	5/5/2003	Primary	0.180 ND
REFOFFICE	4/30/2003	EPA Primary	0.260 ND
REFOFFICE	5/1/2003	EPA Primary	0.260 ND
REFOFFICE	5/5/2003	Primary	0.180 ND
REFOFFICE	5/9/2003	Primary	0.093 ND
REFOFFICE	5/16/2003	Primary	0.193 ND
REFOFFICE	9/3/2003	EPA Primary	0.260 ND
REFOFFICE	9/10/2003	EPA Primary	0.260 ND
REFOFFICE	9/24/2003	Primary	0.150 ND
REFOFFICE	9/26/2003	Primary	0.170 ND
REFOFFICE	10/1/2003	Primary	0.180 ND
REFOFFICE	10/3/2003	Primary	0.500
REFOFFICE	10/6/2003	Primary	0.170 ND
REFOFFICE A	5/12/2003	Primary	0.230 ND
REFOFFICE B	5/12/2003	Primary	0.200 ND
REFOFFICE-D	9/3/2003	EPA Primary	0.260 ND
REFRES	4/30/2003	EPA Primary	0.260 ND
REFRES	5/1/2003	EPA Primary	0.260 ND
REFRES	5/5/2003	Primary	0.180 ND
REFRES	5/9/2003	Primary	0.196 ND
REFRES	5/12/2003	Primary	0.180 ND

TABLE D5-2
TCE CONCENTRATIONS IN BACKGROUND OUTDOOR AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

Location/ Sample ID	Sample Date	Duplicates	TCE
REFRES	5/16/2003	Primary	0.234 ND
REFRES	9/3/2003	EPA Primary	0.260 ND
REFRES	9/10/2003	EPA Primary	0.260 ND
REFRES	9/26/2003	Primary	0.180 ND
REFRES	10/1/2003	Primary	0.170 ND
REFRES	10/6/2003	Primary	0.160 ND
REFSLATER	4/30/2003	EPA Primary	0.260 ND
REFSLATER	5/1/2003	EPA Primary	0.150 J
REFSLATER	5/5/2003	Primary	0.180 ND
REFSLATER	5/9/2003	Primary	0.121 ND
REFSLATER	5/12/2003	Primary	0.200 ND
REFSLATER	5/16/2003	Primary	0.511 ND
REFSLATER	9/3/2003	EPA Primary	0.260 ND
REFSLATER	9/10/2003	EPA Primary	0.260 ND
REFSLATER	9/24/2003	Primary	0.200
REFSLATER	9/26/2003	Primary	0.160 ND
REFSLATER	10/1/2003	Primary	0.190 ND
REFSLATER	10/3/2003	Primary	0.180 ND
REFSLATER	3/11/2004	EPA Primary	0.280 ND
REFSLATER	3/30/2004	EPA Primary	0.280 ND
REFSLATER	8/10/2004	EPA Primary	0.270 ND
REFSLATER	12/8/2004	EPA Primary	0.270 ND
REFSLATER	9/26/2006	EPA Primary	0.910 ND
REFVERNON	4/30/2003	EPA Primary	0.260 ND
REFVERNON	5/1/2003	EPA Primary	0.260 ND
REFVERNON	5/5/2003	Primary	0.180 ND
REFVERNON	5/9/2003	Primary	0.222 ND
REFVERNON	9/3/2003	EPA Primary	0.260 ND
REFVERNON	9/10/2003	EPA Primary	0.260 ND
REFVERNON	9/24/2003	Primary	0.160 ND
REFVERNON	9/26/2003	Primary	0.180 ND
REFVERNON	10/1/2003	Primary	0.170 ND
REFVERNON	10/3/2003	Primary	0.170 ND
REFVERNON	10/6/2003	Primary	0.180 ND
REFWESCOAT	4/30/2003	EPA Primary	0.260 ND
REFWESCOAT	5/1/2003	EPA Primary	0.260 ND
REFWESCOAT	5/9/2003	Primary	0.206 ND
REFWESCOAT	5/12/2003	Primary	0.190 ND
REFWESCOAT	5/16/2003	Primary	0.193 ND
REFWESCOAT	9/3/2003	EPA Primary	0.260 ND
REFWESCOAT	9/10/2003	EPA Primary	0.260 ND
REFWESCOAT	9/24/2003	Primary	0.150 ND
REFWESCOAT	9/26/2003	Primary	0.170 ND
REFWESCOAT	10/1/2003	Primary	0.230
REFWESCOAT	10/3/2003	Primary	0.170 ND
REFWESCOAT	10/6/2003	Primary	9.900
REFWESCOAT	11/10/2003	Primary	0.220 ND

TABLE D5-2
TCE CONCENTRATIONS IN BACKGROUND OUTDOOR AIR
FINAL SUPPLEMENTAL REMEDIAL INVESTIGATION
FOR VAPOR INTRUSION PATHWAY
MEW STUDY AREA, MOUNTAIN VIEW AND MOFFETT FIELD, CA

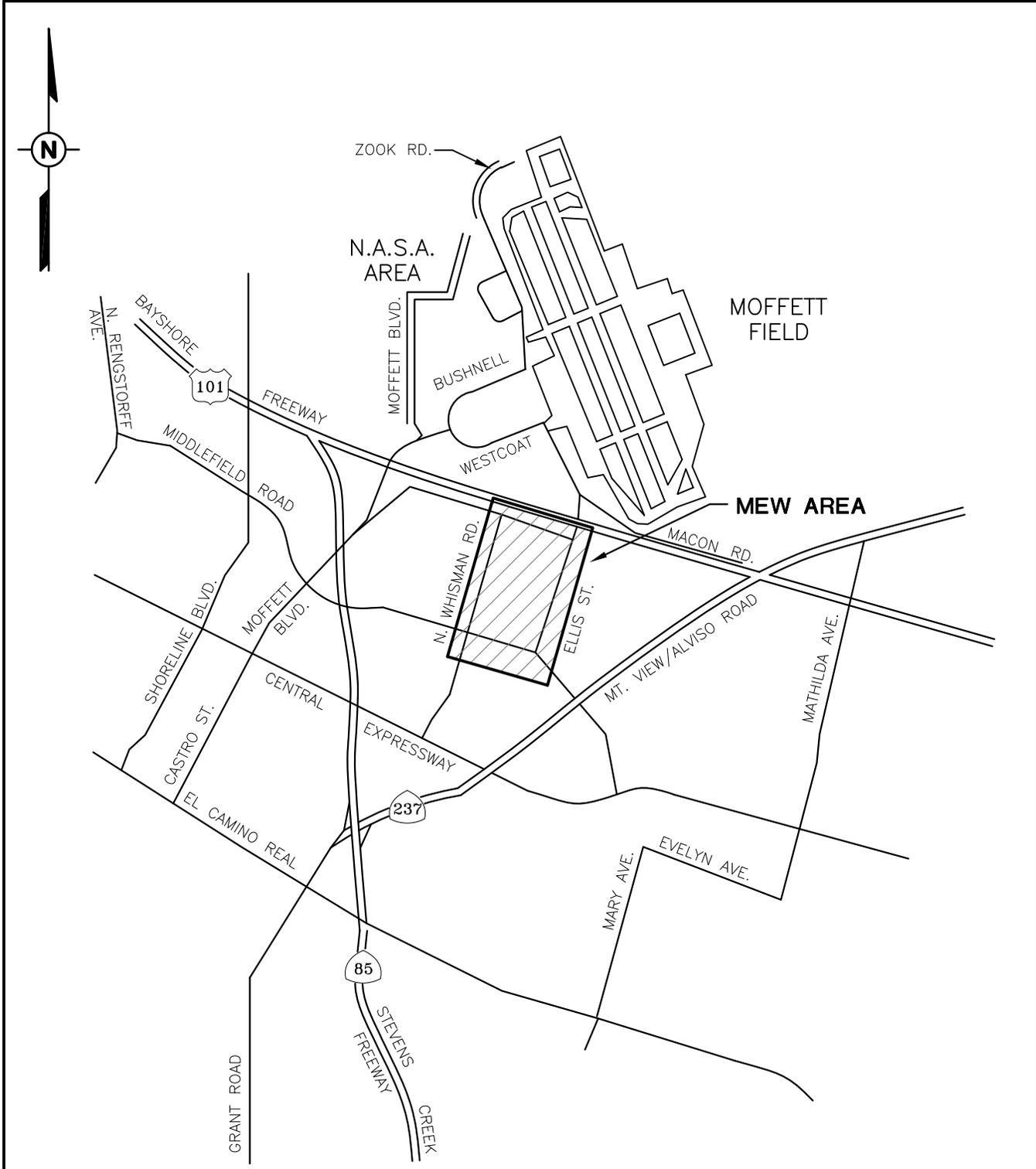
Location/ Sample ID	Sample Date	Duplicates	TCE
REFWESCOAT	11/11/2003	Primary	0.220
REFWHISMAN	4/30/2003	EPA Primary	0.260 ND
REFWHISMAN	5/1/2003	EPA Primary	0.260 ND
REFWHISMAN	5/5/2003	Primary	0.240 ND
REFWHISMAN	5/9/2003	Primary	0.196 ND
REFWHISMAN	5/12/2003	Primary	0.190 ND
REFWHISMAN	5/16/2003	Primary	0.119 ND
REFWHISMAN	9/3/2003	EPA Primary	0.260 ND
REFWHISMAN	9/10/2003	EPA Primary	0.260 ND
REFWHISMAN	9/24/2003	Primary	0.220 ND
REFWHISMAN	9/26/2003	Primary	0.170 ND
REFWHISMAN	10/1/2003	Primary	0.170 ND
REFWHISMAN	10/3/2003	Primary	0.180 ND
REFWHISMAN	10/6/2003	Primary	0.540
REFWHISMAN	3/11/2004	EPA Primary	0.280 ND
REFWHISMAN	3/30/2004	EPA Primary	0.280 ND
REFWHISMAN	8/10/2004	EPA Primary	0.270 ND
REFWHISMAN	12/8/2004	EPA Primary	0.270 ND

Notes:

ND = Not detected

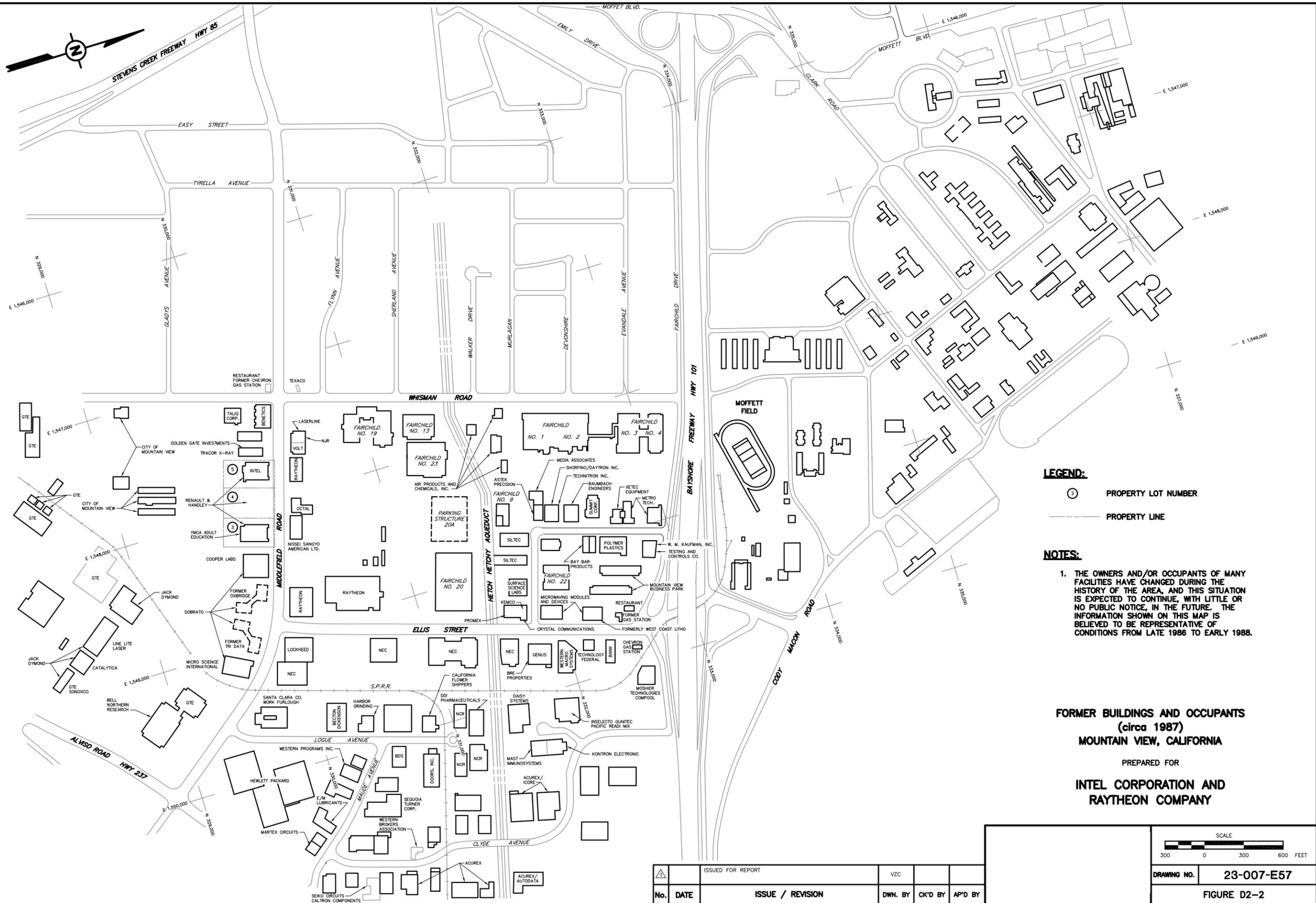
J = Estimated value below the detection limit

FIGURES



SITE LOCATION MAP
MOUNTAIN VIEW, CALIFORNIA
PREPARED FOR
**FAIRCHILD
SEMICONDUCTOR CORP.**

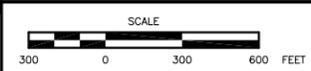
No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY	SCALE: N.T.S.	
						DRAWING NO.	97-023-A45
						FIGURE D2-1	



LEGEND:
 (3) PROPERTY LOT NUMBER
 - - - - - PROPERTY LINE

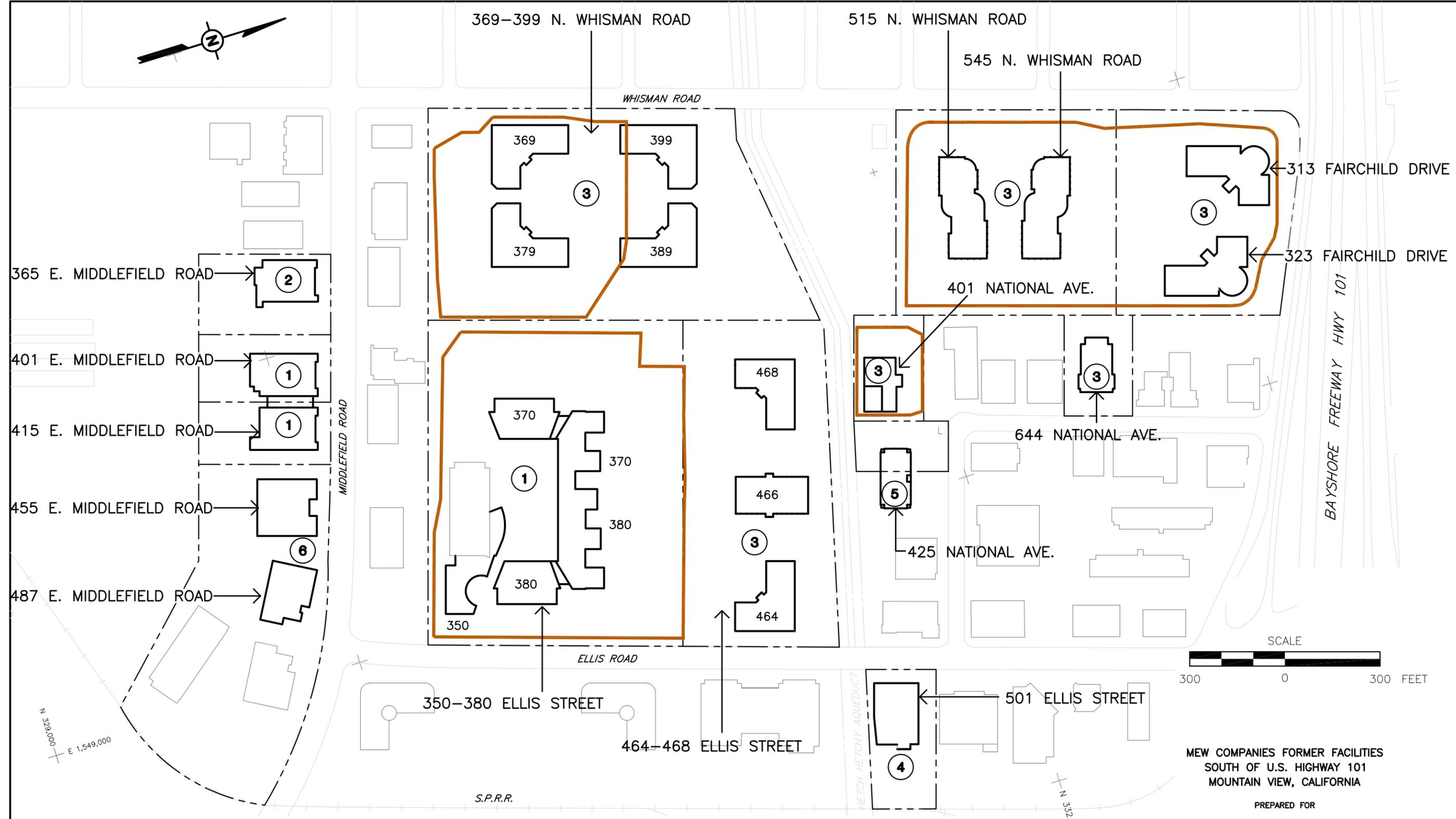
NOTES:
 1. THE OWNERS AND/OR OCCUPANTS OF MANY FACILITIES HAVE CHANGED DURING THE HISTORY OF THE AREA, AND THIS SITUATION IS EXPECTED TO CONTINUE, WITH LITTLE OR NO PUBLIC NOTICE, IN THE FUTURE. THE INFORMATION SHOWN ON THIS MAP IS BELIEVED TO BE REPRESENTATIVE OF CONDITIONS FROM LATE 1986 TO EARLY 1988.

**FORMER BUILDINGS AND OCCUPANTS
 (circa 1987)
 MOUNTAIN VIEW, CALIFORNIA**
 PREPARED FOR
**INTEL CORPORATION AND
 RAYTHEON COMPANY**



DRAWING NO. 23-007-E57
FIGURE D2-2

ISSUED FOR REPORT	VZC		
No.	DATE	ISSUE / REVISION	DWN. BY CK'D BY AP'D BY



MEW COMPANIES FORMER FACILITIES
 SOUTH OF U.S. HIGHWAY 101
 MOUNTAIN VIEW, CALIFORNIA
 PREPARED FOR
MEW COMPANIES

LEGEND:

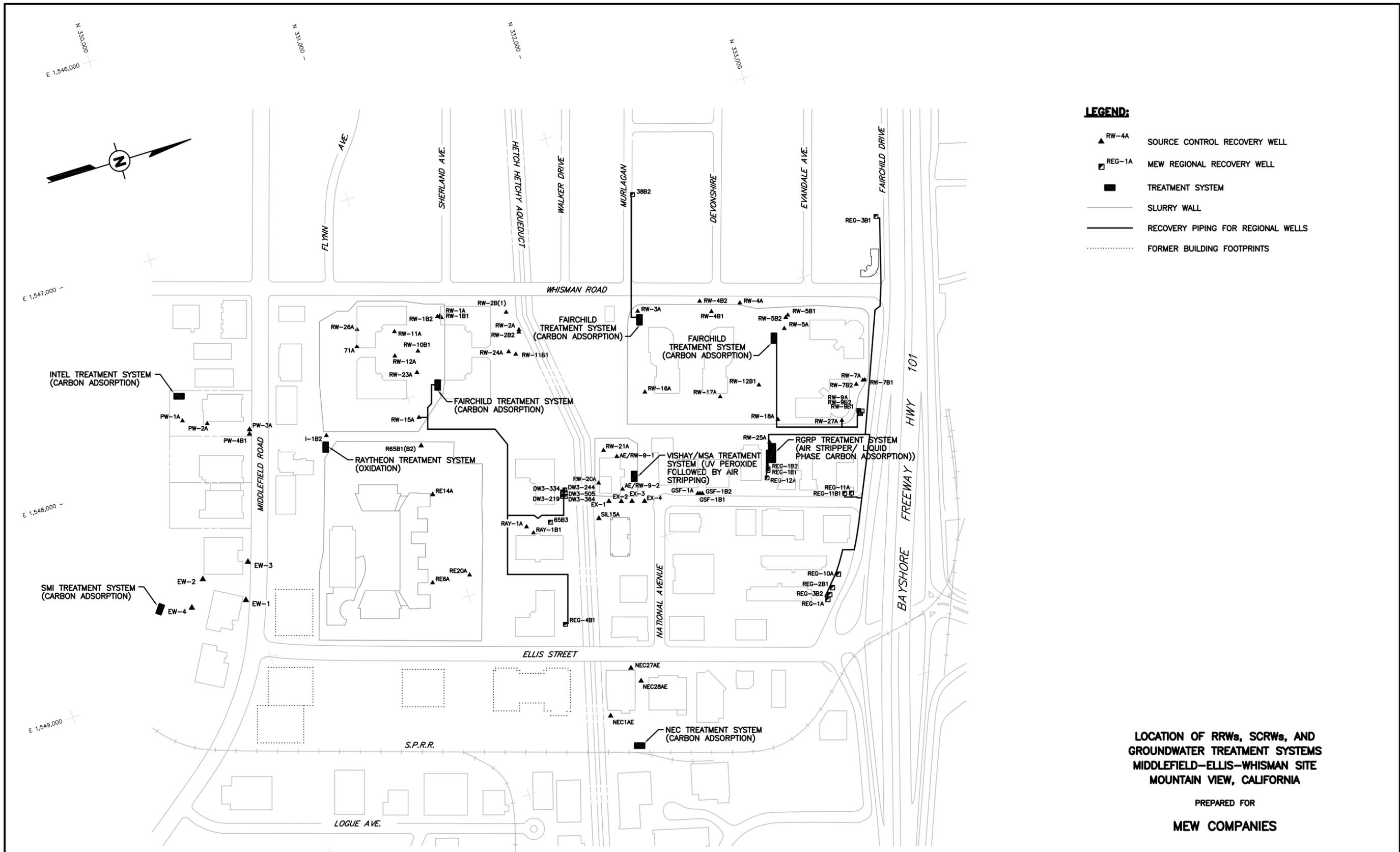
- ① RAYTHEON COMPANY
- ② INTEL CORPORATION
- ③ FAIRCHILD SEMICONDUCTOR CORPORATION
- ④ NEC ELECTRONICS, INC.
- ⑤ SUMITOMO MITSUBISHI SILICON CORPORATION/
VISHAY GENERAL SEMICONDUCTOR, INC.
- ⑥ SMI HOLDING LLC
- PROPERTY BOUNDARIES
- SLURRY WALL

12 DEC 03	ISSUED FOR REPORT	VZC	WH
No.	DATE	ISSUE / REVISION	DWN. BY CK'D BY AP'D BY

SCALE: AS SHOWN	
DRAWING NO.	23-007-B47
FIGURE D2-3	



- LEGEND:**
- ▲ RW-4A SOURCE CONTROL RECOVERY WELL
 - REG-1A MEW REGIONAL RECOVERY WELL
 - TREATMENT SYSTEM
 - SLURRY WALL
 - RECOVERY PIPING FOR REGIONAL WELLS
 - FORMER BUILDING FOOTPRINTS



LOCATION OF RRWs, SCRWs, AND
GROUNDWATER TREATMENT SYSTEMS
MIDDLEFIELD-ELLIS-WHISMAN SITE
MOUNTAIN VIEW, CALIFORNIA

PREPARED FOR
MEW COMPANIES



7 AUG 06	ISSUED FOR REPORT	VZC	JDR	EIH	
No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY

DRAWING NO.	23-016-E30
FIGURE D2-4	

STEVENS CREEK OUTFALL CONSTRUCTION DETAILS
SEE DWG. NO. 97-185-E72

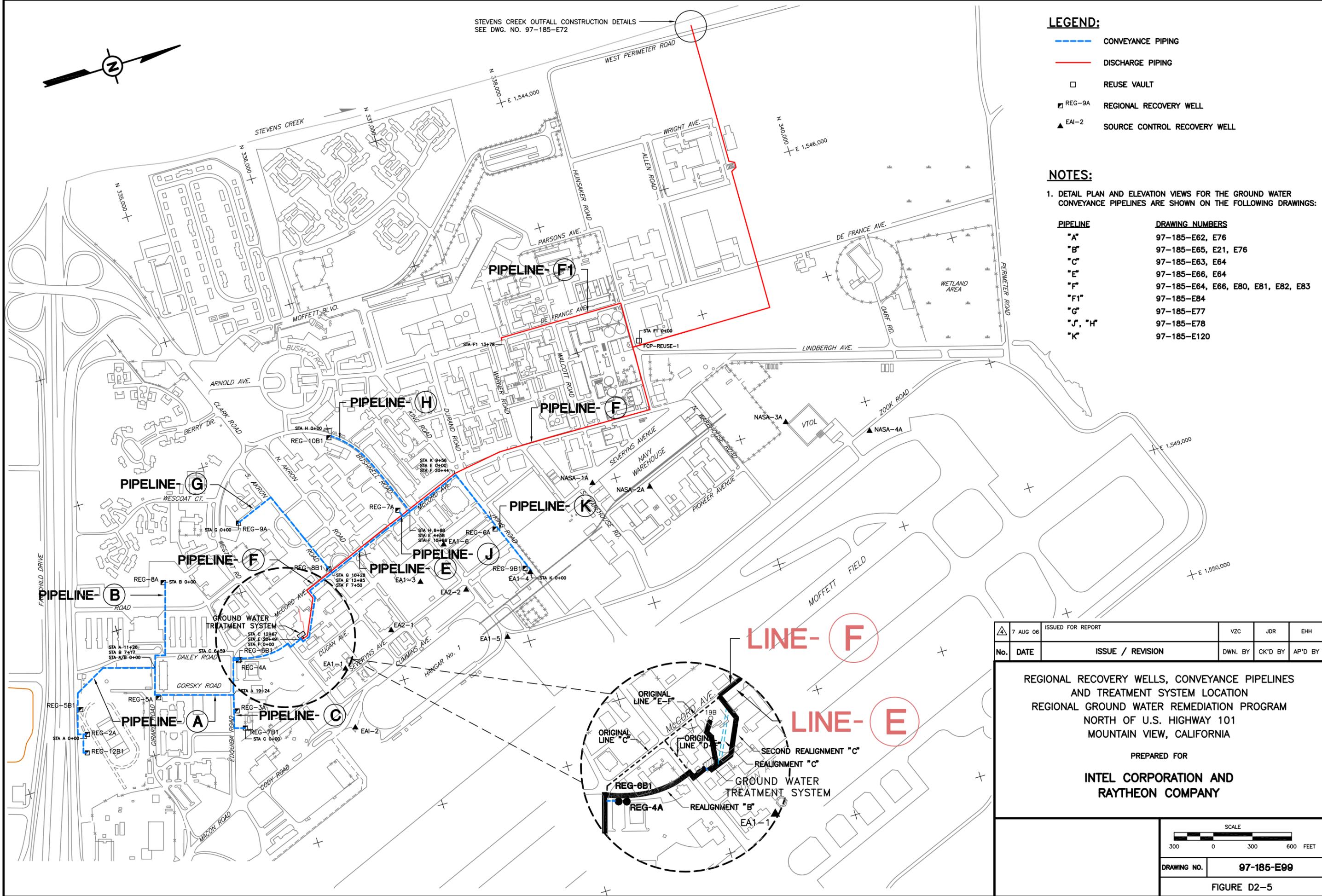
LEGEND:

- CONVEYANCE PIPING
- DISCHARGE PIPING
- REUSE VAULT
- REG-9A REGIONAL RECOVERY WELL
- ▲ EAI-2 SOURCE CONTROL RECOVERY WELL

NOTES:

1. DETAIL PLAN AND ELEVATION VIEWS FOR THE GROUND WATER CONVEYANCE PIPELINES ARE SHOWN ON THE FOLLOWING DRAWINGS:

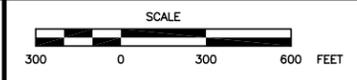
PIPELINE	DRAWING NUMBERS
"A"	97-185-E62, E76
"B"	97-185-E65, E21, E76
"C"	97-185-E63, E64
"E"	97-185-E66, E64
"F"	97-185-E64, E66, E80, E81, E82, E83
"F1"	97-185-E84
"G"	97-185-E77
"J", "H"	97-185-E78
"K"	97-185-E120



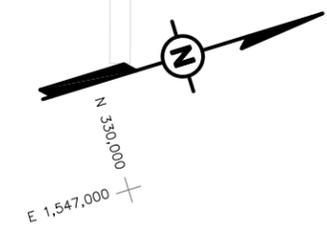
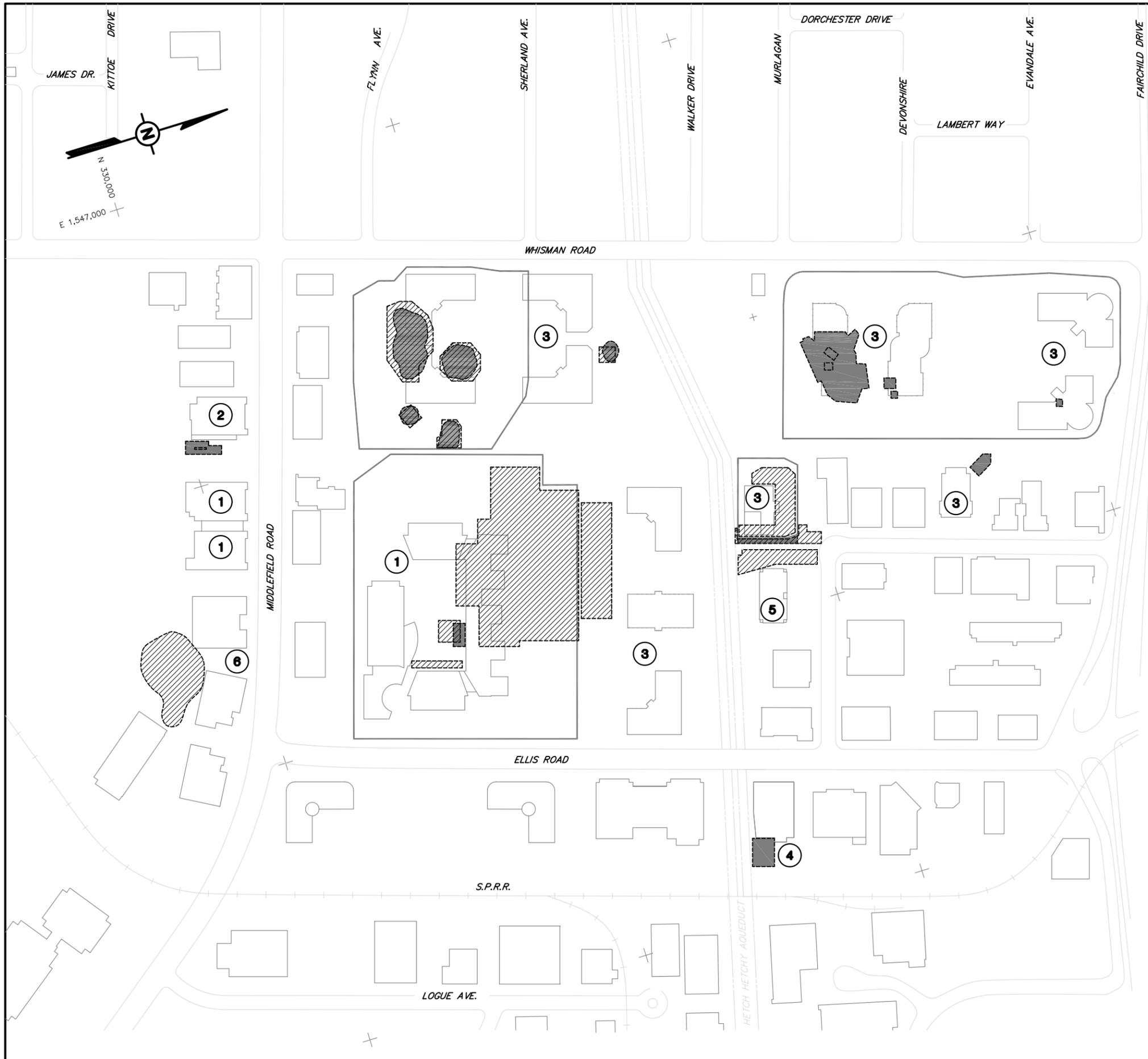
7 AUG 06	ISSUED FOR REPORT	VZC	JDR	EHH	
No.	DATE	ISSUE / REVISION	DNW. BY	CK'D BY	AP'D BY

REGIONAL RECOVERY WELLS, CONVEYANCE PIPELINES
AND TREATMENT SYSTEM LOCATION
REGIONAL GROUND WATER REMEDIATION PROGRAM
NORTH OF U.S. HIGHWAY 101
MOUNTAIN VIEW, CALIFORNIA

PREPARED FOR
**INTEL CORPORATION AND
RAYTHEON COMPANY**



DRAWING NO.	97-185-E99
FIGURE D2-5	



LEGEND:

- ① RAYTHEON COMPANY
- ② INTEL CORPORATION
- ③ FAIRCHILD SEMICONDUCTOR CORPORATION
- ④ NEC ELECTRONICS, INC.
- ⑤ SUMITOMO MITSUBISHI SILICON CORPORATION/
VISHAY GENERAL SEMICONDUCTOR, INC.
- ⑥ SMI HOLDING LLC
-  AREAS OF EXCAVATION
-  AREA REMEDIATED BY
SOIL VAPOR EXTRACTION

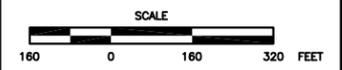
NOTES:

1. NO SOIL REMEDIATION WAS PERFORMED FOR THE REGIONAL PROGRAM NORTH OF U.S. HIGHWAY 101.

6 JAN 04	ISSUED FOR REPORT	VZC	JDR	EHH	
No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY

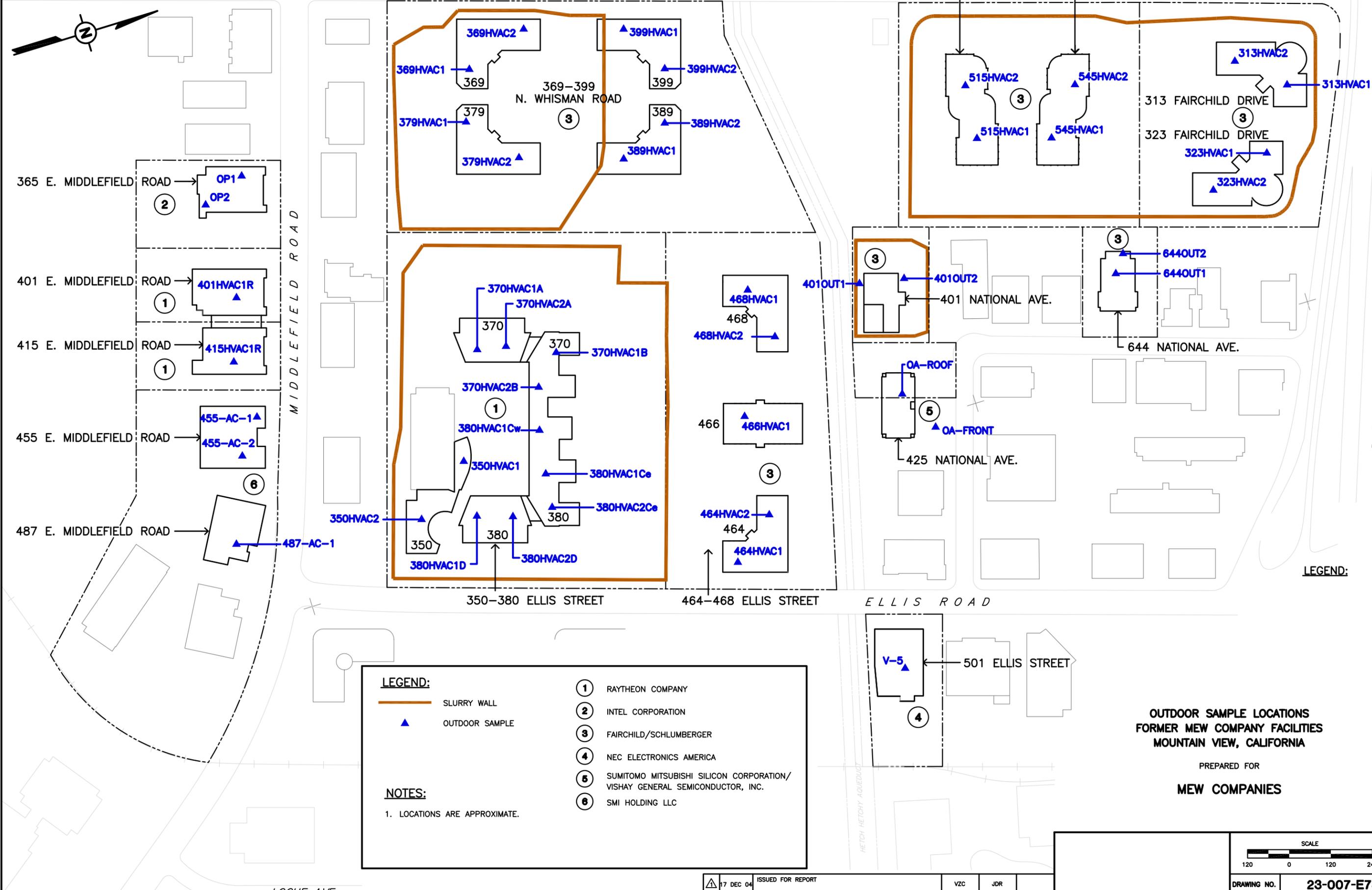
**LOCATION OF SOIL CLEANUP ACTIVITIES
MEW FACILITIES
SOUTH OF U.S. HIGHWAY 101
MOUNTAIN VIEW, CALIFORNIA**

PREPARED FOR
MEW COMPANIES



DRAWING NO. **23-007-E4**

FIGURE D2-6



LEGEND:

- SLURRY WALL
- ▲ OUTDOOR SAMPLE

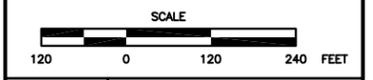
NOTES:

1. LOCATIONS ARE APPROXIMATE.

- ① RAYTHEON COMPANY
- ② INTEL CORPORATION
- ③ FAIRCHILD/SCHLUMBERGER
- ④ NEC ELECTRONICS AMERICA
- ⑤ SUMITOMO MITSUBISHI SILICON CORPORATION/
VISHAY GENERAL SEMICONDUCTOR, INC.
- ⑥ SMI HOLDING LLC

**OUTDOOR SAMPLE LOCATIONS
FORMER MEW COMPANY FACILITIES
MOUNTAIN VIEW, CALIFORNIA**

PREPARED FOR
MEW COMPANIES



No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
	17 DEC 04	ISSUED FOR REPORT	VZC	JDR	

DRAWING NO. **23-007-E73**

FIGURE D5-1

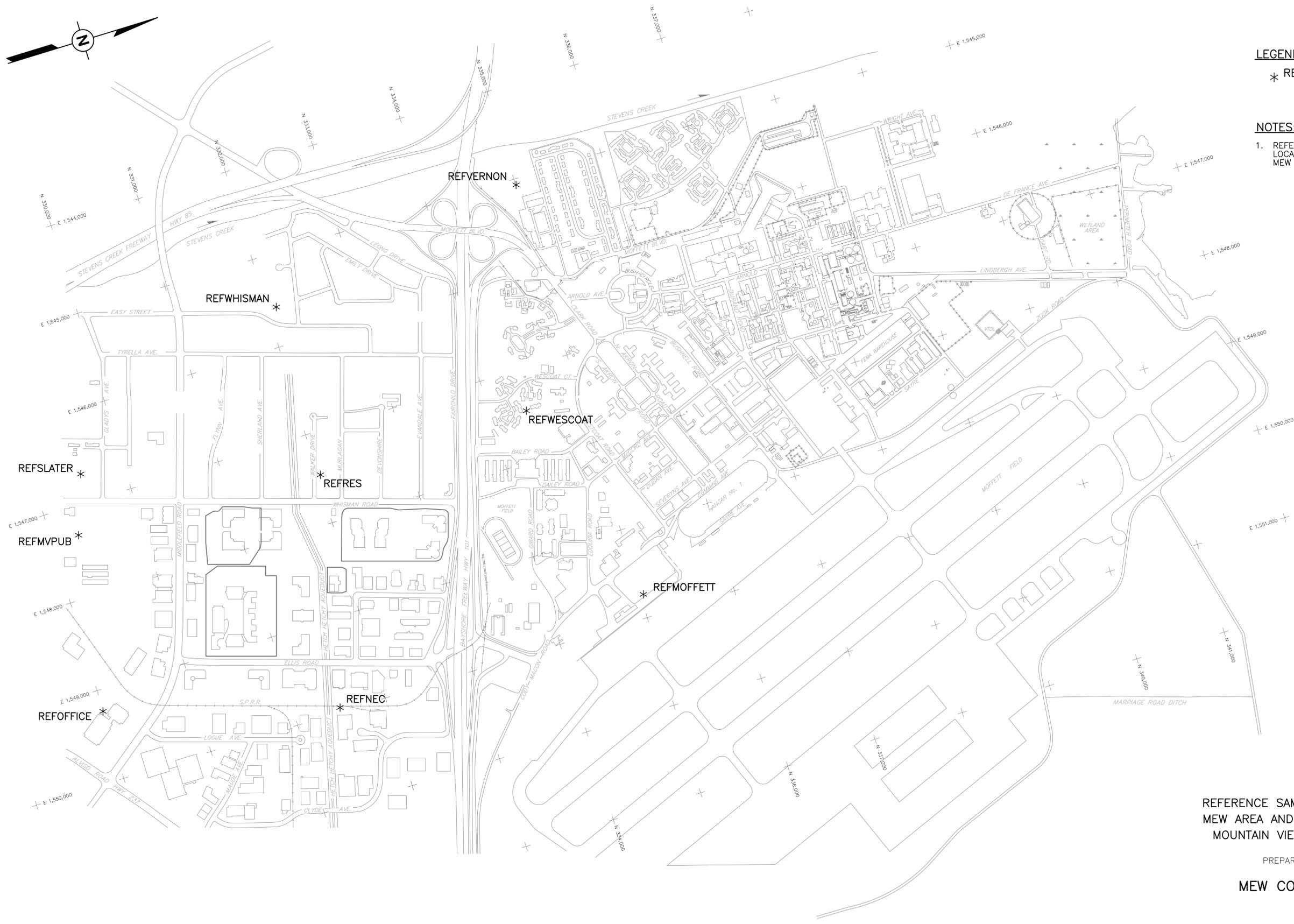


LEGEND:

* REFRES REFERENCE SAMPLE LOCATION

NOTES:

1. REFERENCE SAMPLE LOCATIONS WERE LOCATED 0.25-1 MILES FROM THE MEW SITE.



REFERENCE SAMPLE LOCATIONS
MEW AREA AND MOFFETT FIELD
MOUNTAIN VIEW, CALIFORNIA

PREPARED FOR
MEW COMPANIES



29 SEP 06	ISSUED FOR REPORT	VZC	CNN	JDR	
No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY

DRAWING NO.	23-007-E127
FIGURE D5-3	



LEGEND:

● BACKGROUND SAMPLE LOCATION

BACKGROUND SAMPLE LOCATIONS

PREPARED FOR

MEW COMPANIES

29 SEP 06	ISSUED FOR REPORT	VZC	CNN	JDR	
No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY

SCALE: N T S	
DRAWING NO.	23-007-A131
FIGURE D5-4	

ATTACHMENT A

STATISTICAL ANALYSES

Supporting Information

Table A-1. Summary of Statistical Comparison of Outdoor Air to Background TCE Concentrations

Wilcoxon Rank-Sum non-parametric test						
	N	Rank-Sum	W-statistic	P-value	Conclusion of Test	
Outdoor	229	35,682	2.9015	0.9981	Outdoor air concentrations are equal to or less than background concentrations	
Background	102	19,264				
ANOVA with Fisher's parametric assessment^a						
Overall ANOVA						
	df	Sum Sqrs	Mean Sqr	F-statistic	P-value	Conclusion of Test
Outdoor/Background	1	1.2022	1.2022	4.8743	0.0279	A difference exists between groups
Residuals	329	81.1454	0.2466			Use Fisher's test to test direction (see below)
Fisher's multiple comparison test						
		Estimate	Std.Error	Confidence bounds	Conclusion of Test	
Background - Outdoor		0.1310	0.0591	--	0.228	Outdoor air concentrations are equal to or less than background concentrations

^a Parametric assessment performed on log₁₀-transformed concentrations

Table A-2. Summary of Variance and Distribution Test Results

F-Test Variance Test^a				
	df	F-statistic	P-value	Conclusion
Outdoor	101	1.0279	0.8537	variances are equal
Background	228			
Shapiro-Wilks Distributional Tests				
	N	W-statistic	P-value	Conclusion
Normal				
Outdoor	229	0.2897	<0.0001	not normally distributed
Background	102	0.4099	<0.0001	not normally distributed
Lognormal				
Outdoor	229	0.9490	<0.0001	not lognormally distributed
Background	102	0.9499	0.0007	not lognormally distributed

^a F-test of variances was performed on log₁₀-transformed concentrations

Figure A-1. Normal and Lognormal Probability Plots

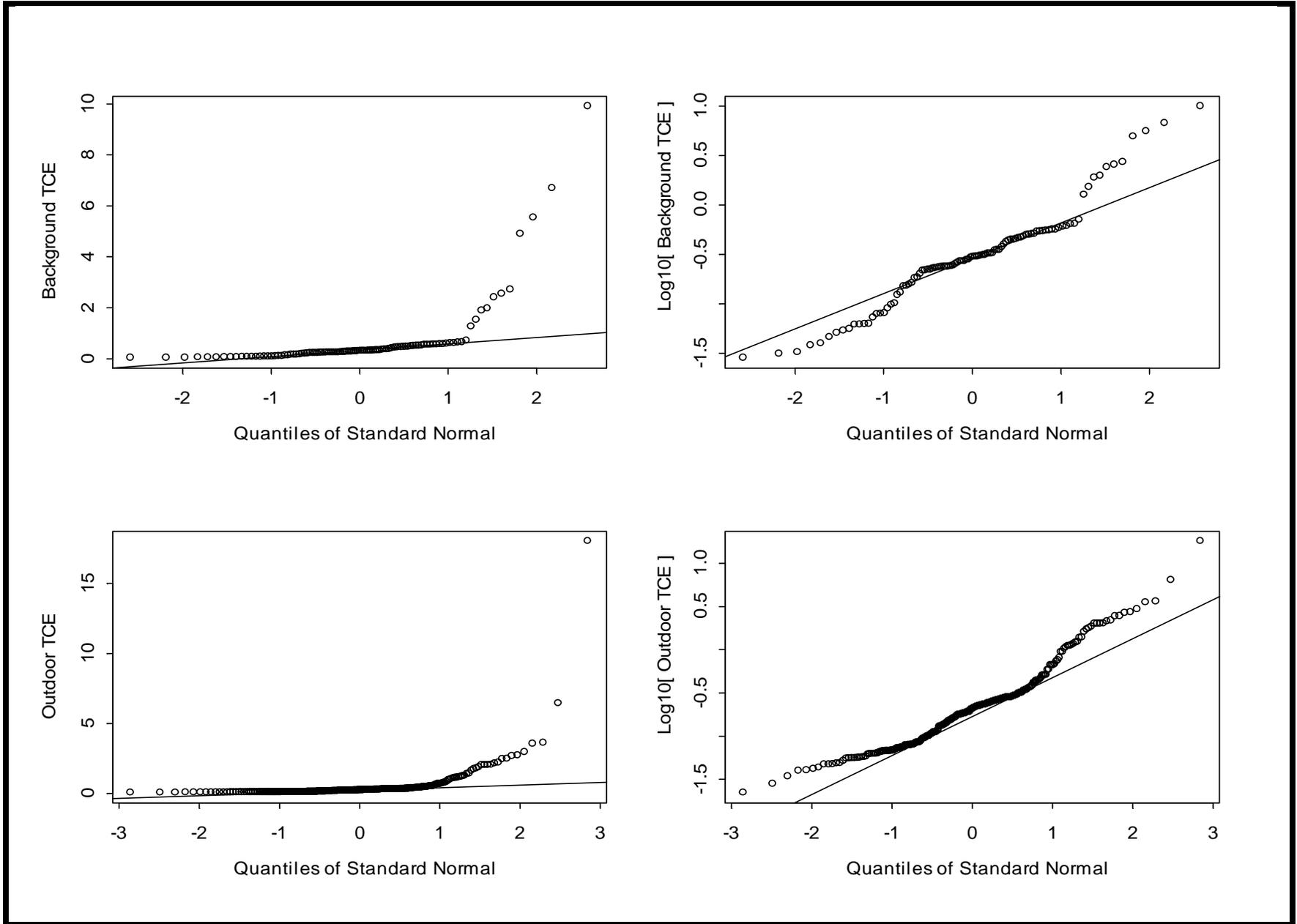
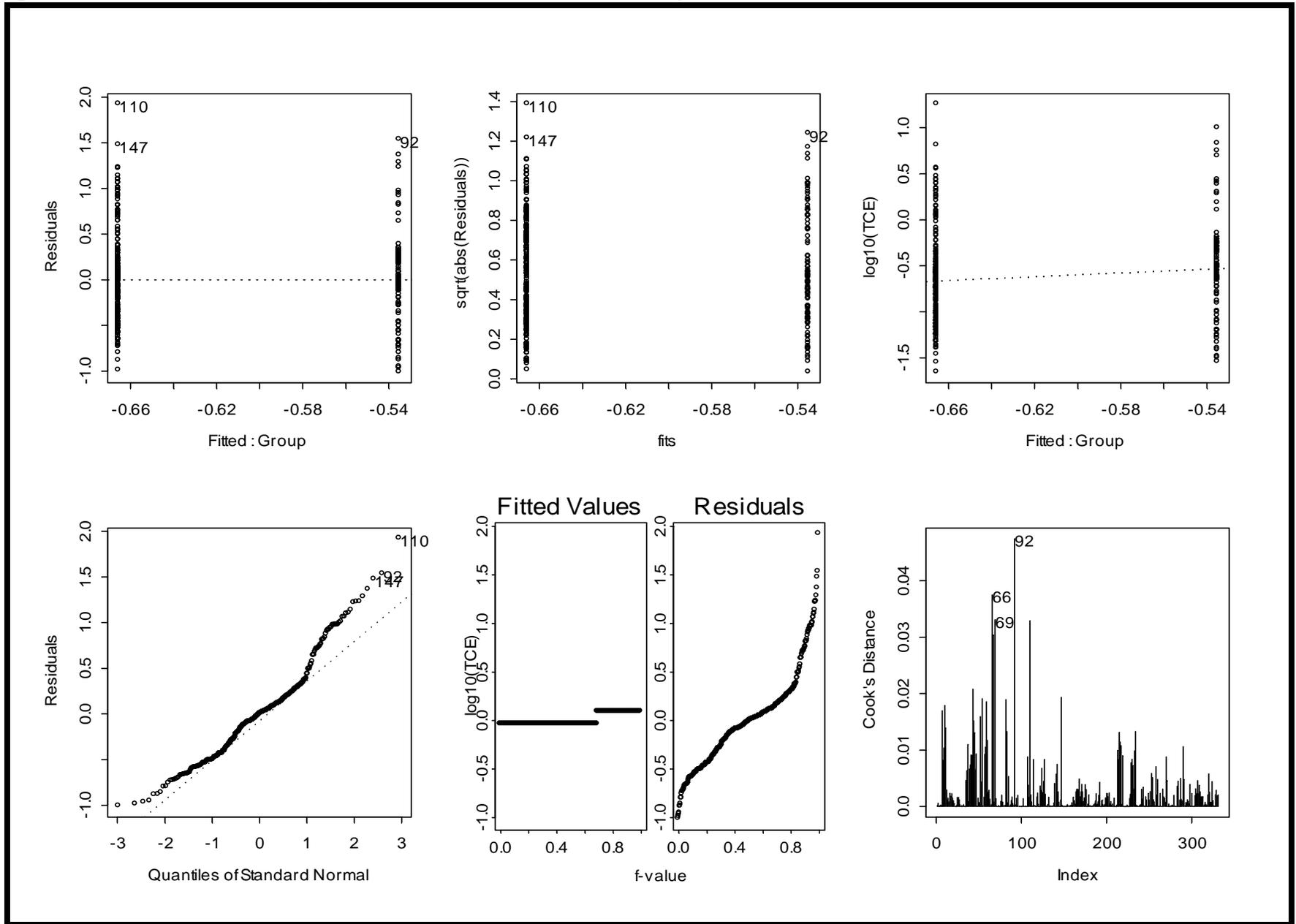


Figure A-2. Residual plots from ANOVA analysis



ATTACHMENT B

RBCA TOOL KIT

GROUNDWATER TO OUTDOOR AIR

Main Screen

RBCA Tool Kit for Chemical Releases
Version 1.3b © 2000

1. Project Information

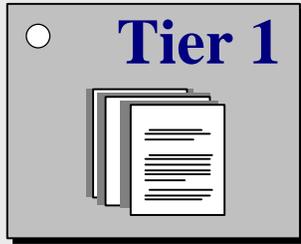
Site Name:

Location:

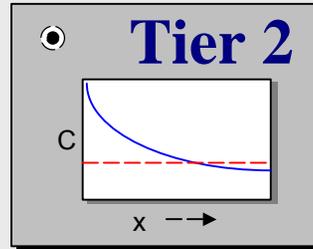
Compl. By:

Date: Job ID:

2. Which Type of RBCA Analysis? ?



Tier 1
Generic Values
On-Site
Exposure



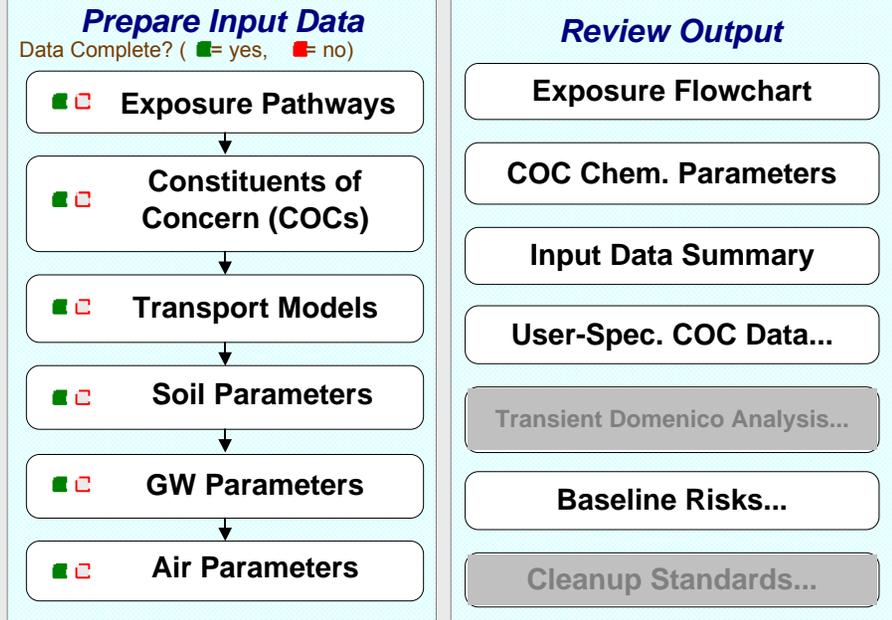
Tier 2
Site-Specific Values
On- or Off-Site Exposure

3. Calculation Options ?

Affects which input data are required

- Baseline Risks (Forward mode)**
- RBCA Cleanup Standards (Backward mode)**

4. RBCA Evaluation Process

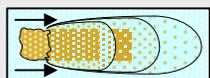


5. Commands and Options

<input type="button" value="New Site"/>	<input type="button" value="Load Data..."/>	<input type="button" value="Save Data As..."/>	<input type="button" value="Quit"/>
<input type="button" value="Print Sheet"/>	<input type="button" value="Set Units"/>	<input type="button" value="Custom Chem. Data..."/>	<input type="button" value="Help"/>

Exposure Pathway Identification

1. Groundwater Exposure ?



**Groundwater Ingestion/
Surface Water Impact**

Receptor: None ▼ None ▼ None ▼
 Type: On-site Off-site1 Off-site2

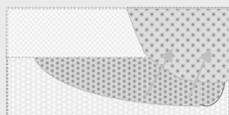
Source Media:

- Affected Groundwater
- Affected Soils Leaching to Groundwater

Distance to GW receptors

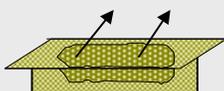
0	0	0	(cm)
On-site	Off-site1	Off-site2	
0	0	0	(cm)

GW Discharge to Surface Water Exposure



- Swimming
 - Fish Consumption
 - Aquatic Life Protection
- Enter ALP Criteria

2. Surface Soil Exposure ?



**Direct Ingestion
and Dermal Contact**

Receptor: None ▼
 Type: On-site

No off-site receptors

Construction Worker

Site Name: Middlefield-Ellis-Whisman Site

Location: Mountain View, California

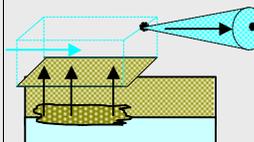
Compl. By: Locus Technologies

Job ID: 23007-04-1000

Date: 8-Dec-04

3. Air Exposure ?

**Volatilization and Particulates
to Outdoor Air Inhalation**

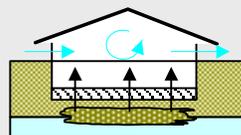


Receptor: Res. ▼ None ▼ None ▼
 Type: On-site Off-site1 Off-site2

0 0 20000 (cm)

Construction worker

- Affected Soils--Volatilization to Ambient Outdoor Air
- Affected Groundwater--Volatilization to Ambient Outdoor Air
- Affected Surface Soils--Particulates to Ambient Outdoor Air



**Volatilization to
Indoor Air Inhalation**

Receptor: None ▼
 Type: On-site

No off-site receptors

- Affected Soils--Volatilization to Enclosed Space
- Affected Groundwater--Volatilization to Enclosed Space

4. Commands and Options

Main Screen

Print Sheet

Set Units

Help

Exposure Factors & Target Risks

Exposure Flowchart

Site Name: Middlefield-Ellis-Whisman Site	Job ID: 23007-04-1000	Commands and Options	
Location: Mountain View, California	Date: 8-Dec-04	Main Screen	Print Sheet
Compl. By: Locus Technologies			Help

Source Media Constituents of Concern (COCs)

Selected COCs

COC Select:	Sort List: ?
<input type="button" value="Add/Insert"/>	<input type="button" value="Top"/> <input type="button" value="MoveUp"/>
<input type="button" value="Delete"/>	<input type="button" value="Bottom"/> <input type="button" value="MoveDown"/>
Trichloroethene*	

* = Chemical with user-specified data

Representative COC Concentration ?

Groundwater Source Zone	Soil Source Zone
<input type="button" value="Calculate"/> <input type="button" value="Enter Site Data"/>	<input type="button" value="Calculate"/> <input type="button" value="Enter Site Data"/>
(mg/L) note	(mg/kg) note
2.8E-1 sing 2002/2003 Mass (5Y Appendix F)	

Apply Raoult's Law ?

Mole Fraction in Source Material

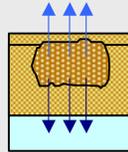
(-)

Transport Modeling Options

1. Vertical Transport, Surface Soil Column

Outdoor Air Volatilization Factors ?

- Surface soil volatilization model only
- Combination surface soil/Johnson & Ettinger models
- Thickness of surface soil zone (cm)
- User-specified VF from other model Enter VF Values



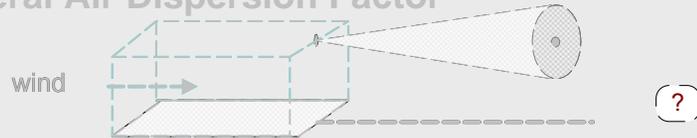
Indoor Air Volatilization Factors ?

- Johnson & Ettinger model
- User-specified VF from other model Enter VF Values

Soil-to-Groundwater Leaching Factor ?

- ASTM Model ?
 - Apply Soil Attenuation Model (SAM) Enter Decay Rates
 - Allow first-order biodecay Enter Decay Rates
- User-specified LF from other model Enter LF Values

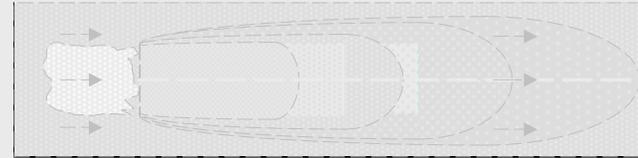
2. Lateral Air Dispersion Factor



- 3-D Gaussian dispersion model Off-site 1 Off-site 2
- User-Specified ADF (-)

Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000
 Location: Mountain View, California Date: 8-Dec-04
 Compl. By: Locus Technologies

3. Groundwater Dilution Attenuation Factor



Calculate DAF using Domenico Model ?

- Domenico equation with dispersion only (no biodegradation)
- Domenico equation first-order decay Enter Decay Rates
- Modified Domenico equation using electron acceptor superposition Enter Site Data
- Enter Directly Biodegradation Capacity (mg/L)

— or —

User-Specified DAF Values

- DAF values from other model or site data Enter DAF Values

4. Commands and Options

Main Screen

Print Sheet

Help

Site-Specific Soil Parameters

Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000
 Location: Mountain View, California Date: 8-Dec-04
 Compl. By: Locus Technologies

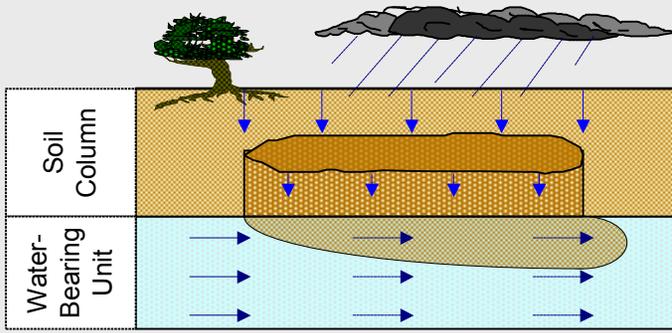
1. Soil Source Zone Characteristics ?

Hydrogeology General Case Construction

Depth to water-bearing unit (cm)
 Capillary zone thickness (cm)
 Soil column thickness (cm)

Affected Soil Zone

Depth to top of affected soils (cm)
 Depth to base of affected soils (cm)
 Affected soil area (cm²)
 Length of affected soil parallel to assumed wind direction (cm)
 Length of affected soil parallel to assumed GW flow direction (cm)



2. Surface Soil Column Vadose Zone Capillary Fringe

Predominant USCS Soil Type CL: Silty Clay ?

or

Total porosity (-) ↓ or
 Volumetric water content (-)
 Volumetric air content (-)
 Dry bulk density (kg/L)
 Vertical hydraulic conductivity (cm/d)
 Vapor permeability (cm²)
 Capillary zone thickness (cm)

Net Rainfall Infiltration

Net infiltration estimate (cm/yr) or
 or ↑ or
 Average annual precipitation (cm/yr)

Partitioning Parameters

Fraction organic carbon (-)
 Soil/water pH (-)

3. Commands and Options

Site-Specific Groundwater Parameters

Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000
 Location: Mountain View, California Date: 8-Dec-04
 Compl. By: Locus Technologies

1. Water-Bearing Unit

Hydrogeology

Groundwater Darcy velocity (cm/d)
 Groundwater seepage velocity (cm/d)
 or or

Hydraulic conductivity (cm/d)
 Hydraulic gradient (-)
 Effective porosity (-)

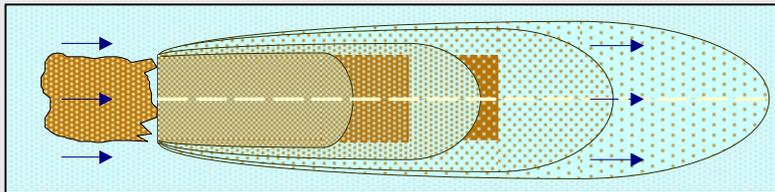
Sorption

Fraction organic carbon--saturated zone (-)
 Groundwater pH (-)

2. Groundwater Source Zone

Groundwater plume width at source (cm)
 Plume (mixing zone) thickness at source (cm)
 or or

Saturated thickness (cm)
 Length of source zone (cm)



3. Groundwater Dispersion

Model:

Distance to GW receptors	GW Ingestion		Soil Leaching to GW	
	Off-site 1	Off-site 2	Off-site 1	Off-site 2
<input type="text" value="0"/> or <input type="text" value="NA"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Longitudinal dispersivity <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Transverse dispersivity <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Vertical dispersivity <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

4. Groundwater Discharge to Surface Water

Distance to GW/SW discharge point (cm) (Off-site 2)

Plume width at GW/SW discharge (cm)

Plume thickness at GW/SW discharge (cm)

Surface water flowrate at GW/SW discharge (cm³/s)

5. Commands and Options

Site-Specific Air Parameters

1. Outdoor Air Pathway

Dispersion in Air

Distance to offsite air receptor

Off-site 1 Off-site 2 (cm) (?)

or

Horizontal dispersivity

(cm)

Vertical dispersivity

(cm)

Air Source Zone

Air mixing zone height

(cm)

Ambient air velocity in mixing zone

(cm/s)

Areal particulate emission flux

(g/cm²/s)

2. Indoor Air Pathway

Building Parameters

Building volume/area ratio

Residential: Commercial: (cm) (?)

Foundation area

(cm²)

Foundation perimeter

(cm)

Building air exchange rate

(1/s)

Depth to bottom of foundation slab

(cm)

Convective air flow through cracks

(cm³/s)

Foundation thickness

(cm)

Foundation crack fraction

(-)

Volumetric water content of cracks

(-)

Volumetric air content of cracks

(-)

Indoor/Outdoor differential pressure

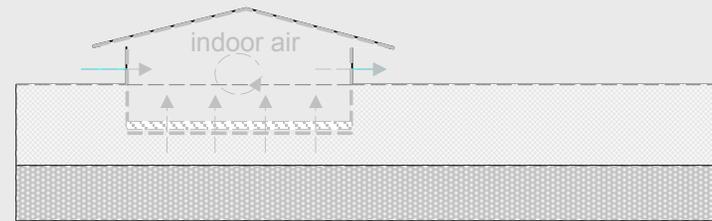
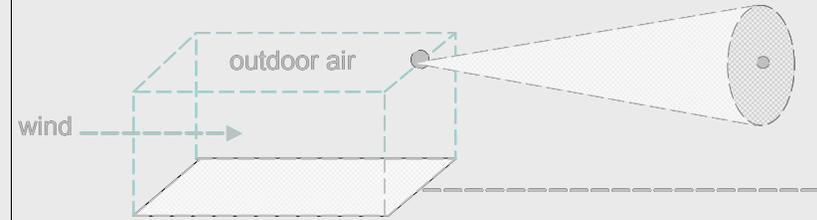
(g/cm/s²)

Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000

Location: Mountain View, California

Date: 8-Dec-04

Compl. By: Locus Technologies



3. Commands and Options

[Main Screen](#)

[Use Default Values](#)

[Print Sheet](#)

[Set Units](#)

[Help](#)

Exposure Pathway Flowchart

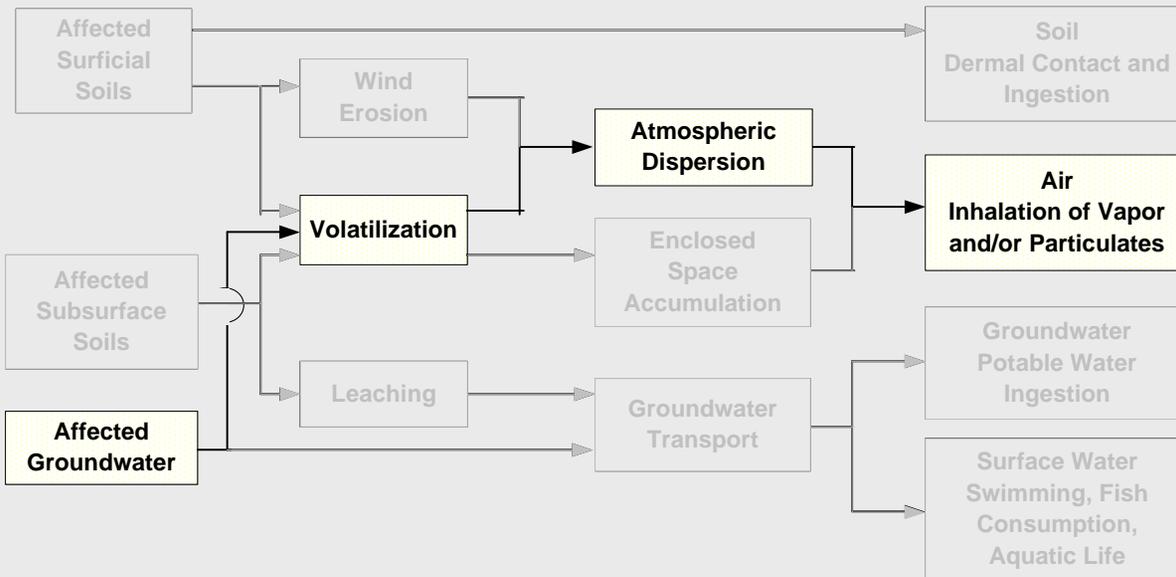
Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000
 Location: Mountain View, California Date: 8-Dec-04
 Compl. By: Locus Technologies

Source Media

Transport Mechanisms

Exposure Media

Receptors



	<u>On-site</u>	<u>Off-site1</u>	<u>Off-site2</u>
Soil Dermal Contact and Ingestion	None	NA	NA
Outdoor Air: Residential	None	None	None
Indoor Air: None	None	NA	NA
Groundwater Potable Water Ingestion	None	None	None
Surface Water Swimming, Fish Consumption, Aquatic Life	NA	NA	NA



Commands and Options

- [Main Screen](#)
- [Print Sheet](#)
- [Help](#)

RBCA SITE ASSESSMENT

TIER 2 EXPOSURE CONCENTRATION AND INTAKE CALCULATION							
OUTDOOR AIR EXPOSURE PATHWAYS				■ (CHECKED IF PATHWAY IS ACTIVE)			
GROUNDWATER: VAPOR INHALATION	Exposure Concentration						
	1) Source Medium	2) NAF Value (m ³ /L) Receptor			3) Exposure Medium Outdoor Air: POE Conc. (mg/m ³) (1) / (2)		
	Groundwater Conc. (mg/L)	On-site (0 cm) Residential	Off-site 1 (0 cm) None	Off-site 2 (20000 cm) None	On-site (0 cm) Residential	Off-site 1 (0 cm) None	Off-site 2 (20000 cm) None
Constituents of Concern							
Trichloroethene*	2.8E-1	8.8E+3			3.1E-5		

NOTE: NAF = Natural attenuation factor POE = Point of exposure

Site Name: Middlefield-Ellis-Whisman Site
 Site Location: Mountain View, California
 Completed By: Locus Technologies

Date Completed: 8-Dec-04
 Job ID: 23007-04-1000

ATTACHMENT C

RBCA TOOL KIT

SOIL TO OUTDOOR AIR

Main Screen

RBCA Tool Kit for Chemical Releases
Version 1.3b © 2000

1. Project Information

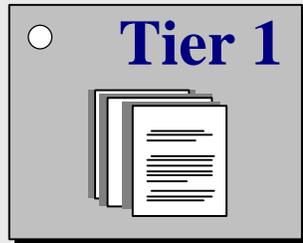
Site Name:

Location:

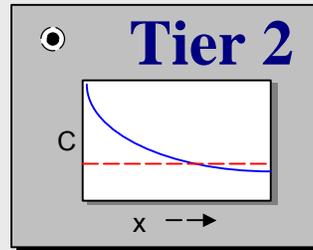
Compl. By:

Date: Job ID:

2. Which Type of RBCA Analysis? ?



Tier 1
Generic Values
On-Site
Exposure



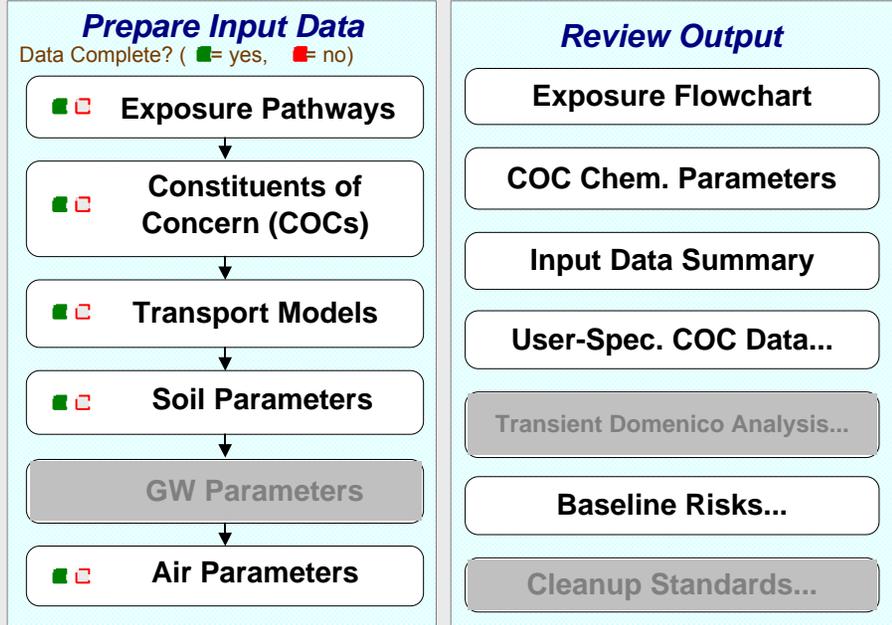
Tier 2
Site-Specific Values
On- or Off-Site Exposure

3. Calculation Options ?

Affects which input data are required

- Baseline Risks (Forward mode)**
- RBCA Cleanup Standards (Backward mode)**

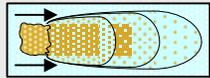
4. RBCA Evaluation Process



5. Commands and Options

Exposure Pathway Identification

1. Groundwater Exposure ?



**Groundwater Ingestion/
Surface Water Impact**

Receptor: None ▼ None ▼ None ▼
 Type: On-site Off-site1 Off-site2

Source Media:

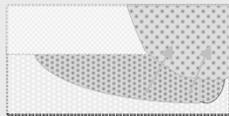
Affected Groundwater

Distance to GW receptors		
0	0	0
On-site	Off-site1	Off-site2

Affected Soils Leaching to Groundwater

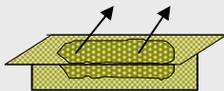
0	0	0
On-site	Off-site1	Off-site2

GW Discharge to Surface Water Exposure



Swimming
 Fish Consumption
 Aquatic Life Protection
 Enter ALP Criteria

2. Surface Soil Exposure ?



**Direct Ingestion
and Dermal Contact**

Receptor: None ▼
 Type: On-site

Construction Worker

No off-site receptors

Site Name: Middlefield-Ellis-Whisman Site

Location: Mountain View, California

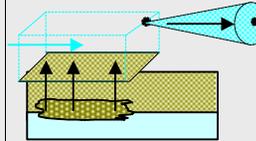
Compl. By: Locus Technologies

Job ID: 23007-04-1000

Date: 23-Nov-04

3. Air Exposure ?

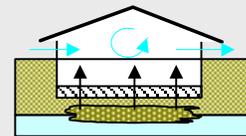
**Volatilization and Particulates
to Outdoor Air Inhalation**



Receptor: Com. ▼ Res. ▼ None ▼
 Type: On-site Off-site1 Off-site2
 0 30000 0 (cm)

Construction worker

- Affected Soils--Volatilization to Ambient Outdoor Air
- Affected Groundwater--Volatilization to Ambient Outdoor Air
- Affected Surface Soils--Particulates to Ambient Outdoor Air



**Volatilization to
Indoor Air Inhalation**

Receptor: None ▼
 Type: On-site

No off-site receptors

- Affected Soils--Volatilization to Enclosed Space
- Affected Groundwater--Volatilization to Enclosed Space

4. Commands and Options

Main Screen

Print Sheet

Set Units

Help

Exposure Factors & Target Risks

Exposure Flowchart

Site Name: Middlefield-Ellis-Whisman Site	Job ID: 23007-04-1000	Commands and Options	
Location: Mountain View, California	Date: 23-Nov-04	Main Screen	Print Sheet
Compl. By: Locus Technologies			Help

Source Media Constituents of Concern (COCs)

Selected COCs

COC Select:	Sort List: ?
<input type="button" value="Add/Insert"/>	<input type="button" value="Top"/> <input type="button" value="MoveUp"/>
<input type="button" value="Delete"/>	<input type="button" value="Bottom"/> <input type="button" value="MoveDown"/>
Trichloroethene*	

* = Chemical with user-specified data

Representative COC Concentration ?

Groundwater Source Zone	
<input type="button" value="Calculate"/>	<input type="button" value="Enter Site Data"/>
(mg/L)	note

Soil Source Zone	
<input type="button" value="Calculate"/>	<input type="button" value="Enter Site Data"/>
(mg/kg)	note
5.0E-1	Cleanup Standard for TCE

Apply Raoult's Law ?

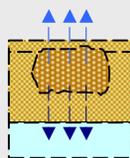
Mole Fraction in Source Material

Transport Modeling Options

1. Vertical Transport, Surface Soil Column

Outdoor Air Volatilization Factors ?

- Surface soil volatilization model only
- Combination surface soil/Johnson & Ettinger models
- Thickness of surface soil zone (cm)
- User-specified VF from other model Enter VF Values



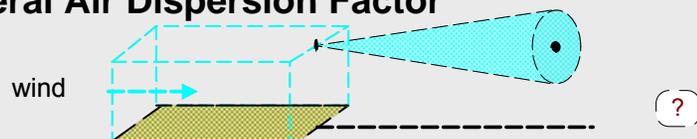
Indoor Air Volatilization Factors ?

- Johnson & Ettinger model
- User-specified VF from other model Enter VF Values

Soil-to-Groundwater Leaching Factor ?

- ASTM Model Enter Decay Rates
- Apply Soil Attenuation Model (SAM)
- Allow first-order biodecay Enter Decay Rates
- User-specified LF from other model Enter LF Values

2. Lateral Air Dispersion Factor



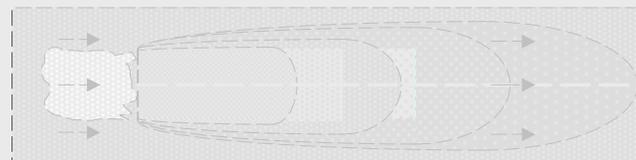
- 3-D Gaussian dispersion model Off-site 1 Off-site 2
- User-Specified ADF (-)

Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000

Location: Mountain View, California Date: 23-Nov-04

Compl. By: Locus Technologies

3. Groundwater Dilution Attenuation Factor



Calculate DAF using Domenico Model ?

- Domenico equation with dispersion only (no biodegradation)
- Domenico equation first-order decay Enter Decay Rates
- Modified Domenico equation using electron acceptor superposition Enter Site Data
- Enter Directly Biodegradation Capacity (mg/L)

— or —

User-Specified DAF Values

- DAF values from other model or site data Enter DAF Values

4. Commands and Options

Main Screen

Print Sheet

Help

Site-Specific Soil Parameters

1. Soil Source Zone Characteristics ?

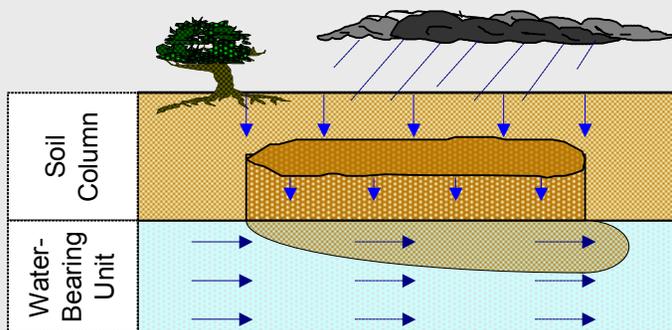
Hydrogeology

General Case Construction

Depth to water-bearing unit	400	(cm)
Capillary zone thickness	29	(cm)
Soil column thickness	371	(cm)

Affected Soil Zone

Depth to top of affected soils	100	(cm)
Depth to base of affected soils	400	(cm)
Affected soil area	1E+08	1E+08 (cm ²)
Length of affected soil parallel to assumed wind direction	10000	10000 (cm)
Length of affected soil parallel to assumed GW flow direction		(cm)



Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000

Location: Mountain View, California Date: 23-Nov-04

Compl. By: Locus Technologies

2. Surface Soil Column

Vadose Zone Capillary Fringe

Predominant USCS Soil Type

CL: Silty Clay ?

or	Enter Directly	
Total porosity	0.36	(-)
Volumetric water content	0.34	0.35 (-)
Volumetric air content	0.02	0.010 (-)
Dry bulk density	1.7	(kg/L)
Vertical hydraulic conductivity	8.6E-3	(cm/d)
Vapor permeability	1.0E-13	(cm ²)
Capillary zone thickness	2.9E+1	(cm)

Net Rainfall Infiltration

Net infiltration estimate (cm/yr)

or (cm/yr)

Average annual precipitation (cm/yr)

Partitioning Parameters

Fraction organic carbon	0.005	(-)
Soil/water pH	6.8	(-)

3. Commands and Options

Main Screen

Use Default Values

Print Sheet

Set Units

Help

Site-Specific Air Parameters

1. Outdoor Air Pathway

Dispersion in Air

Distance to offsite air receptor

Off-site 1 Off-site 2 (cm) (?)

or

Horizontal dispersivity

(cm)

Vertical dispersivity

(cm)

Air Source Zone

Air mixing zone height

(cm)

Ambient air velocity in mixing zone

(cm/s)

Areal particulate emission flux

(g/cm²/s)

2. Indoor Air Pathway

Building Parameters

Building volume/area ratio

Residential Commercial (cm) (?)

Foundation area

(cm²)

Foundation perimeter

(cm)

Building air exchange rate

(1/s)

Depth to bottom of foundation slab

(cm)

Convective air flow through cracks

(cm³/s)

Foundation thickness

(cm)

Foundation crack fraction

(-)

Volumetric water content of cracks

(-)

Volumetric air content of cracks

(-)

Indoor/Outdoor differential pressure

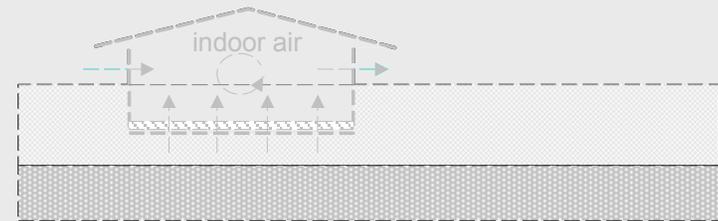
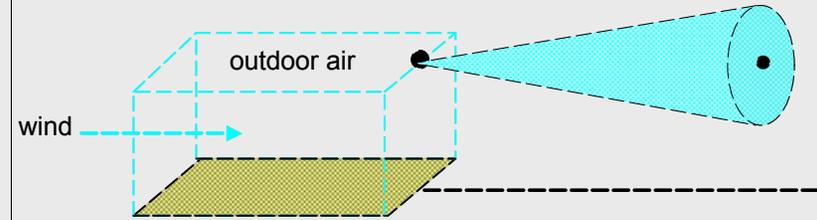
(g/cm/s²)

Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000

Location: Mountain View, California

Date: 23-Nov-04

Compl. By: Locus Technologies



3. Commands and Options

Exposure Pathway Flowchart

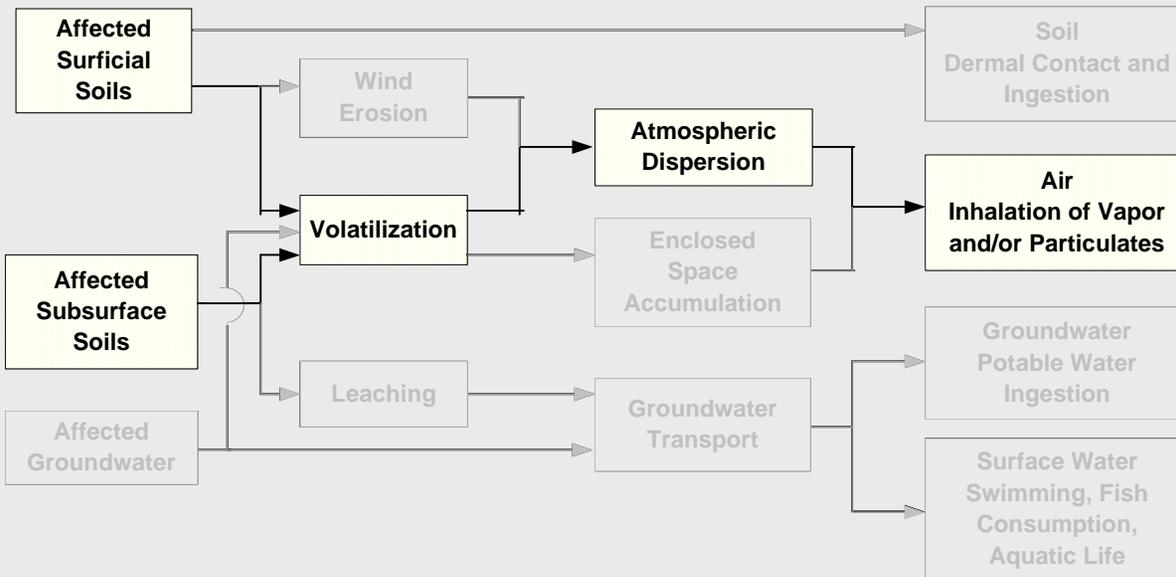
Site Name: Middlefield-Ellis-Whisman Site Job ID: 23007-04-1000
 Location: Mountain View, California Date: 23-Nov-04
 Compl. By: Locus Technologies

Source Media

Transport Mechanisms

Exposure Media

Receptors



	<u>On-site</u>	<u>Off-site1</u>	<u>Off-site2</u>
Soil Dermal Contact and Ingestion	None	NA	NA
Air Inhalation of Vapor and/or Particulates	Outdoor Air: Commercial Indoor Air: None	Residential NA	None NA
Groundwater Potable Water Ingestion	None	None	None
Surface Water Swimming, Fish Consumption, Aquatic Life	NA	NA	NA



Commands and Options

Main Screen

Print Sheet

Help

RBCA SITE ASSESSMENT

TIER 2 EXPOSURE CONCENTRATION AND INTAKE CALCULATION

OUTDOOR AIR EXPOSURE PATHWAYS (CHECKED IF PATHWAY IS ACTIVE)

SUBSURFACE SOILS (100 - 400 cm):

VAPOR INHALATION

	1) Source Medium	2) NAF Value (m ³ /kg) Receptor			3) Exposure Medium Outdoor Air: POE Conc. (mg/m ³) (1) / (2)		
	Soil Conc. (mg/kg)	On-site (0 cm) Commercial	Off-site 1 (30000 cm) Residential	Off-site 2 (0 cm) None	On-site (0 cm) Commercial	Off-site 1 (30000 cm) Residential	Off-site 2 (0 cm) None
Constituents of Concern							
Trichloroethene*	5.0E-1	1.3E+4	1.2E+5		3.7E-5	4.1E-6	

NOTE: NAF = Natural attenuation factor POE = Point of exposure

Site Name: Middlefield-Ellis-Whisman Site

Site Location: Mountain View, California

Completed By: Locus Technologies

Date Completed: 23-Nov-04

Job ID: 23007-04-1000

ATTACHMENT D

METEOROLOGICAL DATA AT MOFFETT FIELD STATION



Moffett NAS, California
on Monday, July 29, 1996

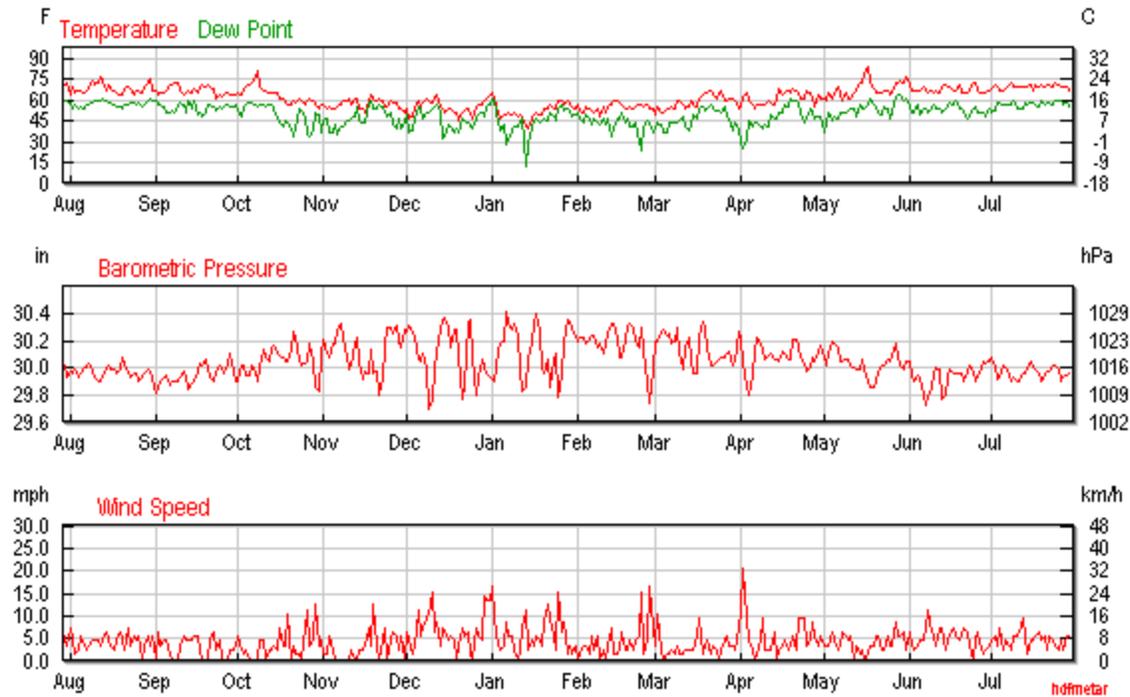
July 29, 1996

Custom Date Query - Choose two dates less than or equal to one year apart

From: To:

Summary

	Max	Avg	Min	
Temperature				
Max Temperature	98 °F / 36 °C	80 °F / 25 °C	44 °F / 6 °C	
Mean Temperature	83 °F / 28 °C	69 °F / 20 °C	38 °F / 3 °C	
Min Temperature	68 °F / 20 °C	58 °F / 14 °C	28 °F / -2 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	27	0	0	2012
Cooling Degree Days (base 65)	18	4	0	458
Growing Degree Days (base 50)	33	19	0	4001
Dew Point	Max	Avg	Min	
Dew Point	64 °F / 17 °C	56 °F / 13 °C	7 °F / -13 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	2.60 in / 6.6 cm	0.11 in / 0.1 cm	0.00 in / 0.0 cm	18.79 in / 47.72 cm
Snowdepth	-	-	-	-
Wind	Max	Avg	Min	
Wind	31 mph / 50 km/h	4 mph / 6 km/h	0 mph / 0 km/h	
Gust Wind	36 mph / 58 km/h	20 mph / 33 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.45 in / 1031 hPa	29.96 in / 1015 hPa	29.59 in / 1002 hPa	



[Hide full METARS \(help\)](#) - [Comma Delimited File](#)

Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
July																				
29	82	70	61	62	59	57	88	69	45	30.04	30.02	30.04	10	10	9	13	2	-	0.00	
30	81	70	61	62	58	57	90	74	45	30.01	30.00	30.01	10	10	10	14	5	-	0.00	
31	81	72	62	64	59	57	84	70	50	29.96	29.92	29.96	10	10	9	13	3	20	0.00	
August																				
	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	66	62	59	57	57	54	90	81	68	30.02	29.96	30.02	10	9	7	16	7	-	0.00	
2	82	68	55	58	53	47	87	66	30	30.00	29.95	30.00	10	10	9	22	4	24	0.00	
3	73	64	55	57	56	52	87	68	51	29.99	29.98	29.99	10	10	10	17	1	-	0.00	
4	77	66	57	59	53	52	86	71	50	29.95	29.91	29.95	10	10	8	17	2	-	0.00	
5	78	66	55	58	54	46	90	70	34	30.00	29.95	30.00	10	10	9	17	5	20	0.00	
6	75	64	55	58	53	50	88	72	53	30.03	29.99	30.03	10	10	9	17	3	-	0.00	

7	73	65	57	60	55	54	90	78	64	30.04	29.99	30.04	10	8	3	13	2	-	0.00
8	79	67	57	60	55	55	93	76	52	30.06	30.02	30.06	10	9	6	10	3	-	0.00
9	88	73	57	61	57	54	93	67	36	29.99	29.96	29.99	10	9	7	12	4	-	0.00
10	80	70	61	62	58	56	84	70	50	29.91	29.91	29.91	10	10	10	14	4	-	0.00
11	81	71	62	61	59	57	87	69	52	29.93	29.89	29.93	10	10	9	13	4	-	0.00
12	89	76	64	63	58	57	81	62	39	29.93	29.89	29.93	10	10	10	12	3	-	0.00
13	82	73	63	63	60	55	84	69	39	29.98	29.92	29.98	10	10	8	13	4	-	0.00
14	75	66	61	60	58	57	90	78	59	30.04	29.99	30.04	10	10	9	13	6	-	0.00
15	84	70	59	62	57	55	94	74	47	30.01	30.00	30.01	10	9	4	14	4	-	0.00
16	77	67	57	61	57	55	94	78	55	29.99	29.98	29.99	10	9	6	14	3	-	0.00
17	73	65	57	59	56	52	93	76	48	30.00	29.97	30.00	10	9	7	17	2	-	0.00
18	77	64	54	59	54	50	93	71	44	29.96	29.94	29.96	10	10	10	13	4	-	0.00
19	70	62	54	55	54	50	94	76	57	30.08	29.98	30.08	10	10	9	21	6	-	0.00
20	73	63	53	58	52	50	89	72	50	30.10	30.06	30.10	10	10	10	18	4	-	0.00
21	77	67	55	61	56	54	93	75	52	30.03	30.00	30.03	10	10	9	17	2	-	0.00
22	80	68	57	60	56	55	96	78	46	29.96	29.95	29.96	10	9	6	13	7	-	0.00
23	75	67	59	61	57	57	96	80	56	29.95	29.91	29.95	10	9	5	12	3	-	0.00
24	69	62	57	58	57	56	97	84	70	30.00	29.94	30.00	10	9	5	17	5	-	0.00
25	71	66	59	58	55	54	93	74	61	29.99	29.95	29.99	10	10	9	17	4	-	0.00
26	73	66	59	58	57	53	93	74	51	29.92	29.88	29.92	10	10	9	22	5	-	0.00
27	72	64	57	57	54	52	86	70	59	29.97	29.92	29.97	10	10	9	18	0	-	0.00
28	81	68	57	63	55	52	87	71	50	29.99	29.95	29.99	10	10	10	14	3	-	0.00
29	84	72	59	62	59	56	93	73	41	29.99	29.97	29.99	10	10	10	13	5	-	0.00
30	86	74	61	63	60	55	87	68	36	29.98	29.96	29.98	10	10	10	20	3	-	0.00
31	77	66	57	62	59	57	100	83	57	29.92	29.90	29.92	10	10	7	15	5	-	0.00

September	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	73	65	57	61	58	55	94	82	61	29.84	29.80	29.84	10	10	8	16	0	-	0.00	
2	73	62	53	59	55	51	94	80	59	29.89	29.83	29.89	10	10	10	15	6	-	0.00	
3	70	64	57	57	56	54	90	79	63	29.95	29.89	29.95	10	9	7	17	3	-	0.00	
4	75	64	54	56	54	49	93	70	41	29.96	29.91	29.96	10	10	8	21	4	25	0.00	
5	80	66	54	55	50	47	87	62	34	29.95	29.93	29.95	10	10	10	16	4	-	0.00	
6	84	70	54	60	50	45	75	57	31	29.89	29.86	29.89	10	10	10	14	1	-	0.00	

7	89	70	55	57	51	44	81	54	25	29.94	29.89	29.94	10	10	10	10	0	-	0.00	
8	86	72	57	57	49	45	70	49	26	29.93	29.89	29.93	10	10	10	13	0	-	0.00	
9	82	71	60	60	54	47	86	67	29	29.92	29.88	29.92	10	10	10	13	0	-	0.00	
10	75	66	59	60	57	55	93	80	59	29.96	29.91	29.96	10	9	5	17	3	-	0.00	
11	71	63	55	56	56	49	90	72	52	30.02	29.96	30.02	10	10	10	16	5	-	0.00	
12	77	64	54	59	49	48	88	70	44	29.94	29.92	29.94	10	10	10	16	4	-	0.00	
13	71	66	60	59	58	51	88	69	50	29.89	29.83	29.89	10	10	10	15	4	21	0.00	
14	75	64	54	61	53	50	84	70	52	29.92	29.87	29.92	10	10	10	20	4	-	0.00	
15	75	67	60	61	58	45	84	67	42	29.93	29.88	29.93	10	10	10	15	5	22	0.00	
16	77	64	54	53	48	42	75	58	30	30.02	29.96	30.02	10	10	10	16	5	20	0.00	
17	82	68	53	58	50	46	78	61	32	30.06	30.02	30.06	10	10	10	17	2	-	0.00	
18	82	70	54	55	47	39	81	52	22	30.06	30.00	30.06	10	10	9	15	0	-	0.00	
19	82	68	55	61	50	43	87	57	27	30.08	30.05	30.08	10	10	10	15	0	-	0.00	
20	84	70	57	60	56	54	90	70	40	30.01	29.98	30.01	10	10	10	15	0	-	0.00	
21	81	69	57	59	55	52	87	66	42	29.92	29.91	29.92	10	10	10	20	4	-	0.00	
22	78	67	55	59	54	50	83	66	41	29.94	29.89	29.94	10	10	10	15	6	-	0.00	
23	71	60	53	56	51	50	90	79	68	30.00	29.96	30.00	10	10	8	13	2	-	0.00	
24	69	62	54	56	54	51	90	78	54	30.05	30.00	30.05	10	9	6	14	4	-	0.00	
25	70	61	53	58	52	51	94	83	65	30.00	29.97	30.00	10	7	3	12	0	-	0.00	
26	70	62	55	57	54	53	94	81	65	30.00	29.94	30.00	10	6	3	14	0	-	0.00	
27	71	64	57	58	55	54	93	80	57	30.08	30.01	30.08	10	6	3	14	0	-	0.00	
28	70	62	55	58	54	54	94	83	65	30.13	30.09	30.13	10	9	6	12	2	-	0.00	
29	69	62	55	58	54	54	94	84	68	30.03	29.96	30.03	10	8	3	10	2	-	0.00	
30	66	62	55	56	55	51	93	80	70	29.91	29.88	29.91	10	9	6	15	3	-	0.00	
October	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	70	64	57	56	51	50	84	70	57	29.99	29.89	29.99	10	10	10	16	5	-	0.00	
2	66	62	57	56	47	27	90	68	23	30.06	30.00	30.06	10	9	7	13	2	-	0.00	
3	77	66	57	58	54	54	87	74	48	30.06	30.01	30.06	10	8	3	10	1	-	0.00	
4	81	68	55	61	56	54	93	75	42	29.97	29.93	29.97	10	10	10	16	2	-	0.00	
5	82	70	57	62	57	55	90	74	41	29.98	29.93	29.98	10	10	10	14	0	-	0.00	
6	87	72	57	64	57	55	90	70	40	30.04	30.00	30.04	10	10	10	12	0	-	0.00	
7	91	76	60	62	55	53	75	58	34	29.99	29.94	29.99	10	10	10	8	0	-	0.00	

8	98	80	62	61	54	51	67	48	22	29.92	29.88	29.92	10	10	10	9	0	-	0.00	
9	75	68	60	62	56	49	90	75	52	30.11	29.99	30.11	10	10	10	17	4	-	0.00	
10	70	65	57	57	56	53	87	71	57	30.16	30.12	30.16	10	10	10	14	4	-	0.00	
11	75	65	57	61	54	53	90	78	55	30.08	30.06	30.08	10	8	4	16	0	-	0.00	
12	73	64	57	61	56	54	94	80	61	30.08	30.03	30.08	10	10	10	15	2	-	0.00	
13	73	64	55	61	55	51	93	77	57	30.17	30.12	30.17	10	10	10	15	2	-	0.00	
14	75	64	51	56	52	46	90	68	39	30.18	30.15	30.18	10	10	10	14	3	-	0.00	
15	75	64	51	55	46	32	80	58	31	30.12	30.09	30.12	10	10	10	15	2	16	0.00	
16	69	60	48	47	42	38	66	52	33	30.13	30.08	30.13	10	10	10	13	7	-	0.00	
17	72	60	46	52	39	31	66	52	27	30.11	30.07	30.11	10	10	10	12	3	-	0.00	
18	68	57	46	57	44	36	81	62	47	30.07	30.04	30.07	10	10	7	14	3	20	0.00	
19	63	56	48	45	42	38	77	58	43	30.09	30.04	30.09	10	10	10	17	10	25	0.00	
20	66	55	45	43	38	30	77	54	27	30.17	30.12	30.17	10	10	10	12	0	-	0.00	
21	70	58	46	35	32	24	63	38	18	30.31	30.25	30.31	10	10	10	9	3	-	0.00	
22	71	57	41	56	38	30	96	56	23	30.29	30.21	30.29	10	10	10	14	1	20	0.00	
23	66	60	52	56	52	50	96	82	68	30.09	30.03	30.09	10	9	4	14	1	-	0.00	Rain
24	66	58	48	60	51	46	92	77	60	30.01	30.00	30.01	10	9	3	17	0	26	0.00	Rain
25	61	55	50	52	45	39	88	72	53	30.09	30.02	30.09	10	9	4	20	7	29	0.07	Rain
26	68	58	46	39	34	28	66	44	22	30.14	30.04	30.14	10	10	10	23	11	36	0.00	
27	73	60	48	41	33	30	62	40	22	30.23	30.17	30.23	10	10	10	13	3	-	0.00	
28	71	58	45	47	37	29	69	50	21	30.09	30.04	30.09	10	10	10	15	4	-	0.00	Rain
29	59	56	52	55	49	44	96	84	60	29.91	29.84	29.91	10	9	2	17	12	25	0.27	Rain
30	55	52	48	52	48	46	100	86	72	29.93	29.82	29.93	10	8	2	8	3	-	0.30	Rain
31	63	56	48	48	36	16	97	53	27	30.21	30.10	30.21	10	9	6	12	4	-	0.00	
November	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	66	56	45	51	44	41	90	76	42	30.25	30.20	30.25	10	9	8	7	1	-	0.00	
2	60	53	46	51	46	44	100	88	67	30.14	30.10	30.14	10	6	2	9	1	-	0.00	
3	57	54	52	48	36	24	83	46	31	30.17	30.06	30.17	10	9	6	10	5	-	0.00	
4	57	52	46	45	35	25	83	53	33	30.17	30.16	30.17	10	10	7	12	2	-	0.00	
5	62	52	43	45	41	34	89	68	36	30.21	30.16	30.21	10	10	9	13	0	-	0.00	
6	66	54	42	40	34	26	80	52	24	30.33	30.25	30.33	10	10	10	9	0	-	0.00	
7	70	56	43	45	39	35	76	56	30	30.35	30.32	30.35	10	10	9	10	0	-	0.00	

8	72	58	45	46	39	38	76	58	32	30.28	30.21	30.28	10	7	5	7	0	-	0.00	
9	70	59	48	48	44	43	83	63	39	30.11	30.07	30.11	7	6	4	7	0	-	0.00	
10	73	60	48	50	44	42	80	64	38	30.01	29.98	30.01	9	6	4	6	0	-	0.00	
11	62	56	50	52	46	44	94	83	62	30.13	30.01	30.13	10	5	1	10	2	-	0.00	
12	69	60	50	57	47	47	100	81	49	30.22	30.16	30.22	10	8	6	10	0	-	0.00	
13	66	60	51	54	54	45	100	84	60	30.27	30.21	30.27	10	6	0	15	0	-	0.00	Fog
14	59	52	46	47	44	42	86	71	53	30.14	30.04	30.14	10	10	10	13	2	-	0.00	
15	61	52	44	44	42	40	86	71	50	29.94	29.90	29.94	10	10	10	14	2	23	0.00	
16	55	50	44	52	42	40	96	81	62	30.01	29.96	30.01	10	9	4	16	3	25	0.60	Rain
17	64	59	54	61	57	52	96	92	84	30.13	29.95	30.13	10	6	2	16	7	25	1.02	Rain
18	64	62	60	61	58	52	94	80	68	30.17	30.12	30.17	10	10	10	12	3	-	0.05	Rain
19	62	60	57	56	52	50	93	77	68	30.01	29.95	30.01	10	9	5	22	12	29	0.11	Rain
20	64	58	51	56	52	49	100	83	68	29.97	29.96	29.97	10	10	7	8	3	-	0.01	
21	64	60	55	59	55	53	96	89	72	29.89	29.79	29.89	10	7	2	7	0	-	0.10	Rain
22	63	59	55	55	54	50	89	80	65	30.09	29.92	30.09	10	9	2	13	4	18	0.08	Rain
23	57	54	51	51	49	48	92	79	77	30.26	30.14	30.26	10	10	7	8	7	-	0.00	
24	62	54	46	52	47	46	97	85	64	30.32	30.28	30.32	10	8	6	9	0	-	0.01	
25	63	58	52	53	50	46	94	79	56	30.31	30.28	30.31	10	9	4	12	4	-	0.00	Rain
26	66	57	48	47	41	33	86	58	28	30.30	30.24	30.30	10	10	10	10	6	-	0.00	
27	66	57	48	50	38	30	89	54	25	30.32	30.30	30.32	10	10	10	9	5	-	0.00	
28	59	52	46	52	45	41	96	80	51	30.25	30.18	30.25	10	9	6	17	2	24	0.03	
29	60	52	45	42	38	32	80	60	35	30.26	30.14	30.26	10	10	10	13	5	17	0.00	
30	59	49	39	52	42	36	89	76	55	30.32	30.27	30.32	10	10	7	8	0	-	0.00	
December	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	60	53	46	52	48	39	94	73	49	30.32	30.25	30.32	10	9	6	14	6	16	0.05	Rain
2	55	46	37	38	36	30	83	61	40	30.34	30.30	30.34	10	10	10	10	4	-	0.00	
3	57	47	37	46	37	32	90	73	49	30.26	30.25	30.26	10	10	10	7	1	-	0.00	
4	64	52	41	54	45	39	94	77	48	30.29	30.21	30.29	10	10	6	14	3	-	0.12	Rain
5	62	58	54	58	54	48	100	88	67	30.10	30.05	30.10	10	9	4	13	11	22	0.33	Rain
6	60	54	48	52	51	45	94	82	62	30.10	30.03	30.10	10	10	8	8	5	-	0.11	Rain
7	64	57	50	48	45	43	83	65	48	30.14	30.09	30.14	10	10	10	18	7	23	0.00	
8	64	60	57	51	49	46	81	69	56	30.11	29.98	30.11	10	10	10	13	9	18	0.00	

9	61	58	55	55	49	47	93	78	60	29.84	29.68	29.84	10	9	6	17	10	24	0.10	Rain
10	62	57	52	59	52	48	96	88	75	29.93	29.76	29.93	10	8	3	23	15	33	0.94	Rain
11	66	60	54	57	54	52	93	81	63	30.07	29.97	30.07	10	9	6	10	6	-	0.08	Rain
12	66	62	57	57	55	48	97	75	52	30.17	30.11	30.17	10	10	5	13	8	-	0.07	Rain
13	59	54	48	57	50	41	94	75	51	30.37	30.27	30.37	10	10	7	14	3	-	0.04	Rain
14	61	53	45	42	31	25	83	42	28	30.35	30.34	30.35	10	10	10	22	7	25	0.00	
15	61	50	39	42	33	24	83	54	31	30.40	30.36	30.40	10	10	8	9	6	-	0.00	
16	62	52	43	48	41	40	89	74	54	30.35	30.28	30.35	10	9	6	8	4	-	0.00	
17	62	52	43	42	39	29	83	52	36	30.18	30.14	30.18	10	10	10	16	5	-	0.00	
18	59	50	42	45	36	33	85	68	50	30.32	30.27	30.32	10	9	7	6	4	-	0.00	
19	59	49	39	46	38	35	89	74	46	30.30	30.27	30.30	10	8	5	7	0	-	0.00	
20	52	44	37	45	35	33	93	84	71	30.21	30.08	30.21	9	5	2	8	3	-	0.00	
21	52	50	48	49	46	43	96	89	77	29.84	29.75	29.84	10	6	2	14	7	-	2.60	Rain
22	57	51	45	48	44	41	93	80	64	30.19	29.84	30.19	10	9	5	18	5	26	0.03	Rain
23	60	53	45	45	43	40	90	73	49	30.45	30.33	30.45	10	10	10	8	6	-	0.00	
24	55	48	41	43	40	39	93	77	59	30.44	30.34	30.44	10	10	10	10	1	-	0.00	
25	55	46	37	44	38	35	93	78	59	30.23	30.06	30.23	10	8	5	8	0	-	0.00	
26	60	54	48	54	45	44	94	82	72	29.91	29.79	29.91	10	8	4	22	7	30	0.14	Rain
27	62	55	48	51	48	47	97	80	58	30.02	29.91	30.02	10	10	8	12	5	-	0.05	Rain
28	59	56	52	52	49	47	93	79	67	30.10	30.05	30.10	10	10	10	18	4	30	0.04	Rain
29	60	58	55	55	47	45	93	78	57	30.01	29.99	30.01	10	8	3	30	14	36	0.48	Rain
30	64	60	57	58	54	54	90	86	77	29.96	29.94	29.96	10	9	4	18	13	25	0.21	Rain
31	66	63	60	59	56	55	90	83	73	29.94	29.92	29.94	10	9	5	22	13	31	0.13	Rain
January	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	66	64	62	61	60	59	94	90	81	29.96	29.90	29.96	10	8	2	18	16	30	0.93	Rain
2	64	60	55	61	59	51	100	92	81	29.99	29.89	29.99	10	8	2	15	9	-	1.59	Rain
3	57	50	42	53	43	31	96	71	40	30.19	30.11	30.19	10	10	10	13	3	-	0.01	
4	52	46	41	45	37	37	93	80	63	30.20	30.17	30.20	10	10	6	7	2	-	0.34	Rain
5	54	48	42	46	41	26	97	75	41	30.31	30.18	30.31	10	9	5	17	3	-	0.05	Rain
6	55	48	41	31	26	23	67	44	29	30.44	30.40	30.44	10	10	10	15	8	-	0.00	
7	61	50	39	38	29	25	71	54	31	30.34	30.32	30.34	10	10	10	8	5	-	0.00	
8	57	48	39	42	37	34	82	68	46	30.31	30.27	30.31	10	10	9	8	5	-	0.00	

9	59	49	39	45	39	37	93	72	51	30.36	30.31	30.36	10	8	6	8	2	-	0.00	
10	55	47	39	47	39	37	100	88	66	30.25	30.22	30.25	8	4	0	7	0	-	0.00	Fog
11	53	48	44	47	44	43	96	85	74	30.02	29.98	30.02	10	6	2	8	2	-	0.08	Rain
12	52	47	42	49	46	25	96	92	49	29.84	29.82	29.84	10	8	2	12	7	-	0.11	Rain
13	44	39	34	21	11	7	56	39	28	30.01	29.84	30.01	10	10	10	16	11	-	0.00	
14	48	38	28	40	27	19	92	62	43	30.11	30.06	30.11	10	10	4	10	2	-	0.25	Rain
15	50	46	42	45	40	39	97	92	83	30.30	30.16	30.30	10	6	3	12	4	-	0.11	Rain
16	52	48	44	46	43	42	100	94	77	30.38	30.31	30.38	10	4	1	7	3	-	0.00	
17	54	49	44	46	45	43	93	87	72	30.41	30.38	30.41	10	8	6	15	5	-	0.00	
18	53	48	42	46	43	41	100	89	71	30.32	30.26	30.32	9	6	4	9	4	-	0.00	
19	52	48	44	46	44	43	100	88	74	30.12	29.98	30.12	9	4	2	7	3	-	0.01	Rain
20	57	52	46	49	46	43	100	88	58	30.09	29.94	30.09	10	7	2	12	8	-	1.24	Rain
21	57	52	48	52	44	44	89	83	74	30.07	30.05	30.07	10	10	5	13	12	-	0.08	Rain
22	61	56	51	55	50	48	100	87	70	30.03	29.85	30.03	10	8	2	20	9	29	1.15	Rain
23	57	52	48	48	47	40	94	80	55	30.19	30.05	30.19	10	10	7	10	5	-	0.00	Rain
24	57	52	46	52	44	44	96	84	65	30.19	30.09	30.19	10	8	1	17	2	22	1.04	Rain
25	63	59	55	56	53	50	94	80	65	29.87	29.77	29.87	10	8	4	24	15	34	1.48	Rain
26	62	58	54	55	55	50	94	83	67	30.17	29.93	30.17	10	9	5	12	6	-	0.42	Rain
27	62	56	51	52	51	50	94	83	65	30.32	30.17	30.32	10	10	8	8	8	-	0.00	
28	62	58	54	53	52	50	93	82	70	30.37	30.34	30.37	10	9	7	8	1	-	0.00	
29	64	56	48	52	50	48	100	80	56	30.34	30.31	30.34	10	8	2	10	3	-	0.00	
30	61	54	46	52	47	46	100	93	70	30.32	30.29	30.32	10	4	0	7	1	-	0.00	Fog
31	55	52	48	52	48	46	96	92	80	30.23	30.21	30.23	9	4	0	8	3	-	0.00	Fog
February	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	61	56	48	54	50	46	100	89	62	30.21	30.18	30.21	10	6	1	12	0	-	0.01	
2	57	51	45	46	45	42	93	78	57	30.26	30.21	30.26	10	10	10	14	1	-	0.00	
3	55	50	45	50	43	42	93	82	69	30.26	30.21	30.26	10	10	10	9	3	-	0.10	Rain
4	60	54	48	50	48	43	97	81	57	30.21	30.17	30.21	10	10	7	12	3	-	0.02	
5	60	52	45	48	45	40	97	77	49	30.23	30.19	30.23	10	10	10	10	1	-	0.00	
6	60	51	42	49	41	35	92	75	39	30.27	30.23	30.27	10	10	8	7	5	-	0.00	
7	57	50	42	52	45	39	93	82	67	30.25	30.23	30.25	10	10	8	9	2	-	0.00	
8	60	53	46	46	43	37	87	73	44	30.18	30.14	30.18	10	10	10	9	5	-	0.00	

9	55	47	39	46	41	38	93	82	62	30.19	30.17	30.19	10	10	10	12	0	-	0.00	
10	60	54	46	47	46	41	93	76	49	30.14	30.09	30.14	10	10	7	12	2	-	0.00	
11	59	50	41	48	41	39	93	79	67	30.23	30.15	30.23	10	10	10	15	0	-	0.00	
12	61	54	48	48	45	40	88	73	50	30.30	30.24	30.30	10	10	9	15	3	20	0.00	
13	64	56	48	40	32	27	68	46	26	30.35	30.31	30.35	10	10	10	15	7	-	0.00	
14	70	59	48	49	38	36	77	52	37	30.36	30.31	30.36	10	10	10	12	1	17	0.00	
15	70	58	46	52	46	42	89	66	38	30.25	30.21	30.25	10	10	9	6	1	-	0.00	
16	66	57	48	52	45	44	89	73	50	30.10	30.07	30.10	10	10	8	15	2	20	0.00	
17	59	55	50	52	49	45	96	78	62	30.15	30.06	30.15	10	10	6	16	6	21	0.12	Rain
18	63	53	43	50	43	38	89	75	43	30.31	30.20	30.31	10	10	10	13	2	-	0.00	
19	63	52	42	55	46	37	89	75	55	30.34	30.30	30.34	10	10	10	13	2	-	0.00	Rain
20	63	54	45	44	40	35	80	62	37	30.35	30.31	30.35	10	10	10	12	4	-	0.00	
21	61	52	42	48	39	32	77	67	46	30.34	30.29	30.34	10	10	10	14	2	-	0.00	
22	63	54	46	45	42	39	83	61	48	30.27	30.18	30.27	10	10	10	12	4	-	0.00	
23	64	55	46	40	28	17	79	40	20	30.24	30.13	30.24	10	10	10	22	5	36	0.00	
24	64	56	48	31	22	15	46	29	20	30.32	30.28	30.32	10	10	10	21	15	28	0.00	
25	66	54	41	50	40	27	89	59	22	30.25	30.11	30.25	10	10	10	14	1	-	0.00	
26	62	55	48	50	44	42	80	70	56	29.95	29.88	29.95	10	10	10	16	4	23	0.00	
27	57	52	48	47	42	41	80	68	57	29.79	29.73	29.79	10	10	10	25	16	33	0.00	
28	60	52	44	41	36	29	80	56	31	30.10	29.97	30.10	10	10	10	15	7	21	0.00	
March	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	57	48	39	46	38	32	73	66	57	30.27	30.18	30.27	10	10	10	18	3	-	0.00	
2	59	54	46	48	43	31	94	68	40	30.27	30.18	30.27	10	9	2	20	10	18	0.08	Rain
3	55	50	43	45	41	34	89	69	44	30.27	30.25	30.27	10	9	5	14	2	-	0.05	Rain
4	61	50	39	39	35	28	86	54	29	30.32	30.27	30.32	10	10	10	12	0	-	0.00	
5	64	52	39	47	36	29	83	64	29	30.28	30.23	30.28	10	10	10	14	1	-	0.00	
6	61	52	44	48	42	39	89	75	58	30.26	30.24	30.26	10	10	7	15	1	-	0.00	
7	63	54	44	47	42	40	89	73	51	30.20	30.16	30.20	10	10	10	18	2	-	0.00	
8	64	53	42	50	43	39	89	75	58	30.24	30.18	30.24	10	10	10	15	1	-	0.00	
9	71	58	44	50	43	41	90	68	39	30.32	30.28	30.32	10	10	10	10	3	-	0.00	
10	72	59	46	53	44	41	89	68	40	30.23	30.09	30.23	10	10	10	10	1	-	0.00	
11	64	56	48	53	47	38	93	74	52	30.05	29.97	30.05	10	9	6	15	1	-	0.00	

12	61	52	42	41	40	35	86	61	39	30.23	30.14	30.23	10	10	10	15	2	-	0.00	
13	66	54	42	47	37	29	79	58	29	30.27	30.21	30.27	10	10	10	15	2	-	0.00	
14	72	58	45	50	40	36	80	61	27	30.10	30.05	30.10	10	10	10	15	2	-	0.00	
15	64	56	48	50	48	43	90	72	52	29.97	29.95	29.97	10	10	10	15	2	-	0.00	
16	59	54	50	52	45	43	94	77	64	30.10	29.95	30.10	10	10	7	16	5	25	0.36	Rain
17	68	60	52	56	52	50	94	80	61	30.35	30.22	30.35	10	10	9	13	9	-	0.00	
18	75	63	51	58	54	50	100	84	43	30.38	30.33	30.38	10	6	1	9	1	-	0.00	
19	77	64	52	58	51	48	90	72	43	30.35	30.29	30.35	10	10	8	10	3	-	0.00	
20	73	64	54	59	52	46	93	76	38	30.22	30.12	30.22	10	10	9	9	4	-	0.00	
21	75	66	57	58	55	48	93	67	38	30.04	30.01	30.04	10	10	10	12	1	-	0.00	
22	68	62	55	56	52	51	94	81	61	30.05	30.01	30.05	10	10	8	17	3	-	0.00	
23	66	60	53	54	51	48	90	77	59	30.08	30.03	30.08	10	10	10	13	2	-	0.00	
24	78	64	51	54	51	47	96	66	39	30.09	30.05	30.09	10	10	9	13	0	-	0.00	
25	79	66	53	56	49	44	86	62	30	30.10	30.06	30.10	10	10	10	14	2	-	0.00	
26	63	58	53	55	54	50	96	83	69	30.09	30.07	30.09	10	9	3	16	4	21	0.00	
27	69	58	48	51	47	36	97	72	30	30.16	30.09	30.16	10	10	10	13	5	21	0.00	
28	71	60	48	48	46	38	83	63	31	30.15	30.11	30.15	10	10	10	13	3	-	0.00	
29	75	60	46	51	37	28	69	47	18	30.04	30.00	30.04	10	10	10	10	3	-	0.00	
30	66	58	50	47	42	39	75	61	42	30.16	30.03	30.16	10	10	10	17	2	24	0.00	Rain
31	60	53	46	42	38	31	71	53	38	30.30	30.25	30.30	10	10	10	18	7	22	0.00	
April	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	64	54	43	37	28	18	71	37	17	30.27	30.20	30.27	10	10	10	31	11	34	0.00	
2	70	61	52	36	24	19	41	26	16	30.15	30.03	30.15	10	10	10	29	20	33	0.00	
3	75	64	53	50	31	16	86	34	15	29.91	29.84	29.91	10	10	10	15	9	21	0.00	
4	69	58	46	48	44	34	89	65	29	29.87	29.79	29.87	10	10	8	17	4	22	0.00	
5	66	55	44	48	40	32	85	63	31	30.03	29.93	30.03	10	10	10	14	2	-	0.00	
6	61	52	44	46	42	41	87	70	55	30.20	30.11	30.20	10	10	10	16	0	17	0.00	
7	66	55	46	49	43	37	77	63	47	30.25	30.21	30.25	10	10	10	21	1	-	0.00	
8	66	56	45	45	40	37	71	58	39	30.19	30.17	30.19	10	10	10	21	4	29	0.00	
9	64	55	46	40	38	30	71	55	29	30.16	30.12	30.16	10	10	10	14	9	21	0.00	
10	69	56	44	46	41	36	82	58	32	30.08	30.05	30.08	10	10	10	16	2	-	0.00	
11	72	59	46	43	39	28	83	52	23	30.13	30.08	30.13	10	10	10	16	2	16	0.00	

12	68	57	46	57	48	41	88	75	50	30.12	30.09	30.12	10	10	8	18	2	-	0.00	
13	64	56	48	50	45	38	83	67	46	30.11	30.05	30.11	10	10	10	20	6	-	0.00	
14	75	60	48	53	45	42	83	62	42	30.09	30.05	30.09	10	10	10	15	0	-	0.00	
15	80	67	54	58	49	46	77	61	35	30.11	30.03	30.11	10	10	10	18	2	-	0.00	
16	72	62	52	56	50	48	86	73	54	30.15	30.11	30.15	10	10	10	17	3	-	0.00	
17	75	64	55	58	56	49	94	80	44	30.10	30.09	30.10	10	10	10	17	4	-	0.00	
18	75	65	54	58	54	52	94	75	46	30.08	30.05	30.08	10	10	10	10	2	-	0.00	Rain
19	72	64	57	61	60	54	100	82	58	30.19	30.05	30.19	10	10	6	10	3	-	0.04	Rain
20	73	67	61	61	58	56	93	78	61	30.23	30.20	30.23	10	10	10	15	5	-	0.00	
21	75	66	60	62	59	57	93	84	61	30.21	30.19	30.21	10	9	5	15	2	-	0.00	Rain
22	70	62	57	59	57	50	94	77	55	30.15	30.14	30.15	10	10	10	14	9	-	0.00	
23	66	60	52	55	48	41	87	62	43	30.11	30.06	30.11	10	10	10	20	9	25	0.00	
24	70	60	50	47	42	36	72	55	29	30.06	30.02	30.06	10	10	10	16	9	20	0.00	
25	82	66	50	55	46	39	77	49	22	30.00	29.96	30.00	10	10	10	15	3	-	0.00	
26	75	64	55	56	52	46	83	65	44	30.07	29.99	30.07	10	10	10	18	4	23	0.00	
27	68	60	53	56	49	41	88	69	39	30.09	30.06	30.09	10	10	10	13	8	-	0.00	
28	57	54	51	48	46	44	80	76	62	30.10	30.03	30.10	10	10	10	17	5	25	0.00	
29	71	62	52	54	47	40	82	68	44	30.14	30.10	30.14	10	10	10	17	3	24	0.00	
30	71	60	50	53	47	29	75	59	36	30.17	30.15	30.17	10	10	10	18	5	23	0.00	
May	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	72	60	46	44	36	30	69	48	21	30.13	30.07	30.13	10	10	10	15	3	-	0.00	
2	68	58	48	47	43	35	80	58	32	30.09	30.00	30.09	10	10	10	17	3	-	0.00	
3	72	64	55	58	50	41	72	63	48	30.18	30.09	30.18	10	10	10	23	3	26	0.00	
4	71	60	50	53	44	38	74	56	32	30.20	30.18	30.20	10	10	10	21	6	26	0.00	
5	71	62	51	53	47	44	77	62	47	30.21	30.17	30.21	10	10	10	21	4	-	0.00	
6	81	68	57	55	46	36	75	51	22	30.18	30.14	30.18	10	10	10	17	2	24	0.00	
7	73	63	53	56	49	44	83	66	51	30.04	30.03	30.04	10	10	7	18	3	23	0.00	
8	68	58	52	53	50	46	88	75	59	30.07	30.03	30.07	10	10	10	20	6	-	0.00	
9	75	64	52	55	49	48	86	70	42	30.09	30.05	30.09	10	10	8	18	5	-	0.00	
10	66	60	55	55	51	50	88	76	68	30.10	30.05	30.10	10	10	10	14	4	-	0.00	
11	66	60	55	54	53	52	88	76	63	30.04	30.00	30.04	10	10	9	14	5	-	0.00	
12	75	64	55	56	52	51	88	74	49	30.00	29.99	30.00	10	10	7	18	0	-	0.00	

13	80	66	54	58	47	39	80	54	28	29.98	29.97	29.98	10	10	10	20	3	-	0.00	
14	79	71	63	61	55	51	84	66	42	30.04	29.98	30.04	10	10	7	18	1	-	0.00	
15	84	72	60	59	52	51	67	51	37	30.08	30.05	30.08	10	10	10	15	2	-	0.00	
16	93	78	62	62	53	51	70	46	24	30.04	29.98	30.04	10	10	10	12	0	-	0.00	
17	98	83	68	63	56	48	68	42	19	29.94	29.89	29.94	10	10	10	15	1	20	0.00	
18	82	72	64	61	60	56	75	61	47	29.85	29.84	29.85	10	10	10	16	3	-	0.00	
19	78	67	57	57	56	53	87	66	45	29.86	29.84	29.86	10	9	7	17	3	-	0.00	
20	72	64	57	56	54	50	84	69	51	29.95	29.89	29.95	10	10	9	21	5	24	0.00	
21	75	64	54	54	50	38	84	60	35	29.99	29.95	29.99	10	10	9	18	5	-	0.00	
22	73	64	55	54	48	39	72	61	48	30.04	30.00	30.04	10	10	10	18	2	-	0.00	
23	73	66	59	60	54	53	94	78	57	30.05	30.01	30.05	10	8	2	16	2	-	0.57	Rain
24	73	65	55	54	52	41	84	59	35	30.06	30.05	30.06	10	10	10	16	5	21	0.00	
25	75	62	52	53	45	39	74	52	29	30.06	30.03	30.06	10	10	10	17	3	20	0.00	
26	75	64	52	61	49	38	73	59	36	30.17	30.08	30.17	10	10	10	15	3	-	0.00	
27	82	72	64	63	61	55	94	70	42	30.17	30.16	30.17	10	10	10	17	8	-	0.00	
28	80	72	63	64	62	60	94	81	52	30.10	30.07	30.10	10	10	7	21	5	-	0.00	
29	84	73	64	64	62	51	94	74	37	30.02	30.01	30.02	10	10	10	17	5	23	0.00	
30	82	72	63	64	59	58	90	68	52	30.05	29.97	30.05	10	10	10	23	6	20	0.00	
31	87	76	64	63	60	50	87	63	30	30.07	30.04	30.07	10	10	10	17	2	17	0.00	
June	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	77	70	61	56	54	46	70	56	37	30.04	30.03	30.04	10	10	10	17	6	20	0.00	
2	78	66	55	57	50	45	80	58	37	29.95	29.92	29.95	10	10	10	15	3	22	0.00	
3	69	65	61	61	50	50	94	74	63	29.96	29.89	29.96	10	10	5	8	2	-	0.34	Rain
4	73	66	59	61	56	45	93	70	37	29.98	29.93	29.98	10	10	10	18	3	24	0.00	Rain
5	75	66	55	54	48	46	77	59	40	29.96	29.91	29.96	10	10	10	16	4	33	0.00	
6	80	68	55	58	53	51	83	64	47	29.81	29.78	29.81	10	10	10	21	4	-	0.00	
7	75	66	57	57	52	50	83	64	41	29.74	29.71	29.74	10	10	9	24	7	-	0.00	
8	73	64	55	56	50	50	83	68	48	29.84	29.77	29.84	10	10	10	18	11	25	0.00	
9	77	66	57	58	52	50	83	68	48	29.93	29.84	29.93	10	10	10	21	6	-	0.00	
10	72	64	57	57	55	50	83	71	55	30.02	29.94	30.02	10	10	8	22	5	26	0.00	
11	77	66	54	61	53	49	80	65	52	30.02	29.99	30.02	10	10	10	18	3	-	0.00	
12	71	64	57	54	52	44	78	60	42	30.01	29.97	30.01	10	10	10	20	7	28	0.00	

13	82	68	55	56	49	42	73	51	27	29.83	29.76	29.83	10	10	10	20	7	-	0.00	
14	78	70	60	58	53	49	78	62	48	29.90	29.79	29.90	10	10	10	16	2	-	0.00	
15	75	68	60	59	54	52	84	71	54	29.98	29.92	29.98	10	10	10	16	4	-	0.00	
16	78	69	60	61	57	56	88	76	50	29.99	29.97	29.99	10	10	9	16	5	-	0.00	
17	72	66	59	58	56	54	87	75	61	29.98	29.95	29.98	10	10	10	17	7	-	0.00	
18	73	65	57	59	58	54	90	74	55	29.96	29.94	29.96	10	10	10	18	5	-	0.00	
19	80	70	59	58	52	39	83	61	26	29.98	29.94	29.98	10	10	7	21	4	25	0.00	
20	73	64	55	52	52	46	80	60	42	29.94	29.94	29.94	10	10	10	22	5	-	0.00	
21	78	64	54	54	50	43	86	58	32	29.95	29.88	29.95	10	10	10	21	7	20	0.00	
22	75	64	53	53	46	42	72	54	35	30.01	29.96	30.01	10	10	10	21	6	-	0.00	
23	80	66	53	55	47	44	78	56	31	30.05	30.01	30.05	10	10	10	18	3	-	0.00	
24	87	72	57	60	52	46	78	59	24	29.98	29.96	29.98	10	10	10	16	0	-	0.00	
25	84	72	59	60	54	45	81	59	33	29.92	29.89	29.92	10	10	10	22	4	-	0.00	
26	75	65	55	56	50	40	89	60	34	29.96	29.93	29.96	10	10	10	21	6	-	0.00	
27	73	64	55	50	50	46	77	61	44	30.05	29.97	30.05	10	10	10	15	2	20	0.00	
28	72	64	54	50	50	45	77	63	42	30.09	30.04	30.09	10	10	10	16	1	21	0.00	
29	75	64	52	54	47	44	72	59	40	30.03	30.02	30.03	10	10	10	18	2	23	0.00	
30	73	66	59	56	52	48	88	64	49	30.15	30.04	30.15	10	9	2	20	3	-	0.04	Rain
July	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	81	67	55	55	49	40	80	54	28	30.14	30.07	30.14	10	10	10	22	4	28	0.00	
2	86	70	55	58	51	49	81	61	32	30.04	29.99	30.04	10	10	10	17	5	-	0.00	
3	79	69	61	62	57	54	88	74	52	29.93	29.90	29.93	10	10	10	17	3	-	0.00	
4	72	66	60	60	57	55	87	76	68	29.99	29.92	29.99	10	10	8	20	7	-	0.00	
5	73	66	60	59	55	55	86	73	57	30.06	30.00	30.06	10	10	8	15	2	-	0.00	
6	77	67	59	60	55	53	84	70	55	30.00	29.99	30.00	10	10	10	18	4	-	0.00	
7	81	70	59	62	56	54	90	67	45	29.94	29.93	29.94	10	10	10	17	3	-	0.00	
8	82	72	62	63	56	56	84	68	47	29.93	29.89	29.93	10	10	10	17	2	-	0.00	
9	82	68	60	62	59	53	90	75	55	29.94	29.91	29.94	10	10	10	15	5	-	0.00	
10	79	68	55	58	53	46	84	63	31	29.91	29.88	29.91	10	10	10	22	5	-	0.00	
11	79	68	57	58	53	48	83	64	45	29.94	29.88	29.94	10	10	10	17	6	18	0.00	
12	82	69	57	59	53	52	84	67	38	29.99	29.95	29.99	10	10	10	21	9	23	0.00	
13	78	69	61	60	57	56	87	73	54	29.99	29.95	29.99	10	9	7	14	5	-	0.00	

14	75	68	60	60	56	55	87	74	57	30.04	29.99	30.04	10	9	7	15	1	-	0.00
15	80	70	61	62	57	57	88	74	50	30.07	30.04	30.07	10	9	6	13	4	-	0.00
16	73	66	61	60	57	54	90	77	65	30.01	29.99	30.01	10	9	7	16	4	-	0.00
17	80	70	61	58	55	49	87	63	44	30.01	29.97	30.01	10	10	10	22	5	-	0.00
18	79	68	59	59	54	53	87	67	45	29.97	29.95	29.97	10	10	10	20	6	-	0.00
19	78	70	61	59	58	56	87	72	52	29.93	29.88	29.93	10	9	7	16	4	-	0.00
20	73	68	62	59	56	55	84	73	59	29.97	29.93	29.97	10	9	8	18	5	-	0.00
21	79	70	62	62	57	55	84	70	50	29.98	29.96	29.98	10	9	7	13	2	-	0.00
22	77	70	62	59	57	56	84	70	52	30.02	29.96	30.02	10	10	10	16	5	-	0.00
23	78	69	61	62	56	55	84	75	56	30.05	30.00	30.05	10	10	10	12	4	-	0.00
24	84	72	63	62	59	58	84	72	42	30.03	30.00	30.03	10	10	10	21	3	-	0.00
25	79	70	63	60	59	55	90	74	45	29.99	29.97	29.99	10	9	6	13	2	-	0.00
26	77	68	62	60	58	57	86	72	56	29.93	29.89	29.93	10	9	5	16	4	-	0.00
27	78	68	59	59	55	54	83	69	52	29.96	29.91	29.96	10	10	10	17	2	-	0.00
28	75	69	63	59	57	56	87	69	54	29.95	29.93	29.95	10	10	10	16	5	-	0.00
29	75	66	59	61	54	52	81	69	53	30.01	29.95	30.01	10	10	10	18	5	-	0.00



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Moffett NAS, California
on Tuesday, July 29, 1997

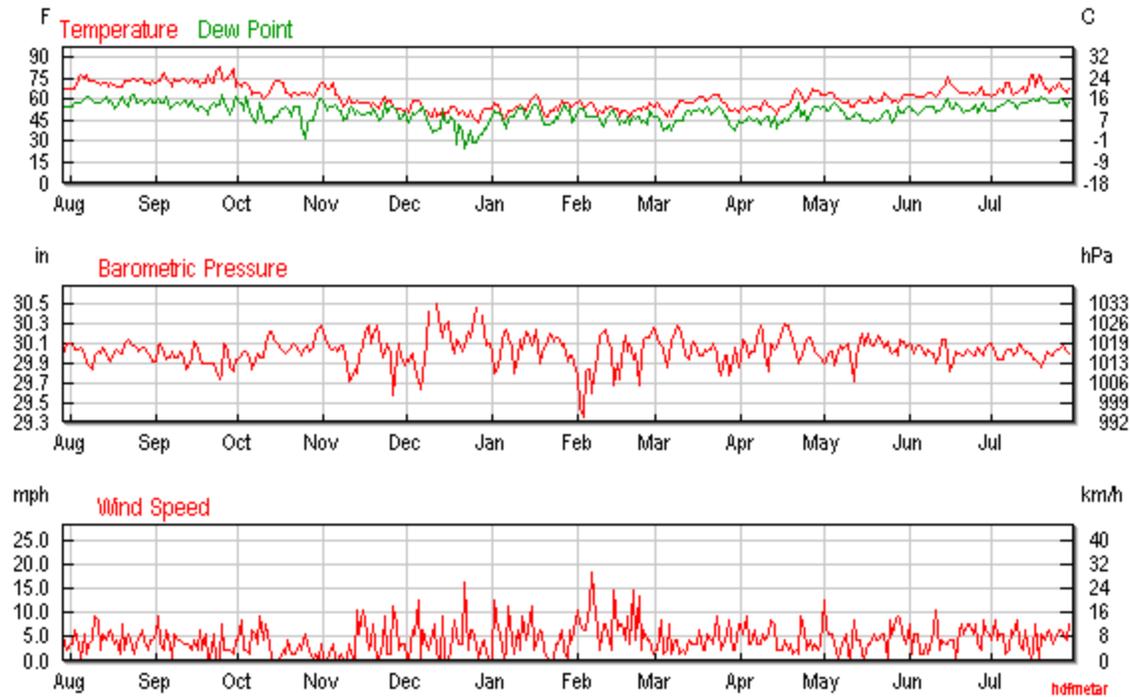
July 29, 1997

Custom Date Query - Choose two dates less than or equal to one year apart

From: To:

Summary

Temperature	Max	Avg	Min	
Max Temperature	97 °F / 36 °C	80 °F / 26 °C	51 °F / 10 °C	
Mean Temperature	82 °F / 27 °C	70 °F / 20 °C	42 °F / 5 °C	
Min Temperature	68 °F / 20 °C	60 °F / 14 °C	30 °F / -1 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	24	0	0	2310
Cooling Degree Days (base 65)	18	5	0	595
Growing Degree Days (base 50)	32	20	0	3866
Dew Point	Max	Avg	Min	
Dew Point	70 °F / 21 °C	56 °F / 12 °C	20 °F / -6 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	6.81 in / 17.3 cm	0.23 in / 0.3 cm	0.00 in / 0.0 cm	52.28 in / 132.83 cm
Snowdepth	-	-	-	-
Wind	Max	Avg	Min	
Wind	102 mph / 164 km/h	4 mph / 6 km/h	0 mph / 0 km/h	
Gust Wind	40 mph / 64 km/h	20 mph / 35 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.58 in / 1035 hPa	29.99 in / 1015 hPa	29.23 in / 990 hPa	



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Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
July																				
29	75	66	59	61	54	52	81	69	53	30.01	29.95	30.01	10	10	10	18	5	-	0.00	
30	73	66	57	58	54	53	81	67	57	30.10	30.02	30.10	10	10	10	18	3	-	0.00	
31	73	66	59	59	54	50	83	67	52	30.12	30.09	30.12	10	10	10	20	2	-	0.00	
August																				
	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	75	67	59	58	53	45	80	61	38	30.12	30.09	30.12	10	10	9	20	3	-	0.00	
2	75	66	57	59	53	50	84	70	53	30.08	30.06	30.08	10	10	10	16	3	-	0.00	
3	75	67	60	60	57	55	84	74	57	30.04	30.02	30.04	10	10	10	17	6	-	0.00	
4	88	74	60	61	57	54	84	62	33	30.07	30.03	30.07	10	10	9	18	3	-	0.00	
5	89	76	63	63	57	49	87	66	26	30.05	30.04	30.05	10	10	10	13	0	17	0.00	
6	88	74	61	62	59	55	90	72	33	30.00	29.97	30.00	10	9	5	12	5	-	0.00	

7	89	77	66	64	60	59	78	66	43	29.89	29.87	29.89	10	10	9	10	1	-	0.00	
8	82	72	64	63	61	58	94	73	52	29.88	29.85	29.88	10	9	6	16	3	-	0.00	
9	82	72	63	58	58	53	78	60	36	29.90	29.81	29.90	10	10	10	16	4	22	0.00	
10	78	72	66	59	56	53	70	60	45	30.00	29.95	30.00	10	10	10	16	9	16	0.00	
11	77	70	64	59	56	54	78	66	52	30.03	29.99	30.03	10	10	10	21	8	-	0.00	
12	77	69	62	61	56	56	83	69	58	30.04	29.97	30.04	10	10	9	16	2	-	0.00	
13	75	70	64	61	58	57	88	72	58	30.07	30.04	30.07	10	9	6	17	5	-	0.00	
14	78	71	63	61	60	58	88	74	54	30.01	29.98	30.01	10	8	4	13	4	-	0.00	
15	73	68	63	60	57	57	84	72	59	29.94	29.91	29.94	10	9	6	18	5	-	0.00	
16	81	71	61	58	58	52	78	65	44	29.98	29.90	29.98	10	10	10	21	6	25	0.00	
17	79	69	59	57	52	51	75	60	46	30.05	30.01	30.05	10	9	7	18	3	-	0.00	
18	75	68	62	58	54	53	73	62	53	30.06	30.03	30.06	10	10	10	14	4	20	0.00	
19	75	68	62	63	58	53	90	73	57	29.99	29.98	29.99	10	9	2	15	1	-	0.59	Rain , Thunderstorm
20	75	68	64	63	60	57	94	72	61	30.09	29.98	30.09	10	9	2	15	7	-	0.19	Rain
21	82	72	62	60	57	55	81	64	41	30.11	30.08	30.11	10	10	10	15	2	-	0.00	
22	82	72	61	58	54	53	73	56	38	30.18	30.13	30.18	10	10	10	20	5	-	0.00	
23	80	72	64	64	60	57	81	72	58	30.11	30.09	30.11	10	10	10	17	4	-	0.00	
24	81	73	66	63	62	55	78	63	47	30.12	30.07	30.12	10	10	10	20	1	-	0.00	
25	81	72	62	60	56	54	78	62	39	30.07	30.04	30.07	10	10	10	21	3	-	0.00	
26	82	72	64	62	57	55	76	63	45	30.04	30.00	30.04	10	10	10	20	4	-	0.00	
27	82	74	66	60	58	49	79	57	31	30.07	30.04	30.07	10	10	10	22	6	25	0.00	
28	81	71	61	62	55	53	75	62	47	30.06	30.04	30.06	10	10	10	21	4	-	0.00	
29	79	71	64	62	58	55	76	66	52	30.01	29.98	30.01	10	10	10	20	2	-	0.00	
30	80	69	59	70	59	52	93	67	53	29.96	29.95	29.96	10	10	10	21	4	-	0.00	
31	80	72	64	62	56	55	75	61	52	29.90	29.89	29.90	10	10	10	22	4	-	0.00	
September	Temperature		Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events	
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	79	71	63	61	56	54	73	60	48	29.93	29.89	29.93	10	10	10	20	5	-	0.00	
2	80	72	61	62	59	57	73	61	48	30.08	30.05	30.08	10	10	10	16	9	-	0.00	
3	82	72	63	61	57	55	75	64	45	30.11	30.09	30.11	10	10	9	15	3	-	0.00	
4	91	78	66	62	56	43	73	56	21	30.04	29.97	30.04	10	10	10	18	2	-	0.00	
5	82	74	64	61	60	51	76	62	40	29.94	29.91	29.94	10	10	7	21	6	-	0.00	
6	80	70	59	60	52	49	73	58	45	30.01	29.94	30.01	10	10	10	18	3	-	0.00	

7	77	68	59	58	53	51	75	63	48	30.04	30.01	30.04	10	10	10	16	0	-	0.00
8	82	74	66	59	55	47	73	60	30	29.98	29.94	29.98	10	10	10	14	5	-	0.00
9	81	72	64	59	57	50	76	60	36	29.99	29.93	29.99	10	10	10	20	4	-	0.00
10	80	72	64	61	55	55	70	60	50	30.01	29.99	30.01	10	10	10	21	4	-	0.00
11	81	74	66	63	58	57	78	61	45	29.93	29.91	29.93	10	10	9	17	3	-	0.00
12	81	72	63	60	58	53	81	61	45	29.84	29.81	29.84	10	9	7	20	3	23	0.00
13	79	70	61	59	54	52	75	62	42	29.90	29.83	29.90	10	10	10	21	3	-	0.00
14	82	73	63	61	58	52	75	62	45	30.08	29.94	30.08	10	10	10	20	2	26	0.00
15	78	70	61	55	54	50	73	61	39	30.19	30.11	30.19	10	10	10	17	4	18	0.00
16	82	72	60	55	51	48	68	52	29	30.12	30.02	30.12	10	10	10	13	2	-	0.00
17	77	68	61	60	54	52	76	65	51	29.95	29.93	29.95	10	10	10	16	6	-	0.00
18	78	70	62	56	53	45	68	53	35	29.92	29.88	29.92	10	10	10	17	2	-	0.00
19	86	70	57	51	50	46	72	49	26	29.91	29.87	29.91	10	10	9	14	5	-	0.00
20	91	76	59	58	48	41	62	44	19	29.92	29.88	29.92	10	10	10	15	0	-	0.00
21	82	72	61	61	53	43	78	60	33	29.91	29.88	29.91	10	10	10	15	0	18	0.00
22	81	71	62	60	56	53	82	66	39	29.93	29.88	29.93	10	10	8	10	5	-	0.00
23	95	79	61	62	53	49	70	50	26	29.85	29.79	29.85	10	10	9	13	0	-	0.00
24	97	82	68	63	55	46	71	47	19	29.76	29.72	29.76	10	10	10	10	0	-	0.00
25	79	73	66	63	62	57	78	68	60	29.95	29.78	29.95	10	9	6	23	7	-	0.00
26	79	72	64	61	56	48	73	61	47	30.16	30.08	30.16	10	10	10	20	2	23	0.00
27	87	74	59	58	50	43	67	49	22	30.14	30.02	30.14	10	10	10	14	2	-	0.00
28	95	76	60	58	48	40	67	41	17	29.91	29.84	29.91	10	10	10	7	2	-	0.00
29	93	80	66	65	55	48	90	50	22	29.90	29.80	29.90	10	10	10	14	1	-	0.00
30	75	68	63	67	60	57	96	78	57	29.99	29.92	29.99	10	9	6	14	4	-	0.00

October	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	high	sum		
1	80	71	62	60	58	56	82	69	47	29.93	29.91	29.93	10	10	7	14	4	18	0.00	
2	75	68	62	57	57	49	84	68	38	30.04	29.95	30.04	10	9	3	14	8	23	0.10	Rain
3	81	70	59	61	51	48	84	60	32	30.02	29.99	30.02	10	10	10	15	2	-	0.00	
4	78	70	63	61	60	51	88	66	42	30.07	30.00	30.07	10	10	10	20	2	18	0.00	
5	79	68	57	52	51	47	75	53	33	30.05	29.94	30.05	10	10	10	14	1	-	0.00	
6	69	62	55	49	46	41	70	54	37	29.89	29.82	29.89	10	10	10	21	6	30	0.00	
7	73	64	55	46	42	36	67	50	27	29.97	29.89	29.97	10	10	10	13	5	21	0.00	

8	73	64	54	54	46	42	65	55	42	30.02	29.98	30.02	10	10	10	12	3	-	0.00	
9	70	64	55	57	56	44	87	72	42	30.02	29.93	30.02	10	8	2	15	9	24	0.93	Rain
10	66	59	51	52	46	43	77	67	45	29.97	29.93	29.97	10	9	2	12	4	-	0.26	Rain
11	70	60	51	45	42	36	74	54	31	30.18	30.08	30.18	10	10	10	16	7	20	0.00	
12	75	64	53	50	43	36	74	51	25	30.25	30.21	30.25	10	10	10	10	3	-	0.00	
13	80	66	51	46	42	39	66	45	26	30.24	30.20	30.24	10	10	10	9	0	-	0.00	
14	84	70	53	55	46	42	69	48	28	30.18	30.12	30.18	10	10	10	9	0	-	0.00	
15	87	72	55	54	47	45	67	46	25	30.12	30.08	30.12	10	10	10	8	0	-	0.00	
16	86	72	57	59	50	48	70	55	29	30.06	30.05	30.06	10	10	8	9	0	-	0.00	
17	80	70	57	58	52	48	78	61	40	30.03	30.00	30.03	10	9	7	9	2	-	0.00	
18	72	64	57	57	53	50	94	78	59	30.02	29.98	30.02	10	4	0	10	1	-	0.00	Fog
19	72	64	54	53	52	46	82	66	47	30.05	29.99	30.05	10	8	3	15	4	-	0.00	
20	71	61	51	55	47	45	81	70	49	30.09	30.04	30.09	10	10	9	12	1	-	0.00	
21	71	64	59	56	54	52	82	72	53	30.13	30.09	30.13	10	7	4	12	1	-	0.00	
22	68	64	59	54	53	51	78	72	56	30.10	30.07	30.10	10	6	4	10	1	-	0.00	
23	72	62	55	55	53	49	84	70	53	30.02	30.01	30.02	10	9	6	14	3	-	0.00	
24	73	63	51	52	39	28	86	49	20	30.00	29.96	30.00	10	10	7	16	2	-	0.00	
25	75	64	51	47	31	24	54	32	18	30.10	30.04	30.10	10	10	10	13	5	-	0.00	
26	77	62	50	51	40	37	66	48	24	30.12	30.07	30.12	10	10	10	12	3	-	0.00	
27	75	64	53	53	44	40	70	54	32	30.02	29.99	30.02	10	10	9	9	2	-	0.00	
28	71	60	50	54	44	37	77	62	32	30.12	30.04	30.12	10	10	9	14	0	-	0.00	
29	72	62	51	59	49	44	88	72	44	30.24	30.17	30.24	10	10	10	13	1	-	0.00	
30	73	68	62	62	59	59	94	79	61	30.30	30.25	30.30	10	9	4	12	0	-	0.00	
31	75	70	63	64	59	59	93	79	64	30.30	30.27	30.30	10	8	2	15	3	-	0.01	
November	Temperature		Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events	
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	high	sum		
1	82	70	59	61	58	52	94	76	42	30.22	30.20	30.22	10	6	0	10	0	-	0.04	Fog
2	81	67	53	57	50	49	89	61	35	30.14	30.09	30.14	10	10	10	12	0	-	0.00	
3	75	66	57	58	53	50	81	67	46	30.09	30.04	30.09	10	9	8	9	1	-	0.00	
4	81	70	60	56	54	51	78	63	36	30.06	30.02	30.06	10	9	7	9	3	-	0.00	
5	68	62	55	57	55	52	93	83	63	30.09	30.04	30.09	10	6	3	10	0	-	0.00	
6	69	62	54	61	52	51	94	83	61	30.05	30.01	30.05	10	8	4	12	0	-	0.04	Rain
7	64	57	50	53	50	40	94	73	41	30.13	30.07	30.13	10	10	10	14	1	-	0.00	

8	63	53	43	50	43	39	86	72	60	30.10	30.06	30.10	10	10	10	6	0	-	0.00	
9	68	56	45	53	45	42	90	73	42	29.96	29.86	29.96	10	10	10	13	0	-	0.00	
10	64	60	55	56	52	50	94	82	61	29.71	29.70	29.71	10	9	5	13	3	-	0.38	Rain
11	60	56	50	53	53	47	96	82	62	29.81	29.71	29.81	10	10	4	7	1	-	0.13	Rain
12	63	56	48	50	48	44	93	75	52	29.84	29.81	29.84	10	10	10	14	0	-	0.01	
13	64	58	51	53	50	48	97	77	56	29.89	29.77	29.89	10	9	2	14	10	20	0.19	Rain
14	63	57	51	53	49	45	96	81	58	30.04	29.96	30.04	10	10	7	10	5	-	0.21	Rain
15	61	56	52	51	48	47	93	81	64	30.17	30.07	30.17	10	9	5	15	10	-	0.50	Rain
16	61	56	51	53	48	47	94	86	72	30.25	30.21	30.25	10	9	1	13	8	-	0.69	Rain
17	64	56	48	53	49	48	97	82	56	30.32	30.27	30.32	10	10	9	9	2	-	0.01	
18	61	54	48	51	48	47	97	76	60	30.25	30.09	30.25	10	10	10	23	3	30	0.04	Rain
19	61	56	50	54	52	47	100	87	67	30.27	30.16	30.27	10	9	4	10	7	18	0.04	Rain
20	62	54	46	50	47	45	96	78	58	30.30	30.26	30.30	10	10	9	8	0	-	0.01	
21	59	52	46	49	44	43	90	76	55	30.20	30.15	30.20	10	10	10	9	0	-	0.00	Rain
22	69	58	48	55	46	45	90	73	42	30.02	29.93	30.02	10	10	10	14	3	24	0.02	Rain
23	69	60	52	57	56	49	94	78	51	30.11	29.97	30.11	10	9	2	12	9	-	0.16	Rain
24	66	57	48	57	49	47	100	83	54	30.16	30.09	30.16	10	10	6	9	1	-	0.07	Rain
25	64	58	51	57	54	51	100	94	67	30.15	29.97	30.15	10	6	1	12	1	21	0.92	Rain
26	57	54	52	55	54	48	100	88	72	29.76	29.55	29.76	10	7	1	18	11	23	2.89	Rain
27	57	52	48	52	50	46	100	87	72	30.09	29.93	30.09	10	10	4	9	7	-	0.15	Rain
28	61	52	44	50	45	42	97	85	60	30.14	30.09	30.14	10	9	7	6	2	-	0.00	
29	60	52	44	51	45	43	97	84	67	30.02	29.94	30.02	10	8	2	15	3	21	0.96	Rain
30	55	50	46	50	49	45	100	91	80	29.91	29.85	29.91	10	9	3	12	3	-	0.59	Rain
December	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	62	52	43	48	44	40	100	77	46	29.95	29.91	29.95	10	10	6	7	0	-	0.00	
2	57	49	41	50	42	39	96	81	58	29.99	29.90	29.99	10	9	6	8	0	-	0.00	
3	62	58	53	50	49	47	86	73	60	30.02	29.98	30.02	10	10	10	15	6	21	0.00	
4	63	58	52	51	48	45	86	68	52	29.96	29.84	29.96	10	10	9	16	5	22	0.04	Rain
5	63	58	54	52	51	48	89	73	60	29.77	29.70	29.77	10	10	10	21	12	26	0.10	Rain
6	60	56	51	54	51	49	96	86	69	29.68	29.61	29.68	10	9	5	6	0	-	0.07	Rain
7	57	52	46	56	54	45	100	91	70	29.90	29.75	29.90	10	8	2	10	6	24	1.29	Rain
8	53	50	46	46	45	40	97	84	66	30.27	30.10	30.27	10	9	4	16	3	21	0.51	Rain

9	55	48	41	43	40	35	96	74	45	30.50	30.40	30.50	10	10	10	10	2	-	0.00	
10	57	47	37	39	35	33	86	62	45	30.57	30.53	30.57	10	10	10	16	5	20	0.00	
11	60	52	44	41	36	34	76	60	41	30.53	30.50	30.53	10	10	10	12	7	21	0.00	
12	53	46	39	43	37	35	89	80	66	30.53	30.48	30.53	10	8	6	7	1	-	0.00	
13	57	48	39	46	38	36	89	76	53	30.32	30.23	30.32	10	8	5	12	0	-	0.00	
14	57	52	45	54	50	44	97	92	83	30.27	30.14	30.27	10	9	5	13	9	-	0.34	Rain
15	57	48	39	46	43	38	100	84	49	30.33	30.27	30.33	10	9	1	6	0	-	0.00	Rain
16	57	49	41	48	42	39	93	81	57	30.34	30.30	30.34	10	9	6	7	0	-	0.00	
17	60	54	48	54	46	44	93	81	63	30.22	30.13	30.22	10	9	4	18	2	18	0.00	
18	59	54	50	45	43	31	83	61	43	30.10	29.98	30.10	10	10	10	14	8	-	0.00	
19	60	52	43	33	26	22	63	46	29	30.16	30.12	30.16	10	10	10	15	5	-	0.00	
20	57	48	39	54	41	31	94	74	57	30.13	30.09	30.13	10	9	3	8	3	16	0.01	Rain
21	55	50	44	41	35	24	89	59	41	30.04	29.99	30.04	10	10	10	15	3	23	0.00	
22	55	48	41	26	23	20	55	38	25	30.14	30.05	30.14	10	10	10	25	16	23	0.00	
23	57	46	35	43	31	24	83	58	33	30.27	30.20	30.27	10	10	10	8	2	-	0.00	
24	57	51	45	42	36	28	83	56	33	30.22	30.14	30.22	10	10	10	17	6	23	0.00	
25	55	47	37	32	28	25	70	50	33	30.36	30.25	30.36	10	10	10	20	6	22	0.00	
26	55	44	33	35	28	27	78	63	38	30.54	30.45	30.54	10	10	8	7	3	-	0.00	
27	53	42	30	39	32	28	89	75	55	30.58	30.51	30.58	10	7	5	7	0	-	0.00	
28	64	50	37	39	33	30	86	53	32	30.43	30.36	30.43	10	9	6	9	3	-	0.00	
29	61	52	42	42	38	37	86	68	42	30.29	30.18	30.29	10	9	7	6	4	-	0.00	
30	62	52	41	45	38	38	89	69	44	30.09	30.07	30.09	10	8	5	6	1	-	0.00	
31	59	52	46	50	43	42	93	80	60	30.14	30.09	30.14	10	6	3	5	0	-	0.00	
January	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	57	52	46	50	47	46	100	90	74	30.06	29.97	30.06	10	5	2	15	0	-	0.00	
2	61	56	51	53	50	49	97	83	67	29.84	29.77	29.84	10	10	4	13	12	-	0.26	Rain
3	60	55	50	50	49	44	96	83	57	29.88	29.83	29.88	10	9	4	20	6	24	0.11	Rain
4	55	49	42	50	49	41	100	86	64	30.12	29.95	30.12	10	9	2	16	5	20	0.54	Rain
5	53	45	37	44	40	37	100	90	61	30.29	30.20	30.29	10	9	6	7	0	-	0.00	
6	55	46	37	47	38	34	96	78	44	30.30	30.23	30.30	10	10	5	15	2	-	0.27	Rain
7	53	50	48	50	45	44	96	89	82	30.20	30.14	30.20	10	10	9	15	11	22	0.00	
8	52	50	48	48	46	45	96	90	82	30.12	30.05	30.12	10	9	6	7	4	-	0.00	

9	55	52	48	54	47	47	100	93	86	29.88	29.77	29.88	10	5	1	7	1	-	0.50	Rain
10	57	54	52	56	52	51	100	95	87	30.11	29.93	30.11	10	8	2	9	6	16	0.24	Rain
11	59	55	51	53	52	50	100	88	75	30.16	30.12	30.16	10	10	7	13	2	-	0.06	Rain
12	60	53	45	57	54	45	100	95	83	30.17	30.02	30.17	10	9	2	25	9	37	0.93	Rain
13	57	50	44	50	45	44	100	84	62	30.27	30.20	30.27	10	10	10	9	4	-	0.01	
14	55	54	52	52	47	46	96	84	72	30.25	30.19	30.25	10	10	6	17	6	25	0.14	Rain
15	63	59	55	61	52	52	100	92	82	30.09	30.06	30.09	10	8	2	13	11	16	0.48	Rain
16	64	60	55	59	55	55	100	94	78	30.22	30.10	30.22	10	8	5	9	2	-	0.01	
17	68	62	52	56	55	52	100	87	63	30.27	30.22	30.27	10	10	10	9	3	-	0.00	
18	64	57	50	55	50	45	96	86	63	30.07	29.87	30.07	10	8	2	23	6	36	1.20	Rain
19	55	50	42	47	44	41	97	84	62	30.06	29.98	30.06	10	9	2	10	5	-	0.20	Rain
20	55	48	42	45	41	40	97	83	66	30.09	30.05	30.09	10	10	7	7	2	-	0.02	Rain
21	54	46	39	47	41	39	100	88	66	30.19	30.11	30.19	10	9	6	7	0	-	0.00	
22	59	50	41	49	41	40	96	80	55	30.22	30.18	30.22	10	9	7	7	0	-	0.00	
23	61	51	41	50	42	39	93	81	58	30.14	30.11	30.14	10	10	9	8	0	-	0.02	Rain
24	64	54	44	53	46	44	100	86	65	30.19	30.14	30.19	10	10	10	8	3	-	0.00	
25	57	50	42	52	45	42	100	93	75	30.18	30.14	30.18	10	6	0	8	3	-	0.04	Fog , Rain
26	64	58	52	56	51	50	100	85	70	30.13	30.07	30.13	10	8	2	16	6	23	0.19	Rain
27	63	57	51	56	55	52	100	96	75	30.09	30.08	30.09	10	6	1	9	2	-	0.54	Rain
28	66	57	48	55	51	48	100	87	59	30.02	29.90	30.02	10	6	0	15	0	23	0.32	Fog , Rain
29	61	54	46	54	52	43	100	81	55	30.11	29.96	30.11	10	8	2	12	6	20	1.12	Rain
30	63	53	43	50	42	38	97	76	48	30.10	29.95	30.10	10	10	10	15	4	21	0.00	
31	62	57	52	51	46	40	88	75	53	29.87	29.80	29.87	10	9	2	14	8	20	0.06	Rain
February	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	61	57	53	54	49	47	97	83	67	29.83	29.75	29.83	10	9	2	21	10	28	0.33	Rain
2	62	58	53	57	52	51	100	92	80	29.80	29.44	29.80	10	5	1	25	7	37	6.81	Rain
3	55	52	48	52	52	44	100	87	67	29.53	29.33	29.53	10	8	3	12	6	-	1.54	Rain
4	59	54	48	49	46	44	96	80	58	29.90	29.79	29.90	10	10	9	14	6	16	0.17	Rain
5	60	56	52	51	46	42	84	71	51	29.89	29.82	29.89	10	10	10	23	11	36	0.05	Rain
6	61	56	48	52	47	39	100	85	44	29.83	29.58	29.83	10	8	2	29	18	40	1.35	Rain
7	59	54	48	55	47	45	97	84	67	29.89	29.73	29.89	10	7	1	23	13	33	2.55	Rain
8	51	48	46	49	46	44	100	93	83	30.11	29.96	30.11	10	8	2	9	6	-	0.66	Rain

9	55	50	44	46	44	35	97	78	45	30.25	30.17	30.25	10	10	10	8	2	-	0.00	
10	54	49	44	46	39	39	90	76	61	30.25	30.21	30.25	10	10	5	21	7	26	0.06	Rain
11	60	53	46	49	44	44	90	80	64	30.27	30.23	30.27	10	10	10	9	7	-	0.01	
12	55	52	50	52	47	47	100	86	74	30.18	30.13	30.18	10	9	3	17	5	24	0.27	Rain
13	61	54	46	52	50	46	100	86	62	30.11	30.02	30.11	10	8	0	13	2	-	0.00	Fog
14	59	52	46	52	50	43	97	81	69	29.78	29.66	29.78	10	9	6	17	14	26	0.48	Rain
15	57	52	46	46	44	39	93	78	60	29.97	29.88	29.97	10	9	6	15	6	-	0.00	
16	52	46	41	49	40	38	93	83	69	29.89	29.72	29.89	10	10	7	17	7	29	0.29	Rain
17	55	50	44	48	44	43	96	82	69	30.11	29.91	30.11	10	9	4	9	7	-	0.12	Rain
18	59	50	42	48	42	41	100	80	60	30.23	30.17	30.23	10	10	9	9	4	-	0.06	Rain
19	53	49	44	48	47	41	93	84	77	30.17	30.01	30.17	10	8	2	24	9	34	1.13	Rain
20	54	46	39	44	41	38	100	81	62	30.14	30.09	30.14	10	10	8	13	3	-	0.01	
21	55	50	46	54	46	41	100	89	66	30.04	29.92	30.04	10	8	1	20	14	28	1.52	Rain
22	55	50	44	47	45	42	97	79	60	30.02	29.97	30.02	10	10	8	12	4	-	0.12	Rain
23	57	52	46	52	46	37	94	76	47	29.81	29.66	29.81	10	9	2	17	13	24	0.42	Rain
24	57	50	42	45	42	39	96	78	49	30.08	29.93	30.08	10	10	10	13	2	20	0.00	
25	57	54	50	52	44	39	94	73	64	30.17	30.12	30.17	10	10	7	9	6	-	0.01	Rain
26	57	52	46	50	40	37	96	77	57	30.18	30.14	30.18	10	10	8	17	4	-	0.04	Rain
27	60	56	48	52	50	46	96	84	72	30.22	30.14	30.22	10	9	7	15	4	-	0.00	
28	60	54	48	49	46	45	93	77	64	30.31	30.24	30.31	10	10	4	14	1	-	0.00	
March	Temperature		Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events	
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	60	53	46	50	46	44	96	79	64	30.27	30.21	30.27	10	10	10	12	2	-	0.00	
2	62	56	51	53	46	46	88	77	69	30.14	30.13	30.14	10	10	10	13	2	-	0.00	
3	57	52	46	47	40	34	83	63	44	30.09	30.06	30.09	10	10	10	13	8	18	0.00	
4	57	50	43	39	37	28	82	59	32	30.05	30.03	30.05	10	10	10	10	1	-	0.00	
5	51	46	41	47	38	34	100	81	59	29.94	29.83	29.94	10	9	4	17	2	25	0.58	Rain
6	57	50	42	43	40	33	93	67	40	30.08	29.95	30.08	10	10	10	12	7	16	0.00	
7	53	46	39	45	36	32	93	76	55	30.19	30.11	30.19	10	10	4	9	1	-	0.17	Rain
8	60	54	48	47	43	43	86	73	60	30.27	30.21	30.27	10	10	10	14	4	-	0.00	Rain
9	64	54	45	51	43	40	93	70	41	30.30	30.26	30.30	10	10	10	7	4	-	0.00	
10	70	58	45	51	44	41	90	71	46	30.27	30.24	30.27	10	10	10	9	1	-	0.00	
11	70	58	46	55	44	39	93	69	42	30.18	30.11	30.18	10	10	10	8	2	-	0.00	

12	62	57	52	56	49	46	90	82	70	30.00	29.96	30.00	10	9	4	12	1	-	0.15	Rain
13	61	56	51	53	51	45	100	82	57	30.03	29.91	30.03	10	9	4	14	4	-	1.25	Rain
14	66	57	48	56	48	45	90	79	58	30.10	30.03	30.10	10	10	10	14	3	-	0.00	
15	64	57	50	56	50	48	96	84	65	30.13	30.10	30.13	10	9	7	17	3	-	0.00	
16	64	59	54	55	51	50	96	85	68	30.05	30.02	30.05	10	9	2	12	3	-	0.06	
17	66	60	53	55	52	50	94	82	65	29.97	29.95	29.97	10	9	6	15	6	-	0.00	
18	71	60	48	54	49	44	96	79	40	30.04	29.95	30.04	18	9	5	13	2	-	0.01	
19	63	58	54	56	52	51	90	84	75	30.05	30.03	30.05	10	7	3	15	2	-	0.00	
20	62	58	55	55	54	48	90	83	72	30.01	30.00	30.01	10	9	7	9	5	-	0.00	
21	64	60	55	53	48	47	78	70	60	30.09	30.02	30.09	10	10	7	13	4	-	0.03	Rain
22	69	62	55	56	49	45	80	64	42	30.11	30.09	30.11	10	10	10	15	3	-	0.00	
23	64	62	57	58	52	51	94	78	67	30.01	29.98	30.01	10	9	6	20	9	25	0.39	Rain
24	70	62	55	56	53	42	97	75	38	29.89	29.80	29.89	10	10	8	14	5	-	0.05	Rain
25	63	58	52	52	52	44	93	76	58	29.88	29.76	29.88	10	10	10	16	2	21	0.01	Rain
26	61	56	51	48	46	42	86	70	51	30.08	29.95	30.08	10	10	10	17	4	24	0.00	
27	60	54	48	50	47	38	94	74	46	30.09	29.96	30.09	10	9	4	14	5	20	0.09	Rain
28	55	50	44	41	40	35	89	69	45	29.79	29.75	29.79	10	10	7	22	8	28	0.10	Rain
29	60	51	42	41	38	32	85	59	35	30.02	29.90	30.02	10	10	10	12	2	-	0.00	
30	64	52	39	45	37	32	83	60	32	30.09	30.05	30.09	10	10	10	16	2	25	0.00	Rain
31	52	49	46	46	44	41	93	80	68	29.97	29.84	29.97	10	9	2	14	7	22	0.72	Rain
April	Temperature		Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events	
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high		sum		
1	59	52	46	45	42	42	89	77	53	30.07	29.91	30.07	10	9	5	13	7	-	0.08	Rain
2	57	54	50	48	42	37	89	68	47	30.17	30.13	30.17	10	10	10	10	5	-	0.03	Rain
3	57	50	44	47	44	37	93	80	51	30.08	30.04	30.08	10	9	3	16	9	20	0.84	Rain
4	57	52	48	49	46	44	90	81	67	30.01	29.94	30.01	10	10	8	9	3	-	0.12	Rain
5	59	52	44	46	45	41	96	76	55	30.04	29.99	30.04	10	10	10	14	3	-	0.00	
6	60	54	48	49	43	42	92	77	55	30.07	29.99	30.07	10	10	9	102	6	22	0.15	Rain
7	61	54	48	46	45	38	90	73	46	30.26	30.14	30.26	10	10	10	15	3	21	0.00	Rain
8	61	50	41	43	40	38	89	67	49	30.30	30.26	30.30	10	10	10	12	3	-	0.00	
9	66	57	48	50	44	41	77	64	43	30.21	30.18	30.21	10	10	10	14	5	16	0.00	Rain
10	64	58	50	48	45	41	83	63	43	30.09	29.98	30.09	10	10	10	15	4	-	0.00	
11	60	54	50	48	46	38	94	77	55	29.96	29.79	29.96	10	9	2	18	5	26	0.48	Rain

12	60	53	45	47	39	35	93	63	42	30.16	30.09	30.16	10	10	6	15	8	21	0.16	Rain
13	55	50	45	46	46	37	93	80	49	30.08	30.03	30.08	10	9	3	15	7	-	0.46	Rain
14	57	48	39	43	38	37	93	71	51	30.08	30.05	30.08	10	10	10	14	2	-	0.02	Rain
15	61	52	39	44	40	38	89	69	44	30.22	30.11	30.22	10	10	10	16	2	-	0.00	
16	66	53	41	50	42	38	89	69	45	30.28	30.23	30.28	10	10	10	17	2	-	0.00	
17	63	53	44	51	45	39	85	73	62	30.31	30.28	30.31	10	10	10	20	4	-	0.00	
18	66	55	43	52	44	40	86	73	47	30.29	30.27	30.29	10	10	10	20	2	-	0.00	
19	66	57	48	56	48	44	89	78	65	30.20	30.17	30.20	10	10	10	18	3	-	0.00	
20	71	60	48	58	49	47	89	78	61	30.15	30.13	30.15	10	10	7	15	1	-	0.00	
21	84	66	50	60	51	48	89	66	42	30.08	29.98	30.08	10	10	8	10	2	-	0.00	
22	73	65	57	61	56	48	81	70	49	29.89	29.87	29.89	10	9	6	17	1	23	0.00	
23	68	62	55	54	46	45	87	68	58	30.04	29.92	30.04	10	10	6	18	9	25	0.01	Rain
24	64	57	51	54	50	43	88	69	50	30.12	30.04	30.12	10	10	10	14	6	20	0.00	Rain
25	70	58	46	47	43	39	83	60	39	30.16	30.12	30.16	10	10	10	15	2	18	0.00	
26	77	62	48	54	48	43	84	66	37	30.15	30.14	30.15	10	10	10	13	4	-	0.00	
27	79	66	52	57	52	50	89	68	42	30.10	30.08	30.10	10	9	7	15	2	-	0.00	
28	75	65	55	59	54	53	94	78	51	30.06	30.01	30.06	10	9	3	10	3	-	0.00	
29	75	65	55	61	54	52	90	80	59	29.98	29.95	29.98	10	8	4	15	2	-	0.00	
30	72	62	51	53	52	46	93	69	41	29.96	29.94	29.96	10	9	5	21	3	25	0.00	
May	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	66	62	55	59	53	48	90	72	59	29.90	29.87	29.90	10	9	3	17	12	25	0.00	Rain
2	70	62	55	54	51	47	93	67	47	29.97	29.89	29.97	10	10	9	14	6	18	0.07	Rain
3	75	64	53	57	50	47	90	71	39	30.01	29.98	30.01	10	9	2	14	5	-	0.48	Rain
4	72	64	57	57	55	52	100	83	49	30.01	30.00	30.01	10	8	0	23	5	29	4.08	Fog , Rain
5	64	60	55	58	56	55	97	89	77	29.96	29.86	29.96	10	8	1	9	3	-	3.17	Rain
6	64	59	54	57	54	50	97	86	77	30.09	29.99	30.09	10	10	7	16	0	21	0.00	Rain
7	62	58	54	54	51	50	89	81	72	30.08	30.07	30.08	10	10	7	14	2	18	0.00	
8	60	56	51	54	51	46	100	84	67	30.08	30.03	30.08	10	8	2	16	3	21	0.03	Rain
9	63	56	50	46	45	42	77	64	48	30.09	30.06	30.09	10	10	10	16	5	23	0.00	
10	66	58	48	49	45	45	83	68	52	30.12	30.08	30.12	10	10	10	15	1	17	0.00	
11	57	54	50	52	45	42	88	78	57	30.10	29.93	30.10	10	10	7	10	0	-	0.07	Rain
12	60	54	48	50	47	43	94	82	58	29.76	29.69	29.76	10	9	7	10	8	-	0.21	Rain

13	64	56	50	50	49	46	96	76	54	30.06	29.93	30.06	10	10	8	15	4	21	0.04	Rain
14	63	58	50	48	48	41	77	64	48	30.21	30.11	30.21	10	10	10	12	4	16	0.00	
15	66	57	46	51	44	40	83	69	45	30.20	30.19	30.20	10	10	10	18	1	23	0.00	
16	63	56	50	45	43	41	74	62	48	30.17	30.06	30.17	10	10	10	14	0	22	0.00	
17	68	56	45	46	43	39	83	65	42	30.24	30.18	30.24	10	10	10	15	3	18	0.00	
18	73	60	48	51	42	38	77	55	29	30.10	30.08	30.10	10	10	10	17	3	28	0.00	
19	66	57	48	46	45	43	80	62	47	30.11	30.07	30.11	10	10	10	14	5	18	0.00	
20	64	57	50	47	44	43	77	62	50	30.17	30.11	30.17	10	10	10	16	4	20	0.00	Rain
21	64	58	50	46	44	43	74	60	50	30.20	30.16	30.20	10	10	10	12	4	17	0.00	
22	70	58	48	53	47	43	80	67	48	30.12	30.10	30.12	10	10	10	20	5	16	0.00	
23	70	63	55	53	49	48	81	69	53	30.12	30.05	30.12	10	10	10	22	5	25	0.00	
24	70	61	54	55	50	48	83	72	57	30.14	30.11	30.14	10	10	10	17	0	-	0.00	
25	64	59	52	54	46	37	90	61	38	30.06	30.01	30.06	10	10	9	15	8	22	0.00	Rain
26	64	57	50	44	42	37	74	57	40	30.02	29.97	30.02	10	10	10	13	5	18	0.00	Rain
27	64	58	51	54	47	44	89	74	63	30.03	30.02	30.03	10	10	6	16	8	24	0.07	Rain
28	61	57	52	53	53	47	89	79	62	30.09	29.96	30.09	10	9	3	16	9	24	0.30	Rain
29	64	58	52	50	49	47	93	74	58	30.19	30.12	30.19	10	10	10	12	8	-	0.05	Rain
30	72	62	54	55	49	49	88	73	49	30.14	30.11	30.14	10	10	10	16	4	-	0.00	
31	70	62	53	58	52	49	83	73	63	30.10	30.05	30.10	10	10	10	17	3	-	0.00	
June	Temperature		Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events	
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	sum			
1	69	62	57	56	54	48	83	71	60	30.11	30.09	30.11	10	10	10	17	7	-	0.00	
2	68	62	55	52	50	49	82	66	52	30.06	30.05	30.06	10	10	10	15	1	-	0.00	
3	64	62	55	52	50	48	72	66	56	30.06	29.98	30.06	10	10	10	9	5	-	0.00	Rain
4	66	60	52	54	48	46	80	69	59	30.10	30.06	30.10	10	10	10	17	5	22	0.00	
5	68	60	55	55	49	49	81	72	63	30.08	30.07	30.08	10	10	10	18	1	-	0.00	
6	64	60	57	54	52	52	84	77	67	29.99	29.98	29.99	10	10	10	9	1	-	0.00	
7	66	62	57	56	54	52	90	75	59	30.03	29.96	30.03	10	10	6	16	3	22	0.00	Rain
8	71	64	57	58	53	52	88	75	59	30.02	30.02	30.02	10	10	10	15	1	20	0.00	
9	69	63	57	58	54	52	88	76	65	30.01	29.98	30.01	10	10	10	20	4	-	0.00	
10	66	62	57	55	53	50	81	76	66	29.99	29.98	29.99	10	10	10	16	6	-	0.00	Rain
11	66	60	55	52	49	48	82	67	52	29.96	29.87	29.96	10	10	9	14	10	18	0.00	
12	75	63	52	56	50	48	86	69	53	30.06	29.95	30.06	10	10	10	16	2	-	0.00	

13	73	66	59	58	52	51	83	70	57	30.19	30.13	30.19	10	10	10	16	4	-	0.00	
14	81	69	57	65	56	55	93	77	58	30.18	30.13	30.18	10	9	7	15	3	-	0.00	
15	88	75	61	64	59	57	84	67	40	30.01	29.93	30.01	10	10	10	18	3	-	0.00	
16	84	70	57	59	54	43	88	57	25	29.81	29.79	29.81	10	10	10	15	4	21	0.00	
17	78	68	59	61	52	41	81	57	34	30.01	29.90	30.01	10	10	10	20	4	-	0.00	
18	77	67	57	61	56	54	87	75	59	30.02	30.00	30.02	10	9	5	20	0	-	0.00	
19	73	64	55	57	53	52	89	74	53	29.99	29.98	29.99	10	10	8	18	6	-	0.00	
20	73	64	54	56	51	48	82	69	49	29.97	29.95	29.97	10	10	10	15	7	-	0.00	
21	72	64	54	57	49	48	81	68	49	30.02	29.96	30.02	10	10	10	20	5	-	0.00	
22	72	63	55	58	50	50	82	70	59	30.05	30.02	30.05	10	10	10	20	7	-	0.00	
23	70	62	55	55	51	50	84	70	59	30.04	30.01	30.04	10	10	10	18	7	-	0.00	
24	71	64	57	57	52	51	84	71	61	29.97	29.95	29.97	10	10	9	21	5	-	0.00	
25	68	62	55	56	55	49	78	69	55	30.06	29.96	30.06	10	10	10	21	7	-	0.00	
26	73	64	52	57	49	48	80	68	46	30.08	30.05	30.08	10	10	10	18	3	-	0.00	
27	80	68	55	61	53	51	93	71	43	29.99	29.98	29.99	10	10	10	20	2	-	0.00	
28	68	62	55	57	56	53	94	76	65	30.05	29.96	30.05	10	10	7	20	8	-	0.00	
29	69	62	55	56	52	50	84	72	60	30.09	30.05	30.09	10	10	9	20	6	-	0.00	
30	69	62	55	54	51	50	88	74	58	30.13	30.09	30.13	10	10	10	21	5	23	0.00	
July	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	70	61	52	55	51	50	93	72	59	30.09	30.09	30.09	10	10	10	22	4	-	0.00	
2	68	62	57	55	51	51	89	76	59	29.98	29.97	29.98	10	10	10	13	8	20	0.00	
3	72	64	57	59	54	53	88	74	63	29.93	29.91	29.93	10	10	10	20	4	-	0.00	
4	75	66	55	60	54	53	93	76	55	29.94	29.91	29.94	10	10	10	14	5	-	0.00	
5	73	64	57	59	55	54	94	78	64	30.01	29.91	30.01	10	9	7	16	5	-	0.00	
6	80	70	60	62	57	56	90	74	54	30.05	30.01	30.05	10	9	6	14	1	-	0.00	
7	84	71	59	63	58	56	93	74	45	30.06	30.03	30.06	10	10	10	15	2	-	0.00	
8	70	64	59	59	57	55	93	80	65	30.04	30.02	30.04	10	10	8	17	6	-	0.00	
9	69	62	57	57	56	53	90	79	68	30.00	29.96	30.00	10	10	8	18	5	22	0.00	
10	71	64	55	59	52	52	87	75	59	30.09	30.01	30.09	10	10	10	21	8	-	0.00	
11	73	65	57	59	55	54	88	76	59	30.11	30.09	30.11	10	10	10	16	3	-	0.00	
12	79	68	57	61	56	55	90	72	48	30.04	30.03	30.04	10	10	10	15	2	-	0.00	
13	72	64	59	59	56	55	90	78	65	30.01	29.98	30.01	10	10	10	16	6	-	0.00	

Rain

14	73	65	57	60	56	55	90	76	64	30.04	29.99	30.04	10	10	10	14	3	-	0.00
15	93	76	61	64	58	53	84	62	29	30.00	29.98	30.00	10	10	10	16	0	-	0.00
16	89	76	62	63	59	53	90	69	31	29.94	29.91	29.94	10	10	10	17	2	21	0.00
17	75	68	60	61	58	57	93	78	58	29.94	29.92	29.94	10	10	7	16	7	-	0.00
18	91	76	62	65	58	57	84	66	40	29.88	29.87	29.88	10	10	7	14	0	-	0.00
19	86	73	62	64	60	58	87	72	44	29.92	29.84	29.92	10	10	10	12	5	-	0.00
20	75	66	60	61	59	57	90	79	62	30.00	29.94	30.00	10	10	9	18	4	22	0.00
21	71	66	60	59	58	57	90	80	66	30.02	29.99	30.02	10	10	7	18	5	-	0.00
22	71	64	59	59	57	55	90	79	68	30.00	29.98	30.00	10	10	10	16	6	-	0.00
23	75	68	61	60	57	55	84	72	59	30.00	29.96	30.00	10	10	9	16	3	-	0.00
24	75	66	57	60	56	54	87	74	59	30.03	29.99	30.03	10	10	10	16	4	-	0.00
25	77	70	62	63	57	57	87	77	60	30.04	30.02	30.04	10	9	6	12	6	-	0.00
26	75	68	61	62	59	57	90	79	62	30.07	30.04	30.07	10	9	7	13	6	-	0.00
27	73	66	60	60	58	56	90	80	61	30.08	30.06	30.08	10	10	8	15	5	-	0.00
28	71	64	57	60	53	53	88	76	63	30.04	29.99	30.04	10	10	10	20	4	-	0.00
29	72	66	60	59	56	54	88	75	63	30.03	29.98	30.03	10	10	10	18	7	-	0.00



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Moffett NAS, California
on Wednesday, July 29, 1998

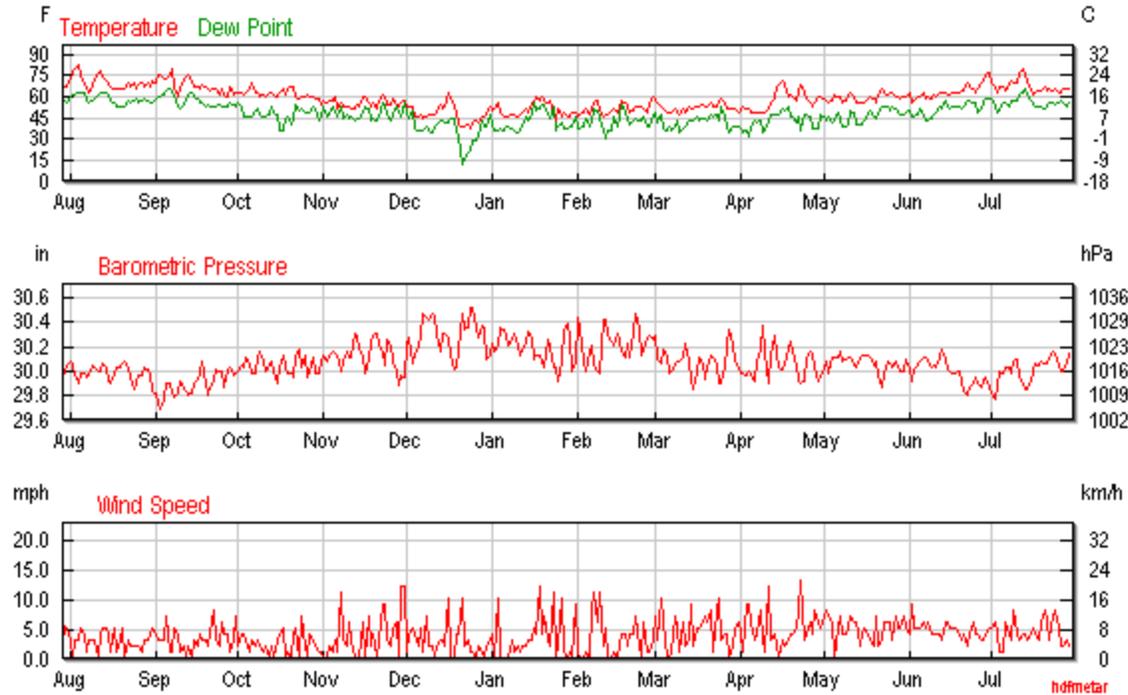
July 29, 1998

Custom Date Query - Choose two dates less than or equal to one year apart

From: To:

Summary

	Max	Avg	Min	
Temperature				
Max Temperature	95 °F / 35 °C	81 °F / 25 °C	44 °F / 6 °C	
Mean Temperature	81 °F / 27 °C	70 °F / 21 °C	36 °F / 2 °C	
Min Temperature	70 °F / 21 °C	62 °F / 16 °C	26 °F / -3 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	29	0	0	3103
Cooling Degree Days (base 65)	16	5	0	322
Growing Degree Days (base 50)	31	20	0	3013
Dew Point	Max	Avg	Min	
Dew Point	68 °F / 20 °C	59 °F / 14 °C	5 °F / -15 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	1.45 in / 3.7 cm	0.04 in / 0.0 cm	0.00 in / 0.0 cm	15.65 in / 39.76 cm
Snowdepth	-	-	-	-
Wind	Max	Avg	Min	
Wind	28 mph / 45 km/h	4 mph / 6 km/h	0 mph / 0 km/h	
Gust Wind	34 mph / 55 km/h	20 mph / 32 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.58 in / 1035 hPa	29.94 in / 1015 hPa	29.60 in / 1002 hPa	



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Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
July																				
29	72	66	60	59	56	54	88	75	63	30.03	29.98	30.03	10	10	10	18	7	-	0.00	
30	72	65	60	58	56	53	83	71	61	30.01	29.96	30.01	10	10	10	18	4	-	0.00	
31	75	66	60	62	54	53	87	73	59	30.09	30.03	30.09	10	9	7	17	5	-	0.00	
August																				
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	82	72	60	65	59	58	90	69	52	30.09	30.06	30.09	10	10	10	14	3	-	0.00	
2	90	76	63	64	60	57	87	65	39	30.06	30.04	30.06	10	10	10	14	0	18	0.00	
3	95	78	62	65	60	55	90	60	29	30.00	29.95	30.00	10	10	10	12	3	-	0.00	
4	93	81	68	68	62	59	78	57	35	29.94	29.89	29.94	10	10	10	15	3	-	0.00	
5	82	73	64	66	62	61	87	73	53	29.99	29.96	29.99	10	10	9	13	5	-	0.00	
6	75	68	62	62	61	57	90	76	62	29.99	29.96	29.99	10	10	8	15	4	-	0.00	

7	71	64	57	59	56	54	90	76	65	29.97	29.94	29.97	10	10	10	16	1	-	0.00	
8	68	62	57	58	54	54	94	80	68	30.02	29.95	30.02	10	9	7	17	3	-	0.00	
9	73	66	59	59	56	55	88	75	59	30.08	30.03	30.08	10	9	5	14	3	-	0.00	
10	88	72	57	64	57	52	90	65	33	30.02	30.01	30.02	10	10	10	13	3	-	0.00	
11	88	76	64	64	60	56	81	63	35	30.02	29.99	30.02	10	10	10	13	0	-	0.00	
12	91	77	64	66	62	58	84	65	34	30.04	29.98	30.04	10	10	10	13	4	-	0.00	
13	82	73	63	66	62	58	87	74	54	30.09	30.05	30.09	10	10	10	12	5	-	0.00	
14	79	70	62	63	61	59	94	80	58	30.03	30.02	30.03	10	10	10	16	5	-	0.00	
15	75	67	60	61	58	53	93	78	62	29.93	29.91	29.93	10	9	6	16	4	-	0.00	
16	77	66	55	60	56	52	89	68	50	29.92	29.89	29.92	10	10	10	18	1	-	0.00	
17	73	64	57	55	54	51	87	68	53	30.02	29.95	30.02	10	10	10	15	5	18	0.00	
18	71	64	55	54	52	51	84	68	53	30.05	30.02	30.05	10	10	10	14	1	-	0.00	
19	73	64	54	59	52	50	84	71	51	30.06	30.02	30.06	10	10	10	18	3	22	0.00	
20	70	64	57	57	52	51	81	72	61	30.10	30.05	30.10	10	10	10	21	5	-	0.00	
21	77	64	53	59	51	49	86	71	54	30.08	30.07	30.08	10	10	10	14	0	-	0.00	
22	80	68	55	61	56	53	87	72	48	30.04	30.02	30.04	10	10	10	21	3	-	0.00	
23	79	66	55	61	54	52	87	72	43	29.99	29.93	29.99	10	10	10	13	2	-	0.00	
24	80	69	57	61	56	54	90	72	45	29.86	29.84	29.86	10	10	9	12	2	-	0.00	
25	71	64	57	57	57	53	94	77	59	29.95	29.88	29.95	10	9	7	17	2	-	0.00	
26	75	67	57	60	54	53	83	71	53	29.96	29.95	29.96	10	9	5	12	2	-	0.00	
27	81	68	57	62	56	54	90	76	43	30.01	29.95	30.01	10	9	5	14	1	-	0.00	
28	77	66	57	61	57	55	94	78	56	30.06	30.01	30.06	10	9	7	14	3	-	0.00	
29	78	68	57	61	56	55	94	79	52	30.04	30.00	30.04	10	9	7	12	3	-	0.00	
30	75	65	57	60	55	53	90	77	57	29.96	29.95	29.96	10	10	5	10	4	-	0.00	
31	84	70	57	61	55	54	90	68	40	29.87	29.82	29.87	10	10	8	9	5	-	0.00	
September	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	78	68	59	62	57	55	90	75	56	29.83	29.80	29.83	10	10	10	10	4	-	0.00	
2	87	74	60	62	58	50	90	68	28	29.75	29.70	29.75	10	9	7	9	3	-	0.00	
3	86	74	61	62	58	57	93	71	37	29.73	29.68	29.73	10	9	8	10	3	-	0.00	
4	79	71	63	65	60	60	87	75	58	29.87	29.76	29.87	10	10	10	14	3	-	0.00	
5	82	72	64	66	63	62	94	83	58	29.92	29.88	29.92	10	9	6	16	7	-	0.00	
6	81	74	70	67	64	63	84	77	60	29.88	29.88	29.88	10	10	10	14	1	-	0.00	

7	87	78	69	62	61	59	76	57	41	29.83	29.81	29.83	10	10	10	17	1	-	0.00	
8	73	66	59	61	60	52	86	74	63	29.78	29.77	29.78	10	10	10	15	5	21	0.00	Rain
9	63	58	55	52	52	50	80	74	67	29.89	29.80	29.89	10	10	10	15	4	20	0.00	
10	79	66	53	58	50	49	86	68	45	29.94	29.90	29.94	10	10	9	16	1	-	0.00	
11	84	70	55	58	53	47	83	57	29	29.86	29.84	29.86	10	10	8	14	2	-	0.00	
12	84	73	60	61	56	54	75	60	36	29.86	29.82	29.86	10	10	9	13	0	-	0.00	
13	84	74	63	63	60	58	87	67	43	29.81	29.78	29.81	10	9	7	13	2	-	0.00	
14	75	68	63	62	61	59	90	79	64	29.86	29.81	29.86	10	9	7	14	0	-	0.00	
15	71	66	61	60	59	57	88	78	68	29.94	29.89	29.94	10	8	5	17	3	-	0.00	
16	72	66	59	58	57	53	87	76	63	29.95	29.92	29.95	10	10	8	15	2	-	0.00	
17	73	64	55	59	54	52	87	73	49	30.06	29.96	30.06	10	10	9	21	4	-	0.00	
18	77	67	55	57	55	49	88	68	37	30.12	30.07	30.12	10	10	10	15	3	-	0.00	
19	75	65	55	55	52	51	84	72	48	29.98	29.88	29.98	10	10	10	18	3	-	0.00	
20	72	64	55	56	53	51	84	71	51	29.85	29.79	29.85	10	10	9	17	2	-	0.00	
21	72	63	54	55	51	50	83	70	52	29.91	29.86	29.91	10	10	10	16	4	-	0.00	
22	73	64	57	53	52	49	82	66	47	30.00	29.91	30.00	10	10	9	13	8	-	0.00	
23	73	64	57	56	51	48	86	66	47	30.04	30.00	30.04	10	10	10	15	3	-	0.00	
24	68	60	55	55	53	50	88	76	61	30.00	29.98	30.00	10	10	9	18	2	-	0.00	
25	71	64	57	54	51	50	83	70	55	29.99	29.98	29.99	10	10	10	10	6	-	0.00	
26	64	60	55	55	51	48	88	72	58	29.92	29.86	29.92	10	10	6	13	4	-	0.00	Rain
27	63	58	52	55	52	49	89	78	65	30.04	29.98	30.04	10	10	10	8	4	-	0.00	Rain
28	73	66	55	58	55	50	83	73	46	30.03	30.02	30.03	10	9	7	16	1	-	0.00	
29	68	60	55	55	53	51	88	74	61	29.99	29.95	29.99	10	10	7	13	3	-	0.00	
30	69	62	57	55	52	51	87	77	66	30.01	29.96	30.01	10	10	10	16	7	-	0.00	
October	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	68	62	57	55	55	50	82	74	63	30.06	29.99	30.06	10	10	8	14	2	-	0.00	
2	69	62	53	54	52	45	84	67	43	30.05	30.04	30.05	10	10	10	14	4	-	0.00	
3	69	60	51	47	45	41	74	57	40	30.09	30.02	30.09	10	10	10	15	4	20	0.00	
4	75	62	48	51	44	42	83	59	32	30.13	30.09	30.13	10	10	10	12	3	-	0.00	
5	81	64	48	47	44	38	83	48	21	30.06	30.04	30.06	10	10	10	8	1	-	0.00	
6	81	68	54	52	44	42	72	50	30	30.02	29.97	30.02	10	10	10	13	3	-	0.00	
7	72	62	51	57	49	41	78	65	44	30.07	29.97	30.07	10	10	10	20	2	-	0.00	

8	71	62	54	57	50	46	88	71	51	30.16	30.09	30.16	10	10	10	15	3	-	0.00	
9	70	59	48	48	46	44	86	62	39	30.16	30.14	30.16	10	10	10	16	2	24	0.00	
10	72	60	46	51	45	42	86	63	38	30.10	30.06	30.10	10	10	10	14	1	-	0.00	
11	70	58	46	52	45	42	90	67	38	30.02	29.99	30.02	10	10	10	14	2	-	0.00	
12	72	62	52	55	46	45	83	69	46	30.05	30.04	30.05	10	10	10	10	0	-	0.00	
13	70	62	53	57	51	47	94	76	45	30.12	30.06	30.12	10	10	10	20	2	-	0.00	
14	70	60	48	52	47	46	88	72	42	30.03	29.98	30.03	10	10	10	15	0	20	0.00	
15	69	58	48	49	46	41	89	66	39	29.98	29.89	29.98	10	10	10	15	3	-	0.00	
16	73	62	51	42	35	26	71	40	17	30.07	30.02	30.07	10	10	10	20	4	24	0.00	
17	75	64	50	49	35	28	62	40	18	30.16	30.12	30.16	10	10	10	14	5	-	0.00	
18	73	60	46	51	43	36	80	62	26	30.07	30.02	30.07	10	10	10	10	0	-	0.00	
19	80	64	48	54	45	37	86	59	22	30.00	29.96	30.00	10	10	8	6	1	-	0.00	
20	82	66	48	49	39	33	68	44	20	30.00	29.96	30.00	10	10	9	7	0	-	0.00	
21	81	66	51	54	42	37	87	51	22	30.04	29.94	30.04	10	10	10	8	4	-	0.00	
22	63	58	53	54	53	50	94	81	67	30.19	30.12	30.19	10	7	3	10	5	-	0.00	
23	64	57	51	52	49	49	94	83	65	30.20	30.16	30.20	10	6	2	13	0	-	0.00	
24	64	59	50	56	50	48	94	82	67	30.12	30.01	30.12	10	9	3	13	7	-	0.64	Rain
25	68	58	48	51	47	45	93	73	45	30.14	30.12	30.14	10	10	10	12	2	-	0.01	
26	73	60	48	53	47	44	90	64	35	30.01	29.93	30.01	10	10	10	9	0	-	0.00	
27	64	58	51	52	48	48	89	76	63	30.10	29.97	30.10	10	9	6	12	4	-	0.00	
28	61	59	55	54	51	50	87	75	67	30.12	30.09	30.12	10	10	10	10	3	-	0.00	
29	64	57	50	51	50	42	93	73	50	29.99	29.97	29.99	10	10	10	9	2	16	0.00	
30	69	57	45	50	41	33	86	66	27	30.05	29.97	30.05	10	10	10	14	1	-	0.00	
31	64	53	42	52	44	39	89	68	39	30.13	30.07	30.13	10	10	10	14	1	-	0.00	Rain
November	Temperature		Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events	
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	62	56	50	54	51	45	100	79	53	30.16	30.11	30.16	10	9	3	13	0	-	0.03	Rain
2	64	55	46	50	44	43	89	73	50	30.11	30.06	30.11	10	10	10	15	0	-	0.00	
3	66	56	46	55	46	41	94	76	51	30.15	30.12	30.15	10	10	10	12	2	-	0.00	
4	60	56	53	53	51	50	94	85	75	30.18	30.15	30.18	10	9	3	15	1	-	0.00	
5	64	58	51	50	48	39	89	70	39	30.17	30.13	30.17	10	10	10	14	3	16	0.00	
6	57	50	43	54	44	37	94	75	62	30.12	30.11	30.12	10	10	5	9	1	-	0.04	Rain
7	60	54	46	54	51	43	94	86	72	30.09	29.99	30.09	10	9	3	18	11	21	0.12	Rain

8	57	52	46	48	43	43	97	84	60	30.09	30.07	30.09	10	9	5	7	3	-	0.10	Rain
9	59	52	46	47	46	39	100	79	49	30.21	30.14	30.21	10	9	6	8	2	-	0.00	
10	55	52	48	45	43	41	83	73	59	30.19	30.09	30.19	10	9	2	16	6	23	0.10	Rain
11	55	50	45	47	45	42	93	82	69	30.25	30.09	30.25	10	10	10	10	3	-	0.00	
12	62	50	39	44	41	38	97	76	52	30.33	30.29	30.33	10	10	10	9	0	-	0.00	
13	63	53	43	51	43	40	93	76	50	30.31	30.28	30.31	10	9	5	7	0	-	0.00	
14	60	51	42	49	43	40	96	83	60	30.18	30.16	30.18	10	7	3	13	0	-	0.00	
15	66	58	50	54	47	45	94	81	59	30.14	30.11	30.14	10	9	4	10	6	-	0.00	
16	63	58	53	54	52	47	100	84	65	30.06	29.97	30.06	10	8	6	9	0	-	0.00	
17	60	54	46	52	50	43	88	74	53	30.21	30.08	30.21	10	10	9	9	7	-	0.06	Rain
18	60	52	43	47	42	41	93	77	53	30.27	30.21	30.27	10	10	10	13	2	-	0.00	
19	64	54	44	49	43	39	93	74	40	30.33	30.28	30.33	10	10	10	10	4	-	0.00	
20	62	50	39	51	41	37	93	73	41	30.32	30.29	30.32	10	10	10	12	0	-	0.00	
21	66	56	46	54	45	44	96	80	51	30.24	30.19	30.24	10	9	2	12	3	21	0.23	Rain
22	64	60	55	54	54	50	96	84	65	30.19	30.13	30.19	10	9	7	12	9	-	0.03	Rain
23	63	59	54	56	52	46	90	77	62	30.17	30.03	30.17	10	10	8	17	9	28	0.07	Rain
24	60	53	46	48	46	44	93	76	60	30.30	30.25	30.30	10	10	7	8	3	-	0.00	
25	62	53	44	47	42	41	93	76	53	30.26	30.19	30.26	10	10	10	8	2	-	0.00	
26	69	57	45	55	46	41	94	78	51	30.12	30.06	30.12	10	10	3	10	5	-	0.00	Rain
27	55	53	50	52	51	48	96	89	80	30.02	29.98	30.02	10	8	2	8	6	-	0.97	Rain
28	55	52	48	49	48	37	100	80	51	30.01	29.87	30.01	10	10	7	10	0	-	0.07	Rain
29	59	54	48	54	44	41	93	80	71	29.99	29.95	29.99	10	10	5	21	12	28	0.02	Rain
30	59	56	52	56	54	48	94	89	81	30.13	29.93	30.13	10	8	2	17	12	30	1.03	Rain
December	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	57	51	45	48	46	40	97	80	51	30.28	30.19	30.28	10	10	10	14	1	-	0.01	
2	59	52	46	54	43	42	88	76	67	30.27	30.26	30.27	10	10	10	8	4	-	0.00	Rain
3	59	52	41	52	49	37	96	80	57	30.14	30.05	30.14	10	9	2	17	5	23	0.40	Rain
4	50	44	37	39	36	35	89	76	66	30.21	30.12	30.21	10	10	10	8	4	-	0.00	
5	52	44	37	46	35	32	93	74	49	30.33	30.20	30.33	10	9	2	15	2	25	0.47	Rain
6	52	46	37	37	35	26	89	68	37	30.39	30.28	30.39	10	10	9	12	5	-	0.00	
7	51	43	35	38	35	33	97	74	50	30.48	30.45	30.48	10	10	9	6	1	-	0.00	Rain
8	50	44	39	44	38	35	93	75	59	30.48	30.42	30.48	10	10	7	16	7	-	0.00	Rain

9	55	46	37	37	34	29	93	59	37	30.44	30.41	30.44	10	10	9	13	2	-	0.00	
10	57	46	35	41	33	31	86	68	47	30.50	30.46	30.50	10	9	6	10	2	-	0.00	
11	54	46	37	44	37	36	97	80	61	30.44	30.42	30.44	8	5	3	7	0	-	0.00	
12	59	48	37	44	39	36	93	77	49	30.38	30.29	30.38	8	5	4	6	2	-	0.00	
13	63	53	43	50	42	41	94	83	52	30.29	30.14	30.29	10	7	2	14	3	20	0.26	Rain
14	55	50	44	44	42	40	86	74	60	30.36	30.29	30.36	10	10	10	13	3	-	0.00	
15	64	52	41	41	40	37	93	59	40	30.33	30.29	30.33	10	10	10	12	2	-	0.00	
16	71	62	52	44	40	39	69	51	32	30.30	30.26	30.30	10	10	9	15	10	21	0.00	
17	69	57	45	50	43	41	90	72	44	30.19	30.11	30.19	10	9	6	6	0	-	0.00	
18	63	52	42	48	43	39	93	81	41	30.04	30.00	30.04	10	8	5	9	0	-	0.00	
19	51	47	42	41	33	25	93	60	39	30.12	30.02	30.12	10	10	5	10	4	-	0.00	
20	44	39	34	39	30	14	89	70	41	30.41	30.17	30.41	10	10	7	18	4	32	0.10	Rain
21	44	37	30	18	10	5	59	39	22	30.51	30.46	30.51	10	10	7	16	10	-	0.00	
22	46	37	28	20	15	8	69	46	23	30.36	30.32	30.36	10	10	10	8	2	-	0.00	
23	48	39	30	22	19	13	66	45	24	30.46	30.35	30.46	10	10	10	7	3	-	0.00	
24	46	36	26	30	21	18	78	61	42	30.58	30.51	30.58	10	7	4	6	1	-	0.00	
25	51	40	28	31	27	25	85	68	43	30.56	30.51	30.56	7	5	4	8	1	-	0.00	
26	52	42	33	31	28	28	85	66	45	30.43	30.34	30.43	9	6	2	8	0	-	0.00	
27	44	40	35	43	32	30	100	84	70	30.35	30.26	30.35	3	1	0	8	2	-	0.00	Fog
28	50	44	37	46	41	37	100	97	86	30.39	30.36	30.39	6	2	0	9	1	-	0.00	Fog
29	52	44	35	44	37	36	100	95	71	30.33	30.33	30.33	10	2	0	7	0	-	0.00	Fog
30	55	46	37	47	38	36	97	82	57	30.14	30.08	30.14	10	7	4	8	2	-	0.00	
31	57	52	46	48	46	42	97	82	62	30.19	30.11	30.19	10	9	5	15	3	-	0.00	
January	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	61	49	37	41	38	31	93	62	32	30.25	30.21	30.25	10	10	7	9	4	-	0.00	
2	64	50	37	38	34	26	83	57	24	30.22	30.15	30.22	10	9	7	12	0	-	0.00	
3	63	54	45	40	34	33	71	52	38	30.31	30.19	30.31	10	10	7	13	10	-	0.00	
4	55	47	39	41	36	34	82	70	49	30.39	30.34	30.39	10	8	6	6	0	-	0.00	
5	55	45	35	44	35	33	100	81	51	30.35	30.33	30.35	10	6	0	7	0	-	0.00	Fog
6	50	44	37	39	38	35	97	85	61	30.27	30.27	30.27	7	5	2	7	0	-	0.00	
7	52	44	35	43	38	33	96	84	71	30.24	30.20	30.24	10	6	0	9	0	-	0.00	Fog
8	60	46	33	41	36	28	100	68	31	30.30	30.24	30.30	10	7	0	9	3	-	0.00	Fog

9	55	46	37	38	34	33	89	68	44	30.35	30.30	30.35	10	8	6	8	1	-	0.00	
10	53	44	34	41	33	32	93	75	47	30.24	30.20	30.24	8	6	4	7	2	-	0.00	
11	55	46	36	43	35	34	96	80	47	30.16	30.12	30.16	8	5	2	10	1	-	0.00	
12	55	48	41	46	38	37	93	81	57	30.21	30.15	30.21	10	7	4	10	2	-	0.00	
13	54	50	43	46	44	41	93	80	64	30.32	30.21	30.32	10	8	6	10	2	-	0.00	
14	55	48	41	45	41	40	100	87	57	30.38	30.31	30.38	6	3	0	8	3	-	0.00	Fog
15	61	54	46	54	46	46	100	86	64	30.29	30.24	30.29	10	4	2	9	3	-	0.02	Rain
16	57	55	53	54	54	49	100	92	81	30.16	30.08	30.16	10	8	4	10	5	-	0.13	Rain
17	64	58	53	52	49	46	86	76	65	30.15	30.12	30.15	10	10	10	15	4	28	0.00	
18	59	56	53	55	50	50	100	87	77	30.18	30.11	30.18	10	6	2	18	12	17	0.09	Rain
19	63	58	54	55	53	50	97	85	69	30.14	30.06	30.14	10	9	3	13	4	18	0.61	Rain
20	59	56	52	54	53	47	94	82	67	30.15	30.01	30.15	10	9	4	10	7	22	0.24	Rain
21	57	54	50	47	46	44	86	75	64	30.33	30.25	30.33	10	10	10	9	3	-	0.04	
22	63	56	48	50	43	37	86	70	38	30.30	30.18	30.30	10	10	10	13	2	18	0.03	
23	55	48	39	52	51	36	96	91	73	30.12	30.02	30.12	10	8	2	14	11	-	0.68	Rain
24	51	42	34	36	34	31	92	71	48	30.15	30.01	30.15	10	10	10	8	0	-	0.00	Rain
25	55	50	44	41	38	32	85	67	43	29.95	29.90	29.95	10	10	10	10	2	-	0.06	Rain
26	48	44	39	43	40	39	97	85	76	30.25	30.07	30.25	10	9	6	16	10	24	0.27	Rain
27	57	47	37	40	36	29	97	67	34	30.39	30.33	30.39	10	10	6	10	1	-	0.00	
28	55	44	34	43	36	32	93	78	57	30.41	30.37	30.41	10	10	10	12	0	-	0.00	
29	55	45	35	42	37	34	97	80	55	30.32	30.24	30.32	10	9	6	7	1	-	0.00	
30	59	48	36	44	37	35	100	79	42	30.11	29.98	30.11	10	6	0	16	0	28	0.10	Fog , Rain
31	53	48	42	45	45	37	93	77	61	30.35	30.05	30.35	10	10	5	16	9	24	0.32	Rain
February	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	55	45	35	40	36	34	96	74	53	30.47	30.42	30.47	10	10	10	12	1	-	0.00	
2	57	46	36	43	36	33	89	76	45	30.42	30.34	30.42	10	10	10	10	0	-	0.00	
3	57	48	39	46	38	36	93	80	57	30.21	30.07	30.21	10	10	10	13	0	-	0.00	
4	55	50	44	45	43	37	90	76	51	30.01	29.98	30.01	10	10	10	15	1	-	0.00	
5	55	46	37	42	37	35	89	73	57	30.26	30.15	30.26	10	10	10	14	0	-	0.00	
6	53	50	46	49	40	38	93	78	66	30.24	30.19	30.24	10	10	8	20	8	26	0.23	Rain
7	57	54	51	56	50	48	97	86	72	30.11	30.03	30.11	10	8	1	13	11	20	0.54	Rain
8	59	56	53	56	49	48	96	85	78	30.11	29.98	30.11	10	9	3	15	6	22	0.08	Rain

9	57	49	41	53	43	31	89	79	54	30.32	29.97	30.32	10	9	2	17	11	30	1.45	Rain
10	52	44	35	37	34	28	100	72	40	30.48	30.40	30.48	10	10	10	13	2	-	0.00	
11	57	46	35	37	29	27	79	61	31	30.47	30.41	30.47	10	10	10	10	5	-	0.00	
12	55	46	37	40	35	33	86	69	45	30.32	30.28	30.32	10	10	8	8	0	-	0.00	
13	59	49	39	45	35	23	90	75	29	30.25	30.23	30.25	10	9	7	8	0	-	0.09	Rain
14	53	50	41	47	45	37	96	83	57	30.28	30.20	30.28	10	8	3	15	1	-	0.00	
15	55	47	39	44	37	37	93	78	53	30.31	30.29	30.31	10	10	10	10	0	-	0.00	
16	57	52	48	54	44	43	94	82	69	30.26	30.23	30.26	10	10	8	17	2	-	0.14	Rain
17	63	56	48	55	53	45	100	90	69	30.25	30.14	30.25	10	7	2	10	4	-	0.25	Rain
18	60	54	46	52	47	44	94	85	67	30.24	30.10	30.24	10	8	1	17	4	25	0.64	Rain
19	60	52	43	43	41	31	90	68	41	30.25	30.21	30.25	10	10	10	12	2	-	0.01	
20	55	47	39	48	39	33	94	76	47	30.17	30.09	30.17	10	9	5	15	4	22	0.30	Rain
21	55	49	43	44	42	35	93	72	50	30.43	30.31	30.43	10	10	8	10	4	-	0.06	Rain
22	59	52	46	46	43	37	93	72	44	30.51	30.45	30.51	10	10	8	12	7	-	0.02	Rain
23	61	52	43	47	41	40	89	76	54	30.43	30.32	30.43	10	10	10	10	2	-	0.00	
24	60	52	44	48	42	41	93	74	51	30.20	30.11	30.20	10	10	9	16	0	22	0.07	Rain
25	55	50	44	48	45	36	100	75	51	30.28	30.16	30.28	10	9	2	13	6	17	0.31	Rain
26	55	47	39	41	38	34	93	72	45	30.29	30.26	30.29	10	10	10	13	1	-	0.00	
27	63	53	43	44	38	37	82	62	38	30.30	30.27	30.30	10	10	10	12	1	-	0.00	
28	66	58	51	54	46	44	93	72	52	30.27	30.25	30.27	10	10	8	12	3	-	0.01	
March	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	61	56	48	53	47	33	93	71	35	30.34	30.28	30.34	10	10	10	16	7	23	0.00	
2	66	54	43	49	40	30	86	64	34	30.19	30.08	30.19	10	10	2	13	3	-	0.00	Rain
3	57	52	46	52	46	34	94	74	44	30.13	30.05	30.13	10	9	3	15	10	21	0.10	Rain
4	55	50	43	36	36	31	74	59	40	30.21	30.16	30.21	10	10	10	17	6	21	0.00	
5	57	47	37	43	34	28	86	66	32	30.16	30.10	30.16	10	10	10	12	0	-	0.00	
6	54	48	41	38	38	33	82	63	47	29.99	29.96	29.99	10	10	10	9	0	-	0.00	
7	59	48	37	40	34	32	87	67	37	30.10	29.98	30.10	10	10	10	15	1	-	0.00	
8	54	50	46	46	38	37	90	74	57	30.09	30.03	30.09	10	10	7	18	7	26	0.07	Rain
9	53	48	41	43	41	32	89	70	49	30.18	30.06	30.18	10	10	4	14	5	-	0.29	Rain
10	54	46	37	37	33	28	86	66	43	30.18	30.07	30.18	10	10	9	10	1	-	0.00	
11	59	50	42	39	36	33	85	62	42	30.21	30.09	30.21	10	10	10	14	6	-	0.07	Rain

12	57	48	39	46	38	34	86	72	59	30.25	30.21	30.25	10	10	10	14	2	-	0.00	
13	59	52	44	47	42	40	93	76	53	30.13	30.06	30.13	10	8	4	15	3	-	0.00	
14	55	50	44	45	42	40	93	80	57	29.95	29.92	29.95	10	9	4	14	9	21	0.78	Rain
15	57	50	43	46	42	42	97	86	67	29.94	29.83	29.94	10	9	6	15	2	-	0.16	Rain
16	57	52	48	48	44	42	80	74	64	30.10	29.99	30.10	10	10	9	13	5	-	0.00	
17	55	52	48	45	42	39	86	73	60	30.11	30.09	30.11	10	10	10	13	5	-	0.00	
18	61	53	45	45	43	41	90	70	50	30.08	30.05	30.08	10	10	10	16	6	21	0.00	
19	55	52	48	45	43	40	83	70	57	30.01	29.92	30.01	10	10	10	14	7	22	0.01	Rain
20	57	51	45	45	42	40	83	69	55	30.09	30.02	30.09	10	10	9	14	6	21	0.01	Rain
21	60	55	50	48	46	41	89	71	49	30.18	30.12	30.18	10	10	10	12	8	-	0.01	
22	60	52	45	47	45	37	90	73	42	30.17	30.10	30.17	10	10	10	12	1	-	0.08	Rain
23	57	52	46	47	46	39	93	77	60	30.10	30.03	30.10	10	9	3	12	8	-	0.23	Rain
24	59	54	48	51	42	39	86	74	58	30.03	29.89	30.03	10	10	7	16	10	23	0.11	Rain
25	63	57	51	54	51	46	100	85	65	30.03	29.89	30.03	10	9	4	15	3	-	0.14	Rain
26	62	54	46	48	45	37	93	71	50	30.14	30.02	30.14	10	10	10	17	4	22	0.00	
27	57	50	44	38	38	34	76	60	42	30.30	30.20	30.30	10	10	10	16	4	-	0.00	
28	60	50	39	38	33	28	76	57	30	30.36	30.32	30.36	10	10	10	15	0	-	0.00	
29	60	50	41	44	37	32	81	67	49	30.30	30.19	30.30	10	10	10	20	2	-	0.00	
30	57	50	44	45	37	31	89	62	39	30.14	30.07	30.14	10	10	7	15	5	21	0.06	Rain
31	53	48	43	41	38	34	83	64	48	30.06	30.01	30.06	10	10	10	16	6	-	0.00	
April	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	59	49	39	39	36	30	83	59	35	29.99	29.97	29.99	10	10	10	13	4	22	0.00	
2	64	52	39	42	33	26	79	49	24	30.04	29.96	30.04	10	10	9	13	1	-	0.00	Rain
3	55	50	46	40	35	29	68	54	37	30.03	29.95	30.03	10	10	10	23	9	34	0.00	
4	57	50	42	37	30	25	68	52	30	30.08	29.99	30.08	10	10	10	12	9	22	0.00	
5	52	48	44	45	38	36	89	75	63	30.08	29.95	30.08	10	9	4	15	6	20	0.36	Rain
6	55	48	42	44	42	38	93	81	57	29.99	29.91	29.99	10	9	5	14	3	-	0.49	Rain
7	54	48	43	45	40	38	87	74	61	30.21	30.07	30.21	10	10	8	12	4	20	0.00	Rain
8	52	47	42	45	41	33	93	73	54	30.26	30.16	30.26	10	9	2	21	8	29	0.36	Rain
9	55	47	37	37	33	26	79	59	33	30.43	30.36	30.43	10	10	10	17	3	20	0.00	
10	59	48	39	41	34	32	79	63	39	30.35	30.13	30.35	10	10	10	13	1	20	0.01	Rain
11	57	50	46	48	42	39	93	77	64	30.07	29.89	30.07	10	9	7	16	12	23	0.35	Rain

12	64	54	45	51	46	43	93	78	56	30.23	30.11	30.23	10	10	10	15	3	-	0.00	
13	66	57	48	53	46	46	93	79	60	30.32	30.27	30.32	10	9	7	13	4	-	0.04	
14	81	66	46	52	46	38	89	56	23	30.22	30.13	30.22	10	10	6	8	2	-	0.00	
15	82	67	51	56	46	44	77	54	33	30.05	30.02	30.05	10	10	10	9	0	-	0.00	
16	82	70	57	57	50	46	74	56	41	30.05	30.00	30.05	10	10	7	18	3	-	0.00	
17	79	67	55	56	49	40	81	58	28	30.15	30.05	30.15	10	10	9	15	2	-	0.00	
18	66	59	52	54	51	48	86	75	57	30.23	30.16	30.23	10	10	9	20	3	-	0.00	
19	71	60	50	52	44	34	89	66	31	30.27	30.23	30.27	10	10	10	16	4	22	0.00	
20	66	58	50	49	44	34	83	60	45	30.19	30.14	30.19	10	10	10	18	4	20	0.00	
21	64	56	48	47	40	36	83	64	38	30.06	30.03	30.06	10	10	10	20	5	30	0.00	
22	75	62	46	46	45	34	93	57	22	29.91	29.91	29.91	10	10	10	28	8	32	0.00	
23	78	67	57	45	35	33	52	36	24	29.93	29.89	29.93	10	10	10	18	13	23	0.00	
24	72	61	50	53	46	42	77	62	45	30.02	29.91	30.02	10	10	10	17	3	-	0.00	
25	64	57	48	50	46	45	83	71	60	30.14	30.09	30.14	10	10	9	17	4	-	0.00	Rain
26	63	54	46	49	44	35	86	68	45	30.16	30.15	30.16	10	10	10	22	6	23	0.00	
27	61	52	44	38	36	32	71	54	36	30.16	30.13	30.16	10	10	10	16	4	24	0.00	
28	62	54	45	38	36	31	68	51	32	30.09	30.02	30.09	10	10	10	17	8	24	0.00	
29	70	59	48	47	36	32	80	47	30	29.92	29.90	29.92	10	10	8	16	6	17	0.00	
30	70	58	48	51	46	44	86	68	47	30.01	29.93	30.01	10	9	5	16	5	-	0.00	
May	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	64	57	50	50	45	41	80	67	54	30.10	30.02	30.10	10	10	9	18	7	21	0.00	
2	62	56	50	49	41	39	87	68	56	30.09	30.07	30.09	10	10	7	17	8	16	0.04	Rain
3	61	55	48	48	45	40	77	67	51	30.07	29.97	30.07	10	10	7	15	7	21	0.00	Rain
4	64	56	46	42	40	37	77	61	43	30.16	30.10	30.16	10	10	10	16	6	22	0.00	
5	75	60	45	49	42	40	79	62	36	30.14	30.10	30.14	10	10	9	14	0	-	0.00	
6	68	58	50	50	47	46	89	70	49	30.16	30.09	30.16	10	10	10	18	5	17	0.00	
7	68	58	46	47	42	32	80	53	30	30.18	30.15	30.18	10	10	10	22	7	21	0.00	
8	66	55	45	43	38	36	73	54	37	30.09	30.06	30.09	10	10	9	20	4	24	0.00	
9	66	56	45	42	38	35	73	53	34	30.12	30.08	30.12	10	10	10	17	4	20	0.00	Rain
10	69	58	46	50	39	36	83	61	30	30.13	30.10	30.13	10	10	9	21	5	25	0.00	
11	75	62	52	57	49	48	90	78	57	30.10	30.09	30.10	10	10	10	20	7	-	0.00	
12	66	59	51	52	47	35	93	68	33	30.04	30.04	30.04	10	10	9	17	6	25	0.00	

13	64	55	44	41	39	36	74	56	38	30.07	30.02	30.07	10	10	10	21	6	24	0.00	Rain
14	62	54	45	39	39	35	76	56	42	30.13	30.08	30.13	10	10	10	16	2	25	0.00	
15	66	54	43	44	39	34	80	58	32	30.15	30.12	30.15	10	10	10	18	4	-	0.00	
16	66	55	45	49	41	31	77	60	35	30.15	30.12	30.15	10	10	10	21	5	-	0.00	
17	66	57	48	53	46	42	83	71	60	30.15	30.12	30.15	10	10	10	23	4	23	0.00	
18	64	58	51	54	49	44	83	70	52	30.10	30.09	30.10	10	10	10	21	3	22	0.00	
19	64	57	50	48	44	43	80	68	53	30.10	30.04	30.10	10	10	10	17	2	23	0.00	
20	60	55	50	45	43	39	80	64	53	30.09	30.07	30.09	10	10	10	15	7	21	0.00	
21	73	60	46	53	46	42	83	67	46	30.00	29.95	30.00	10	10	10	14	2	-	0.00	
22	73	64	54	55	51	49	83	66	49	29.96	29.85	29.96	10	10	9	17	3	-	0.00	
23	72	62	54	54	52	50	86	71	55	30.08	29.97	30.08	10	10	10	14	6	-	0.00	
24	66	60	55	54	51	50	88	75	63	30.09	30.07	30.09	10	10	9	17	6	-	0.00	
25	72	62	52	56	49	48	87	76	57	30.06	30.05	30.06	10	10	10	13	6	-	0.00	
26	69	61	53	54	52	49	89	77	58	30.06	30.01	30.06	10	9	5	16	3	-	0.00	
27	63	58	53	52	50	48	86	78	67	30.10	30.07	30.10	10	10	9	16	7	-	0.00	
28	64	58	52	50	48	45	86	73	58	30.04	30.02	30.04	10	9	5	21	5	-	0.00	
29	63	57	51	48	46	44	80	68	54	30.01	29.99	30.01	10	10	10	15	5	18	0.00	
30	68	59	48	51	46	45	83	68	50	30.05	29.98	30.05	10	10	10	17	7	-	0.00	
31	66	59	51	51	48	46	83	68	54	30.12	30.08	30.12	10	10	10	21	5	-	0.00	
June	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	71	62	54	51	49	45	80	64	47	30.06	30.00	30.06	10	10	10	15	4	-	0.00	
2	60	54	51	48	45	38	77	64	47	30.00	29.90	30.00	10	10	10	15	9	20	0.00	Rain
3	64	56	48	46	44	40	90	70	43	30.08	30.00	30.08	10	9	2	14	5	-	0.30	Rain
4	66	58	50	51	46	45	83	69	56	30.09	30.04	30.09	10	10	10	17	5	-	0.00	
5	70	58	53	52	50	48	83	77	60	30.12	30.07	30.12	10	10	9	10	5	-	0.00	
6	73	62	51	51	44	34	86	56	25	30.12	30.09	30.12	10	10	10	17	6	23	0.00	
7	66	57	48	43	42	37	77	56	37	30.12	30.09	30.12	10	10	10	14	5	16	0.00	
8	69	58	46	48	42	36	74	57	31	30.08	30.07	30.08	10	10	10	21	6	-	0.00	
9	68	57	46	50	43	39	74	59	43	30.05	30.02	30.05	10	10	10	22	4	-	0.00	
10	71	60	48	54	46	43	83	66	41	30.06	30.04	30.06	10	10	10	21	4	-	0.00	
11	66	58	52	54	47	47	89	76	63	30.10	30.02	30.10	10	10	10	20	4	-	0.00	
12	70	62	54	55	52	50	90	76	54	30.18	30.09	30.18	10	10	10	22	4	26	0.00	

13	71	62	54	60	50	50	87	74	63	30.18	30.17	30.18	10	10	10	20	3	24	0.00	
14	68	62	57	57	56	52	90	79	63	30.10	30.08	30.10	10	10	7	18	6	-	0.00	
15	66	60	54	54	51	49	84	73	60	30.01	30.00	30.01	10	10	10	18	6	-	0.00	
16	68	60	53	55	50	49	88	74	61	30.00	29.99	30.00	10	10	10	18	5	-	0.00	
17	71	62	55	57	52	51	89	78	59	29.99	29.96	29.99	10	10	9	20	5	23	0.00	
18	71	62	55	55	51	50	89	76	53	30.02	29.97	30.02	10	10	7	16	5	23	0.00	
19	69	61	54	54	51	50	90	73	56	30.00	29.99	30.00	10	10	10	17	4	-	0.00	
20	73	63	53	56	50	49	86	71	55	29.89	29.88	29.89	10	10	10	15	3	-	0.00	
21	70	63	57	56	52	51	81	70	59	29.83	29.82	29.83	10	10	10	17	4	-	0.00	
22	78	68	60	59	56	54	83	69	53	29.87	29.78	29.87	10	10	10	15	2	-	0.00	
23	75	66	57	60	56	55	93	78	59	29.91	29.86	29.91	10	9	7	15	4	-	0.00	
24	72	64	57	57	55	52	89	74	57	29.96	29.89	29.96	10	9	6	21	6	20	0.00	
25	70	62	55	54	54	41	88	71	42	29.96	29.94	29.96	10	10	10	18	4	-	0.00	
26	73	64	53	55	48	46	80	65	44	29.89	29.88	29.89	10	10	10	18	4	-	0.00	
27	81	68	54	56	50	48	80	61	39	29.89	29.86	29.89	10	10	10	15	3	20	0.00	
28	86	70	57	59	54	52	81	58	37	29.95	29.90	29.95	10	10	9	17	3	-	0.00	
29	87	74	62	62	57	53	81	63	32	29.95	29.94	29.95	10	10	10	15	4	-	0.00	
30	90	75	61	65	57	54	84	67	40	29.88	29.85	29.88	10	10	10	15	5	-	0.03	
July	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	78	68	59	62	57	53	87	72	57	29.83	29.80	29.83	10	10	9	17	5	-	0.00	
2	75	65	55	56	52	43	89	60	39	29.82	29.76	29.82	10	10	10	21	6	24	0.00	
3	71	62	55	50	48	45	77	61	46	29.94	29.85	29.94	10	10	10	17	4	32	0.00	
4	77	65	52	58	49	45	80	66	42	30.02	29.98	30.02	10	10	5	18	1	-	0.00	
5	78	66	55	62	55	49	93	70	45	30.00	29.97	30.00	10	10	6	17	1	24	0.00	
6	71	63	55	57	54	49	94	75	57	30.04	30.01	30.04	10	10	10	18	6	-	0.00	
7	81	67	53	61	52	50	93	70	42	30.06	30.01	30.06	10	10	10	16	4	-	0.00	
8	82	70	57	63	56	54	90	72	44	30.07	29.96	30.07	10	10	10	16	3	-	0.00	
9	80	68	57	61	56	55	96	80	52	30.11	30.06	30.11	10	10	9	14	8	-	0.00	
10	80	68	57	63	56	54	93	75	48	30.12	30.08	30.12	10	10	7	10	4	-	0.00	
11	89	75	61	67	60	57	87	66	37	30.00	29.93	30.00	10	9	8	13	3	-	0.00	
12	90	79	69	67	62	60	84	61	43	29.88	29.87	29.88	10	10	10	13	4	-	0.00	
13	86	74	64	67	64	61	93	76	51	29.88	29.84	29.88	10	10	9	16	4	-	0.00	

14	75	68	60	63	60	57	100	81	64	29.88	29.83	29.88	10	10	10	16	3	-	0.00
15	71	64	57	60	56	54	93	79	68	29.98	29.90	29.98	10	10	9	17	4	-	0.00
16	66	60	54	57	53	51	97	79	70	30.05	29.99	30.05	10	10	10	18	5	-	0.00
17	69	62	54	58	51	51	88	77	65	30.06	30.05	30.06	10	10	10	20	4	-	0.00
18	72	63	55	58	52	51	88	75	63	30.06	30.03	30.06	10	10	9	18	3	24	0.00
19	70	63	57	56	52	50	87	71	61	30.09	30.06	30.09	10	10	10	20	6	-	0.00
20	73	66	59	56	50	50	78	66	56	30.09	30.05	30.09	10	10	10	20	8	25	0.00
21	70	63	57	57	52	51	90	74	61	30.10	30.05	30.10	10	10	10	16	6	-	0.00
22	70	64	57	58	54	54	94	79	65	30.14	30.09	30.14	10	10	10	18	3	20	0.00
23	69	63	57	55	55	52	90	76	58	30.19	30.15	30.19	10	10	10	20	7	23	0.00
24	70	64	57	59	53	52	93	75	65	30.17	30.13	30.17	10	10	10	16	8	-	0.00
25	70	62	55	59	55	53	94	80	68	30.04	30.03	30.04	10	10	10	17	5	-	0.00
26	69	62	57	59	56	54	93	81	70	30.02	29.99	30.02	10	10	8	17	2	-	0.00
27	68	64	57	57	55	53	88	79	68	30.04	29.98	30.04	10	10	7	17	2	22	0.00
28	69	64	57	57	52	50	84	72	63	30.12	30.05	30.12	10	10	10	17	3	-	0.00
29	71	64	57	56	54	51	84	72	58	30.16	30.13	30.16	10	10	10	14	2	-	0.00



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Moffett NAS, California
on Thursday, July 29, 1999

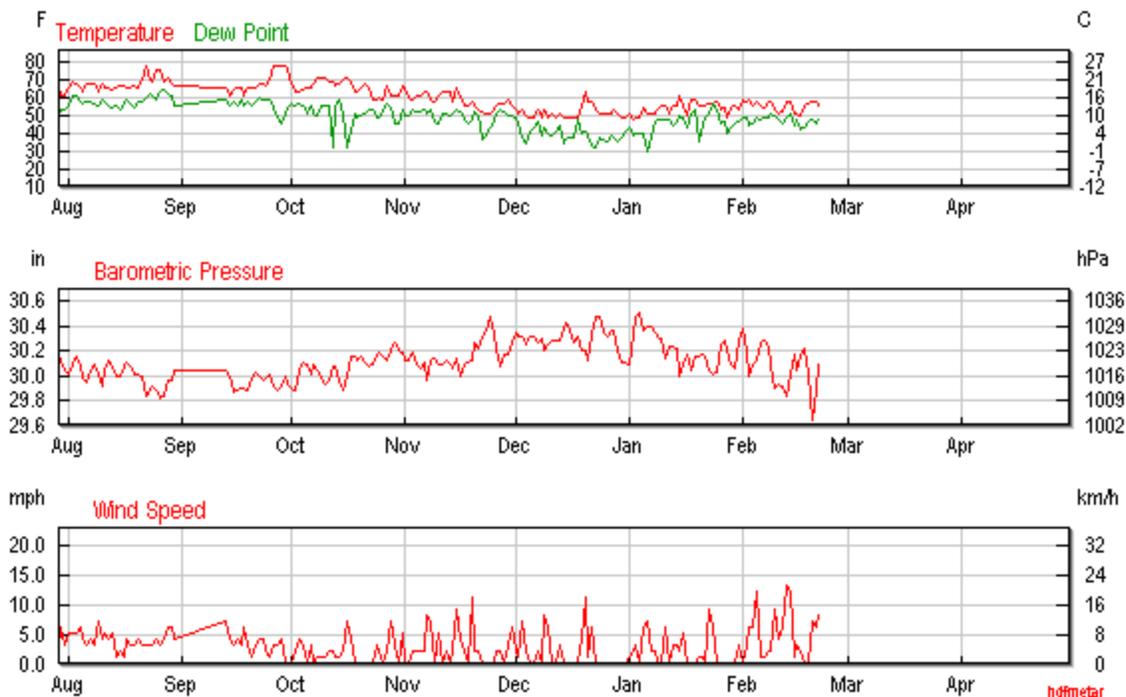
July 29, 1999

Custom Date Query - Choose two dates less than or equal to one year apart

From: To:

Summary

Temperature	Max	Avg	Min	
Max Temperature	106 °F / 41 °C	72 °F / 20 °C	52 °F / 11 °C	
Mean Temperature	88 °F / 31 °C	64 °F / 17 °C	46 °F / 7 °C	
Min Temperature	69 °F / 20 °C	56 °F / 13 °C	36 °F / 2 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	19	2	0	1580
Cooling Degree Days (base 65)	23	1	0	298
Growing Degree Days (base 50)	38	14	0	2889
Dew Point	Max	Avg	Min	
Dew Point	67 °F / 19 °C	55 °F / 12 °C	21 °F / -6 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	1.64 in / 4.2 cm	0.03 in / 0.0 cm	0.00 in / 0.0 cm	9.13 in / 23.24 cm
Snowdepth	-	-	-	-
Wind	Max	Avg	Min	
Wind	24 mph / 39 km/h	4 mph / 7 km/h	0 mph / 0 km/h	
Gust Wind	33 mph / 53 km/h	20 mph / 33 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.54 in / 1034 hPa	29.99 in / 1017 hPa	29.51 in / 999 hPa	



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Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
July																				
29	71	64	57	56	54	51	84	72	58	30.16	30.13	30.16	10	10	10	14	2	-	0.00	
30	68	60	55	56	51	51	84	74	63	30.13	30.10	30.13	10	10	10	18	6	22	0.00	
31	66	60	54	57	52	50	88	79	68	30.06	30.03	30.06	10	10	10	18	3	-	0.00	
August																				
	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	73	64	55	61	54	53	94	80	63	30.07	30.00	30.07	10	10	10	20	5	22	0.00	
2	75	68	61	62	60	59	94	81	64	30.14	30.07	30.14	10	10	10	21	5	23	0.00	
3	71	66	59	61	60	57	94	84	70	30.15	30.13	30.15	10	10	10	17	5	21	0.00	
4	71	64	57	60	56	55	93	80	68	30.07	30.06	30.07	10	10	10	21	6	-	0.00	
5	64	62	60	57	55	55	87	82	78	29.97	29.96	29.97	10	10	10	12	4	-	0.00	Rain
6	72	66	60	58	56	55	87	73	59	30.03	29.93	30.03	10	10	10	14	3	-	0.00	

7	71	66	59	59	56	53	87	74	61	30.09	30.03	30.09	10	10	10	21	4	-	0.00
8	72	66	59	59	55	54	88	72	59	30.09	30.07	30.09	10	10	10	18	3	-	0.00
9	68	62	59	58	54	53	88	77	70	30.03	29.99	30.03	10	10	10	13	7	-	0.00
10	73	66	61	57	57	54	84	72	57	30.01	29.89	30.01	10	10	10	15	4	20	0.00
11	69	64	57	60	56	55	94	80	68	30.11	30.02	30.11	10	10	9	14	5	-	0.00
12	71	64	57	59	54	51	89	73	59	30.14	30.11	30.14	10	10	10	21	4	-	0.00
13	72	63	54	59	53	50	86	73	61	30.11	30.05	30.11	10	10	10	18	5	-	0.00
14	73	64	53	56	54	51	90	67	48	29.99	29.97	29.99	10	10	10	15	1	21	0.00
15	79	65	53	60	52	48	86	72	50	30.03	29.98	30.03	10	10	10	15	2	-	0.00
16	73	65	57	61	55	54	90	78	64	30.11	30.05	30.11	10	10	8	15	1	-	0.00
17	70	64	57	59	57	55	90	81	68	30.12	30.09	30.12	10	9	6	15	4	-	0.00
18	70	64	57	58	55	52	94	75	60	30.10	30.05	30.10	10	10	10	15	3	17	0.00
19	75	65	54	61	53	52	88	75	57	30.01	30.00	30.01	10	9	8	18	3	-	0.00
20	73	64	57	60	56	55	94	80	68	30.06	30.00	30.06	10	10	10	17	4	-	0.00
21	81	69	57	64	56	54	94	76	47	30.03	29.97	30.03	10	10	10	16	3	-	0.00
22	91	76	61	67	59	57	87	68	35	29.85	29.81	29.85	10	10	10	15	3	-	0.00
23	78	69	61	64	61	59	94	82	60	29.90	29.86	29.90	10	10	10	16	3	-	0.00
24	78	68	61	64	60	59	100	82	58	29.92	29.89	29.92	10	8	5	12	3	-	0.00
25	90	74	59	65	58	57	93	76	40	29.89	29.87	29.89	10	9	6	10	4	-	0.00
26	86	74	64	67	62	59	90	72	49	29.83	29.80	29.83	10	10	9	10	3	-	0.00
27	75	68	62	65	63	61	94	82	69	29.94	29.82	29.94	10	10	10	18	4	-	0.00
28	78	70	61	64	61	59	94	80	62	29.99	29.95	29.99	10	9	8	15	6	-	0.00
29	72	66	61	63	60	58	100	83	71	29.97	29.94	29.97	10	9	6	18	6	-	0.00
30	73	65	60	58	54	47	90	73	39	30.07	30.02	30.07	10	10	10	14	4	21	0.00

September	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
13	69	64	57	58	58	56	93	79	68	30.04	30.02	30.04	10	9	4	13	7	-	0.00	
14	66	60	55	59	54	54	94	85	73	29.99	29.97	29.99	10	9	7	14	4	-	0.00	
15	70	63	57	60	56	55	94	83	70	29.87	29.85	29.87	10	8	4	14	3	-	0.00	
16	71	64	57	58	54	54	93	82	63	29.91	29.87	29.91	10	7	3	13	4	-	0.00	
17	71	64	57	59	57	55	94	85	68	29.93	29.88	29.93	10	7	4	13	3	-	0.00	
18	66	60	55	57	54	54	97	86	70	29.89	29.88	29.89	10	8	5	14	6	-	0.00	
19	71	64	57	56	56	53	88	73	59	29.95	29.86	29.95	10	10	9	15	3	-	0.00	

20	71	64	55	59	54	54	93	80	63	30.01	29.96	30.01	10	9	6	13	1	-	0.00	
21	73	64	55	61	56	54	100	83	61	30.04	30.01	30.04	10	7	2	12	3	-	0.00	Rain
22	73	66	60	64	59	58	96	88	73	30.00	29.98	30.00	10	6	3	12	4	-	0.00	Rain
23	73	66	60	61	58	57	93	83	64	30.01	29.95	30.01	10	8	6	15	4	-	0.00	
24	71	65	59	60	58	57	96	84	66	30.04	29.96	30.04	10	7	3	14	2	-	0.00	
25	82	69	57	62	57	55	93	76	50	30.07	30.00	30.07	10	9	7	13	1	-	0.00	
26	95	76	57	61	53	40	90	58	17	29.96	29.90	29.96	10	10	10	14	3	-	0.00	
27	91	76	59	59	48	38	75	44	18	29.89	29.86	29.89	10	10	10	12	3	-	0.00	
28	91	76	60	57	44	28	66	32	18	29.99	29.90	29.99	10	10	10	14	4	16	0.00	
29	93	76	59	61	50	46	68	49	23	30.02	29.98	30.02	10	10	10	9	0	-	0.00	
30	87	74	60	60	53	50	75	58	30	29.96	29.92	29.96	10	9	7	13	0	-	0.00	
October	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	77	66	57	61	55	51	89	76	48	29.89	29.88	29.89	10	8	4	12	0	-	0.00	
2	69	62	54	57	54	51	94	81	63	29.96	29.86	29.96	10	7	4	10	2	-	0.00	
3	69	62	55	57	55	53	90	77	65	30.08	30.02	30.08	10	8	5	13	4	-	0.00	
4	69	63	57	55	54	50	83	71	57	30.12	30.09	30.12	10	9	6	16	3	22	0.00	
5	73	64	53	56	50	50	83	66	49	30.11	30.07	30.11	10	10	10	12	0	-	0.00	
6	70	64	55	56	54	50	83	70	53	30.07	29.99	30.07	10	10	10	15	3	21	0.00	
7	81	67	53	58	50	44	90	63	32	30.12	30.07	30.12	10	10	10	12	0	-	0.00	
8	84	70	55	57	49	45	86	55	27	30.04	30.02	30.04	10	10	10	13	1	-	0.00	
9	84	70	57	62	54	48	75	58	34	30.01	29.96	30.01	10	10	10	10	1	-	0.00	
10	86	70	57	62	54	51	84	65	41	29.94	29.91	29.94	10	10	10	10	1	-	0.00	
11	79	68	55	61	54	51	93	74	39	30.05	29.94	30.05	10	9	6	15	2	-	0.00	
12	80	68	55	56	31	23	93	30	15	30.09	30.05	30.09	10	5	2	9	2	-	0.00	
13	75	65	55	59	54	53	87	75	57	30.09	30.05	30.09	10	8	5	10	1	-	0.00	
14	73	66	57	59	57	54	90	75	52	30.03	29.94	30.03	10	7	3	13	1	-	0.00	
15	84	69	54	56	49	38	93	60	22	29.90	29.86	29.90	10	9	7	13	2	-	0.00	
16	82	70	57	41	31	23	53	28	17	30.09	29.98	30.09	10	7	4	20	7	25	0.00	
17	82	68	55	59	40	28	83	43	17	30.18	30.13	30.18	10	9	5	12	4	-	0.00	
18	75	62	51	57	50	43	94	74	33	30.15	30.14	30.15	10	6	0	9	0	-	0.00	Fog
19	73	62	50	57	48	45	83	68	38	30.17	30.11	30.17	9	6	2	8	0	-	0.00	
20	80	64	50	55	49	46	89	62	38	30.17	30.14	30.17	8	4	3	8	0	-	0.00	

21	81	67	52	57	50	46	78	62	36	30.14	30.09	30.14	7	5	3	8	0	-	0.00	
22	75	64	54	58	52	48	90	78	40	30.09	30.06	30.09	7	5	4	15	0	-	0.00	
23	63	58	53	53	52	48	90	83	65	30.18	30.08	30.18	10	6	3	13	0	-	0.00	
24	66	57	48	56	48	46	93	76	54	30.20	30.15	30.20	10	9	5	10	3	-	0.00	
25	69	59	50	56	48	48	96	83	52	30.24	30.17	30.24	10	8	3	13	2	-	0.00	
26	64	58	52	57	51	48	100	92	75	30.16	30.14	30.16	10	6	0	12	0	-	0.00	Fog
27	73	65	57	60	55	50	93	75	56	30.12	30.10	30.12	10	8	4	18	2	24	0.02	Rain
28	66	60	51	59	53	43	96	74	45	30.28	30.19	30.28	10	9	3	13	7	-	0.14	Rain
29	71	60	48	51	44	41	83	62	35	30.27	30.25	30.27	10	10	10	12	3	-	0.00	
30	73	60	46	52	44	41	80	63	36	30.21	30.19	30.21	10	10	10	10	0	-	0.00	
31	75	65	46	54	52	48	78	63	47	30.25	30.17	30.25	10	9	7	12	5	-	0.00	
November	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	78	64	50	54	49	45	86	62	33	30.15	30.10	30.15	10	10	8	9	0	-	0.00	
2	66	59	52	56	49	46	90	78	59	30.17	30.10	30.17	10	9	7	12	0	-	0.00	
3	62	57	51	54	52	48	93	81	67	30.21	30.17	30.21	10	7	5	10	2	-	0.00	
4	70	60	50	58	51	48	100	90	53	30.10	30.08	30.10	10	4	0	6	2	-	0.00	Fog
5	68	60	52	55	51	50	94	81	63	30.10	30.04	30.10	10	7	4	13	2	-	0.01	
6	70	62	53	52	52	48	94	72	46	30.11	30.09	30.11	10	7	3	14	2	-	0.00	
7	69	62	54	58	50	49	96	76	51	30.01	29.94	30.01	10	9	1	17	8	26	0.36	Rain
8	64	58	50	54	52	45	96	82	50	30.18	30.10	30.18	10	8	2	10	7	-	0.15	Rain
9	66	56	46	49	45	44	93	72	50	30.17	30.12	30.17	10	10	10	7	0	-	0.00	
10	66	60	53	51	44	43	75	64	54	30.10	30.07	30.10	10	10	10	12	5	-	0.00	
11	73	62	52	55	50	48	86	72	44	30.13	30.08	30.13	10	10	10	8	0	-	0.00	
12	73	62	50	56	50	48	96	76	44	30.15	30.11	30.15	10	7	5	6	2	-	0.00	
13	73	62	51	56	49	48	89	73	48	30.12	30.08	30.12	10	8	5	8	0	-	0.00	
14	60	56	53	54	50	48	94	87	78	30.09	30.04	30.09	10	7	4	12	2	-	0.03	Rain
15	70	64	57	55	52	49	84	71	51	30.16	30.12	30.16	10	10	10	10	9	-	0.00	
16	66	59	51	56	51	47	93	79	60	30.05	29.98	30.05	10	9	4	15	4	23	0.04	Rain
17	59	54	48	49	46	44	93	79	58	30.12	30.07	30.12	10	10	10	9	2	-	0.03	Rain
18	64	54	43	50	44	41	93	74	47	30.13	30.09	30.13	10	10	10	10	0	-	0.00	
19	60	56	52	56	46	41	97	82	58	30.25	30.10	30.25	10	8	3	18	11	28	0.17	Rain
20	61	54	46	54	51	46	100	90	64	30.28	30.25	30.28	10	7	0	15	2	-	0.01	Fog , Rain

21	57	52	48	52	49	37	100	80	46	30.30	30.20	30.30	10	8	2	15	2	21	0.10	Rain
22	60	51	42	41	35	29	82	57	32	30.34	30.30	30.34	10	10	10	8	0	-	0.00	
23	60	50	41	44	37	37	86	70	44	30.41	30.34	30.41	10	10	10	9	0	-	0.00	
24	59	50	42	49	42	40	93	77	51	30.49	30.45	30.49	10	10	8	9	0	-	0.00	
25	61	52	43	52	45	42	100	88	62	30.43	30.32	30.43	10	7	0	9	0	-	0.00	Fog
26	59	54	50	53	50	50	100	92	72	30.22	30.18	30.22	10	7	2	8	2	-	0.00	
27	57	55	53	54	52	51	100	93	81	30.14	30.06	30.14	10	9	5	9	2	-	0.01	Rain
28	59	55	51	51	51	49	96	84	72	30.22	30.15	30.22	6	4	2	6	0	-	0.00	
29	64	57	50	55	49	48	96	79	63	30.20	30.15	30.20	10	8	2	14	3	20	0.02	Rain
30	61	54	48	51	49	42	97	77	50	30.30	30.25	30.30	10	9	2	12	6	16	0.19	Rain
December	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	57	52	46	48	48	41	100	78	55	30.39	30.33	30.39	10	10	7	10	2	-	0.02	Rain
2	57	50	44	52	44	39	93	80	59	30.34	30.30	30.34	10	10	4	10	1	-	0.02	Rain
3	60	52	44	40	36	29	80	52	33	30.33	30.29	30.33	10	10	10	12	7	-	0.00	
4	57	49	41	43	33	30	76	60	37	30.30	30.23	30.30	10	10	10	7	2	-	0.00	
5	57	48	39	46	40	37	93	76	51	30.33	30.29	30.33	10	8	4	9	0	-	0.00	
6	55	48	42	49	42	39	96	85	69	30.32	30.29	30.32	10	7	2	8	0	-	0.07	
7	57	52	45	48	45	37	89	68	47	30.29	30.25	30.29	10	10	10	12	2	20	0.00	
8	57	47	37	40	37	34	89	68	42	30.32	30.28	30.32	10	10	10	7	0	-	0.00	
9	57	52	45	47	42	33	93	77	50	30.24	30.18	30.24	10	9	2	13	8	17	0.16	Rain
10	55	48	42	40	38	31	82	66	40	30.28	30.23	30.28	10	10	10	10	6	-	0.00	Rain
11	60	50	41	41	37	34	82	64	41	30.32	30.27	30.32	10	10	10	7	0	-	0.00	
12	57	48	39	47	40	38	93	81	56	30.30	30.26	30.30	10	8	5	8	0	-	0.00	
13	54	50	44	48	43	32	94	76	45	30.37	30.27	30.37	10	8	2	14	3	-	0.03	Rain
14	57	48	39	40	33	27	83	59	31	30.42	30.36	30.42	10	10	10	7	0	-	0.00	
15	57	47	37	42	35	31	86	72	53	30.46	30.41	30.46	10	10	9	8	0	-	0.00	
16	60	48	37	41	36	33	89	70	42	30.38	30.34	30.38	10	9	7	8	0	-	0.00	
17	60	48	37	45	36	34	93	73	42	30.31	30.25	30.31	10	9	6	8	0	-	0.00	
18	55	47	39	50	46	39	100	97	74	30.31	30.29	30.31	10	3	0	9	0	-	0.00	Fog , Rain
19	66	54	41	42	38	28	89	54	26	30.20	30.19	30.20	10	10	10	13	4	-	0.00	
20	70	62	55	42	40	37	62	43	30	30.20	30.18	30.20	10	10	10	18	11	26	0.00	
21	69	56	44	41	37	23	82	53	22	30.15	30.11	30.15	10	9	7	22	1	18	0.00	

22	66	56	46	36	32	28	59	44	25	30.42	30.31	30.42	10	10	10	15	6	-	0.00	
23	64	52	39	37	31	27	73	54	26	30.48	30.45	30.48	10	10	10	7	0	-	0.00	
24	62	50	39	43	36	33	79	64	42	30.51	30.45	30.51	10	7	5	5	0	-	0.00	
25	63	50	37	40	35	34	89	65	39	30.38	30.33	30.38	8	6	5	0	0	-	0.00	
26	62	50	37	42	34	33	86	66	39	30.35	30.30	30.35	10	7	4	7	0	-	0.00	
27	64	50	37	45	37	33	86	66	35	30.41	30.35	30.41	7	6	4	0	0	-	0.00	
28	66	52	37	44	36	34	86	64	32	30.41	30.35	30.41	10	8	4	0	0	-	0.00	
29	61	50	39	40	34	32	79	64	41	30.21	30.18	30.21	10	10	7	6	0	-	0.00	
30	59	48	36	45	36	33	90	75	46	30.14	30.09	30.14	9	6	3	4	0	-	0.00	
31	53	48	42	43	40	39	93	80	67	30.13	30.09	30.13	10	6	2	8	0	-	0.00	
January	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	53	50	46	43	42	39	80	72	59	30.19	30.08	30.19	10	10	10	12	1	20	0.00	
2	55	46	37	41	37	34	86	71	50	30.42	30.31	30.42	10	10	10	10	2	-	0.00	
3	59	48	37	42	39	35	93	71	41	30.50	30.46	30.50	10	10	10	6	3	-	0.00	
4	57	47	37	49	38	35	89	77	64	30.54	30.49	30.54	10	10	8	6	0	-	0.00	Rain
5	60	53	46	48	39	27	89	65	33	30.38	30.35	30.38	10	9	7	9	6	-	0.00	
6	57	50	44	37	28	21	63	47	24	30.43	30.38	30.43	10	10	10	14	7	-	0.00	
7	57	50	42	47	36	31	100	71	37	30.42	30.37	30.42	10	7	5	9	2	-	0.00	
8	55	50	46	48	45	44	97	87	72	30.37	30.33	30.37	10	5	2	12	2	-	0.00	
9	57	52	48	47	46	45	93	84	64	30.36	30.30	30.36	10	7	4	12	0	-	0.00	
10	59	54	48	48	46	45	93	81	67	30.29	30.28	30.29	10	9	5	8	0	-	0.00	
11	57	54	50	55	46	45	94	83	70	30.20	30.12	30.20	10	8	1	17	6	18	0.16	Rain
12	55	50	46	48	46	42	96	86	72	30.28	30.21	30.28	10	10	9	0	0	-	0.00	
13	63	54	45	49	43	41	90	73	54	30.25	30.22	30.25	10	10	9	12	3	-	0.00	
14	63	54	45	50	45	43	93	76	54	30.23	30.20	30.23	10	10	10	7	3	-	0.00	
15	68	60	53	51	49	39	90	66	41	30.13	29.97	30.13	10	10	10	16	2	26	0.02	Rain
16	59	54	48	52	48	39	89	72	48	30.21	30.07	30.21	10	9	3	14	5	22	0.33	Rain
17	52	49	46	52	42	42	100	85	80	30.21	30.16	30.21	10	6	1	4	0	-	0.15	Rain
18	64	58	51	56	50	50	100	89	65	30.16	30.03	30.16	10	8	3	10	0	17	0.41	Rain
19	64	57	50	58	52	43	100	88	64	30.16	30.14	30.16	10	7	3	10	0	-	0.07	Rain
20	57	54	48	46	34	27	83	51	36	30.18	30.14	30.18	10	10	5	10	1	-	0.00	
21	62	54	45	48	43	41	90	72	53	30.18	30.15	30.18	10	10	10	9	1	-	0.00	

22	59	54	48	51	48	46	93	82	69	30.15	30.13	30.15	10	10	6	7	0	-	0.11	Rain
23	57	55	53	56	50	49	96	88	83	30.07	30.03	30.07	10	8	2	18	9	-	0.92	Rain
24	57	55	53	55	55	52	100	90	87	30.03	30.00	30.03	10	5	2	14	6	22	1.64	Rain
25	59	56	52	52	52	43	96	92	67	30.17	30.01	30.17	10	7	2	15	0	-	0.17	Rain
26	57	52	48	47	44	43	86	74	62	30.29	30.23	30.29	10	10	10	4	0	-	0.00	
27	61	53	45	48	45	41	93	75	52	30.31	30.27	30.31	10	10	9	6	0	-	0.00	
28	55	47	39	47	39	36	90	79	57	30.21	30.18	30.21	10	8	4	0	0	-	0.00	
29	64	53	42	45	42	38	97	70	40	30.12	30.07	30.12	10	7	4	14	0	23	0.00	
30	57	54	50	51	44	42	90	77	62	30.22	30.04	30.22	10	9	4	16	0	22	0.12	Rain
31	57	52	48	46	45	40	89	74	53	30.35	30.26	30.35	10	10	10	9	3	-	0.00	Rain
February	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	64	58	51	52	47	46	92	79	63	30.41	30.36	30.41	10	10	10	8	0	-	0.00	
2	64	56	48	51	48	46	96	83	63	30.27	30.18	30.27	10	7	4	10	3	-	0.01	
3	66	57	48	51	43	27	93	68	23	30.08	29.97	30.08	10	9	6	21	6	33	0.20	Rain
4	61	54	48	46	44	42	86	68	50	30.11	30.07	30.11	10	10	10	18	6	20	0.00	
5	60	56	48	54	47	43	97	76	62	30.22	30.11	30.22	10	10	8	15	12	22	0.03	Rain
6	63	54	44	52	46	45	100	87	65	30.29	30.25	30.29	10	8	0	12	1	-	0.00	Fog
7	60	53	46	53	48	46	100	92	69	30.30	30.27	30.30	10	4	0	10	1	-	0.01	Fog
8	64	56	48	53	48	46	100	92	52	30.24	30.22	30.24	10	3	0	13	2	-	0.00	Fog
9	61	56	51	52	50	47	94	83	67	30.09	30.05	30.09	10	8	4	13	2	16	0.02	Rain
10	55	52	48	52	49	45	94	84	67	30.01	29.88	30.01	10	9	4	12	9	-	0.15	Rain
11	55	50	46	50	46	43	93	84	77	30.03	29.91	30.03	10	8	3	15	4	25	0.96	Rain
12	57	51	45	52	44	42	94	83	72	29.99	29.90	29.99	10	10	9	14	6	21	0.00	Rain
13	60	56	51	56	48	47	94	86	80	29.91	29.81	29.91	10	9	5	20	13	31	0.87	Rain
14	61	56	50	55	50	43	90	70	53	30.24	29.99	30.24	10	9	5	18	12	28	0.11	Rain
15	59	50	42	48	43	40	97	81	62	30.24	30.15	30.24	10	10	10	8	1	-	0.00	
16	55	50	45	47	46	43	93	81	69	30.08	30.02	30.08	10	9	2	13	3	16	0.25	Rain
17	57	49	41	46	41	40	96	78	56	30.21	30.14	30.21	10	10	10	13	2	-	0.00	
18	62	54	45	47	42	41	90	74	53	30.23	30.20	30.23	10	10	9	10	0	-	0.00	
19	64	55	46	49	45	42	93	72	45	30.13	29.99	30.13	10	10	9	7	0	-	0.00	
20	63	56	50	53	46	40	86	70	47	29.79	29.62	29.79	10	9	4	17	7	25	0.36	Rain
21	64	56	48	48	44	43	86	71	52	30.07	29.86	30.07	10	10	9	14	6	-	0.03	Rain

22	55	54	52	47	46	45	80	75	72	30.11	30.08	30.11	10	10	10	17	8	20	0.00	
May	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
3	71	63	51	57	56	52	87	80	61	30.05	30.02	30.05	10	10	10	22	15	-	0.00	
4	70	60	53	52	52	43	88	70	43	30.03	30.03	30.03	10	10	10	21	3	21	0.00	
5	66	60	51	50	46	40	75	62	45	30.06	30.00	30.06	10	10	10	21	4	-	0.00	
6	63	55	46	49	42	40	86	68	52	30.10	30.05	30.10	10	10	6	20	5	23	0.05	Rain
7	63	58	54	59	50	48	96	80	75	30.08	30.05	30.08	10	9	4	13	7	-	0.03	Rain
8	68	60	55	59	56	48	94	84	64	30.14	30.02	30.14	10	9	6	21	0	-	0.05	Rain
9	66	60	54	52	49	46	80	67	54	30.16	30.13	30.16	10	10	10	23	6	29	0.00	
10	62	56	50	46	42	31	75	58	33	30.18	30.05	30.18	10	10	10	18	5	28	0.00	
11	66	57	48	42	39	36	69	55	35	30.25	30.20	30.25	10	10	10	17	6	-	0.00	
12	66	55	45	48	40	38	74	60	39	30.23	30.17	30.23	10	10	10	16	2	-	0.00	
13	64	58	51	49	43	42	74	64	43	30.09	30.02	30.09	10	10	10	13	2	-	0.00	
14	64	58	52	55	46	43	82	70	54	29.97	29.94	29.97	10	10	9	18	8	31	0.00	Rain
15	66	58	52	54	50	42	94	73	45	29.95	29.94	29.95	10	9	2	14	7	22	0.28	Rain
16	62	56	50	52	50	47	93	76	62	30.16	30.02	30.16	10	10	9	14	1	21	0.01	Rain
17	71	61	53	56	48	48	84	70	56	30.15	30.14	30.15	10	10	10	17	3	-	0.00	
18	79	64	52	58	52	48	89	72	36	30.12	30.09	30.12	10	10	9	18	2	-	0.00	
19	82	68	55	59	53	52	87	72	45	30.14	30.10	30.14	10	10	9	15	4	-	0.00	
20	84	70	57	63	57	54	87	70	44	30.03	30.01	30.03	10	10	10	14	3	-	0.00	
21	96	78	62	66	59	54	84	58	28	29.97	29.95	29.97	10	10	10	12	1	-	0.00	
22	87	74	62	63	58	54	84	61	41	29.94	29.89	29.94	10	10	10	13	2	-	0.00	
23	84	73	62	65	59	55	84	70	47	29.92	29.86	29.92	10	10	10	12	1	-	0.00	
24	77	68	57	62	56	50	83	70	48	29.92	29.89	29.92	10	10	10	20	6	-	0.00	
25	72	62	54	52	50	43	86	58	38	29.97	29.90	29.97	10	10	10	20	3	22	0.03	
26	72	63	55	59	51	49	87	73	61	30.04	29.99	30.04	10	10	10	20	5	-	0.00	
27	73	65	57	60	54	53	90	76	61	30.08	30.02	30.08	10	10	10	23	6	-	0.00	
28	79	68	57	57	51	37	93	64	31	30.08	30.06	30.08	10	10	10	18	2	24	0.00	
29	73	62	53	50	44	40	74	55	38	30.02	30.01	30.02	10	10	10	22	7	18	0.00	
30	71	61	52	48	46	39	77	58	36	30.00	29.97	30.00	10	10	10	23	6	22	0.00	
31	79	66	52	49	45	41	80	53	26	30.01	29.98	30.01	10	10	10	14	1	-	0.00	
June	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events

	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
9	60	60	60	52	52	51	75	74	72	30.06	30.05	30.06	10	10	10	8	7	-	0.00	
10	71	62	53	50	47	42	62	52	42	30.06	30.04	30.06	10	10	10	15	11	24	0.00	
11	73	62	51	52	45	42	77	60	43	30.11	30.05	30.11	10	10	10	20	5	-	0.00	
12	80	68	57	60	53	53	84	69	46	30.13	30.10	30.13	10	10	10	17	5	21	0.00	
13	97	78	59	64	57	54	90	56	25	30.04	29.92	30.04	10	10	10	10	6	-	0.00	
14	106	88	69	67	58	51	65	38	20	29.90	29.86	29.90	10	10	10	14	1	-	0.00	
15	84	73	62	63	58	55	93	64	47	29.91	29.85	29.91	10	10	9	15	3	-	0.00	
16	75	67	60	62	58	55	94	79	62	29.77	29.75	29.77	10	9	7	16	3	-	0.00	
17	77	68	60	60	58	55	90	74	54	29.83	29.71	29.83	10	9	7	17	5	-	0.00	
18	77	69	60	58	58	54	86	70	52	29.93	29.86	29.93	10	10	10	16	6	-	0.00	
19	80	70	60	61	55	54	84	72	46	29.94	29.92	29.94	10	10	10	17	4	-	0.00	
20	79	69	61	63	58	57	90	76	54	29.92	29.91	29.92	10	9	6	14	3	-	0.00	
21	80	70	61	62	59	57	87	75	54	29.92	29.90	29.92	10	9	7	14	1	-	0.00	
22	71	64	57	59	57	53	93	80	63	29.90	29.87	29.90	10	9	7	21	4	-	0.00	
23	71	63	54	57	52	51	88	75	59	29.99	29.90	29.99	10	9	8	16	6	-	0.00	
24	73	65	55	60	58	54	87	77	61	30.06	30.02	30.06	10	10	10	20	11	-	0.00	
25	75	67	61	61	57	56	90	78	66	30.05	30.05	30.05	10	10	10	15	6	-	0.00	
26	78	68	60	61	57	57	90	77	54	30.00	29.98	30.00	10	9	5	13	5	-	0.00	
27	79	69	60	63	58	57	90	79	56	29.94	29.91	29.94	10	9	6	13	4	-	0.00	
28	75	66	61	61	58	57	93	79	62	29.97	29.92	29.97	10	9	5	15	1	-	0.00	
29	71	66	60	59	58	55	90	77	65	29.96	29.95	29.96	10	9	6	18	4	-	0.00	
30	69	62	57	56	56	51	87	74	63	29.99	29.94	29.99	10	10	10	18	6	-	0.00	
July	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	70	62	55	56	52	49	84	69	59	30.02	29.98	30.02	10	10	10	18	4	-	0.00	
2	71	62	55	53	51	49	83	70	53	30.01	30.00	30.01	10	10	10	17	4	20	0.00	
3	70	61	53	50	49	45	83	66	49	30.05	29.99	30.05	10	10	10	15	4	20	0.00	
4	72	62	52	56	49	46	86	66	53	30.04	30.04	30.04	10	10	10	24	5	-	0.00	
5	72	64	57	56	52	50	83	72	55	30.04	30.00	30.04	10	10	10	21	2	23	0.00	
6	71	62	53	54	49	48	83	72	55	30.03	29.99	30.03	10	10	10	20	3	17	0.00	
7	71	62	53	54	50	48	82	68	57	30.04	29.99	30.04	10	10	10	21	0	-	0.00	
8	72	64	55	58	52	50	87	74	61	30.04	30.02	30.04	10	10	10	16	0	-	0.00	

9	75	65	57	60	54	54	90	77	57	30.00	29.98	30.00	10	9	7	13	4	-	0.00
10	75	65	57	59	57	53	94	76	51	29.98	29.93	29.98	10	9	8	17	5	-	0.00
11	75	65	57	59	56	54	90	74	57	30.00	29.96	30.00	10	10	8	16	4	-	0.00
12	73	66	59	57	56	52	88	71	59	30.09	30.02	30.09	10	10	10	18	4	21	0.00
13	72	64	57	55	53	50	82	68	53	30.15	30.09	30.15	10	10	10	17	3	-	0.00
14	75	66	57	60	53	52	88	74	48	30.14	30.12	30.14	10	10	9	16	1	-	0.00
15	70	63	57	57	56	54	93	78	65	30.09	30.08	30.09	10	10	8	17	5	-	0.00
16	69	64	59	57	55	53	83	76	66	30.08	30.02	30.08	10	10	10	18	3	21	0.00
17	69	64	57	55	54	52	83	72	56	30.16	30.11	30.16	10	10	10	16	3	24	0.00
18	73	64	55	59	53	51	88	74	57	30.19	30.15	30.19	10	10	10	15	3	-	0.00
19	72	63	55	59	54	53	90	77	61	30.14	30.12	30.14	10	10	10	18	5	-	0.00
20	72	62	54	57	54	52	94	78	61	30.07	30.04	30.07	10	10	10	20	3	22	0.00
21	71	64	57	57	54	53	90	75	59	30.04	29.97	30.04	10	10	10	17	6	-	0.00
22	72	64	57	59	55	55	94	77	63	30.08	30.03	30.08	10	10	10	18	5	-	0.00
23	80	68	55	59	55	53	87	74	47	30.09	30.05	30.09	10	10	10	13	2	-	0.00
24	78	68	57	60	56	54	93	76	52	30.03	30.02	30.03	10	10	10	15	3	-	0.00
25	73	65	57	58	56	54	93	75	57	30.00	29.98	30.00	10	10	10	18	3	-	0.00
26	77	67	55	56	54	48	93	69	36	30.04	29.97	30.04	10	10	10	15	4	21	0.00
27	73	64	55	58	52	50	87	72	57	30.04	30.02	30.04	10	10	10	20	3	-	0.00
28	75	66	57	61	56	55	93	78	55	30.04	30.01	30.04	10	10	10	16	6	-	0.00
29	80	70	60	62	57	57	90	76	54	29.98	29.96	29.98	10	10	7	14	5	-	0.00



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Moffett NAS, California
on Saturday, July 29, 2000

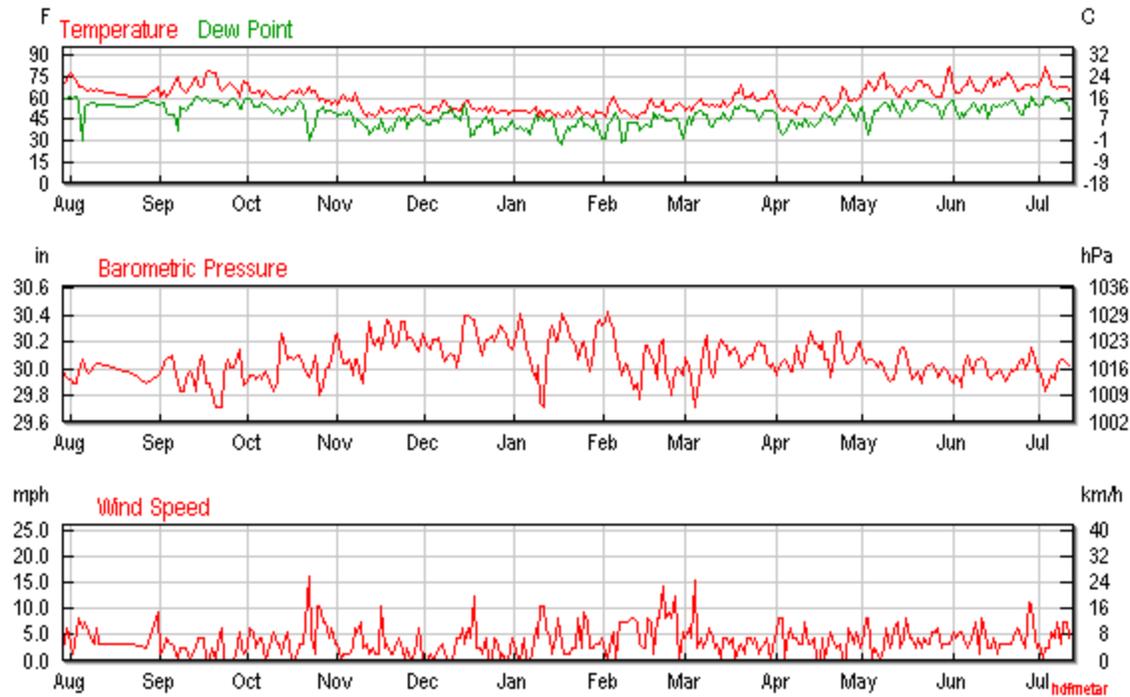
July 29, 2000

Custom Date Query - Choose two dates less than or equal to one year apart

From: To:

Summary

	Max	Avg	Min	
Temperature				
Max Temperature	99 °F / 37 °C	77 °F / 24 °C	48 °F / 8 °C	
Mean Temperature	80 °F / 26 °C	67 °F / 21 °C	44 °F / 6 °C	
Min Temperature	66 °F / 18 °C	61 °F / 16 °C	33 °F / 0 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	22	0	0	2562
Cooling Degree Days (base 65)	14	4	0	355
Growing Degree Days (base 50)	30	17	0	3145
Dew Point	Max	Avg	Min	
Dew Point	65 °F / 18 °C	53 °F / 12 °C	12 °F / -11 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	1.26 in / 3.2 cm	0.03 in / 0.0 cm	0.00 in / 0.0 cm	12.40 in / 31.51 cm
Snowdepth	-	-	-	-
Wind	Max	Avg	Min	
Wind	26 mph / 42 km/h	4 mph / 7 km/h	0 mph / 0 km/h	
Gust Wind	36 mph / 58 km/h	20 mph / 33 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.46 in / 1031 hPa	29.94 in / 1014 hPa	29.61 in / 1003 hPa	



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Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
July																				
29	80	70	60	62	57	57	90	76	54	29.98	29.96	29.98	10	10	7	14	5	-	0.00	
30	80	69	60	61	58	56	90	77	52	29.94	29.93	29.94	10	10	10	15	3	-	0.00	
31	84	71	60	61	58	57	90	71	44	29.94	29.92	29.94	10	10	10	14	6	-	0.00	
August																				
	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	88	76	64	64	59	57	81	65	35	29.95	29.90	29.95	10	10	10	15	3	-	0.00	
2	84	73	64	63	58	58	84	68	46	29.89	29.88	29.89	10	10	9	14	1	-	0.00	
3	78	70	62	63	60	57	92	79	56	29.94	29.87	29.94	10	9	7	16	5	-	0.00	
4	75	66	60	60	54	30	86	71	31	30.06	29.96	30.06	10	10	10	16	8	-	0.00	
5	73	66	60	35	29	28	34	31	26	30.07	30.05	30.07	10	10	9	14	6	-	0.00	
6	70	65	60	57	53	32	83	68	34	30.01	29.99	30.01	10	10	10	15	7	-	0.00	

7	70	63	57	57	54	53	88	74	63	29.98	29.95	29.98	10	10	10	17	5	-	0.00		
8	71	65	59	57	55	54	83	75	61	30.02	29.96	30.02	10	10	10	18	4	-	0.00		
9	71	64	59	56	55	52	83	71	59	30.04	30.01	30.04	10	10	10	18	3	-	0.00		
10	71	65	59	55	52	50	87	68	57	30.07	30.02	30.07	10	10	10	18	6	-	0.00		
11	73	64	57	57	54	53	94	78	55	30.03	30.02	30.03	10	10	9	8	3	-	0.00		
22	60	59	59	52	52	52	77	76	75	29.95	29.95	29.95	10	10	10	4	3	-	0.00		
26	75	-	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	
27	61	60	60	57	57	55	90	87	82	29.88	29.88	29.88	10	10	10	5	2	-	0.00		
31	71	66	59	55	54	53	75	67	57	29.97	29.94	29.97	10	10	10	13	9	-	0.00		
September	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events	
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum		
1	64	60	55	61	54	52	100	86	70	30.01	29.95	30.01	10	8	2	9	1	-	0.04	Rain	
2	71	64	55	58	55	46	90	73	44	30.07	30.02	30.07	10	10	10	16	2	-	0.00		
3	72	60	48	54	48	46	86	65	47	30.07	30.05	30.07	10	10	10	18	4	26	0.00		
4	73	62	51	52	47	41	77	63	31	30.13	30.07	30.13	10	10	10	18	3	22	0.00		
5	79	65	51	53	47	45	83	58	31	30.14	30.09	30.14	10	10	10	16	3	-	0.06		
6	86	68	53	64	47	40	77	49	23	30.05	30.00	30.05	10	10	7	14	2	-	0.00		
7	90	74	55	54	36	26	65	31	12	29.93	29.88	29.93	10	10	10	13	0	-	0.00		
8	77	66	57	58	52	50	80	64	52	29.86	29.82	29.86	10	10	9	21	2	-	0.00		
9	75	64	55	56	51	49	87	69	49	29.88	29.81	29.88	10	10	10	17	2	-	0.00		
10	73	62	52	57	50	47	89	70	48	29.96	29.90	29.96	10	10	9	13	2	-	0.00		
11	80	67	55	59	54	52	88	70	42	30.00	29.96	30.00	10	9	6	13	0	-	0.00		
12	84	68	55	61	54	51	86	68	39	29.96	29.95	29.96	10	10	8	13	1	-	0.00		
13	86	73	64	65	60	51	78	61	39	29.87	29.82	29.87	10	10	9	16	2	-	0.00		
14	75	68	62	64	60	54	90	76	57	30.08	29.98	30.08	10	10	10	16	4	-	0.00		
15	73	66	57	59	57	55	90	78	57	30.10	30.09	30.10	10	10	10	20	4	-	0.00		
16	75	68	60	61	58	57	90	79	59	30.04	30.00	30.04	10	10	10	12	4	-	0.00		
17	93	76	59	63	58	55	87	63	28	29.93	29.88	29.93	10	10	10	12	0	-	0.00		
18	93	78	60	62	55	51	72	50	24	29.92	29.88	29.92	10	10	10	13	0	18	0.00		
19	96	76	63	60	56	54	70	55	35	29.86	29.80	29.86	10	10	8	14	2	-	0.00		
20	90	76	63	63	56	53	84	65	32	29.72	29.69	29.72	10	10	10	14	0	-	0.00		
21	75	68	61	57	56	54	81	66	48	29.71	29.69	29.71	10	10	9	14	3	18	0.00		
22	69	64	59	60	55	52	93	80	61	29.85	29.70	29.85	10	9	5	12	6	-	0.08	Rain	

23	75	65	55	58	52	51	87	70	50	30.03	29.94	30.03	10	10	9	13	0	-	0.00	
24	80	68	54	60	54	50	89	70	37	30.09	30.05	30.09	10	10	10	15	0	-	0.00	
25	81	69	57	61	56	54	90	73	42	30.05	30.00	30.05	10	9	6	15	0	-	0.00	
26	72	66	60	60	58	57	88	78	63	30.03	30.00	30.03	10	9	5	16	0	-	0.00	
27	71	65	59	58	56	51	87	77	57	30.12	30.04	30.12	10	9	6	16	1	-	0.00	
28	64	60	54	54	51	50	84	71	65	30.14	30.12	30.14	10	10	10	10	5	-	0.00	
29	82	66	51	60	51	49	93	72	36	30.03	29.96	30.03	10	10	10	12	2	-	0.00	
30	86	70	57	61	56	55	93	67	38	29.87	29.86	29.87	10	10	9	10	1	-	0.00	
October	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	78	69	59	61	58	56	90	77	50	29.94	29.89	29.94	10	10	9	12	2	-	0.00	
2	71	64	55	59	58	52	90	77	59	29.97	29.94	29.97	10	9	7	14	6	-	0.00	
3	72	62	53	56	52	50	94	77	51	29.95	29.93	29.95	10	9	9	12	5	-	0.05	
4	69	62	55	55	52	51	88	76	59	29.95	29.90	29.95	10	9	7	10	2	-	0.00	
5	69	63	57	56	53	52	87	75	61	29.96	29.94	29.96	10	8	4	12	4	-	0.00	
6	66	60	57	56	55	53	90	81	68	29.94	29.91	29.94	10	8	6	18	4	-	0.00	
7	70	64	59	54	54	51	80	73	55	30.01	29.96	30.01	10	9	6	8	0	-	0.00	
10	63	58	55	50	48	48	77	73	67	29.85	29.81	29.85	10	10	10	9	5	-	0.00	
11	63	58	52	52	51	47	89	77	64	30.01	29.88	30.01	10	10	10	12	3	-	0.03	Rain
12	68	60	52	50	50	45	86	70	50	30.25	30.14	30.25	10	10	10	13	3	-	0.00	
13	71	59	48	54	47	45	89	72	41	30.29	30.25	30.29	10	10	10	15	1	-	0.00	
14	70	58	48	56	49	47	94	81	57	30.17	30.12	30.17	10	10	10	15	4	-	0.00	
15	69	61	54	55	52	50	94	82	57	30.09	30.06	30.09	10	9	7	14	5	-	0.00	
16	77	64	50	54	50	48	93	67	39	30.11	30.07	30.11	10	10	10	9	0	-	0.00	
17	73	64	53	57	50	48	84	71	48	30.11	30.05	30.11	10	10	8	12	0	-	0.00	
18	69	62	53	58	54	51	94	82	58	30.12	30.08	30.12	10	10	9	14	1	-	0.00	
19	73	65	55	58	56	54	94	80	55	30.12	30.08	30.12	10	10	9	15	3	-	0.00	
20	70	61	53	59	54	50	100	84	59	30.07	30.01	30.07	10	8	0	13	3	-	0.01	Fog
21	71	62	52	53	45	32	87	55	29	30.02	29.97	30.02	10	10	10	24	7	34	0.00	
22	75	66	55	31	28	22	35	24	15	29.97	29.92	29.97	10	10	10	24	16	36	0.00	
23	77	62	45	43	33	28	54	37	19	30.06	29.95	30.06	10	10	10	7	4	-	0.00	
24	80	64	50	50	39	37	69	48	25	30.13	30.09	30.13	10	10	10	14	1	18	0.00	
25	66	60	57	53	50	48	84	71	54	30.06	29.96	30.06	10	10	10	13	10	23	0.01	Rain

26	60	56	54	56	50	50	100	89	72	29.81	29.78	29.81	10	8	2	10	10	16	1.26	Rain
27	64	58	53	53	52	49	90	79	56	29.97	29.85	29.97	10	10	10	9	7	-	0.00	Rain
28	61	55	48	54	48	46	100	84	72	30.00	29.98	30.00	10	8	3	20	7	25	0.35	Rain
29	63	57	50	53	50	42	97	78	46	30.06	30.00	30.06	10	9	2	10	4	-	0.24	Rain
30	59	54	50	54	50	48	96	90	75	30.17	30.05	30.17	10	9	3	14	6	-	0.62	Rain
31	66	56	46	53	48	43	97	75	45	30.25	30.21	30.25	10	10	10	9	3	-	0.00	
November	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	64	54	45	52	45	42	90	77	54	30.27	30.24	30.27	10	10	10	14	3	-	0.00	
2	69	58	48	55	47	41	93	73	37	30.15	30.08	30.15	10	10	10	10	0	-	0.00	
3	72	61	50	49	48	45	89	62	38	30.07	30.02	30.07	10	10	10	9	1	-	0.00	
4	66	57	48	54	47	44	94	76	49	30.07	30.02	30.07	10	10	10	14	1	-	0.00	
5	62	58	53	53	50	41	89	74	56	30.09	30.05	30.09	10	10	8	10	1	-	0.00	
6	66	57	48	51	46	38	86	61	37	30.00	29.94	30.00	10	10	10	14	2	18	0.00	
7	70	62	51	47	38	32	67	47	25	30.11	30.06	30.11	10	10	10	9	6	-	0.00	
8	64	56	48	52	44	35	77	63	49	30.07	30.05	30.07	10	10	10	13	5	20	0.00	
9	57	52	46	42	41	38	77	66	53	29.96	29.90	29.96	10	10	10	12	7	18	0.00	
10	54	48	41	43	40	36	89	72	57	30.00	29.88	30.00	10	10	10	7	2	-	0.07	Rain
11	55	46	37	41	38	34	97	72	48	30.30	30.17	30.30	10	10	10	10	3	-	0.00	
12	59	48	37	41	33	24	93	68	26	30.37	30.33	30.37	10	10	10	10	1	-	0.00	
13	57	47	37	46	35	34	93	76	45	30.25	30.17	30.25	10	10	10	8	2	-	0.04	Rain
14	55	46	37	41	38	36	96	78	57	30.20	30.15	30.20	10	10	9	14	1	-	0.00	
15	57	48	39	47	37	35	90	76	57	30.24	30.21	30.24	10	10	5	12	1	-	0.06	Rain
16	57	52	45	44	44	34	87	69	49	30.21	30.12	30.21	10	9	6	13	10	-	0.09	Rain
17	60	48	37	40	36	34	89	66	41	30.32	30.26	30.32	10	10	10	7	2	-	0.00	
18	61	48	36	41	34	32	86	64	36	30.40	30.35	30.40	10	10	9	8	3	-	0.00	
19	60	50	39	41	39	36	89	71	46	30.35	30.31	30.35	8	7	5	8	1	-	0.00	
20	61	48	36	44	36	34	93	71	36	30.23	30.19	30.23	9	8	6	7	1	-	0.00	
21	55	50	44	50	40	37	90	80	66	30.17	30.14	30.17	10	7	2	7	2	-	0.06	Rain
22	57	51	45	48	46	42	97	83	62	30.30	30.18	30.30	10	8	3	14	4	-	0.02	Rain
23	55	50	44	47	42	41	93	83	74	30.39	30.33	30.39	10	9	4	9	3	-	0.00	
24	57	51	45	49	46	42	97	85	67	30.35	30.34	30.35	10	6	1	12	0	-	0.00	
25	53	47	41	45	37	27	96	63	40	30.25	30.20	30.25	8	4	0	15	2	-	0.00	

26	61	52	44	48	44	43	100	90	58	30.25	30.21	30.25	10	3	0	7	0	-	0.00	Fog
27	60	52	44	50	43	42	100	88	60	30.23	30.20	30.23	7	4	0	8	0	-	0.00	Fog
28	57	52	46	49	45	44	100	89	72	30.15	30.12	30.15	9	5	2	9	3	-	0.00	
29	61	54	46	53	47	43	100	81	56	30.24	30.11	30.24	10	9	5	13	6	18	0.13	Rain
30	57	50	42	49	43	42	100	87	62	30.27	30.25	30.27	10	9	4	8	0	-	0.00	
December	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	57	50	42	48	42	41	96	83	60	30.19	30.18	30.19	10	10	8	6	0	-	0.00	
2	60	48	37	46	40	37	100	86	60	30.19	30.15	30.19	10	8	0	6	0	-	0.00	Fog
3	57	48	39	46	40	39	97	82	62	30.17	30.12	30.17	10	7	5	9	1	-	0.00	
4	63	53	43	48	43	41	93	76	50	30.25	30.20	30.25	10	7	3	5	0	-	0.00	
5	60	52	45	47	43	40	93	75	49	30.23	30.20	30.23	10	9	7	6	1	-	0.00	
6	57	50	42	47	41	40	92	78	53	30.24	30.21	30.24	10	9	7	6	2	-	0.00	Rain
7	61	56	50	49	48	45	89	77	56	30.13	30.09	30.13	10	8	5	8	3	-	0.00	
8	62	56	50	51	48	46	96	81	62	30.10	30.04	30.10	10	8	4	8	1	-	0.00	
9	57	52	48	52	48	48	100	91	75	30.12	30.09	30.12	10	4	2	6	0	-	0.00	
10	55	50	46	52	52	43	100	86	67	30.19	30.10	30.19	10	8	2	10	0	-	0.00	Rain
11	54	51	48	48	45	43	93	81	66	30.20	30.08	30.20	10	10	8	14	1	-	0.07	Rain
12	57	51	45	47	45	42	93	83	67	30.10	30.00	30.10	10	9	2	9	4	-	0.06	Rain
13	55	50	45	49	43	42	93	81	69	30.19	30.11	30.19	10	10	6	13	4	20	0.02	Rain
14	57	54	51	54	50	48	100	86	70	30.37	30.23	30.37	10	9	2	9	6	-	0.09	Rain
15	59	55	51	54	54	45	100	86	69	30.45	30.38	30.45	10	9	7	10	3	-	0.01	Rain
16	64	56	48	44	43	40	80	62	40	30.42	30.38	30.42	10	10	10	15	6	-	0.00	
17	63	53	43	46	32	19	93	56	24	30.40	30.36	30.40	10	10	6	18	4	-	0.00	
18	59	51	43	43	33	22	86	52	31	30.39	30.35	30.39	10	9	7	21	12	24	0.00	
19	60	50	41	47	39	37	89	73	46	30.37	30.25	30.37	10	8	7	10	2	-	0.00	Rain
20	61	51	41	45	39	37	93	72	42	30.17	30.12	30.17	10	9	7	5	2	-	0.00	
21	61	50	39	50	42	35	89	74	59	30.20	30.08	30.20	10	10	8	9	1	-	0.00	
22	57	52	45	50	46	43	93	82	72	30.24	30.20	30.24	10	10	7	8	4	-	0.00	
23	57	48	39	47	41	38	97	84	57	30.25	30.20	30.25	10	9	7	6	0	-	0.00	
24	57	52	42	47	44	38	93	77	57	30.28	30.23	30.28	10	10	8	10	0	-	0.00	
25	60	50	41	39	33	28	86	53	31	30.23	30.19	30.23	10	10	9	16	4	20	0.00	
26	60	48	37	41	34	32	86	67	41	30.32	30.26	30.32	10	10	8	6	3	-	0.00	

27	61	49	37	45	36	35	93	75	46	30.36	30.31	30.36	10	8	4	7	0	-	0.00	
28	64	50	36	40	38	34	97	70	33	30.30	30.27	30.30	10	9	4	5	1	-	0.00	
29	59	49	39	44	36	33	83	70	44	30.26	30.24	30.26	10	8	5	7	0	-	0.00	
30	57	47	37	46	38	34	93	80	53	30.17	30.15	30.17	7	6	4	7	0	-	0.00	
31	57	50	42	47	43	39	100	98	69	30.15	30.12	30.15	6	2	0	6	4	-	0.00	Fog
January	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	61	49	37	46	38	34	93	76	46	30.25	30.17	30.25	8	5	3	6	3	-	0.00	
2	64	50	37	42	37	35	93	70	40	30.38	30.29	30.38	10	8	6	6	0	-	0.00	
3	63	50	37	46	39	35	93	73	45	30.43	30.39	30.43	10	7	3	7	0	-	0.00	
4	64	50	37	40	36	34	93	68	35	30.31	30.25	30.31	10	8	5	6	4	-	0.00	
5	64	50	37	42	37	33	86	68	40	30.20	30.14	30.20	10	8	6	10	0	-	0.00	
6	60	48	37	41	33	32	83	68	41	30.11	30.06	30.11	10	8	4	8	0	-	0.00	
7	60	50	39	47	39	37	100	82	42	30.04	29.96	30.04	10	5	2	16	1	23	0.00	Rain
8	55	52	46	50	47	42	97	84	67	30.01	29.90	30.01	10	9	2	15	6	23	0.25	Rain
9	52	46	41	45	42	39	97	85	74	30.06	30.01	30.06	10	10	9	21	4	25	0.01	Rain
10	55	50	46	54	45	41	94	85	71	29.99	29.72	29.99	10	8	2	24	10	31	0.65	Rain
11	48	46	44	45	43	41	93	88	80	29.79	29.70	29.79	10	8	3	20	10	26	0.68	Rain
12	55	49	43	45	44	40	97	84	64	30.20	30.03	30.20	10	10	10	18	6	23	0.01	
13	55	50	45	45	43	41	93	77	64	30.32	30.26	30.32	10	10	10	12	4	-	0.00	Rain
14	54	48	43	46	45	39	93	82	64	30.38	30.30	30.38	10	10	9	13	1	-	0.00	Rain
15	55	46	37	37	34	27	86	58	34	30.25	30.18	30.25	10	10	10	20	4	22	0.00	
16	54	48	41	32	28	22	60	45	30	30.31	30.20	30.31	10	10	10	15	8	-	0.00	
17	55	45	35	30	26	21	70	50	28	30.44	30.39	30.44	10	10	10	9	3	-	0.00	
18	55	46	36	41	32	28	82	68	49	30.38	30.35	30.38	10	10	10	12	1	-	0.00	
19	57	50	43	41	38	35	86	67	45	30.33	30.29	30.33	10	8	5	10	1	-	0.00	
20	55	47	39	42	36	35	89	74	55	30.25	30.21	30.25	9	6	4	8	1	-	0.00	
21	54	46	37	43	38	36	93	80	62	30.25	30.20	30.25	6	4	3	7	2	-	0.00	
22	59	48	37	44	38	35	97	77	58	30.16	30.15	30.16	10	7	4	9	2	-	0.00	
23	57	52	46	50	43	41	89	74	57	30.08	30.05	30.08	10	9	7	17	8	25	0.06	Rain
24	54	48	41	46	45	39	97	81	61	30.28	30.15	30.28	10	10	6	10	2	-	0.11	Rain
25	53	47	41	47	39	39	100	85	64	30.29	30.18	30.29	10	8	1	22	9	33	0.64	Rain
26	54	48	41	44	40	39	96	83	57	30.09	30.02	30.09	10	10	10	14	7	-	0.05	Rain

27	57	47	37	39	38	33	97	71	40	30.02	29.96	30.02	10	10	8	12	2	-	0.00	
28	57	46	35	39	36	33	93	72	43	30.23	30.11	30.23	10	10	9	8	2	-	0.00	
29	55	49	43	45	42	39	93	77	53	30.38	30.29	30.38	10	9	4	12	3	-	0.05	Rain
30	54	48	41	39	34	28	89	60	38	30.37	30.35	30.37	10	10	10	12	3	-	0.00	
31	59	48	37	34	30	28	73	55	33	30.35	30.31	30.35	10	10	10	9	4	-	0.00	
February	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	60	46	33	40	30	28	82	61	31	30.41	30.34	30.41	10	10	10	8	1	-	0.00	
2	59	50	41	46	39	37	89	74	51	30.46	30.41	30.46	10	7	4	9	0	-	0.00	
3	66	55	44	48	41	39	89	69	46	30.40	30.34	30.40	10	9	5	9	2	-	0.00	
4	71	60	48	54	46	44	89	70	47	30.31	30.27	30.31	10	10	10	9	5	-	0.00	
5	64	55	46	53	48	46	100	86	65	30.20	30.13	30.20	10	9	7	10	0	-	0.00	
6	54	50	45	47	41	32	96	66	49	30.05	30.01	30.05	10	10	10	22	7	34	0.00	
7	55	48	41	33	27	16	65	45	25	30.01	29.94	30.01	10	10	10	20	7	24	0.00	
8	57	49	41	42	28	12	71	43	19	30.08	30.03	30.08	10	10	9	10	7	-	0.00	Rain
9	51	48	46	45	41	36	93	79	63	30.06	29.99	30.06	10	9	3	15	7	-	0.31	Rain
10	51	46	42	44	41	38	100	86	66	29.92	29.91	29.92	10	9	7	10	8	-	0.38	Rain
11	52	47	42	43	41	33	97	77	49	29.89	29.83	29.89	10	9	4	14	8	21	0.45	Rain
12	48	44	39	43	41	37	100	87	71	29.92	29.88	29.92	10	9	5	12	7	-	0.64	Rain
13	55	47	39	39	35	29	93	62	41	29.89	29.75	29.89	10	10	8	8	3	-	0.00	
14	55	48	41	44	38	37	90	78	57	30.16	30.04	30.16	10	10	9	14	2	-	0.00	
15	57	48	39	45	40	38	97	81	62	30.20	30.16	30.20	10	9	6	10	2	-	0.00	
16	60	53	46	42	40	37	80	58	42	30.20	30.16	30.20	10	10	10	12	8	21	0.00	
17	63	58	51	50	39	32	92	61	41	30.12	30.07	30.12	10	10	4	16	7	24	0.19	Rain
18	57	54	50	50	48	44	96	83	65	30.09	30.05	30.09	10	9	7	14	1	22	0.08	Rain
19	57	52	48	48	44	41	93	77	62	30.03	29.91	30.03	10	9	4	16	8	22	0.56	Rain
20	55	52	48	50	47	45	93	81	69	30.21	30.14	30.21	10	10	8	13	8	-	0.05	Rain
21	61	56	51	49	45	42	82	69	53	30.26	30.20	30.26	10	10	10	18	14	25	0.00	Rain
22	54	49	44	46	42	36	93	76	52	30.12	29.97	30.12	10	9	4	15	8	20	0.54	Rain
23	54	49	44	44	43	39	93	83	57	29.96	29.87	29.96	10	9	3	14	9	16	0.25	Rain
24	55	50	44	47	43	40	93	78	57	29.92	29.78	29.92	10	9	6	17	8	26	0.28	Rain
25	61	54	46	46	44	40	86	72	48	30.02	29.96	30.02	10	10	10	15	12	-	0.00	Rain
26	61	54	48	47	44	38	86	67	42	30.02	30.00	30.02	10	10	10	7	5	-	0.00	

27	66	55	44	45	38	30	89	58	27	30.05	29.98	30.05	10	10	10	9	0	-	0.00	
28	62	53	44	38	30	23	63	48	24	30.07	29.94	30.07	10	10	10	15	5	18	0.00	
March	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	59	49	39	46	37	31	90	68	37	30.12	30.07	30.12	10	10	9	14	4	-	0.06	Rain
2	57	52	44	50	46	39	97	79	53	30.05	30.00	30.05	10	9	5	15	6	21	0.16	Rain
3	59	49	39	49	40	35	93	78	41	29.98	29.91	29.98	10	10	6	17	4	25	0.11	Rain
4	59	54	50	53	48	48	93	83	72	29.82	29.69	29.82	10	8	3	26	15	36	0.50	Rain
5	60	55	50	54	48	48	100	91	69	29.90	29.81	29.90	10	8	2	13	2	-	0.27	Rain
6	62	58	54	54	50	47	94	76	62	30.10	29.98	30.10	10	10	9	10	4	-	0.01	Rain
7	62	54	46	53	47	45	96	82	67	30.23	30.12	30.23	10	10	10	16	2	-	0.00	
8	61	54	48	49	47	40	93	75	58	30.24	30.23	30.24	10	9	8	13	4	-	0.01	
9	59	52	45	45	40	39	83	71	53	30.11	30.01	30.11	10	10	10	16	6	17	0.00	
10	63	54	44	48	39	34	86	65	37	29.96	29.92	29.96	10	10	10	13	4	-	0.00	
11	63	53	43	50	42	39	90	75	52	30.02	29.97	30.02	10	10	9	10	2	-	0.00	
12	66	54	43	52	44	38	93	74	34	30.22	30.11	30.22	10	10	9	15	3	-	0.00	
13	61	53	45	50	44	41	93	81	64	30.23	30.20	30.23	10	10	6	10	0	-	0.00	
14	66	56	46	51	48	44	96	77	52	30.19	30.17	30.19	10	9	6	16	4	-	0.01	
15	59	52	45	48	44	41	90	75	62	30.18	30.16	30.18	10	9	7	10	4	-	0.00	
16	62	54	45	49	43	41	90	72	56	30.12	30.09	30.12	10	10	10	16	3	-	0.00	
17	66	56	46	55	47	41	100	78	46	30.17	30.13	30.17	10	10	10	20	4	-	0.00	
18	73	62	51	59	52	50	100	87	53	30.19	30.14	30.19	10	7	1	14	0	-	0.00	
19	75	62	50	59	51	48	93	73	51	30.12	30.07	30.12	10	10	10	10	2	-	0.00	
20	78	68	57	58	54	51	90	71	39	30.05	30.00	30.05	10	10	10	10	3	-	0.00	
21	63	58	53	55	53	51	94	85	72	30.08	30.03	30.08	10	9	5	14	1	-	0.00	
22	64	59	54	51	50	47	86	72	60	30.11	30.07	30.11	10	10	10	10	4	-	0.00	
23	64	60	55	52	49	47	86	74	63	30.12	30.09	30.12	10	10	8	14	4	-	0.00	
24	69	62	54	57	50	49	94	77	57	30.10	30.05	30.10	10	9	3	15	3	-	0.23	Rain
25	64	58	51	55	49	37	93	71	41	30.20	30.14	30.20	10	10	5	16	4	18	0.02	Rain
26	64	56	48	50	43	42	87	70	54	30.23	30.18	30.23	10	10	10	17	1	-	0.00	
27	69	58	46	51	45	41	89	67	36	30.22	30.16	30.22	10	10	8	16	2	-	0.00	
28	64	58	51	55	49	47	93	77	58	30.22	30.15	30.22	10	10	10	20	3	-	0.00	
29	66	58	50	53	49	48	96	82	56	30.08	30.03	30.08	10	10	10	17	4	-	0.00	

30	78	64	50	56	50	44	93	69	31	30.03	29.99	30.03	10	10	10	12	0	-	0.00	
31	75	64	54	56	50	48	93	71	40	30.06	30.02	30.06	10	10	10	18	2	-	0.00	
April	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	64	56	48	50	47	38	89	74	44	29.96	29.94	29.96	10	10	10	16	5	21	0.00	
2	59	52	46	38	37	31	71	56	38	30.04	29.99	30.04	10	10	10	15	8	22	0.00	Rain
3	57	50	43	37	33	32	68	56	39	30.10	30.04	30.10	10	10	10	15	8	-	0.00	
4	62	50	39	38	34	29	79	57	30	30.09	30.05	30.09	10	10	10	12	0	17	0.00	
5	64	52	39	45	36	31	73	60	37	30.07	30.02	30.07	10	10	10	15	3	22	0.00	
6	55	50	46	51	42	40	100	86	68	30.06	29.96	30.06	10	8	1	17	6	22	0.34	Rain
7	57	50	45	44	42	32	93	71	42	30.13	29.97	30.13	10	10	7	20	4	34	0.10	Rain
8	55	47	37	44	37	35	93	73	55	30.18	30.16	30.18	10	10	9	14	4	-	0.08	Rain
9	61	52	43	43	41	33	93	70	41	30.10	30.07	30.10	10	9	4	15	3	20	0.23	Rain
10	66	55	46	45	38	33	76	59	33	30.10	29.99	30.10	10	10	10	14	3	21	0.00	Rain
11	59	52	43	51	44	39	86	74	61	30.12	30.07	30.12	10	10	6	16	7	22	0.02	Rain
12	64	52	39	45	39	31	89	64	38	30.26	30.18	30.26	10	10	10	14	3	-	0.00	
13	57	52	44	44	41	36	83	64	47	30.26	30.26	30.26	10	10	10	10	3	17	0.00	
14	60	49	37	47	39	36	89	70	58	30.18	30.17	30.18	10	10	10	21	4	26	0.00	
15	61	51	41	46	40	38	86	71	57	30.19	30.17	30.19	10	10	10	16	0	-	0.00	
16	70	56	42	46	42	40	89	60	38	30.17	30.12	30.17	10	10	9	17	0	23	0.00	
17	71	60	48	53	46	44	83	67	41	30.22	30.19	30.22	10	10	10	13	4	-	0.00	
18	69	60	48	49	48	45	88	75	45	30.11	30.06	30.11	10	10	9	15	0	20	0.00	Rain
19	62	55	48	48	45	40	86	70	47	30.07	30.06	30.07	10	10	10	14	3	21	0.00	Rain
20	55	50	44	52	45	40	93	84	71	30.01	29.92	30.01	10	9	3	14	5	23	0.42	Rain
21	64	52	39	48	40	39	96	75	46	30.20	30.07	30.20	10	10	10	13	3	-	0.00	
22	63	54	45	51	44	42	90	75	60	30.33	30.25	30.33	10	10	10	18	2	-	0.00	
23	71	58	46	53	45	42	83	68	42	30.33	30.26	30.33	10	10	10	10	3	-	0.00	
24	80	66	50	57	49	47	86	66	42	30.17	30.11	30.17	10	10	10	13	0	-	0.00	
25	77	64	54	59	54	51	93	74	50	30.04	30.03	30.04	10	10	10	12	0	-	0.00	
26	63	56	50	54	52	47	94	84	72	30.06	30.02	30.06	10	10	9	17	6	-	0.00	
27	63	56	50	54	47	46	89	79	67	30.09	30.05	30.09	10	10	10	21	4	-	0.00	
28	64	58	51	51	47	35	89	67	37	30.13	30.07	30.13	10	10	10	20	3	23	0.00	
29	68	57	43	50	42	35	75	57	41	30.19	30.14	30.19	10	10	10	20	5	-	0.00	

30	70	60	50	58	51	44	90	75	63	30.22	30.18	30.22	10	10	9	18	2	-	0.00	
May	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	75	64	51	52	52	44	93	68	38	30.17	30.09	30.17	10	10	10	17	3	-	0.00	
2	77	65	53	45	38	30	66	36	19	30.04	30.03	30.04	10	10	10	24	8	29	0.00	
3	81	70	59	44	33	26	50	28	16	30.09	30.05	30.09	10	10	10	23	8	26	0.00	
4	82	67	52	55	43	31	81	48	15	30.10	30.06	30.10	10	10	7	16	0	-	0.00	
5	77	64	53	54	50	48	83	66	38	30.06	30.04	30.06	10	10	10	16	2	-	0.00	
6	82	68	51	56	49	43	83	56	26	30.03	29.99	30.03	10	10	10	14	1	-	0.00	
7	91	74	55	57	52	48	78	52	23	30.08	30.04	30.08	10	10	10	14	0	-	0.00	
8	91	76	62	61	55	47	78	53	23	30.04	29.98	30.04	10	10	10	14	2	-	0.00	
9	77	65	54	58	55	50	86	70	48	29.94	29.93	29.94	10	10	8	23	6	-	0.00	
10	81	68	53	59	50	49	86	66	39	29.91	29.89	29.91	10	9	7	13	2	-	0.00	
11	75	66	55	61	56	53	90	77	61	29.93	29.90	29.93	10	8	6	15	3	-	0.00	
12	69	63	55	55	53	50	88	73	58	30.01	29.91	30.01	10	9	8	15	6	-	0.00	
13	66	60	52	52	48	46	80	68	58	30.12	30.06	30.12	10	10	9	23	7	-	0.00	
14	70	60	50	51	45	43	86	67	47	30.17	30.12	30.17	10	10	10	18	2	-	0.00	
15	73	65	57	61	52	48	90	70	45	30.15	30.14	30.15	10	10	9	23	4	28	0.00	
16	77	66	55	58	56	45	93	72	34	30.14	30.08	30.14	10	10	10	18	8	-	0.00	
17	73	63	53	58	51	48	89	70	53	29.98	29.96	29.98	10	10	10	18	4	-	0.00	
18	75	64	53	58	50	49	86	68	43	29.94	29.91	29.94	10	10	9	17	4	-	0.00	
19	79	68	55	59	53	52	83	67	48	29.97	29.93	29.97	10	10	8	14	2	-	0.00	
20	82	70	59	59	56	55	90	71	42	29.98	29.96	29.98	10	9	5	13	4	-	0.00	
21	82	70	57	61	57	56	90	74	46	29.95	29.88	29.95	10	10	9	15	2	-	0.00	
22	75	66	57	59	57	56	90	78	57	30.02	29.96	30.02	10	9	4	15	4	-	0.00	
23	78	68	59	58	55	52	93	77	48	30.03	30.01	30.03	10	10	9	16	3	-	0.00	
24	73	65	57	58	54	52	87	71	46	30.04	30.01	30.04	10	10	9	15	3	-	0.00	
25	70	62	55	56	53	52	94	79	61	30.03	30.02	30.03	10	10	10	15	5	-	0.00	
26	64	60	55	54	54	52	90	80	70	30.00	29.98	30.00	10	10	7	18	5	-	0.00	
27	66	59	52	53	52	43	87	73	60	29.94	29.92	29.94	10	10	10	23	6	21	0.00	
28	69	60	50	49	44	44	83	63	49	30.01	29.96	30.01	10	10	10	15	2	21	0.00	
29	78	65	52	55	48	46	83	62	42	30.03	29.99	30.03	10	10	10	18	3	-	0.00	
30	99	78	57	61	54	48	81	48	19	29.98	29.96	29.98	10	10	10	9	3	-	0.00	

31	93	80	66	61	55	51	59	46	28	29.92	29.91	29.92	10	10	9	20	3	-	0.00	
June	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	72	65	57	60	57	50	79	69	57	29.94	29.87	29.94	10	10	10	22	5	28	0.00	
2	73	62	53	51	49	43	84	58	38	29.96	29.93	29.96	10	10	10	17	4	22	0.00	
3	73	62	51	52	44	42	80	58	33	29.94	29.91	29.94	10	10	10	20	5	23	0.00	
4	75	64	52	55	48	38	83	59	32	29.96	29.85	29.96	10	10	10	23	5	23	0.00	
5	79	66	51	54	46	43	77	55	32	30.10	30.00	30.10	10	10	10	18	4	-	0.00	
6	82	68	54	56	49	46	90	58	31	30.10	30.09	30.10	10	10	10	16	2	-	0.00	
7	88	73	60	57	51	44	78	53	25	30.05	30.02	30.05	10	10	10	16	3	-	0.00	
8	75	67	57	57	55	48	83	69	51	30.04	29.95	30.04	10	10	10	21	5	-	0.00	
9	73	64	54	56	53	47	90	72	49	30.06	30.04	30.06	10	10	10	21	7	23	0.00	
10	73	63	51	51	48	43	86	63	35	30.07	30.05	30.07	10	10	10	15	1	21	0.00	
11	72	62	55	54	53	45	89	71	44	30.10	30.07	30.10	10	10	10	22	8	25	0.00	
12	77	66	55	57	54	45	87	70	34	30.05	30.04	30.05	10	10	10	21	5	-	0.00	
13	88	71	53	54	44	33	77	52	15	29.96	29.93	29.96	10	10	10	18	2	21	0.00	
14	90	73	55	58	51	48	77	57	24	29.95	29.90	29.95	10	10	10	17	2	-	0.00	
15	79	67	55	57	54	52	87	67	43	29.96	29.94	29.96	10	10	9	16	4	-	0.00	
16	84	70	55	58	52	51	81	62	33	29.99	29.95	29.99	10	10	9	16	1	-	0.00	
17	82	68	57	59	54	52	81	62	38	30.01	29.98	30.01	10	10	10	15	3	-	0.00	
18	88	72	57	57	53	47	81	56	26	29.98	29.96	29.98	10	10	9	17	3	-	0.00	
19	87	72	61	60	55	50	75	57	32	29.92	29.89	29.92	10	10	10	18	3	-	0.00	
20	91	76	61	61	54	50	72	57	26	29.99	29.91	29.99	10	10	9	14	3	-	0.00	
21	86	74	62	61	56	54	78	62	38	30.02	29.98	30.02	10	10	10	16	3	-	0.00	
22	79	69	57	60	57	52	81	69	50	30.00	29.96	30.00	10	10	8	18	4	-	0.00	
23	72	63	54	56	52	47	90	72	55	30.03	29.98	30.03	10	10	10	22	6	-	0.00	
24	72	63	53	53	48	46	83	64	46	30.09	30.04	30.09	10	10	10	18	5	-	0.00	
25	75	65	55	55	47	46	94	70	42	30.07	30.05	30.07	10	9	5	21	3	-	0.12	Rain
26	79	68	55	56	54	48	87	64	37	30.02	29.98	30.02	10	10	10	14	2	-	0.00	
27	75	68	62	60	52	52	87	65	51	30.14	30.06	30.14	10	10	10	17	11	22	0.00	
28	73	66	57	59	59	51	88	72	51	30.19	30.14	30.19	10	10	9	17	10	-	0.00	
29	80	68	57	61	54	54	90	73	48	30.10	30.05	30.10	10	10	9	21	4	-	0.00	
30	75	67	59	58	54	51	83	70	55	30.00	29.96	30.00	10	10	10	15	2	-	0.00	

July	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	80	68	57	59	52	51	84	66	40	30.02	29.98	30.02	10	10	9	15	3	-	0.00	
2	90	74	59	60	54	50	81	58	31	29.94	29.89	29.94	10	10	10	13	0	-	0.00	
3	93	80	66	64	59	52	81	54	25	29.87	29.81	29.87	10	10	10	16	2	-	0.00	
4	82	73	63	63	60	58	81	70	52	29.95	29.89	29.95	10	9	8	13	2	-	0.00	
5	78	68	60	61	58	55	90	77	56	29.95	29.94	29.95	10	9	8	16	5	-	0.00	
6	75	66	57	59	55	54	90	73	57	29.99	29.91	29.99	10	9	0	14	4	-	0.00	
7	75	65	57	59	56	55	90	77	57	30.07	30.00	30.07	10	9	7	15	7	20	0.00	
8	73	66	60	59	57	57	90	77	59	30.10	30.06	30.10	10	9	6	16	3	-	0.00	
9	72	66	60	59	56	55	87	76	63	30.08	30.06	30.08	10	10	9	18	7	26	0.00	
10	73	66	57	56	55	51	83	67	55	30.03	30.02	30.03	10	10	10	20	7	23	0.00	
11	71	63	54	54	50	48	80	66	53	30.08	30.01	30.08	10	10	10	23	4	-	0.00	
12	70	64	57	57	52	52	84	73	61	30.12	30.07	30.12	10	10	10	15	5	21	0.00	
13	71	65	57	59	55	54	87	77	63	30.10	30.09	30.10	10	9	6	16	4	-	0.00	
14	68	60	54	54	54	51	94	79	63	30.02	30.00	30.02	10	10	9	21	5	-	0.00	
15	73	65	57	53	52	48	81	66	49	29.91	29.89	29.91	10	10	10	13	4	17	0.00	
16	68	62	57	52	50	50	82	69	57	29.99	29.91	29.99	10	10	9	15	5	20	0.00	
17	75	64	52	57	50	48	83	70	50	30.03	29.97	30.03	10	10	10	20	4	-	0.00	
18	77	64	54	57	52	50	87	72	50	30.02	30.01	30.02	10	10	10	22	3	-	0.00	
19	72	64	55	57	54	52	88	77	61	30.00	29.98	30.00	10	10	10	23	4	-	0.00	
20	71	63	55	54	51	50	84	72	53	30.02	29.98	30.02	10	10	10	18	3	23	0.00	
21	71	62	55	56	51	49	88	72	57	30.05	30.02	30.05	10	10	10	21	6	-	0.00	
22	77	66	54	59	53	52	94	75	50	29.99	29.98	29.99	10	10	10	15	4	-	0.00	
23	75	65	57	59	55	55	94	78	57	29.94	29.94	29.94	10	10	8	14	7	-	0.00	
24	75	67	57	60	57	55	94	79	57	29.88	29.87	29.88	10	9	7	18	6	-	0.00	
25	75	65	57	59	55	54	88	75	59	29.91	29.86	29.91	10	10	9	17	5	-	0.00	
26	75	66	60	60	57	55	88	76	59	29.94	29.90	29.94	10	9	8	14	5	20	0.00	
27	73	64	57	59	56	55	94	78	63	30.00	29.93	30.00	10	9	6	15	3	-	0.00	
28	77	66	57	59	55	54	90	72	52	30.04	30.00	30.04	10	9	5	17	3	-	0.00	
29	73	66	57	56	56	48	87	68	44	30.03	29.99	30.03	10	10	10	23	4	-	0.00	



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Moffett NAS, California
on Sunday, July 29, 2001

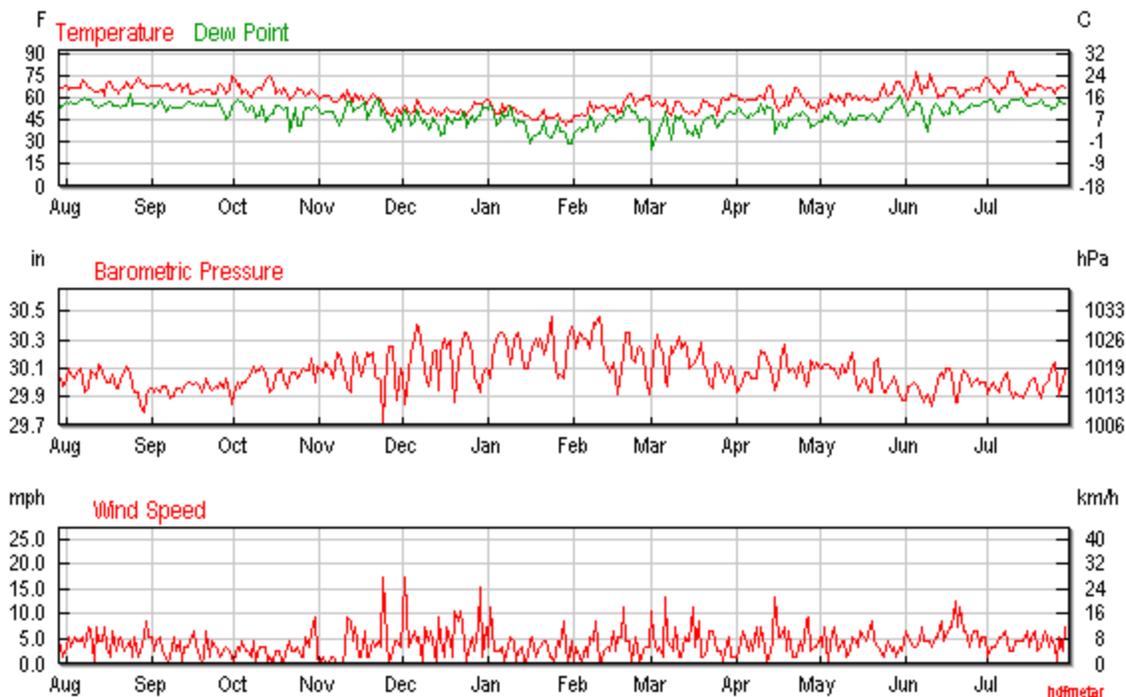
July 29, 2001

Custom Date Query - Choose two dates less than or equal to one year apart

From: To:

Summary

Temperature	Max	Avg	Min	
Max Temperature	95 °F / 35 °C	74 °F / 22 °C	46 °F / 7 °C	
Mean Temperature	77 °F / 25 °C	66 °F / 18 °C	40 °F / 4 °C	
Min Temperature	63 °F / 17 °C	58 °F / 13 °C	32 °F / 0 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	24	0	0	2481
Cooling Degree Days (base 65)	12	1	0	255
Growing Degree Days (base 50)	27	16	0	3418
Dew Point	Max	Avg	Min	
Dew Point	64 °F / 17 °C	54 °F / 12 °C	18 °F / -7 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	1.11 in / 2.8 cm	0.04 in / 0.0 cm	0.00 in / 0.0 cm	10.46 in / 26.72 cm
Snowdepth	-	-	-	-
Wind	Max	Avg	Min	
Wind	24 mph / 39 km/h	3 mph / 6 km/h	0 mph / 0 km/h	
Gust Wind	34 mph / 55 km/h	21 mph / 34 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.50 in / 1033 hPa	30.00 in / 1016 hPa	29.49 in / 999 hPa	



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Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
July																				
29	73	66	57	56	56	48	87	68	44	30.03	29.99	30.03	10	10	10	23	4	-	0.00	
30	73	66	57	59	52	51	87	69	55	30.05	30.02	30.05	10	10	10	17	3	24	0.00	
31	75	66	57	60	53	51	90	75	57	29.99	29.96	29.99	10	10	10	15	1	-	0.00	
August																				
Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	75	67	57	58	56	54	90	74	53	30.10	30.00	30.10	10	9	7	20	3	-	0.00	
2	72	64	57	59	55	54	90	76	57	30.12	30.08	30.12	10	10	10	15	5	20	0.00	
3	72	65	57	60	56	53	87	75	65	30.08	30.04	30.08	10	10	10	20	3	24	0.00	
4	73	66	61	59	55	54	82	70	57	30.05	30.02	30.05	10	10	10	20	5	-	0.00	
5	75	66	59	60	55	53	80	69	59	30.10	30.05	30.10	10	10	10	21	4	-	0.00	
6	75	66	57	61	57	55	90	78	59	30.11	30.09	30.11	10	10	10	16	4	23	0.00	

7	82	71	61	62	58	57	90	73	41	30.04	30.00	30.04	10	10	7	12	5	-	0.00	
8	79	70	62	62	59	58	87	74	56	29.93	29.91	29.93	10	10	9	16	3	-	0.00	
9	75	66	61	59	57	55	86	74	57	30.05	29.95	30.05	10	10	9	16	7	-	0.00	
10	72	66	60	57	57	53	81	69	55	30.12	30.07	30.12	10	10	10	18	6	-	0.00	
11	71	63	55	57	53	52	87	71	57	30.06	30.04	30.06	10	10	10	16	0	-	0.00	
12	70	63	55	56	54	52	88	76	61	30.09	30.02	30.09	10	10	8	17	7	-	0.00	
13	70	63	57	55	52	50	84	72	57	30.15	30.11	30.15	10	10	10	17	4	16	0.00	
14	72	64	57	58	54	53	90	78	59	30.09	30.06	30.09	10	10	9	15	4	-	0.00	
15	66	60	57	56	55	53	94	85	68	30.03	30.01	30.03	10	10	8	10	7	-	0.00	
16	79	68	57	59	55	53	90	68	43	30.01	29.98	30.01	10	9	5	12	3	-	0.00	
17	82	70	57	60	56	54	86	72	39	30.04	29.99	30.04	10	10	9	15	1	-	0.00	
18	75	65	55	58	54	54	94	73	51	30.06	30.04	30.06	10	10	10	15	6	-	0.00	
19	73	64	55	57	54	53	89	76	57	29.96	29.95	29.96	10	10	8	16	2	20	0.00	
20	71	62	54	54	53	50	90	76	53	30.02	29.95	30.02	10	10	10	20	4	-	0.00	
21	73	64	54	56	52	50	84	69	52	30.04	30.00	30.04	10	10	10	20	5	23	0.00	
22	72	66	57	59	54	53	84	71	57	30.11	30.06	30.11	10	10	10	18	2	-	0.00	
23	78	70	61	63	54	53	94	71	54	30.12	30.10	30.12	10	10	10	22	3	-	0.00	
24	73	66	59	63	61	53	94	79	59	30.06	30.05	30.06	10	10	10	16	4	-	0.00	
25	75	66	57	59	53	51	83	71	51	29.96	29.95	29.96	10	10	10	17	1	-	0.00	
26	78	68	55	59	55	53	94	77	50	29.96	29.91	29.96	10	10	9	13	5	-	0.00	
27	84	72	57	59	55	52	83	67	33	29.97	29.92	29.97	10	10	8	16	1	-	0.00	
28	82	70	57	59	55	52	87	70	36	29.85	29.82	29.85	10	10	9	17	2	-	0.00	
29	81	68	55	59	55	51	90	70	42	29.85	29.77	29.85	10	10	8	18	5	-	0.00	
30	75	65	57	56	53	51	88	68	50	29.95	29.87	29.95	10	10	10	13	8	18	0.00	
31	75	65	55	59	53	51	90	75	52	29.96	29.93	29.96	10	10	10	16	5	-	0.00	
September	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	78	67	57	60	55	49	88	73	52	29.95	29.94	29.95	10	10	10	15	5	-	0.00	
2	77	67	59	60	52	43	78	62	50	29.95	29.91	29.95	10	10	10	15	2	-	0.00	
3	77	67	57	57	54	45	87	69	32	29.97	29.95	29.97	10	10	10	12	4	-	0.00	
4	75	67	57	60	57	55	90	78	55	29.97	29.91	29.97	10	10	9	17	5	-	0.00	
5	73	65	57	56	55	44	94	68	39	29.99	29.96	29.99	10	10	8	18	2	-	0.00	
6	84	68	53	56	49	42	84	60	23	30.00	29.96	30.00	10	10	10	14	1	-	0.00	

7	80	68	55	56	51	49	90	68	39	29.95	29.92	29.95	10	10	8	14	0	-	0.00	
8	73	64	55	55	54	50	90	75	53	29.92	29.87	29.92	10	9	7	14	1	-	0.00	
9	73	64	54	54	52	50	88	70	49	29.95	29.89	29.95	10	10	10	15	5	-	0.00	
10	77	65	55	55	52	50	86	64	46	29.96	29.94	29.96	10	10	10	18	2	-	0.00	
11	75	68	59	57	52	50	75	62	44	29.96	29.94	29.96	10	10	10	18	4	-	0.00	
12	69	63	57	57	52	51	88	76	63	29.96	29.91	29.96	10	10	10	18	0	-	0.00	
13	72	65	59	58	54	54	90	77	61	30.00	29.96	30.00	10	10	10	14	3	-	0.00	
14	78	68	59	59	56	55	90	76	46	30.01	29.98	30.01	10	9	5	15	3	-	0.00	
15	68	62	59	57	56	55	90	81	70	30.02	29.98	30.02	10	10	10	17	4	-	0.00	
16	66	62	59	56	55	53	87	78	70	30.02	29.97	30.02	10	10	10	18	6	-	0.00	
17	70	63	57	58	54	53	90	78	63	30.02	29.98	30.02	10	10	9	13	3	-	0.00	
18	69	63	55	57	55	54	89	80	65	29.98	29.97	29.98	10	8	4	13	2	-	0.00	
19	72	64	55	58	54	53	90	79	59	29.96	29.91	29.96	10	8	4	12	0	-	0.00	
20	70	63	55	57	56	53	94	82	63	30.02	29.95	30.02	10	7	4	13	1	-	0.00	
21	72	64	57	57	54	53	87	77	59	30.06	30.02	30.06	10	9	5	12	6	-	0.00	
22	75	64	55	58	54	53	94	80	55	29.97	29.95	29.97	10	7	2	9	1	-	0.00	
23	69	62	57	56	54	53	93	80	68	29.97	29.93	29.97	10	9	6	12	4	-	0.00	
24	68	62	57	59	53	53	93	79	66	30.00	29.96	30.00	10	10	9	12	3	-	0.04	
25	75	65	55	59	58	53	97	76	46	30.02	29.95	30.02	10	9	1	16	2	-	0.01	
26	81	68	55	61	54	51	87	72	39	30.02	29.99	30.02	10	10	10	16	1	-	0.00	
27	73	65	57	58	50	37	94	65	32	30.01	29.94	30.01	10	10	10	14	2	20	0.01	
28	72	62	52	51	44	40	74	56	37	30.04	30.02	30.04	10	10	10	22	3	-	0.00	
29	79	64	50	57	46	44	81	60	32	29.99	29.92	29.99	10	10	10	13	2	-	0.00	
30	95	74	55	60	52	50	84	54	26	29.85	29.83	29.85	10	10	10	7	1	-	0.00	
October	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	84	72	60	60	55	53	90	62	36	29.98	29.90	29.98	10	10	10	10	0	-	0.00	
2	75	67	59	59	57	57	94	79	55	29.99	29.98	29.99	10	9	5	10	3	-	0.00	
3	78	68	57	61	56	55	94	81	46	29.99	29.95	29.99	10	7	3	13	2	-	0.00	
4	69	62	57	57	56	50	90	77	61	30.04	29.98	30.04	10	9	6	16	4	-	0.00	
5	69	64	59	52	51	50	72	66	55	30.03	29.99	30.03	10	10	10	15	2	18	0.00	
6	68	62	57	53	50	50	87	72	58	30.04	30.02	30.04	10	10	10	12	2	-	0.00	
7	66	59	54	55	53	51	90	79	65	30.12	30.06	30.12	10	10	10	15	1	-	0.00	

Rain

8	71	62	55	54	52	50	87	72	51	30.12	30.10	30.12	10	10	5	13	4	-	0.00	
9	78	64	51	52	45	36	92	60	25	30.10	30.05	30.10	10	10	10	15	0	-	0.00	
10	79	65	48	56	46	38	86	63	23	30.12	30.07	30.12	10	10	10	10	3	20	0.00	
11	75	64	55	60	53	47	90	72	46	30.14	30.10	30.14	10	10	9	16	3	-	0.00	
12	87	70	52	53	42	28	83	42	15	30.11	30.06	30.11	10	10	10	9	3	-	0.00	
13	89	72	57	53	44	39	60	39	18	30.04	29.98	30.04	10	10	10	14	0	-	0.00	
14	90	74	55	54	46	42	67	45	19	29.96	29.92	29.96	10	10	10	9	1	-	0.00	
15	82	70	55	57	48	45	87	55	28	30.04	29.94	30.04	10	10	7	10	0	-	0.00	
16	66	62	57	55	54	52	88	80	65	30.09	30.04	30.09	10	7	4	13	2	-	0.00	
17	71	64	57	55	53	51	83	72	53	30.08	30.05	30.08	10	9	8	13	2	-	0.00	
18	75	62	51	56	52	49	93	70	41	30.14	30.09	30.14	10	10	9	12	0	-	0.00	
19	79	66	53	56	51	48	84	69	44	30.06	30.01	30.06	10	9	7	7	0	-	0.00	
20	66	60	53	55	52	50	93	80	65	29.96	29.95	29.96	10	8	3	15	3	-	0.00	
21	62	57	50	49	36	30	83	44	30	30.09	30.02	30.09	10	10	10	16	4	-	0.00	
22	71	59	48	55	40	30	83	59	42	30.12	30.06	30.12	10	9	8	15	2	-	0.00	
23	70	62	52	55	52	46	90	70	49	30.10	30.05	30.10	10	10	10	14	2	-	0.01	
24	79	65	50	51	40	23	77	47	14	30.07	30.02	30.07	10	10	10	10	3	-	0.00	
25	80	64	48	49	40	32	83	51	19	30.09	30.05	30.09	10	10	10	9	1	-	0.00	
26	71	62	51	54	47	39	94	73	50	30.14	30.09	30.14	10	8	4	13	1	-	0.01	
27	66	60	53	54	52	50	94	75	56	30.08	30.07	30.08	10	8	4	14	5	-	0.00	
28	69	62	57	54	52	49	81	70	52	30.16	30.07	30.16	10	10	10	14	3	-	0.00	
29	70	64	59	55	51	50	75	66	51	30.20	30.15	30.20	10	10	10	9	6	-	0.00	Rain
30	66	62	57	59	54	51	93	75	61	30.10	29.98	30.10	10	10	3	17	9	23	0.09	Rain
31	68	60	52	54	52	49	93	76	50	30.14	30.10	30.14	10	10	9	13	1	-	0.00	
November	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	69	58	48	54	49	46	93	82	53	30.13	30.09	30.13	10	9	5	6	0	-	0.01	
2	69	60	50	55	48	46	86	74	54	30.12	30.06	30.12	10	10	10	9	1	-	0.00	
3	71	60	50	55	50	48	93	78	49	30.18	30.13	30.18	10	9	6	9	0	-	0.00	
4	71	60	50	56	49	46	93	78	49	30.12	30.09	30.12	10	10	8	10	0	-	0.01	
5	68	58	48	55	49	47	97	81	47	30.10	30.05	30.10	10	10	8	12	1	-	0.01	
6	63	56	46	50	49	41	94	76	46	30.13	30.01	30.13	10	10	9	8	1	-	0.00	
7	70	56	42	47	42	39	89	65	36	30.23	30.19	30.23	10	10	10	6	0	-	0.01	

8	73	58	44	48	40	37	76	57	30	30.23	30.18	30.23	10	10	8	7	0	-	0.00	
9	73	62	51	53	46	44	80	62	38	30.11	30.09	30.11	10	8	5	9	0	-	0.00	
10	64	58	51	57	49	47	97	83	58	30.07	30.03	30.07	10	6	3	10	2	-	0.12	Rain
11	69	64	59	58	56	53	90	75	57	30.00	29.95	30.00	10	10	9	17	9	26	0.00	Rain
12	63	58	52	59	56	50	100	88	69	30.06	29.91	30.06	10	7	1	14	8	23	1.11	Rain
13	64	56	48	54	50	48	100	80	56	30.25	30.16	30.25	10	10	5	8	4	-	0.00	Rain
14	68	61	54	57	51	50	93	79	65	30.25	30.19	30.25	10	10	10	10	7	-	0.00	Rain
15	63	57	51	56	52	50	100	92	75	30.09	30.08	30.09	10	5	0	12	1	-	0.01	Fog
16	68	60	52	57	53	52	100	91	61	30.12	30.03	30.12	10	5	1	9	1	-	0.01	
17	64	56	48	57	56	43	94	82	46	30.17	30.12	30.17	10	10	9	8	6	-	0.00	
18	66	55	44	52	44	42	93	74	48	30.25	30.19	30.25	10	10	8	7	1	-	0.00	
19	66	58	50	53	48	47	89	75	54	30.22	30.17	30.22	10	10	8	14	1	-	0.00	
20	69	62	55	57	52	52	90	79	63	30.21	30.20	30.21	10	10	10	7	4	-	0.00	
21	64	60	57	58	56	50	93	83	58	30.11	30.03	30.11	10	10	7	9	3	-	0.01	Rain
22	64	59	54	59	57	46	90	77	58	30.09	30.01	30.09	10	9	5	12	4	-	0.01	Rain
23	60	56	51	48	46	40	83	69	49	30.10	29.98	30.10	10	10	10	12	3	20	0.00	
24	61	54	46	58	51	43	100	83	69	29.92	29.70	29.92	10	8	2	24	17	34	0.90	Rain
25	54	48	42	45	42	40	97	82	66	30.25	30.14	30.25	10	10	10	7	4	-	0.01	
26	55	48	42	45	42	40	93	79	59	30.28	30.24	30.28	10	10	10	10	0	-	0.01	Rain
27	55	47	39	39	36	29	93	62	37	30.29	30.24	30.29	10	10	10	9	2	-	0.00	
28	55	50	45	47	37	34	90	65	47	30.19	30.02	30.19	10	9	5	22	4	32	0.36	Rain
29	59	52	46	52	47	42	97	85	67	30.02	29.86	30.02	10	9	2	13	4	18	0.24	Rain
30	57	48	39	46	40	38	93	75	57	30.13	30.08	30.13	10	10	10	10	3	-	0.03	Rain
December	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	55	52	48	50	45	45	93	82	76	30.05	30.03	30.05	10	9	4	18	9	28	0.15	Rain
2	60	53	46	54	51	43	94	81	60	29.98	29.83	29.98	10	8	3	24	17	31	0.90	Rain
3	54	50	45	47	45	41	97	85	69	30.15	30.04	30.15	10	10	10	9	3	-	0.04	
4	55	48	41	46	40	36	93	74	51	30.27	30.20	30.27	10	10	10	9	4	-	0.00	
5	54	49	44	52	42	40	100	84	75	30.40	30.29	30.40	10	8	1	10	6	-	0.14	Rain
6	62	58	53	54	51	51	100	86	72	30.45	30.39	30.45	10	9	4	8	4	-	0.00	
7	62	56	48	54	48	37	100	72	41	30.40	30.38	30.40	10	9	4	17	5	-	0.00	
8	59	50	42	49	41	39	93	80	62	30.26	30.20	30.26	10	8	5	20	0	25	0.00	Rain

9	54	50	45	45	44	40	89	78	62	30.11	30.05	30.11	10	10	9	20	7	25	0.10	Rain
10	57	48	39	43	37	34	89	70	53	30.03	29.96	30.03	10	10	10	14	4	22	0.00	Rain
11	55	50	44	46	38	33	82	69	42	30.11	30.02	30.11	10	10	10	12	6	-	0.00	
12	55	52	46	47	45	42	87	78	64	30.34	30.20	30.34	10	10	7	13	4	-	0.00	
13	55	47	39	48	41	38	97	82	67	30.37	30.21	30.37	10	9	6	16	0	25	0.20	Rain
14	53	50	46	49	40	34	92	68	48	30.04	29.93	30.04	10	9	4	17	9	25	0.17	Rain
15	54	46	37	35	33	27	79	58	37	30.29	30.18	30.29	10	10	10	9	4	-	0.00	
16	60	50	39	45	35	33	82	63	42	30.36	30.30	30.36	10	10	10	10	1	-	0.00	
17	57	52	48	52	46	39	100	82	63	30.29	30.23	30.29	10	9	2	13	7	-	0.10	Rain
18	55	50	44	44	42	40	89	74	55	30.34	30.28	30.34	10	10	10	12	4	-	0.00	
19	57	50	42	46	41	39	92	78	58	30.19	30.01	30.19	10	10	4	21	1	29	0.04	Rain
20	52	49	46	47	45	44	93	85	74	29.87	29.85	29.87	10	8	2	17	10	25	0.88	Rain
21	53	48	43	46	44	41	97	84	69	30.27	30.14	30.27	10	10	8	12	8	-	0.03	Rain
22	54	51	48	51	44	41	94	81	66	30.32	30.20	30.32	10	9	2	22	10	32	0.06	Rain
23	55	50	44	51	49	39	97	86	67	30.38	30.33	30.38	10	9	6	15	4	-	0.02	Rain
24	55	46	37	45	39	36	93	81	60	30.34	30.34	30.34	10	10	7	6	0	-	0.01	
25	55	50	44	47	43	42	93	83	66	30.33	30.30	30.33	10	8	6	7	2	-	0.00	
26	55	52	50	48	46	45	89	81	72	30.25	30.20	30.25	10	8	5	8	5	-	0.00	
27	66	56	46	47	42	29	93	64	26	30.05	30.01	30.05	10	9	6	13	2	23	0.07	Rain
28	59	55	51	51	46	40	90	76	49	29.98	29.96	29.98	10	10	5	17	7	29	0.55	Rain
29	59	55	51	54	46	46	97	86	78	30.04	29.92	30.04	10	9	3	17	15	24	0.20	Rain
30	57	55	53	55	54	51	100	97	78	30.10	30.03	30.10	10	6	2	13	1	18	0.27	Rain
31	64	58	51	55	52	49	97	85	70	30.14	30.09	30.14	10	10	7	10	7	-	0.00	
January	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	63	58	53	54	51	50	97	80	63	30.09	30.05	30.09	10	9	5	16	3	25	0.02	Rain
2	60	56	50	57	54	50	100	89	75	30.17	30.02	30.17	10	8	0	14	11	24	0.28	Fog , Rain
3	55	50	44	50	48	42	100	89	72	30.33	30.24	30.33	10	8	0	8	2	-	0.01	Fog
4	60	48	37	46	40	37	100	86	51	30.34	30.28	30.34	10	9	0	6	2	-	0.01	Fog
5	55	48	42	49	42	40	93	81	71	30.39	30.34	30.39	10	9	5	6	2	-	0.00	
6	62	55	48	53	50	46	97	86	70	30.38	30.33	30.38	10	6	2	8	3	-	0.01	
7	57	50	44	51	45	43	100	96	77	30.34	30.32	30.34	10	3	0	5	0	-	0.01	Fog
8	60	53	46	54	46	45	100	90	69	30.23	30.21	30.23	10	6	1	10	3	-	0.01	

9	59	54	48	54	53	45	97	87	72	30.24	30.11	30.24	10	9	6	12	5	-	0.00	
10	61	52	42	50	44	42	100	86	62	30.35	30.27	30.35	10	8	0	8	4	-	0.01	Fog
11	60	50	39	47	40	38	93	78	55	30.36	30.32	30.36	10	9	6	7	0	-	0.00	
12	52	48	43	49	44	42	97	93	82	30.39	30.34	30.39	6	3	1	9	2	-	0.01	
13	59	49	39	46	43	36	100	82	45	30.21	30.17	30.21	10	7	0	9	3	-	0.01	Fog
14	51	47	43	45	42	38	93	84	68	30.11	30.08	30.11	10	8	4	9	0	-	0.00	
15	54	46	37	38	33	28	86	59	38	30.14	30.09	30.14	10	10	10	10	1	-	0.00	
16	53	45	37	33	28	26	73	54	38	30.24	30.17	30.24	10	10	10	13	4	-	0.00	
17	51	44	36	40	32	26	86	72	62	30.28	30.22	30.28	10	8	5	15	5	18	0.00	
18	55	44	34	37	33	29	92	69	37	30.35	30.30	30.35	10	9	7	10	1	-	0.01	
19	55	44	34	41	35	30	85	71	49	30.29	30.24	30.29	10	10	10	10	2	17	0.00	
20	55	46	36	44	35	27	87	74	33	30.34	30.29	30.34	10	10	9	13	3	-	0.00	
21	57	51	43	50	42	37	90	78	64	30.25	30.18	30.25	10	9	3	13	4	22	0.02	Rain
22	50	44	37	36	34	31	79	67	48	30.29	30.22	30.29	10	10	10	15	4	-	0.00	
23	54	45	36	35	32	28	86	63	41	30.46	30.36	30.46	10	10	10	9	1	-	0.01	
24	55	45	35	42	32	29	82	66	42	30.49	30.45	30.49	10	10	10	8	1	-	0.00	
25	53	45	37	42	34	33	86	72	52	30.32	30.17	30.32	10	10	10	6	0	-	0.00	
26	53	48	44	49	42	38	100	88	68	30.04	30.01	30.04	10	8	2	16	4	22	0.21	Rain
27	50	44	37	41	36	26	97	73	39	30.05	30.04	30.05	10	10	10	10	3	-	0.00	
28	48	42	37	38	36	30	96	80	52	30.10	30.01	30.10	10	9	6	9	8	-	0.13	Rain
29	46	40	35	36	35	30	100	78	52	30.24	30.14	30.24	10	10	10	14	3	-	0.00	
30	51	42	32	32	28	23	89	62	36	30.36	30.29	30.36	10	10	10	7	0	-	0.01	
31	53	43	33	32	28	27	79	63	41	30.43	30.38	30.43	10	10	10	9	4	-	0.00	
February	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	55	46	36	41	33	32	86	69	47	30.40	30.33	30.40	10	8	5	8	0	-	0.00	
2	55	46	36	45	36	32	89	78	53	30.32	30.23	30.32	10	8	5	12	3	-	0.00	
3	57	47	37	47	38	36	97	86	58	30.42	30.33	30.42	10	7	1	7	1	-	0.00	
4	60	48	35	44	36	32	93	76	51	30.36	30.31	30.36	10	9	6	7	0	-	0.01	
5	57	47	37	46	38	34	89	75	58	30.32	30.29	30.32	10	10	7	8	3	-	0.00	
6	59	48	37	47	39	35	89	78	58	30.31	30.26	30.31	10	9	5	12	1	-	0.00	
7	62	56	50	55	47	45	94	81	70	30.34	30.23	30.34	10	9	2	15	5	21	0.23	Rain
8	57	49	41	45	41	35	96	71	47	30.45	30.40	30.45	10	10	10	10	4	-	0.01	

9	63	54	44	46	36	29	85	59	37	30.43	30.39	30.43	10	10	10	15	8	-	0.00	
10	64	52	39	48	41	37	93	71	44	30.50	30.45	30.50	10	10	8	9	0	-	0.00	
11	64	53	42	46	40	38	85	69	48	30.45	30.35	30.45	10	9	7	7	0	-	0.02	
12	66	54	41	50	41	36	90	69	33	30.22	30.14	30.22	10	10	9	9	2	-	0.00	Rain
13	55	50	46	49	46	45	93	90	77	30.13	30.10	30.13	10	9	6	8	3	-	0.01	Rain
14	61	52	44	50	48	43	100	86	62	30.12	30.06	30.12	9	6	1	12	2	-	0.00	
15	57	52	48	46	46	41	83	70	57	30.18	30.13	30.18	10	10	10	8	6	-	0.00	
16	61	54	46	47	43	42	93	75	50	30.17	30.02	30.17	10	10	7	13	2	22	0.15	Rain
17	53	48	44	45	44	41	93	82	64	30.04	29.90	30.04	10	10	6	10	5	-	0.28	Rain
18	57	50	44	46	45	41	93	75	55	30.17	30.07	30.17	10	10	10	9	5	-	0.01	Rain
19	60	55	50	55	46	43	94	83	71	30.31	30.18	30.31	10	9	2	14	11	21	0.18	Rain
20	64	58	53	55	52	51	96	82	67	30.39	30.33	30.39	10	10	10	13	4	-	0.00	
21	69	61	53	59	53	52	100	84	63	30.36	30.34	30.36	10	7	2	8	4	-	0.00	
22	72	61	50	56	50	46	96	78	45	30.25	30.15	30.25	10	9	6	16	0	25	0.01	
23	57	54	50	50	49	43	88	75	58	30.23	30.13	30.23	10	10	10	15	5	-	0.00	Rain
24	64	56	48	50	45	44	86	73	52	30.26	30.23	30.26	10	10	10	10	3	-	0.00	
25	71	58	45	47	43	35	90	61	28	30.28	30.24	30.28	10	10	10	8	0	-	0.00	
26	70	58	45	51	44	39	82	63	43	30.26	30.19	30.26	10	10	10	8	2	-	0.00	
27	73	60	48	49	45	38	83	56	30	30.07	30.01	30.07	10	10	10	14	3	-	0.00	Rain
28	73	60	46	50	42	36	77	57	28	29.96	29.90	29.96	10	10	10	10	3	-	0.00	
March	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	64	54	45	41	23	18	62	32	22	30.07	30.00	30.07	10	10	10	17	10	25	0.00	
2	66	54	43	35	28	22	62	40	24	30.29	30.18	30.29	10	10	10	21	5	25	0.00	
3	69	56	43	41	33	31	68	46	27	30.37	30.32	30.37	10	10	10	13	2	-	0.00	
4	66	55	44	46	37	33	77	56	37	30.33	30.24	30.33	10	10	10	14	3	-	0.00	
5	64	54	44	51	42	40	85	72	52	30.22	30.19	30.22	10	10	9	14	1	-	0.01	Rain
6	61	58	52	54	49	48	94	77	62	30.10	30.00	30.10	10	9	2	15	13	-	0.08	Rain
7	55	50	45	52	41	23	93	77	40	30.14	29.96	30.14	10	9	3	15	4	28	0.10	Rain
8	55	46	37	35	30	25	73	54	35	30.29	30.24	30.29	10	10	10	9	3	-	0.00	
9	62	50	39	44	36	29	79	56	30	30.23	30.20	30.23	10	10	10	14	2	-	0.00	
10	61	56	50	52	46	41	96	79	48	30.32	30.22	30.32	10	9	3	12	7	-	0.10	Rain
11	64	56	48	51	44	42	83	73	52	30.35	30.31	30.35	10	10	10	16	1	-	0.00	

12	60	54	48	52	46	33	93	76	47	30.25	30.22	30.25	10	10	10	15	1	21	0.00	
13	55	50	46	41	40	34	80	63	47	30.31	30.27	30.31	10	10	10	20	5	25	0.00	
14	57	50	43	38	35	30	74	56	36	30.28	30.23	30.28	10	10	10	14	4	18	0.00	
15	55	48	41	37	36	34	80	62	44	30.15	30.09	30.15	10	10	10	16	4	25	0.00	
16	55	50	45	38	33	29	71	57	37	30.21	30.11	30.21	10	10	10	16	11	25	0.00	
17	50	46	41	43	40	35	93	81	57	30.20	30.12	30.20	10	9	3	18	3	24	0.53	Rain
18	60	50	41	41	32	26	82	54	31	30.28	30.20	30.28	10	10	10	13	8	-	0.00	
19	66	52	39	47	37	31	80	60	36	30.30	30.27	30.30	10	10	10	13	1	-	0.00	
20	70	58	46	48	42	38	79	62	37	30.22	30.13	30.22	10	10	10	9	1	-	0.00	
21	64	56	48	50	45	42	83	71	58	30.09	30.05	30.09	10	10	8	17	2	-	0.00	
22	57	54	52	53	45	43	87	76	59	29.99	29.97	29.99	10	10	8	14	6	21	0.15	Rain
23	60	54	48	51	46	45	97	84	62	30.09	29.94	30.09	10	9	2	15	6	-	0.36	Rain
24	59	52	46	45	43	39	83	70	53	30.15	30.10	30.15	10	10	10	17	4	-	0.00	Rain
25	55	47	39	44	38	37	89	73	62	30.14	30.13	30.14	10	10	10	13	2	-	0.00	
26	66	56	46	49	43	39	86	64	43	30.12	30.08	30.12	10	10	10	13	2	-	0.00	Rain
27	72	59	46	51	43	39	80	64	38	30.05	30.02	30.05	10	10	10	15	0	-	0.00	
28	66	57	48	53	47	42	90	74	54	30.00	29.98	30.00	10	10	8	15	2	-	0.00	
29	66	58	50	55	49	47	94	82	60	30.11	30.04	30.11	10	8	4	14	5	-	0.00	Rain
30	73	62	50	54	50	48	96	78	49	30.14	30.10	30.14	10	6	2	13	1	-	0.00	
31	71	60	48	57	48	46	97	83	53	30.04	30.02	30.04	10	8	2	12	1	-	0.00	
April	Temperature		Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events	
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	70	60	50	56	49	46	94	81	57	29.94	29.92	29.94	10	8	4	14	1	-	0.01	
2	64	58	53	55	52	50	93	81	67	29.98	29.93	29.98	10	7	3	13	2	-	0.00	
3	63	58	53	52	48	47	80	73	65	30.05	29.99	30.05	10	10	10	15	6	-	0.00	
4	59	56	53	49	47	45	80	73	62	30.10	30.05	30.10	10	10	10	9	5	-	0.00	
5	63	58	52	50	45	45	80	68	58	30.10	30.06	30.10	10	10	10	13	2	16	0.00	
6	64	58	50	50	48	46	86	72	56	30.04	30.02	30.04	10	10	10	16	4	-	0.00	
7	66	58	50	54	46	44	89	76	56	30.05	30.02	30.05	10	10	10	15	2	-	0.00	
8	64	58	53	53	50	48	88	79	63	30.12	30.01	30.12	10	9	6	14	7	-	0.00	
9	66	60	53	56	50	48	88	77	63	30.22	30.13	30.22	10	10	10	12	3	-	0.00	
10	66	60	53	56	55	48	96	79	63	30.26	30.21	30.26	10	10	7	16	7	-	0.00	Rain
11	68	58	51	57	48	47	93	79	59	30.23	30.20	30.23	10	10	10	15	3	-	0.00	

12	78	66	54	55	54	44	97	74	38	30.17	30.14	30.17	10	9	6	14	0	16	0.00	
13	81	67	54	61	52	50	93	75	45	30.14	30.08	30.14	10	10	10	14	2	-	0.00	
14	75	62	48	61	51	35	93	72	44	30.04	30.01	30.04	10	10	10	16	4	24	0.00	
15	63	55	46	40	35	34	71	58	41	30.04	29.93	30.04	10	10	10	20	13	31	0.00	
16	59	50	43	47	40	36	86	64	44	30.07	30.02	30.07	10	10	8	14	5	-	0.05	Rain
17	59	52	46	46	42	34	90	64	44	30.26	30.14	30.26	10	10	5	16	5	18	0.03	Rain
18	62	54	46	42	38	34	76	60	35	30.27	30.25	30.27	10	10	10	16	7	22	0.00	
19	71	60	46	48	38	34	86	53	27	30.19	30.13	30.19	10	10	9	15	2	21	0.00	
20	64	54	44	50	45	42	93	73	53	30.10	30.05	30.10	10	10	8	20	6	20	0.00	
21	71	59	48	52	44	43	83	69	49	30.10	30.08	30.10	10	10	9	14	1	-	0.00	
22	80	65	48	49	46	44	80	56	30	30.10	30.07	30.10	10	10	10	15	1	-	0.00	
23	79	65	52	58	48	43	84	63	33	30.11	30.02	30.11	10	10	9	16	1	-	0.00	
24	72	60	51	51	46	45	89	66	44	30.17	30.13	30.17	10	10	8	16	4	-	0.00	
25	68	59	51	52	50	45	86	74	51	30.16	30.08	30.16	10	10	10	16	2	22	0.00	
26	55	53	52	46	46	43	82	76	64	29.98	29.96	29.98	10	10	8	18	8	24	0.00	
27	62	56	48	47	45	36	89	68	42	30.12	29.99	30.12	10	9	3	15	9	21	0.01	Rain
28	63	52	42	40	38	34	82	58	38	30.18	30.14	30.18	10	10	10	16	2	-	0.00	
29	60	52	46	45	40	35	86	66	51	30.14	30.08	30.14	10	10	7	17	3	-	0.15	Rain
30	59	49	41	49	41	38	89	72	59	30.14	30.12	30.14	10	10	10	13	3	-	0.00	Rain
May	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	64	57	48	47	42	41	74	64	54	30.10	30.08	30.10	10	10	10	16	5	-	0.00	Rain
2	62	54	45	49	43	41	87	73	62	30.12	30.09	30.12	10	10	10	21	3	-	0.00	
3	62	56	48	49	46	45	83	73	60	30.15	30.11	30.15	10	10	10	17	7	-	0.00	
4	68	55	45	54	44	43	93	78	59	30.14	30.11	30.14	10	10	9	14	0	-	0.00	
5	73	62	51	54	49	43	89	72	44	30.13	30.08	30.13	10	9	6	21	4	-	0.00	
6	66	58	50	49	46	40	89	64	42	30.12	30.09	30.12	10	10	10	21	7	-	0.00	
7	64	56	48	47	42	41	77	63	46	30.06	30.04	30.06	10	10	10	17	4	-	0.00	
8	75	60	46	49	41	26	83	55	17	30.11	30.02	30.11	10	10	10	17	2	-	0.00	
9	66	56	48	44	43	38	80	58	38	30.13	30.11	30.13	10	10	10	22	4	24	0.00	
10	66	54	45	43	40	36	80	56	35	30.07	30.05	30.07	10	10	10	17	4	23	0.00	
11	79	62	46	50	41	40	86	58	28	30.13	30.05	30.13	10	10	10	18	1	-	0.00	Rain
12	73	61	50	52	48	42	86	67	44	30.19	30.15	30.19	10	10	10	13	2	-	0.00	

13	66	58	48	49	44	42	86	65	45	30.22	30.19	30.22	10	10	10	20	5	20	0.00	
14	70	60	48	52	44	44	80	67	49	30.11	29.99	30.11	10	10	10	22	4	-	0.00	
15	70	58	48	53	47	45	86	70	53	29.97	29.93	29.97	10	10	9	18	3	-	0.00	
16	68	58	51	52	47	38	83	66	44	30.04	29.97	30.04	10	10	9	22	6	-	0.00	
17	70	60	48	54	46	44	83	65	47	30.04	30.02	30.04	10	10	10	20	5	23	0.00	
18	66	57	48	47	44	39	80	63	39	30.01	29.99	30.01	10	10	10	21	4	24	0.00	
19	64	58	50	55	46	42	81	67	52	29.94	29.91	29.94	10	10	10	14	7	17	0.02	Rain
20	61	56	52	50	48	45	89	72	58	30.03	29.92	30.03	10	9	4	13	8	-	0.21	Rain
21	66	58	48	48	47	43	86	69	46	30.22	30.13	30.22	10	10	10	14	4	-	0.01	Rain
22	68	57	44	49	43	37	83	63	45	30.21	30.15	30.21	10	10	10	22	3	-	0.00	
23	78	62	46	51	42	37	68	51	30	30.07	30.01	30.07	10	10	10	16	2	18	0.00	Rain
24	82	68	53	56	48	43	84	61	26	29.94	29.92	29.94	10	10	10	16	1	-	0.00	
25	71	62	54	55	52	50	87	74	57	29.98	29.92	29.98	10	10	8	17	3	-	0.00	
26	69	60	53	54	51	49	88	76	59	30.00	29.96	30.00	10	9	6	17	4	-	0.00	
27	70	62	55	56	52	51	89	76	61	30.05	29.99	30.05	10	10	10	20	2	-	0.00	
28	71	64	59	58	55	54	90	77	63	30.06	30.03	30.06	10	10	10	22	3	23	0.00	
29	82	70	60	64	56	55	87	72	50	30.04	29.98	30.04	10	10	10	15	1	-	0.00	
30	77	69	59	62	60	54	90	75	59	29.90	29.89	29.90	10	10	10	18	3	-	0.00	
31	75	66	55	58	55	53	90	75	55	29.88	29.86	29.88	10	10	8	15	2	-	0.00	
June	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	70	60	54	52	50	46	83	71	52	29.97	29.86	29.97	10	10	10	16	6	21	0.00	
2	68	58	51	53	47	46	83	70	56	29.98	29.96	29.98	10	10	10	20	5	24	0.00	Rain
3	73	62	51	55	49	47	86	71	53	30.01	29.96	30.01	10	10	10	20	4	-	0.00	
4	80	67	55	60	51	49	81	66	40	30.01	29.98	30.01	10	10	10	16	3	-	0.00	
5	91	76	61	63	56	56	84	66	33	30.00	29.97	30.00	10	10	10	18	3	-	0.00	
6	77	66	57	57	55	48	87	66	46	29.93	29.91	29.93	10	10	9	18	4	-	0.00	
7	73	62	53	54	49	47	83	66	44	29.88	29.87	29.88	10	9	8	23	7	-	0.00	
8	81	67	54	51	44	30	80	51	19	29.88	29.84	29.88	10	9	8	22	4	28	0.00	
9	81	66	51	42	36	29	66	36	16	29.94	29.90	29.94	10	10	10	17	4	25	0.00	
10	89	75	61	56	44	40	61	38	20	29.86	29.85	29.86	10	10	10	13	4	17	0.00	
11	81	70	57	59	51	46	87	60	43	29.93	29.82	29.93	10	10	8	18	3	-	0.00	
12	72	64	55	57	55	52	94	79	57	30.01	29.93	30.01	10	9	7	20	5	-	0.00	

13	66	59	54	54	53	48	87	77	63	30.06	30.00	30.06	10	10	9	20	5	-	0.00	
14	69	60	53	51	48	45	80	67	51	30.07	30.05	30.07	10	10	10	22	8	-	0.00	
15	69	60	50	54	47	45	80	68	56	30.06	30.01	30.06	10	10	10	22	4	-	0.00	
16	77	64	51	55	49	46	83	63	43	30.12	30.08	30.12	10	10	10	20	5	-	0.00	
17	77	65	54	57	48	47	84	65	37	30.11	30.08	30.11	10	10	10	21	7	21	0.00	
18	73	66	60	59	56	56	90	77	59	30.06	30.04	30.06	10	10	10	21	7	-	0.00	
19	75	65	55	58	54	50	81	62	48	29.88	29.84	29.88	10	10	10	21	12	-	0.00	
20	70	61	53	53	51	47	89	68	51	29.95	29.85	29.95	10	10	10	20	7	-	0.00	
21	64	59	54	51	48	48	80	69	58	30.09	29.96	30.09	10	10	9	20	11	23	0.00	
22	66	60	55	55	50	50	84	73	63	30.11	30.07	30.11	10	10	10	17	6	-	0.00	
23	73	64	52	57	51	50	90	72	55	30.08	30.06	30.08	10	10	10	23	6	-	0.00	
24	73	64	55	58	52	52	94	76	57	30.01	30.00	30.01	10	10	10	14	3	-	0.00	
25	75	66	57	58	55	54	94	80	52	30.00	29.96	30.00	10	9	7	18	5	20	0.00	
26	75	64	55	58	54	51	94	74	57	30.03	29.98	30.03	10	10	8	21	6	28	0.00	
27	75	65	55	60	54	51	88	74	63	30.02	30.02	30.02	10	10	10	20	6	-	0.00	
28	73	63	55	56	53	49	88	68	47	29.99	29.97	29.99	10	10	10	21	3	18	0.00	
29	81	68	57	62	55	54	94	74	52	30.03	29.98	30.03	10	10	10	21	5	22	0.00	
30	84	72	59	61	56	55	86	65	38	30.01	29.98	30.01	10	10	10	20	5	-	0.00	
July	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	86	72	61	61	56	55	84	66	39	29.96	29.90	29.96	10	10	10	13	1	-	0.00	
2	77	68	59	59	58	55	90	77	52	30.00	29.96	30.00	10	10	9	18	3	-	0.00	
3	73	66	57	57	56	49	90	71	51	30.04	29.99	30.04	10	9	8	17	3	21	0.00	
4	73	65	55	56	51	49	81	67	45	29.96	29.95	29.96	10	10	6	18	3	-	0.00	
5	71	62	54	57	50	50	86	70	55	29.99	29.92	29.99	10	10	8	17	5	-	0.00	
6	75	66	55	56	52	48	87	65	40	30.03	29.97	30.03	10	10	10	23	5	23	0.00	
7	75	66	57	61	54	47	78	67	58	30.13	30.04	30.13	10	10	10	21	6	-	0.00	
8	87	70	54	59	52	50	86	62	35	30.12	30.05	30.12	10	10	10	14	4	-	0.00	
9	93	77	61	61	56	53	78	56	27	29.97	29.95	29.97	10	10	10	17	2	-	0.00	
10	90	77	63	63	58	55	84	60	33	29.92	29.88	29.92	10	10	10	13	2	-	0.00	
11	81	70	61	63	57	56	87	74	54	29.92	29.91	29.92	10	10	10	14	4	-	0.00	
12	81	70	61	63	58	57	90	75	54	29.91	29.89	29.91	10	10	8	14	4	-	0.00	
13	75	68	59	61	59	56	90	78	55	29.92	29.89	29.92	10	10	9	17	4	-	0.00	

14	73	64	57	59	56	52	94	73	57	29.91	29.88	29.91	10	10	9	15	4	-	0.00
15	68	60	55	56	53	52	90	77	66	29.99	29.93	29.99	10	10	9	17	6	-	0.00
16	75	65	57	58	53	51	94	76	55	30.00	29.97	30.00	10	10	10	18	3	-	0.00
17	73	64	57	58	54	52	87	73	59	30.04	30.00	30.04	10	9	7	20	5	-	0.00
18	73	64	57	58	55	53	88	75	57	30.06	30.02	30.06	10	10	10	16	6	-	0.00
19	79	68	57	61	55	53	88	71	50	29.97	29.94	29.97	10	10	10	15	2	-	0.00
20	78	67	59	60	57	55	87	74	56	29.95	29.88	29.95	10	10	10	16	3	-	0.00
21	75	65	57	57	55	53	88	70	55	29.99	29.94	29.99	10	10	10	18	5	-	0.00
22	72	64	57	56	54	52	81	66	55	29.99	29.97	29.99	10	10	10	20	6	-	0.00
23	75	65	57	55	54	50	88	70	50	30.07	30.00	30.07	10	10	10	21	3	-	0.00
24	73	66	57	55	51	50	84	69	51	30.13	30.09	30.13	10	10	9	17	5	-	0.00
25	69	62	55	56	52	50	88	76	63	30.14	30.13	30.14	10	10	10	20	3	-	0.00
26	75	66	57	59	53	53	88	72	54	30.06	30.00	30.06	10	10	10	12	0	-	0.00
27	77	66	57	59	57	54	90	76	53	29.96	29.89	29.96	10	10	9	15	5	-	0.00
28	77	67	59	57	55	53	87	69	52	30.09	30.00	30.09	10	10	10	14	2	-	0.00
29	72	66	61	58	55	52	84	72	61	30.08	30.07	30.08	10	10	10	17	7	-	0.00



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Moffett NAS, California
on Monday, July 29, 2002

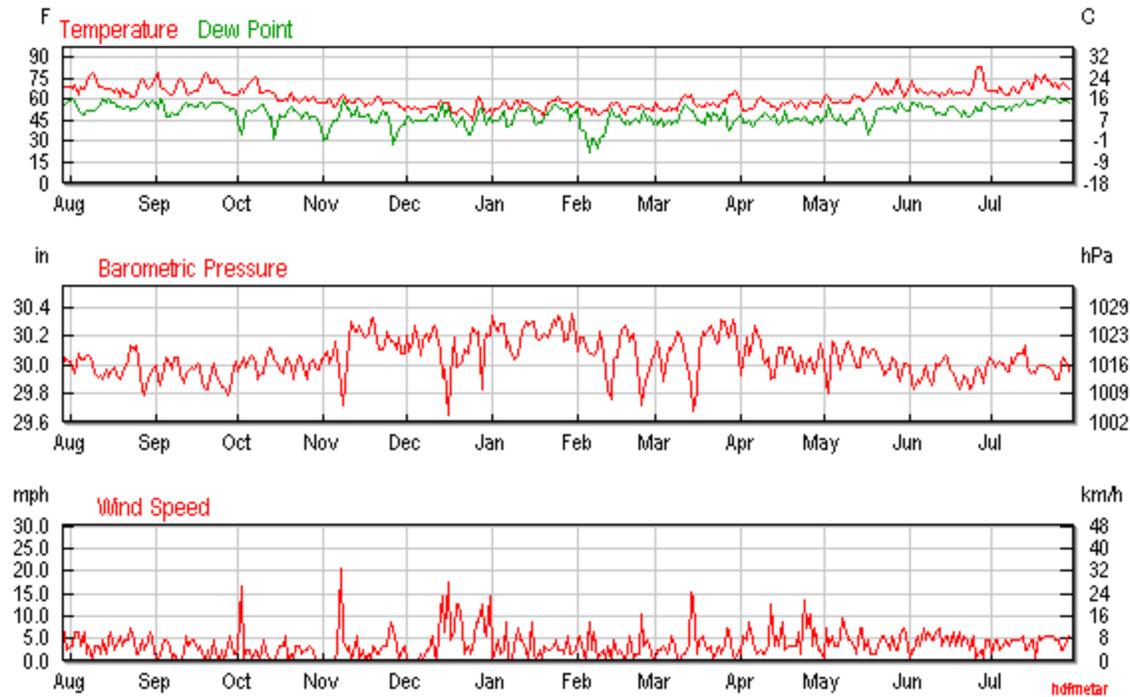
July 29, 2002

Custom Date Query - Choose two dates less than or equal to one year apart

From: To:

Summary

	Max	Avg	Min	
Temperature				
Max Temperature	100 °F / 37 °C	78 °F / 27 °C	52 °F / 11 °C	
Mean Temperature	82 °F / 27 °C	69 °F / 20 °C	44 °F / 6 °C	
Min Temperature	66 °F / 18 °C	58 °F / 15 °C	35 °F / 1 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	20	0	0	2287
Cooling Degree Days (base 65)	18	5	0	439
Growing Degree Days (base 50)	32	19	0	3684
Dew Point	Max	Avg	Min	
Dew Point	71 °F / 21 °C	54 °F / 12 °C	15 °F / -9 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	1.25 in / 3.2 cm	0.06 in / 0.0 cm	0.00 in / 0.0 cm	14.83 in / 37.76 cm
Snowdepth	-	-	-	-
Wind	Max	Avg	Min	
Wind	31 mph / 50 km/h	4 mph / 6 km/h	0 mph / 0 km/h	
Gust Wind	43 mph / 69 km/h	21 mph / 37 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.39 in / 1029 hPa	29.97 in / 1016 hPa	29.54 in / 1000 hPa	



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Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
July																				
29	72	66	61	58	55	52	84	72	61	30.08	30.07	30.08	10	10	10	17	7	-	0.00	
30	77	68	60	60	55	54	88	74	56	30.03	30.01	30.03	10	10	10	17	5	-	0.00	
31	75	68	61	58	57	55	87	71	55	30.04	30.02	30.04	10	9	7	15	2	-	0.00	
August																				
	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	73	68	62	62	58	57	87	76	66	30.02	30.01	30.02	10	9	6	17	3	-	0.00	
2	73	67	63	61	59	57	94	78	66	29.95	29.95	29.95	10	10	10	16	3	-	0.00	
3	79	69	57	58	56	51	83	67	45	30.05	29.93	30.05	10	10	8	14	6	-	0.00	
4	71	62	54	55	50	49	80	67	52	30.11	30.06	30.11	10	9	6	18	6	-	0.00	
5	81	68	57	55	49	36	83	56	26	30.04	30.02	30.04	10	9	7	18	3	24	0.00	
6	77	66	53	55	48	45	78	57	36	30.05	30.02	30.05	10	10	10	21	6	-	0.00	

7	87	70	54	56	50	48	78	56	30	30.09	30.05	30.09	10	10	8	16	1	-	0.00	
8	93	75	57	57	50	41	72	47	16	30.09	30.05	30.09	10	10	8	16	3	-	0.00	
9	96	78	61	57	50	43	54	39	17	30.02	29.99	30.02	10	10	10	16	0	-	0.00	
10	90	76	63	59	50	42	75	50	19	29.94	29.92	29.94	10	10	9	14	3	-	0.00	
11	80	68	57	59	54	52	84	69	45	29.95	29.90	29.95	10	10	7	12	3	-	0.00	
12	78	68	57	59	55	53	90	72	50	29.94	29.91	29.94	9	7	4	12	1	-	0.00	
13	75	68	60	61	59	56	93	77	56	29.95	29.88	29.95	10	7	4	14	4	-	0.00	
14	75	66	60	60	57	56	88	76	62	29.95	29.95	29.95	10	8	5	14	1	-	0.00	
15	73	67	61	61	59	57	87	75	62	29.93	29.90	29.93	10	9	7	14	4	-	0.00	
16	73	66	61	60	57	56	88	76	61	29.99	29.94	29.99	10	9	5	16	6	-	0.00	
17	69	64	59	57	57	54	87	74	61	30.00	29.96	30.00	10	8	5	16	2	21	0.00	
18	73	66	59	59	54	53	83	72	59	29.92	29.91	29.92	10	7	4	17	3	-	0.00	
19	68	60	55	54	54	50	84	72	61	29.94	29.89	29.94	10	7	4	20	5	-	0.00	
20	82	67	55	57	52	45	86	66	30	29.97	29.92	29.97	10	9	6	17	3	-	0.00	
21	72	63	55	57	52	50	88	74	56	30.00	29.95	30.00	10	10	7	20	4	23	0.00	
22	70	63	55	54	53	50	84	72	55	30.12	30.02	30.12	10	9	7	20	4	-	0.00	
23	64	60	55	54	51	50	88	76	64	30.17	30.12	30.17	10	10	2	15	7	-	0.00	
24	66	60	55	55	52	50	88	76	65	30.14	30.09	30.14	10	9	8	16	4	-	0.00	
25	71	62	55	57	52	52	88	77	63	30.14	30.12	30.14	10	10	10	16	1	-	0.00	
26	82	68	55	59	54	52	89	68	40	30.10	30.02	30.10	10	10	10	13	1	-	0.00	
27	91	74	57	59	56	51	83	60	27	29.91	29.82	29.91	10	10	10	15	4	-	0.00	
28	79	70	61	60	58	55	84	70	52	29.87	29.77	29.87	10	10	8	16	2	-	0.00	
29	75	67	59	59	54	54	87	75	55	29.92	29.88	29.92	10	9	7	17	4	21	0.00	
30	75	68	61	59	57	55	87	75	59	29.94	29.91	29.94	10	9	6	15	6	-	0.00	
31	79	69	60	61	58	56	90	73	48	30.01	29.95	30.01	10	7	4	13	4	-	0.00	
September	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	93	76	60	62	57	53	81	59	27	30.02	29.98	30.02	10	10	10	13	0	-	0.00	
2	93	78	63	62	52	42	76	51	19	29.93	29.89	29.93	10	10	10	15	0	-	0.00	
3	75	68	61	61	59	57	90	77	57	29.92	29.84	29.92	10	10	8	15	1	-	0.00	
4	73	66	57	57	53	42	87	61	41	30.04	29.96	30.04	10	10	9	21	4	21	0.00	
5	75	65	55	49	46	44	72	52	35	30.09	30.04	30.09	10	10	10	18	4	-	0.00	
6	73	62	53	52	46	44	81	62	38	30.00	29.99	30.00	10	10	10	20	3	-	0.00	

7	71	62	52	56	49	48	84	70	53	30.02	29.95	30.02	10	10	10	18	0	-	0.00	
8	79	64	51	56	48	45	83	62	39	30.09	30.04	30.09	10	10	10	14	1	-	0.00	
9	90	72	53	55	48	43	77	52	19	30.08	30.03	30.08	10	10	9	13	0	-	0.00	
10	88	73	57	60	50	44	81	50	22	29.96	29.91	29.96	10	10	10	13	0	-	0.00	
11	80	70	57	59	55	52	87	71	38	29.91	29.86	29.91	10	10	10	12	1	-	0.00	
12	70	64	57	57	56	54	90	79	61	29.97	29.92	29.97	10	9	4	14	5	-	0.00	
13	68	62	57	56	54	54	90	78	68	29.99	29.94	29.99	10	9	6	14	3	-	0.00	
14	73	64	57	58	55	54	89	78	61	29.99	29.96	29.99	10	9	7	16	4	-	0.00	
15	75	65	55	58	53	53	87	71	53	30.00	29.95	30.00	10	10	10	18	4	17	0.00	
16	73	65	57	57	53	53	88	73	51	30.04	29.99	30.04	10	10	10	16	2	24	0.00	
17	80	68	57	58	56	53	90	72	42	29.98	29.96	29.98	10	10	10	18	3	23	0.00	
18	88	72	57	59	57	52	93	62	31	29.90	29.86	29.90	10	10	9	14	1	-	0.00	
19	93	78	61	59	52	45	67	50	19	29.86	29.81	29.86	10	10	10	13	0	-	0.00	
20	89	76	62	58	54	47	70	52	24	29.87	29.82	29.87	10	10	9	14	2	-	0.00	
21	80	70	57	61	55	49	81	65	43	29.97	29.90	29.97	10	10	10	12	0	-	0.00	
22	80	70	59	59	57	53	90	71	43	30.04	29.99	30.04	10	7	3	12	4	-	0.00	
23	87	73	59	62	57	50	86	62	28	29.95	29.92	29.95	10	10	7	12	1	-	0.00	
24	82	69	57	61	56	49	87	66	33	29.87	29.85	29.87	10	10	8	12	0	-	0.00	
25	77	66	57	63	56	55	100	80	48	29.87	29.83	29.87	10	9	5	12	2	-	0.00	
26	70	63	57	57	55	53	94	78	63	29.88	29.83	29.88	10	7	4	13	0	-	0.00	
27	70	63	55	54	53	49	83	69	54	29.78	29.77	29.78	10	10	10	12	3	-	0.00	
28	73	64	57	54	50	47	84	66	42	29.91	29.80	29.91	10	10	10	14	5	-	0.00	
29	71	62	53	55	52	50	86	73	55	30.04	29.96	30.04	10	10	10	18	1	24	0.00	
30	70	62	55	54	51	48	84	74	51	30.02	30.01	30.02	10	10	10	15	1	-	0.00	
October	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	73	62	51	51	42	31	86	52	23	29.98	29.94	29.98	10	10	10	15	2	22	0.00	
2	77	66	54	42	33	25	53	29	15	30.04	29.99	30.04	10	10	9	23	16	21	0.00	
3	80	64	46	71	40	31	74	47	20	30.08	30.03	30.08	10	9	5	13	0	-	0.00	
4	82	67	54	55	49	41	83	58	26	29.99	29.96	29.99	10	10	10	15	2	-	0.00	
5	87	70	55	57	51	48	84	61	27	30.07	30.02	30.07	10	10	10	15	2	-	0.00	
6	88	72	57	58	49	47	70	51	25	30.09	30.05	30.09	10	10	10	10	0	-	0.00	
7	90	75	59	58	51	49	72	50	25	30.05	30.00	30.05	10	10	10	13	2	-	0.00	

8	84	72	59	58	52	46	68	54	26	29.94	29.89	29.94	10	10	9	10	1	-	0.00	
9	73	64	57	58	53	49	86	74	57	29.96	29.91	29.96	10	10	9	13	0	-	0.00	
10	69	64	57	56	55	51	88	74	58	29.99	29.92	29.99	10	9	8	12	4	-	0.00	
11	77	65	55	57	51	46	87	66	38	30.09	30.02	30.09	10	10	8	10	2	-	0.00	
12	78	65	51	51	45	34	83	57	21	30.16	30.11	30.16	10	10	10	12	0	-	0.00	
13	75	63	51	56	46	30	86	60	30	30.13	30.09	30.13	10	9	6	10	0	-	0.00	
14	73	64	54	46	31	21	58	34	21	30.04	30.02	30.04	10	10	9	14	0	-	0.00	
15	64	58	52	51	41	16	86	64	22	30.01	29.99	30.01	10	8	4	15	1	-	0.00	
16	64	58	52	50	48	45	83	69	55	29.97	29.95	29.97	10	10	9	15	3	-	0.00	
17	64	58	52	52	47	46	83	74	58	30.01	29.93	30.01	10	10	9	18	3	-	0.00	
18	64	59	54	52	47	46	86	73	60	30.05	30.01	30.05	10	10	10	13	5	-	0.00	
19	68	58	51	56	50	48	94	80	59	30.08	30.04	30.08	10	9	5	14	0	-	0.00	
20	70	64	55	57	54	53	90	77	61	30.00	29.97	30.00	10	9	6	10	1	-	0.00	
21	66	58	50	56	50	49	96	85	67	29.96	29.88	29.96	10	6	1	16	0	-	0.00	
22	64	59	55	52	51	48	84	75	60	30.04	29.97	30.04	10	9	6	14	3	-	0.00	
23	59	56	54	49	48	45	80	75	67	30.08	30.05	30.08	10	10	10	8	3	-	0.00	
24	61	58	53	50	45	44	83	69	57	30.06	30.04	30.06	10	10	10	7	1	-	0.00	
25	69	60	53	51	49	46	90	70	45	29.94	29.91	29.94	10	10	10	10	2	-	0.00	Rain
26	68	58	50	51	49	46	89	78	56	29.92	29.89	29.92	10	9	7	16	2	-	0.00	
27	71	58	45	51	45	42	93	73	47	30.08	30.00	30.08	10	10	9	9	3	-	0.01	
28	71	60	48	53	47	43	93	82	36	30.09	30.02	30.09	10	10	9	13	2	-	0.00	
29	69	58	46	53	46	40	93	71	35	29.97	29.96	29.97	10	9	7	14	0	-	0.00	
30	68	57	46	48	42	34	83	61	31	30.00	29.95	30.00	10	10	10	14	0	-	0.00	
31	69	56	43	41	38	34	86	56	30	30.05	30.02	30.05	10	10	10	10	0	-	0.00	
November	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	68	56	45	39	29	17	65	42	14	30.07	30.02	30.07	10	10	9	9	0	-	0.00	
2	70	56	42	39	30	22	68	44	17	30.12	30.08	30.12	10	10	10	8	0	-	0.00	
3	72	59	46	47	36	25	80	50	18	30.06	30.00	30.06	10	10	10	9	0	-	0.00	
4	62	53	44	51	44	38	89	76	62	30.15	30.05	30.15	10	10	9	9	0	-	0.00	
5	66	54	43	51	44	38	97	74	36	30.18	30.15	30.18	10	9	6	9	0	-	0.00	
6	66	55	44	50	44	42	96	69	45	30.16	30.05	30.16	10	10	10	20	2	24	0.01	
7	66	60	55	60	52	51	94	84	70	29.95	29.83	29.95	10	9	3	26	20	39	0.83	Rain

8	66	62	57	63	58	55	100	86	70	29.86	29.70	29.86	10	7	2	15	4	20	1.14	Rain
9	64	57	50	54	52	48	100	80	54	30.15	30.01	30.15	10	10	10	12	2	16	0.01	Rain
10	64	58	50	59	52	48	96	85	63	30.28	30.16	30.28	10	9	2	12	3	-	0.05	Rain
11	66	56	46	52	47	45	97	81	54	30.30	30.29	30.30	10	9	3	7	0	-	0.01	
12	66	57	48	54	48	46	93	77	54	30.26	30.21	30.26	10	10	10	9	3	-	0.00	
13	64	59	51	55	54	47	94	84	61	30.25	30.21	30.25	10	8	3	13	5	-	0.00	
14	70	59	48	50	46	40	93	61	33	30.28	30.25	30.28	10	10	10	10	0	-	0.00	
15	66	56	46	54	46	44	90	74	48	30.22	30.19	30.22	10	8	4	6	2	-	0.00	
16	62	54	46	54	47	45	100	86	70	30.23	30.17	30.23	10	4	0	10	0	-	0.00	Fog
17	66	57	48	52	48	43	96	80	48	30.25	30.20	30.25	10	9	7	9	1	-	0.00	
18	66	55	44	47	42	40	89	68	45	30.36	30.28	30.36	10	10	10	8	0	-	0.00	
19	70	57	44	46	43	37	93	62	31	30.39	30.31	30.39	10	9	6	12	3	-	0.02	
20	71	60	48	49	42	42	83	65	40	30.22	30.15	30.22	10	9	7	7	1	-	0.00	
21	68	60	51	55	47	47	89	76	59	30.14	30.09	30.14	9	5	2	8	1	-	0.00	
22	57	55	53	52	51	46	96	82	69	30.12	30.09	30.12	10	4	1	7	3	-	0.00	
23	59	56	52	52	48	47	89	80	74	30.21	30.12	30.21	10	10	8	8	3	-	0.00	
24	61	56	52	52	49	48	89	79	67	30.25	30.22	30.25	10	9	5	8	3	-	0.00	
25	66	57	48	50	39	27	94	56	23	30.16	30.15	30.16	10	9	4	23	8	29	0.00	
26	71	58	46	38	27	21	63	32	16	30.20	30.15	30.20	10	10	10	12	7	18	0.00	
27	70	56	41	38	34	31	80	50	24	30.14	30.09	30.14	10	10	9	7	3	-	0.00	
28	68	54	39	45	36	34	83	62	32	30.22	30.17	30.22	10	9	5	7	0	-	0.00	
29	64	54	43	45	39	38	82	66	43	30.08	30.07	30.08	9	7	5	7	1	-	0.00	
30	57	50	43	49	41	39	86	75	62	30.17	30.07	30.17	10	8	6	8	3	-	0.00	
December	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	63	54	46	49	47	44	93	79	56	30.21	30.19	30.21	7	5	3	8	0	-	0.00	
2	62	54	46	50	46	42	93	76	50	30.14	30.08	30.14	10	6	3	7	0	-	0.00	
3	62	52	43	50	42	41	93	80	56	30.24	30.14	30.24	9	6	5	6	0	-	0.00	
4	63	53	43	50	44	42	97	82	56	30.30	30.26	30.30	6	4	2	5	0	-	0.01	
5	62	52	43	50	44	41	97	80	53	30.20	30.13	30.20	7	5	4	6	0	-	0.00	
6	55	49	43	51	43	41	97	86	72	30.09	30.05	30.09	7	5	3	8	1	-	0.01	Rain
7	62	52	42	50	44	41	97	81	52	30.20	30.14	30.20	10	7	4	6	0	-	0.00	
8	60	52	44	49	43	42	93	82	57	30.24	30.20	30.24	8	5	3	9	2	-	0.01	

9	61	54	46	53	47	45	93	84	72	30.23	30.14	30.23	10	8	3	10	2	-	0.03	Rain
10	61	54	46	53	48	44	93	80	56	30.28	30.23	30.28	10	10	10	10	5	-	0.00	
11	60	53	46	49	44	43	93	79	62	30.29	30.25	30.29	10	10	9	9	1	-	0.00	
12	60	52	44	50	44	43	96	82	62	30.25	30.20	30.25	10	9	6	16	0	21	0.01	
13	61	58	55	57	52	51	94	85	78	30.11	30.08	30.11	10	8	4	15	11	20	0.76	Rain
14	64	57	50	57	56	46	93	79	60	30.01	29.90	30.01	10	7	1	31	14	43	1.25	Rain
15	60	57	54	54	47	44	93	79	60	30.11	29.95	30.11	10	9	3	23	6	36	0.33	Rain
16	60	56	51	56	54	45	90	76	60	29.78	29.64	29.78	10	7	3	20	17	32	1.23	Rain
17	54	50	45	47	46	43	93	84	66	30.06	29.90	30.06	10	8	2	14	4	20	0.42	Rain
18	57	49	41	43	42	39	97	76	51	30.24	30.17	30.24	10	10	8	9	6	-	0.03	Rain
19	53	48	43	47	39	32	100	82	50	30.14	29.96	30.14	10	7	1	25	12	37	0.81	Rain
20	55	50	45	49	42	40	93	85	75	30.03	29.98	30.03	10	9	2	15	12	-	0.51	Rain
21	57	52	48	47	46	42	93	80	60	30.10	30.01	30.10	10	10	10	10	7	-	0.02	Rain
22	55	50	44	45	40	34	96	71	44	30.14	30.09	30.14	10	9	8	10	1	-	0.01	
23	55	48	39	36	34	31	76	60	41	30.12	30.07	30.12	10	10	10	7	3	-	0.02	
24	55	46	37	40	33	33	86	70	43	30.26	30.18	30.26	10	10	7	6	1	-	0.00	
25	52	44	37	41	38	35	96	75	63	30.27	30.24	30.27	10	9	5	10	2	-	0.00	
26	59	55	51	52	44	40	82	74	66	30.27	30.20	30.27	10	10	10	15	8	21	0.00	
27	63	60	57	55	50	50	87	76	70	30.28	30.22	30.28	10	10	10	18	8	25	0.00	
28	62	55	48	55	52	42	93	82	62	30.04	29.82	30.04	10	8	4	28	12	41	0.51	Rain
29	55	50	44	47	45	41	90	78	62	30.24	30.12	30.24	10	10	5	8	6	-	0.09	Rain
30	54	49	45	47	41	40	86	79	66	30.27	30.20	30.27	10	10	7	23	5	26	0.07	Rain
31	59	52	44	48	47	41	93	76	58	30.31	30.19	30.31	10	8	2	21	14	31	0.56	Rain
January	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	57	48	39	47	42	39	97	83	62	30.36	30.32	30.36	10	9	6	7	0	-	0.01	
2	57	52	44	48	44	43	96	84	67	30.27	30.25	30.27	10	9	5	8	1	-	0.00	
3	60	52	45	46	44	43	97	80	55	30.26	30.22	30.26	10	9	4	8	4	-	0.00	
4	61	54	46	52	45	43	96	84	62	30.32	30.27	30.32	10	10	7	10	1	-	0.00	
5	64	58	51	51	50	46	100	75	60	30.32	30.27	30.32	10	6	0	9	2	-	0.01	Fog
6	66	56	45	41	39	35	68	52	33	30.17	30.11	30.17	10	10	10	20	8	-	0.00	
7	64	52	41	45	39	34	83	65	45	30.21	30.14	30.21	10	9	6	7	0	-	0.00	
8	60	52	44	47	40	36	86	71	53	30.08	30.05	30.08	10	9	6	6	0	-	0.00	

9	62	56	50	54	48	47	100	86	62	30.07	30.02	30.07	10	5	2	9	3	-	0.36	Rain
10	63	58	53	55	52	49	97	84	60	30.16	30.05	30.16	10	10	7	10	7	-	0.05	Rain
11	61	54	48	53	50	47	100	86	70	30.19	30.14	30.19	10	10	9	6	4	-	0.00	
12	62	58	53	52	51	50	93	78	67	30.30	30.22	30.30	10	10	7	13	4	20	0.00	Rain
13	62	56	50	54	50	48	97	85	72	30.32	30.29	30.32	10	10	8	8	2	-	0.00	
14	61	57	53	54	53	51	94	87	72	30.32	30.26	30.32	10	8	5	8	0	-	0.00	
15	62	54	46	52	51	40	94	78	58	30.33	30.28	30.33	10	10	8	15	8	-	0.00	
16	64	52	39	50	42	39	97	76	50	30.31	30.29	30.31	10	9	7	8	1	-	0.01	
17	64	52	41	46	41	38	89	73	43	30.22	30.18	30.22	10	10	8	5	0	-	0.00	
18	59	51	43	49	42	40	100	89	60	30.22	30.16	30.22	10	5	0	7	2	-	0.01	Fog
19	55	48	42	47	42	41	100	87	64	30.21	30.18	30.21	10	4	0	8	0	-	0.00	Fog
20	52	48	44	48	46	44	100	96	80	30.23	30.20	30.23	4	2	1	7	3	-	0.06	Rain
21	64	57	50	55	48	48	97	89	70	30.23	30.18	30.23	10	7	3	12	2	-	0.02	Rain
22	63	56	48	55	51	48	100	86	70	30.31	30.22	30.31	10	8	2	16	2	21	0.00	Rain
23	62	58	54	57	55	53	97	90	77	30.32	30.30	30.32	10	9	4	10	3	-	0.01	Rain
24	61	58	55	55	55	50	100	89	67	30.32	30.26	30.32	10	9	5	7	4	-	0.00	
25	66	60	53	55	53	51	94	85	68	30.34	30.32	30.34	10	9	6	10	2	-	0.00	
26	61	56	51	54	52	50	97	84	72	30.30	30.28	30.30	10	8	6	14	2	-	0.00	
27	63	56	50	55	50	49	96	85	75	30.17	30.15	30.17	10	7	4	10	1	-	0.00	
28	64	56	48	52	52	45	96	81	58	30.23	30.16	30.23	10	9	7	10	5	-	0.00	
29	62	54	46	52	44	44	100	89	64	30.37	30.24	30.37	10	5	0	10	1	-	0.01	Fog
30	62	54	46	54	48	44	93	84	75	30.36	30.34	30.36	10	9	6	9	1	-	0.00	
31	64	56	48	54	49	47	96	85	65	30.26	30.17	30.26	10	6	3	10	2	-	0.00	
February	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	62	56	48	54	52	41	100	81	50	30.16	30.08	30.16	10	8	2	15	4	24	0.01	Rain
2	61	53	45	44	38	33	80	59	38	30.22	30.18	30.22	10	10	10	12	5	-	0.00	
3	63	53	43	40	36	35	76	61	39	30.22	30.18	30.22	10	10	10	9	1	-	0.00	
4	64	50	37	43	33	20	83	55	27	30.17	30.11	30.17	10	10	10	13	0	16	0.00	
5	60	52	42	30	21	18	60	38	26	30.12	30.07	30.12	10	10	10	16	8	20	0.00	
6	59	48	37	36	30	27	73	57	33	30.10	30.07	30.10	10	10	10	16	2	21	0.00	Rain
7	61	52	43	35	30	24	74	45	26	30.10	30.05	30.10	10	10	10	18	6	24	0.00	
8	60	48	35	29	24	15	70	44	17	30.16	30.09	30.16	10	10	10	7	0	-	0.00	

9	62	48	35	43	31	26	72	54	28	30.26	30.21	30.26	10	10	10	7	1	-	0.00	
10	62	50	37	39	32	31	79	59	41	30.21	30.06	30.21	10	10	9	8	2	-	0.00	
11	57	50	44	46	37	37	90	70	49	29.97	29.92	29.97	10	9	7	7	0	-	0.00	
12	55	50	46	52	44	42	97	88	77	29.91	29.81	29.91	9	4	2	8	3	-	0.23	Rain
13	61	56	50	55	52	48	100	96	77	30.00	29.75	30.00	10	4	1	9	0	-	0.05	Rain
14	57	55	53	49	48	46	83	79	72	30.09	30.02	30.09	10	10	10	10	4	-	0.00	
15	62	56	51	52	47	46	94	78	60	30.09	30.03	30.09	10	9	3	21	1	30	0.06	Rain
16	61	53	45	52	48	43	100	79	52	30.25	30.14	30.25	10	10	6	10	2	-	0.27	Rain
17	57	50	42	47	44	38	100	80	53	30.25	30.23	30.25	10	10	10	9	1	-	0.06	
18	60	48	37	46	40	36	93	75	58	30.30	30.26	30.30	10	10	10	12	0	-	0.02	
19	57	51	45	46	44	41	93	77	59	30.22	30.20	30.22	10	9	3	17	2	29	0.04	Rain
20	63	54	44	47	41	40	85	69	46	30.20	30.14	30.20	10	10	10	10	5	-	0.00	
21	64	54	43	52	44	41	100	80	52	30.24	30.20	30.24	10	10	10	10	0	-	0.00	
22	64	54	44	51	45	43	100	82	50	30.15	30.10	30.15	10	7	0	9	1	-	0.01	Fog
23	62	52	43	51	42	39	93	75	46	29.93	29.84	29.93	10	10	10	10	1	-	0.01	Rain
24	59	55	51	52	47	46	100	86	64	29.80	29.71	29.80	10	7	2	13	10	18	0.49	Rain
25	61	54	48	51	50	43	96	85	54	29.91	29.80	29.91	10	9	3	13	3	18	0.21	Rain
26	55	52	48	46	43	39	93	72	55	29.97	29.91	29.97	10	9	2	13	4	-	0.37	Rain
27	57	52	46	46	46	41	100	81	56	30.05	29.95	30.05	10	10	8	9	3	-	0.02	Rain
28	61	51	41	48	40	37	93	74	41	30.10	30.05	30.10	10	10	10	12	0	-	0.00	
March	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	61	56	48	47	44	42	80	68	52	30.11	30.06	30.11	10	10	10	9	0	-	0.00	
2	64	54	43	49	40	30	93	72	28	30.19	30.14	30.19	10	10	10	14	2	-	0.00	
3	57	52	46	46	45	40	82	73	57	30.14	29.98	30.14	10	10	9	12	2	-	0.00	Rain
4	60	50	41	44	39	38	89	72	44	29.98	29.87	29.98	10	10	10	12	3	-	0.00	
5	62	50	39	50	42	36	93	75	50	30.12	30.04	30.12	10	10	10	12	1	-	0.00	
6	63	53	43	48	43	37	93	73	39	30.14	30.11	30.14	10	10	10	15	2	-	0.01	
7	61	50	39	45	40	36	86	71	52	30.11	30.09	30.11	10	10	8	22	5	20	0.00	
8	61	52	42	49	43	39	89	76	60	30.22	30.14	30.22	10	10	10	15	3	-	0.00	
9	61	51	41	49	42	39	93	76	58	30.26	30.22	30.26	10	10	10	13	0	-	0.00	
10	66	56	46	56	47	43	94	82	58	30.22	30.20	30.22	10	10	8	16	0	-	0.00	
11	66	60	53	57	52	50	94	83	67	30.13	30.12	30.13	10	10	9	14	1	-	0.00	

12	69	62	55	58	55	52	94	82	63	30.06	30.02	30.06	10	10	9	16	1	-	0.00	
13	66	60	53	53	52	48	94	78	54	29.96	29.92	29.96	10	10	10	21	3	31	0.00	Rain
14	66	62	57	56	51	47	93	75	49	29.95	29.83	29.95	10	9	3	18	15	25	0.32	Rain
15	63	57	48	57	50	40	94	72	44	29.79	29.66	29.79	10	9	6	18	13	23	0.23	Rain
16	61	54	46	52	44	39	94	80	55	29.94	29.80	29.94	10	9	2	14	1	20	0.18	Rain
17	62	55	48	44	44	41	83	66	49	30.20	30.08	30.20	10	10	10	18	4	23	0.00	
18	63	54	44	46	42	39	85	64	41	30.25	30.21	30.25	10	10	10	17	5	21	0.00	
19	63	54	44	49	41	39	82	68	46	30.20	30.19	30.20	10	10	10	13	3	-	0.04	Rain
20	62	56	50	50	49	44	89	73	53	30.27	30.21	30.27	10	10	10	14	2	18	0.00	
21	64	55	46	51	44	41	86	74	54	30.29	30.26	30.29	10	10	10	17	3	-	0.00	
22	61	56	51	53	49	48	89	81	67	30.23	30.21	30.23	10	10	8	13	0	-	0.00	
23	62	54	46	51	48	38	93	75	55	30.16	30.13	30.16	10	9	7	13	2	-	0.10	Rain
24	64	53	42	50	43	36	85	69	52	30.25	30.15	30.25	10	10	10	20	3	-	0.00	
25	68	56	45	56	45	35	94	68	40	30.34	30.30	30.34	10	10	10	15	1	-	0.00	
26	64	58	51	57	52	40	94	75	43	30.32	30.28	30.32	10	10	8	15	3	-	0.00	
27	66	57	48	44	40	38	77	57	37	30.26	30.22	30.26	10	10	10	14	7	-	0.00	
28	73	62	51	41	36	31	61	38	24	30.26	30.18	30.26	10	10	10	18	6	-	0.00	
29	75	62	48	49	40	39	71	48	28	30.38	30.30	30.38	10	10	10	9	1	-	0.00	
30	78	65	52	52	43	41	71	56	29	30.36	30.26	30.36	10	10	10	13	0	-	0.00	
31	70	60	51	54	47	44	89	72	39	30.16	30.02	30.16	10	10	10	16	2	-	0.00	
April	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	60	55	50	49	48	40	83	72	49	29.95	29.91	29.95	10	10	10	12	1	16	0.00	
2	55	50	46	45	42	36	90	75	47	30.12	30.00	30.12	10	9	5	17	5	23	0.20	Rain
3	59	50	42	42	42	35	96	68	42	30.23	30.18	30.23	10	10	10	14	4	18	0.01	
4	57	52	46	46	43	35	93	71	44	30.12	30.05	30.12	10	9	2	17	8	22	0.18	Rain
5	60	52	45	42	39	36	80	64	39	30.25	30.14	30.25	10	10	10	17	4	22	0.00	
6	62	54	46	46	40	39	80	70	53	30.26	30.25	30.26	10	10	10	12	2	17	0.00	
7	68	58	44	50	43	43	87	71	50	30.26	30.21	30.26	10	10	10	15	1	-	0.00	
8	73	60	46	53	47	44	86	69	46	30.18	30.14	30.18	10	10	10	14	2	-	0.00	
9	70	58	46	54	46	43	86	66	42	30.13	30.03	30.13	10	10	10	15	1	-	0.00	
10	68	58	50	52	49	46	89	74	56	30.10	29.99	30.10	10	10	10	15	1	-	0.00	
11	66	56	46	50	46	44	86	70	52	30.11	30.04	30.11	10	10	10	13	3	-	0.00	

12	59	54	50	52	45	41	94	80	59	29.93	29.88	29.93	10	8	2	17	12	26	0.55	Rain
13	59	54	44	50	48	39	93	72	51	30.02	29.90	30.02	10	9	5	13	3	18	0.52	Rain
14	59	50	41	46	42	39	92	73	56	30.02	30.01	30.02	10	10	10	13	5	20	0.00	
15	62	52	39	44	40	37	89	63	41	30.16	30.10	30.16	10	10	10	12	3	-	0.00	
16	61	56	52	52	44	41	94	80	51	30.14	30.10	30.14	10	10	4	10	8	-	0.13	Rain
17	62	55	48	52	51	41	94	82	51	30.10	30.00	30.10	10	9	2	18	2	24	0.06	Rain
18	66	56	48	45	42	40	74	62	46	30.13	30.10	30.13	10	10	10	17	3	22	0.00	
19	71	58	45	51	43	40	86	66	35	30.14	30.11	30.14	10	10	10	16	3	-	0.00	
20	62	56	48	49	44	43	83	69	53	30.12	30.05	30.12	10	10	10	18	3	-	0.00	
21	57	52	48	47	45	39	90	72	53	29.96	29.94	29.96	10	9	3	14	3	18	0.10	Rain
22	62	54	46	47	45	43	97	77	50	30.05	29.94	30.05	10	9	5	12	6	-	0.15	Rain
23	66	57	48	47	43	40	83	66	47	30.09	30.05	30.09	10	10	10	12	1	-	0.00	
24	62	54	48	49	46	38	100	77	42	30.03	29.92	30.03	10	8	1	17	13	25	0.15	Rain
25	57	52	48	50	44	40	93	76	61	30.07	29.99	30.07	10	9	5	14	7	18	0.15	Rain
26	63	58	45	43	42	38	69	54	47	30.09	30.04	30.09	10	10	10	13	10	-	0.00	
27	70	56	42	51	40	39	90	65	39	30.05	29.97	30.05	10	10	6	14	3	21	0.06	Rain
28	64	56	48	52	45	37	94	69	38	30.04	29.93	30.04	10	9	5	14	7	21	0.19	Rain
29	62	56	48	49	46	42	86	71	50	30.13	30.05	30.13	10	10	5	13	2	-	0.04	Rain
30	64	53	42	48	42	40	92	69	48	30.15	30.13	30.15	10	10	10	18	2	-	0.00	
May	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	69	60	52	53	46	43	81	68	47	30.02	30.00	30.02	10	10	10	14	0	-	0.00	
2	68	62	55	56	47	43	96	80	50	29.91	29.85	29.91	10	9	3	18	7	28	0.20	Rain
3	64	60	55	56	55	50	97	80	63	29.88	29.79	29.88	10	9	5	14	3	-	0.05	Rain
4	63	56	50	48	46	45	88	70	57	30.19	30.14	30.19	10	10	8	14	5	-	0.01	Rain
5	66	56	45	49	45	41	86	67	45	30.17	30.13	30.17	10	10	10	16	3	21	0.00	
6	63	56	48	48	44	43	83	68	48	30.04	30.02	30.04	10	10	10	14	3	18	0.00	Rain
7	64	58	52	49	48	41	86	69	51	30.04	29.95	30.04	10	10	10	14	5	20	0.00	
8	61	56	50	47	43	38	80	62	44	30.09	30.03	30.09	10	10	7	20	9	26	0.03	Rain
9	64	56	46	46	41	40	77	64	46	30.17	30.12	30.17	10	10	10	14	6	18	0.00	
10	68	56	43	51	44	40	85	64	43	30.17	30.15	30.17	10	10	10	21	4	-	0.00	
11	68	56	46	52	45	42	83	71	49	30.13	30.11	30.13	10	10	10	21	4	-	0.00	
12	75	62	48	51	45	28	86	64	19	30.06	30.02	30.06	10	10	9	15	3	-	0.00	

13	70	61	52	55	50	47	88	75	57	30.00	29.96	30.00	10	10	10	17	1	-	0.00	
14	68	60	54	53	52	47	90	73	56	30.06	29.96	30.06	10	10	10	22	7	18	0.00	
15	64	58	51	48	48	42	80	67	50	30.16	30.10	30.16	10	10	9	15	7	-	0.00	
16	71	58	46	53	45	42	83	63	47	30.13	30.11	30.13	10	10	9	15	2	-	0.00	Rain
17	71	60	50	45	34	28	83	40	22	30.06	30.03	30.06	10	10	10	18	4	-	0.00	
18	75	62	48	48	37	30	77	44	23	30.13	30.08	30.13	10	10	10	15	1	-	0.00	
19	82	66	50	53	42	38	70	46	24	30.13	30.09	30.13	10	10	10	14	1	-	0.00	
20	84	70	55	56	50	46	75	56	29	30.11	30.07	30.11	10	10	10	16	1	-	0.00	
21	79	68	55	59	52	51	87	71	43	30.04	30.02	30.04	10	10	9	15	3	-	0.00	
22	73	62	54	58	52	51	94	79	61	30.00	29.98	30.00	10	9	7	14	5	-	0.00	
23	77	66	55	59	54	51	90	73	54	29.96	29.91	29.96	10	9	8	21	5	-	0.00	
24	70	62	55	55	52	51	88	75	56	29.99	29.95	29.99	10	10	10	20	3	26	0.00	
25	75	65	57	60	52	50	83	71	52	30.04	29.95	30.04	10	10	10	17	2	17	0.00	
26	72	64	55	55	53	43	94	68	44	30.11	30.04	30.11	10	10	10	18	5	21	0.00	
27	84	70	54	57	49	45	78	59	37	30.06	30.01	30.06	10	10	10	18	2	21	0.00	
28	90	74	59	60	54	53	81	60	30	29.96	29.91	29.96	10	10	10	15	2	-	0.00	
29	75	67	57	61	56	51	87	67	50	29.99	29.87	29.99	10	10	8	20	5	25	0.00	
30	66	60	55	55	52	49	87	74	57	30.03	30.00	30.03	10	10	10	13	7	-	0.00	
31	71	62	53	55	51	49	94	75	53	30.03	29.99	30.03	10	10	10	16	5	-	0.00	
June	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	81	68	53	59	51	49	87	68	37	30.00	29.98	30.00	10	10	8	13	0	-	0.00	
2	84	72	57	63	57	52	83	62	38	29.91	29.85	29.91	10	9	7	14	2	-	0.00	
3	77	68	59	59	56	53	83	72	52	29.91	29.81	29.91	10	9	7	14	2	-	0.00	
4	73	64	57	58	54	53	89	73	61	29.91	29.89	29.91	10	10	10	15	5	-	0.00	
5	73	66	59	58	56	52	83	72	59	29.94	29.86	29.94	10	10	9	17	3	-	0.00	
6	72	63	55	56	52	50	81	69	58	29.99	29.93	29.99	10	10	10	18	7	-	0.00	
7	70	63	57	57	53	51	88	74	65	29.99	29.98	29.99	10	10	10	20	4	18	0.00	
8	68	62	55	56	54	52	94	77	65	29.92	29.91	29.92	10	10	10	17	6	18	0.00	
9	73	65	57	57	54	50	88	74	55	29.88	29.84	29.88	10	10	9	14	4	-	0.00	
10	73	64	55	56	52	48	81	65	44	29.99	29.88	29.99	10	10	10	10	4	-	0.00	
11	69	63	55	53	48	48	77	66	57	30.01	29.99	30.01	10	10	10	14	6	21	0.00	
12	66	60	53	52	49	48	80	70	58	30.03	29.98	30.03	10	10	10	17	7	23	0.00	

13	72	63	55	57	48	46	82	70	57	30.07	30.01	30.07	10	10	10	21	3	-	0.00	
14	72	62	52	55	48	45	77	64	48	30.06	30.05	30.06	10	10	10	20	5	-	0.00	
15	75	64	54	57	50	48	87	69	41	30.03	30.02	30.03	10	10	10	17	5	-	0.00	
16	80	67	55	60	54	53	90	70	45	29.95	29.95	29.95	10	9	7	15	3	-	0.00	
17	71	62	55	57	53	51	90	74	57	29.94	29.92	29.94	10	10	9	21	6	-	0.00	
18	78	64	54	56	52	50	86	68	44	29.90	29.88	29.90	10	10	10	18	3	18	0.00	
19	73	64	55	54	49	45	80	63	50	29.85	29.82	29.85	10	10	10	18	6	23	0.00	
20	75	63	53	51	46	45	83	63	44	29.93	29.84	29.93	10	10	10	18	3	24	0.00	
21	73	65	55	54	50	44	77	64	44	29.92	29.91	29.92	10	10	10	20	5	24	0.00	
22	73	62	51	53	47	40	86	58	32	29.91	29.89	29.91	10	10	10	23	4	20	0.00	
23	75	62	51	51	47	43	86	59	35	29.84	29.81	29.84	10	10	10	16	2	21	0.00	
24	87	68	52	57	49	47	83	57	29	29.95	29.85	29.95	10	10	10	16	5	-	0.00	
25	95	76	60	59	53	46	65	44	22	29.99	29.95	29.99	10	10	10	13	0	-	0.00	
26	100	82	64	59	51	48	59	39	19	29.99	29.96	29.99	10	10	10	15	1	-	0.00	
27	97	82	66	59	50	47	54	39	19	29.93	29.91	29.93	10	10	10	16	2	-	0.00	
28	88	75	61	62	57	51	84	58	33	29.92	29.85	29.92	10	10	10	15	0	-	0.00	
29	73	66	60	58	57	54	90	77	59	30.04	29.95	30.04	10	10	10	15	4	-	0.00	
30	72	65	57	57	54	51	83	70	57	30.06	30.04	30.06	10	10	10	18	4	24	0.00	
July	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	73	65	57	57	52	51	84	67	51	30.04	30.02	30.04	10	10	10	17	1	-	0.00	
2	73	65	55	56	52	51	83	70	51	30.01	29.97	30.01	10	10	10	18	4	-	0.00	
3	75	64	55	57	54	51	88	74	46	30.04	29.99	30.04	10	10	9	15	4	-	0.00	
4	84	68	55	58	53	49	87	64	31	30.03	30.01	30.03	10	10	8	16	2	18	0.00	
5	71	64	57	56	53	51	83	72	59	30.01	29.99	30.01	10	9	7	16	3	-	0.00	
6	69	62	55	54	50	45	88	74	59	29.96	29.95	29.96	10	10	10	17	4	-	0.00	
7	71	62	55	53	53	48	88	69	49	30.04	29.94	30.04	10	10	10	21	3	-	0.00	
8	77	65	55	58	50	47	83	68	40	30.05	30.04	30.05	10	10	10	21	4	-	0.00	
9	82	68	55	59	54	52	89	72	39	30.04	30.00	30.04	10	10	10	17	4	-	0.00	
10	73	64	55	58	55	53	90	73	57	30.11	30.06	30.11	10	10	10	16	4	-	0.00	
11	75	64	55	59	54	53	90	76	55	30.09	30.07	30.09	10	10	10	15	4	-	0.00	
12	82	70	60	61	56	55	84	66	44	30.13	30.07	30.13	10	10	10	22	5	-	0.00	
13	82	70	61	61	58	50	90	69	37	30.14	30.12	30.14	10	10	10	20	2	-	0.00	

14	86	72	59	61	55	53	86	64	38	30.02	29.96	30.02	10	10	10	15	2	-	0.00
15	77	67	59	60	55	55	87	71	53	29.96	29.92	29.96	10	10	10	15	4	-	0.00
16	78	67	57	60	55	54	87	70	50	29.96	29.94	29.96	10	10	10	15	4	-	0.00
17	91	76	61	61	56	51	81	58	26	29.98	29.92	29.98	10	10	10	15	0	-	0.00
18	86	73	61	62	58	56	81	67	41	30.00	29.98	30.00	10	10	10	12	5	16	0.00
19	79	70	61	60	58	56	84	70	52	30.02	29.98	30.02	10	10	10	15	4	-	0.00
20	87	76	64	62	57	57	81	64	40	29.99	29.98	29.99	10	10	8	13	5	-	0.00
21	81	72	62	62	60	59	90	74	50	30.00	29.96	30.00	10	10	10	15	5	-	0.00
22	81	72	63	63	60	56	90	74	45	29.98	29.96	29.98	10	10	9	12	5	-	0.00
23	79	68	61	61	59	57	90	77	58	29.95	29.94	29.95	10	10	10	15	5	-	0.00
24	77	70	61	61	59	57	90	73	58	29.91	29.88	29.91	10	9	8	16	4	-	0.00
25	77	67	59	60	56	55	88	74	57	29.97	29.88	29.97	10	9	7	17	4	-	0.00
26	79	69	60	61	56	56	90	75	54	30.04	29.98	30.04	10	9	6	14	2	-	0.00
27	80	70	61	61	58	57	88	73	47	30.06	30.03	30.06	10	10	10	13	2	-	0.00
28	77	68	60	61	58	57	90	76	56	30.01	30.00	30.01	10	9	7	14	4	-	0.00
29	75	66	59	60	57	57	90	79	62	29.98	29.94	29.98	10	9	7	13	5	-	0.00

Rain



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Moffett NAS, California
on Tuesday, July 29, 2003

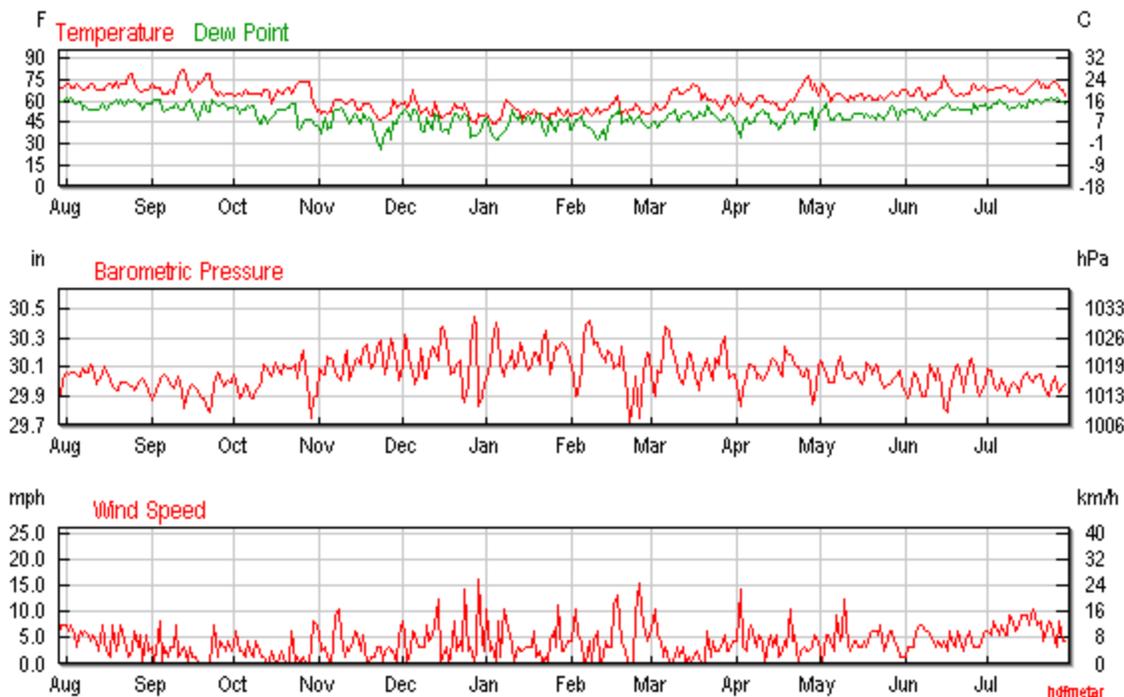
July 29, 2003

Custom Date Query - Choose two dates less than or equal to one year apart

From: To:

Summary

	Max	Avg	Min	
Temperature				
Max Temperature	98 °F / 36 °C	77 °F / 24 °C	50 °F / 10 °C	
Mean Temperature	80 °F / 26 °C	68 °F / 20 °C	42 °F / 5 °C	
Min Temperature	64 °F / 17 °C	61 °F / 16 °C	32 °F / 0 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	24	0	0	2126
Cooling Degree Days (base 65)	16	3	0	484
Growing Degree Days (base 50)	30	18	0	3956
Dew Point	Max	Avg	Min	
Dew Point	69 °F / 20 °C	58 °F / 14 °C	20 °F / -6 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	1.71 in / 4.3 cm	0.04 in / 0.0 cm	0.00 in / 0.0 cm	10.80 in / 27.55 cm
Snowdepth	-	-	-	-
Wind	Max	Avg	Min	
Wind	24 mph / 39 km/h	6 mph / 9 km/h	0 mph / 0 km/h	
Gust Wind	37 mph / 60 km/h	22 mph / 35 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.52 in / 1033 hPa	30.02 in / 1015 hPa	29.55 in / 1001 hPa	



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Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
July																				
29	75	66	59	60	57	57	90	79	62	29.98	29.94	29.98	10	9	7	13	5	-	0.00	
30	75	68	61	61	58	57	86	79	64	29.99	29.90	29.99	10	10	10	14	7	-	0.00	
31	75	68	61	64	58	57	90	79	64	30.04	29.99	30.04	10	9	7	10	7	-	0.00	
August																				
Date	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	77	70	63	63	61	59	94	82	56	30.07	30.05	30.07	10	10	8	18	7	-	0.00	
2	78	70	64	62	60	59	88	75	58	30.08	30.03	30.08	10	10	10	15	6	-	0.00	
3	73	68	62	61	61	55	88	72	57	30.09	30.05	30.09	10	10	10	18	7	-	0.00	
4	77	68	60	58	56	55	87	68	48	30.06	30.05	30.06	10	10	10	20	5	23	0.00	
5	79	70	62	60	57	53	84	67	45	30.05	30.04	30.05	10	10	10	18	3	23	0.00	
6	75	68	61	58	58	53	84	68	52	30.08	30.02	30.08	10	10	10	22	6	25	0.00	

7	75	66	55	59	53	51	81	65	46	30.09	30.07	30.09	10	10	10	22	5	28	0.00	
8	78	67	57	62	55	52	84	64	49	30.07	30.05	30.07	10	10	10	21	6	-	0.00	
9	77	68	57	57	53	50	78	63	48	30.10	30.05	30.10	10	10	10	22	5	-	0.00	
10	80	70	57	58	52	49	75	59	39	30.14	30.10	30.14	10	10	10	21	4	-	0.00	
11	81	70	59	58	53	49	80	59	39	30.12	30.09	30.12	10	10	10	20	5	24	0.00	
12	78	67	55	58	53	49	87	63	46	29.99	29.96	29.99	10	10	10	20	4	-	0.00	
13	79	67	55	60	52	47	87	65	48	30.03	29.99	30.03	10	10	10	16	2	-	0.00	
14	75	67	59	58	56	54	90	70	53	30.10	30.04	30.10	10	10	10	21	7	-	0.00	
15	75	66	57	58	54	49	84	64	46	30.12	30.09	30.12	10	10	10	17	4	-	0.00	
16	82	69	55	60	53	50	84	66	36	30.07	30.05	30.07	10	10	10	15	2	-	0.00	
17	81	70	57	61	57	54	90	74	48	30.01	29.99	30.01	10	10	10	15	1	-	0.00	
18	78	68	60	61	56	56	88	74	54	29.96	29.95	29.96	10	10	10	22	7	-	0.00	
19	79	72	61	60	59	57	84	71	52	29.97	29.93	29.97	10	10	8	18	2	18	0.00	
20	79	68	59	62	56	55	90	73	56	29.98	29.93	29.98	10	10	10	16	4	-	0.00	
21	77	70	64	61	60	54	88	70	56	30.01	29.98	30.01	10	10	10	17	7	-	0.00	
22	80	70	64	58	55	54	75	63	48	30.02	29.98	30.02	10	10	10	18	4	-	0.00	
23	80	70	59	62	56	54	81	66	48	30.01	29.98	30.01	10	10	10	16	3	-	0.00	
24	93	76	62	65	59	58	86	62	32	30.01	29.97	30.01	10	10	8	15	1	-	0.00	
25	90	77	64	62	58	55	71	56	36	29.97	29.95	29.97	10	10	10	17	2	-	0.00	
26	79	71	61	62	60	57	84	72	54	29.95	29.92	29.95	10	10	2	15	6	-	0.00	
27	72	66	59	59	57	55	87	77	65	30.01	29.96	30.01	10	10	8	17	3	-	0.00	
28	71	65	57	57	56	53	87	73	57	30.05	29.99	30.05	10	10	9	18	5	22	0.00	
29	73	65	57	59	53	52	88	76	55	30.03	30.01	30.03	10	10	10	14	0	-	0.00	
30	73	66	59	59	56	55	90	77	61	30.01	29.96	30.01	10	10	8	13	5	-	0.00	
31	77	66	57	60	56	54	87	75	55	29.94	29.92	29.94	10	9	5	13	2	-	0.00	
September	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	82	70	57	62	57	56	90	75	48	29.89	29.86	29.89	10	9	7	13	3	-	0.00	
2	77	68	61	62	60	57	90	77	57	29.94	29.89	29.94	10	8	4	13	0	-	0.00	
3	75	68	63	61	59	59	88	79	64	29.96	29.92	29.96	10	9	8	18	2	-	0.00	
4	73	68	61	59	59	53	84	72	57	30.04	29.99	30.04	10	10	10	17	8	-	0.00	
5	73	64	55	57	53	51	84	70	55	30.07	30.02	30.07	10	10	10	17	0	18	0.00	
6	72	63	54	54	51	50	86	66	51	30.05	30.03	30.05	10	10	10	18	3	22	0.00	

7	73	63	53	61	52	49	84	73	63	30.03	30.01	30.03	10	10	10	16	1	20	0.00
8	78	67	54	57	54	44	90	64	42	30.00	29.97	30.00	10	10	10	16	3	21	0.00
9	72	64	57	65	54	45	93	68	54	29.97	29.94	29.97	10	10	3	9	3	-	0.00
10	81	69	59	61	56	55	90	73	50	30.03	29.97	30.03	10	10	10	17	7	-	0.00
11	93	76	59	60	54	47	80	53	24	30.07	30.02	30.07	10	10	10	12	1	-	0.00
12	97	80	63	61	52	50	61	44	20	29.99	29.91	29.99	10	10	10	14	2	-	0.00
13	98	80	62	64	52	38	81	42	15	29.88	29.80	29.88	10	10	10	12	3	-	0.00
14	78	70	63	69	58	48	100	72	50	29.96	29.91	29.96	10	10	10	14	0	-	0.00
15	75	66	57	60	59	54	87	75	57	30.01	29.95	30.01	10	9	7	16	3	-	0.00
16	73	65	57	55	54	50	87	67	44	30.00	29.96	30.00	10	9	7	18	1	-	0.00
17	82	68	55	54	50	41	87	53	28	29.97	29.94	29.97	10	10	10	15	1	-	0.00
18	90	72	55	54	45	37	64	43	17	29.95	29.91	29.95	10	10	10	15	0	-	0.00
19	86	70	57	61	50	37	84	54	18	29.93	29.89	29.93	10	10	10	14	0	-	0.00
20	91	74	57	61	58	51	87	62	26	29.90	29.87	29.90	10	10	10	14	0	-	0.00
21	97	78	61	59	53	47	72	47	22	29.83	29.81	29.83	10	10	10	10	0	-	0.00
22	93	78	64	60	51	45	71	43	21	29.82	29.78	29.82	10	10	10	13	0	-	0.00
23	75	68	61	61	59	57	90	73	58	29.93	29.83	29.93	10	9	7	14	3	-	0.00
24	72	66	60	58	58	54	86	70	57	30.03	29.97	30.03	10	10	9	20	7	-	0.00
25	68	62	59	57	55	52	84	73	63	30.10	30.05	30.10	10	10	10	16	1	-	0.00
26	71	65	60	58	55	52	84	75	63	30.04	30.02	30.04	10	9	7	13	4	-	0.00
27	66	62	57	57	57	53	90	80	70	30.00	29.95	30.00	10	9	6	12	3	-	0.00
28	70	64	57	56	55	53	90	76	61	30.00	29.96	30.00	10	10	9	16	2	-	0.00
29	73	64	55	57	52	52	88	73	53	30.02	30.00	30.02	10	10	10	18	4	24	0.00
30	73	64	55	56	54	52	87	76	53	30.04	29.98	30.04	10	10	7	15	2	-	0.00

October	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	69	62	55	57	54	52	90	78	63	30.11	30.04	30.11	10	10	10	17	3	-	0.00	
2	66	62	55	56	55	51	88	78	67	30.02	29.98	30.02	10	10	10	16	6	-	0.00	
3	72	64	55	56	50	46	87	74	55	29.89	29.87	29.89	10	10	9	17	2	-	0.00	
4	68	62	55	57	53	52	89	76	61	29.96	29.89	29.96	10	10	9	15	2	20	0.00	
5	75	66	57	57	52	42	93	68	46	29.99	29.96	29.99	10	10	10	15	1	20	0.00	
6	73	64	55	58	55	53	94	79	57	29.96	29.95	29.96	10	9	6	14	4	-	0.00	
7	75	64	55	61	54	52	90	77	57	29.89	29.88	29.89	10	10	8	17	2	-	0.00	

8	75	64	55	59	55	50	94	78	51	29.95	29.87	29.95	10	9	4	18	1	-	0.00	
9	72	63	53	58	50	41	90	66	35	29.95	29.92	29.95	10	10	10	16	4	21	0.00	
10	73	63	52	51	42	37	75	51	26	29.99	29.95	29.99	10	10	10	12	2	-	0.00	
11	75	62	48	50	42	39	75	59	34	30.09	29.99	30.09	10	10	10	16	1	-	0.00	
12	81	66	52	55	48	44	77	61	39	30.14	30.10	30.14	10	10	10	13	1	-	0.00	
13	84	66	50	54	43	24	86	58	13	30.11	30.08	30.11	10	10	9	12	0	-	0.00	
14	75	63	50	53	45	39	83	62	28	30.05	30.03	30.05	10	10	10	12	0	-	0.00	
15	66	57	48	53	47	45	86	72	54	30.11	30.02	30.11	10	10	10	20	2	-	0.00	
16	75	62	51	57	49	48	90	74	51	30.17	30.12	30.17	10	10	10	12	0	-	0.00	
17	80	67	52	56	53	50	90	69	42	30.13	30.08	30.13	10	10	9	9	0	-	0.01	
18	71	63	54	58	53	51	87	72	61	30.08	30.03	30.08	10	10	10	16	2	23	0.00	
19	75	64	51	58	52	50	90	71	43	30.13	30.10	30.13	10	10	10	13	1	-	0.00	
20	80	67	54	60	53	50	90	73	40	30.14	30.09	30.14	10	10	10	9	0	-	0.00	
21	80	68	54	58	54	51	90	72	38	30.10	30.08	30.10	10	10	10	13	0	-	0.00	
22	72	64	57	58	57	52	90	77	56	30.14	30.08	30.14	10	9	6	14	6	-	0.00	
23	82	68	54	59	56	49	100	76	35	30.13	30.11	30.13	10	8	0	9	0	-	0.00	Fog
24	88	70	51	49	40	31	75	41	15	30.05	30.01	30.05	10	10	10	10	1	-	0.00	
25	90	72	53	44	39	32	59	34	13	30.15	30.09	30.15	10	10	10	9	0	-	0.00	
26	91	72	53	49	42	36	66	38	15	30.24	30.20	30.24	10	10	10	7	1	-	0.00	
27	87	72	57	51	46	42	58	44	21	30.17	30.08	30.17	10	10	10	9	0	-	0.00	
28	88	72	55	48	46	42	64	43	20	29.97	29.86	29.97	10	10	10	7	0	-	0.00	
29	72	64	54	54	46	36	75	55	35	29.81	29.74	29.81	10	10	10	15	3	23	0.00	
30	62	56	50	44	43	37	71	60	43	29.91	29.87	29.91	10	10	10	12	8	-	0.00	
31	57	51	45	45	41	39	89	69	51	30.00	29.89	30.00	10	10	8	12	7	-	0.03	Rain
November	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	60	52	44	43	39	34	89	65	44	30.12	30.08	30.12	10	10	9	10	5	-	0.00	
2	60	50	39	43	35	27	82	61	33	30.06	30.05	30.06	10	10	10	12	2	-	0.00	Rain
3	57	51	43	48	47	38	97	73	51	30.17	30.04	30.17	10	9	3	13	3	-	0.10	Rain
4	60	50	39	44	38	34	89	72	38	30.20	30.16	30.20	10	10	10	14	1	-	0.01	
5	59	51	43	50	40	36	89	73	44	30.18	30.14	30.18	10	10	8	7	0	-	0.00	Rain
6	64	58	52	54	50	47	93	79	54	30.13	30.12	30.13	10	8	3	10	3	-	0.02	Rain
7	64	59	54	54	53	51	93	78	61	30.08	30.05	30.08	10	9	2	15	9	-	0.19	Rain

8	64	60	55	55	53	48	94	79	58	30.04	30.01	30.04	10	9	2	15	10	25	0.03	Rain
9	66	60	53	56	54	49	93	81	59	30.09	30.00	30.09	10	9	3	10	5	-	1.03	Rain
10	64	57	50	52	50	47	93	76	60	30.20	30.14	30.20	10	10	10	8	1	-	0.02	Rain
11	66	56	46	55	46	42	93	68	42	30.24	30.20	30.24	10	10	10	8	3	-	0.00	
12	70	58	46	49	43	38	86	64	33	30.08	30.00	30.08	10	10	10	7	2	-	0.01	
13	66	60	52	51	47	45	89	69	54	30.14	30.07	30.14	10	10	10	13	4	-	0.00	
14	61	56	51	51	49	46	90	79	60	30.16	30.12	30.16	10	10	7	13	6	17	0.03	Rain
15	57	52	48	50	47	43	93	79	67	30.16	30.14	30.16	10	10	6	8	5	-	0.11	Rain
16	60	52	43	51	43	41	93	78	57	30.21	30.11	30.21	10	10	9	8	2	-	0.00	
17	62	56	50	52	49	46	93	78	60	30.27	30.21	30.27	10	10	7	16	5	-	0.01	
18	68	56	45	51	46	44	97	79	47	30.30	30.24	30.30	10	9	7	6	0	-	0.01	
19	66	57	48	52	47	44	93	80	56	30.19	30.14	30.19	10	8	5	8	0	-	0.00	
20	61	54	45	53	46	36	93	78	47	30.09	30.08	30.09	10	9	6	10	1	-	0.00	
21	57	50	43	40	36	33	82	62	42	30.17	30.12	30.17	10	10	10	15	1	22	0.01	
22	55	47	39	36	31	21	82	54	31	30.28	30.23	30.28	10	10	10	12	3	-	0.00	
23	59	46	33	32	25	20	78	50	22	30.32	30.27	30.32	10	10	10	12	3	-	0.00	
24	55	47	39	40	32	30	77	62	41	30.19	30.12	30.19	10	10	8	7	0	-	0.00	
25	57	47	37	43	35	25	89	71	44	30.11	30.03	30.11	10	10	10	12	2	-	0.00	
26	60	50	41	44	40	32	93	71	46	30.26	30.17	30.26	10	10	10	9	3	-	0.00	
27	64	50	37	32	32	30	79	50	28	30.33	30.28	30.33	10	10	9	5	2	-	0.00	
28	69	60	52	47	44	42	74	55	40	30.31	30.23	30.31	10	8	5	5	2	-	0.01	Rain
29	59	54	50	47	43	41	77	68	58	30.12	30.10	30.12	10	8	5	8	0	-	0.00	
30	59	55	51	54	48	45	94	81	67	30.02	30.00	30.02	10	8	2	14	5	18	0.21	Rain
December	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	61	56	52	55	49	46	90	79	64	30.24	30.09	30.24	10	10	6	15	8	22	0.04	Rain
2	64	58	53	54	53	50	93	82	67	30.36	30.31	30.36	10	10	10	12	5	-	0.00	
3	57	54	48	52	51	47	97	89	78	30.29	30.26	30.29	10	5	0	6	0	-	0.01	Fog
4	70	58	46	53	46	43	96	73	49	30.12	30.07	30.12	10	7	4	6	2	-	0.04	Rain
5	77	66	55	56	52	46	90	66	48	30.07	30.05	30.07	10	9	6	13	6	-	0.01	Rain
6	64	59	54	56	53	52	96	82	65	30.01	29.97	30.01	10	10	9	15	5	23	0.15	Rain
7	60	54	48	52	47	36	86	68	42	30.16	30.04	30.16	10	10	8	13	3	-	0.00	Rain
8	57	49	41	43	39	36	93	72	47	30.26	30.21	30.26	10	10	10	8	3	-	0.00	

9	59	52	44	48	37	28	89	62	34	30.14	30.01	30.14	10	10	5	16	3	29	0.12	Rain
10	57	54	51	50	47	42	92	77	62	30.09	30.01	30.09	10	9	6	12	7	20	0.30	Rain
11	55	50	43	45	42	36	86	68	47	30.23	30.12	30.23	10	10	10	13	4	18	0.00	
12	57	48	39	48	38	37	89	70	54	30.27	30.23	30.27	10	10	10	12	5	-	0.00	Rain
13	64	58	52	52	49	45	93	76	58	30.29	30.20	30.29	10	9	5	10	7	17	0.00	Rain
14	57	49	41	52	48	37	94	77	49	30.27	30.13	30.27	10	9	2	18	12	24	0.31	Rain
15	57	47	37	42	38	36	93	75	45	30.40	30.33	30.40	10	10	10	7	0	-	0.01	
16	57	47	37	43	37	33	93	74	40	30.41	30.37	30.41	10	10	7	7	1	-	0.00	
17	59	49	39	42	39	31	97	70	35	30.33	30.27	30.33	10	9	5	8	3	-	0.00	
18	61	50	39	43	36	36	86	66	44	30.19	30.15	30.19	10	10	10	6	0	-	0.00	
19	55	50	45	49	41	40	89	79	69	30.08	30.04	30.08	10	9	3	15	1	-	0.24	Rain
20	59	56	52	54	49	49	100	86	75	30.09	30.05	30.09	10	9	2	13	8	-	0.28	Rain
21	59	54	50	52	50	48	94	86	72	30.23	30.11	30.23	10	8	2	7	2	-	0.06	Rain
22	60	54	48	50	46	38	96	80	51	30.20	30.13	30.20	10	6	1	7	4	-	0.01	
23	57	52	48	52	47	47	97	82	72	29.94	29.89	29.94	10	9	6	17	2	25	0.03	Rain
24	59	57	54	54	49	48	93	81	72	29.96	29.85	29.96	10	9	2	17	14	24	0.10	Rain
25	53	50	46	49	47	35	90	78	66	30.04	29.95	30.04	10	9	7	14	2	17	0.38	Rain
26	53	45	37	34	33	31	79	62	45	30.35	30.23	30.35	10	10	10	13	3	-	0.00	
27	53	44	34	39	34	29	96	73	43	30.52	30.43	30.52	10	10	9	6	0	-	0.00	
28	51	42	34	34	34	32	96	64	48	30.51	30.37	30.51	10	10	10	13	2	-	0.01	
29	52	49	46	43	35	30	80	54	44	30.16	29.82	30.16	10	7	2	22	16	31	1.11	Rain
30	52	48	45	48	40	31	100	82	48	30.02	29.88	30.02	10	8	2	10	4	-	0.01	Rain
31	55	48	42	48	45	43	100	91	72	30.04	29.97	30.04	10	7	2	7	2	-	0.00	
January	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	55	50	43	52	47	42	97	86	75	30.12	29.99	30.12	10	7	2	15	10	22	1.01	Rain
2	52	46	39	44	39	37	97	85	69	30.14	30.11	30.14	10	10	9	13	2	-	0.11	Rain
3	50	42	34	36	34	27	93	74	41	30.36	30.25	30.36	10	10	9	9	3	-	0.00	
4	51	42	32	40	32	30	96	79	54	30.44	30.39	30.44	10	10	9	14	0	-	0.02	
5	54	46	39	35	32	31	79	63	43	30.35	30.31	30.35	10	10	10	13	8	-	0.00	
6	52	46	39	42	34	34	86	69	50	30.19	30.10	30.19	10	10	10	13	1	-	0.00	Rain
7	60	55	50	47	37	27	69	52	29	30.09	30.02	30.09	10	10	10	14	10	22	0.00	
8	69	60	51	47	39	33	80	52	26	30.12	30.10	30.12	10	10	10	10	8	-	0.00	

9	64	57	50	54	45	38	90	72	43	30.24	30.13	30.24	10	10	9	20	5	25	0.00	
10	60	55	48	54	53	48	97	85	67	30.22	30.20	30.22	10	9	7	8	3	-	0.00	
11	61	54	46	51	48	45	100	89	69	30.07	30.07	30.07	10	7	1	6	0	-	0.00	
12	57	52	46	52	46	45	100	93	74	30.27	30.12	30.27	7	3	0	12	3	-	0.01	Fog
13	57	51	45	48	48	43	100	95	72	30.30	30.25	30.30	8	3	0	7	2	-	0.01	Fog
14	51	46	42	47	42	42	100	98	80	30.23	30.21	30.23	10	4	0	7	2	-	0.01	Fog , Rain
15	57	50	44	50	45	44	100	92	74	30.11	30.10	30.11	10	6	2	12	3	-	0.00	
16	54	51	48	50	48	42	93	78	71	30.12	30.06	30.12	10	10	6	13	3	-	0.00	
17	54	49	44	44	42	40	85	74	64	30.14	30.10	30.14	10	8	6	9	3	-	0.00	
18	57	52	46	47	44	43	89	78	59	30.22	30.18	30.22	7	6	4	10	6	-	0.00	
19	52	50	48	49	48	46	100	96	80	30.23	30.19	30.23	10	5	2	7	1	-	0.02	Rain
20	55	50	43	50	49	41	94	81	62	30.17	30.10	30.17	10	9	5	13	2	-	0.00	
21	61	50	39	42	40	33	97	69	38	30.35	30.26	30.35	10	9	6	7	0	-	0.01	
22	57	47	37	43	34	32	83	68	44	30.39	30.34	30.39	10	10	10	10	1	-	0.00	
23	54	46	37	48	37	36	94	82	61	30.28	30.20	30.28	10	9	5	9	0	-	0.05	Rain
24	55	50	46	49	47	42	97	90	72	30.09	30.04	30.09	10	6	2	10	4	-	0.21	Rain
25	55	50	43	41	38	27	83	66	33	30.22	30.16	30.22	10	10	10	10	6	-	0.00	
26	54	48	41	46	37	35	83	72	57	30.26	30.22	30.26	10	10	10	10	3	-	0.04	Rain
27	60	54	48	52	44	43	94	80	67	30.25	30.21	30.25	10	10	4	14	11	-	0.00	Rain
28	55	50	46	48	45	43	96	83	62	30.32	30.26	30.32	10	9	7	9	2	-	0.00	
29	52	48	44	48	44	43	93	91	86	30.29	30.24	30.29	10	9	6	7	2	-	0.01	
30	55	52	48	47	47	37	90	76	57	30.23	30.20	30.23	10	9	4	13	4	17	0.02	Rain
31	55	48	41	39	38	33	82	64	43	30.15	30.12	30.15	10	10	10	13	4	-	0.00	
February	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	54	48	41	47	38	36	82	74	66	30.11	30.10	30.11	-	-	-	17	4	21	0.00	Rain
2	55	50	46	49	46	42	93	79	62	30.04	29.89	30.04	6	4	1	24	10	32	0.40	Rain
3	54	50	46	48	45	45	100	94	77	30.07	29.90	30.07	10	8	3	9	5	-	0.48	Rain
4	57	52	45	49	48	42	96	82	62	30.25	30.06	30.25	10	9	6	10	4	-	0.00	
5	61	50	39	48	41	38	97	80	50	30.33	30.28	30.33	10	10	10	6	0	-	0.01	
6	64	54	43	48	41	38	93	72	38	30.43	30.38	30.43	10	10	8	14	0	24	0.02	Rain
7	57	49	41	42	40	36	89	70	45	30.46	30.41	30.46	10	10	10	12	4	-	0.00	
8	57	48	39	44	38	32	93	65	39	30.35	30.32	30.35	10	10	10	9	0	-	0.01	

9	61	50	39	36	35	31	86	57	32	30.26	30.24	30.26	10	10	10	20	4	21	0.00	
10	64	54	45	40	31	26	63	49	25	30.30	30.26	30.30	10	10	10	10	6	-	0.00	
11	63	50	37	40	33	32	83	61	34	30.21	30.18	30.21	10	10	8	7	0	-	0.00	
12	64	52	39	47	38	31	83	63	39	30.17	30.14	30.17	10	10	9	12	1	-	0.00	
13	63	52	42	37	32	22	79	48	21	30.18	30.12	30.18	10	10	10	20	4	30	0.00	Rain
14	62	52	41	51	40	36	97	73	49	30.25	30.20	30.25	10	10	10	9	3	-	0.00	
15	64	56	48	51	48	45	90	77	50	30.19	30.17	30.19	10	10	10	9	3	-	0.00	Rain
16	62	57	53	56	48	43	90	80	66	30.18	30.08	30.18	10	9	4	21	11	26	0.06	Rain
17	66	62	57	55	50	50	94	75	63	30.15	30.10	30.15	10	10	6	23	13	32	0.17	Rain
18	59	54	50	54	54	43	94	79	64	30.23	30.09	30.23	10	10	9	14	8	23	0.05	Rain
19	55	50	44	45	42	40	89	74	59	30.26	30.23	30.26	10	10	10	8	4	-	0.00	
20	55	52	46	46	45	42	90	79	62	30.08	30.00	30.08	10	10	10	8	2	-	0.01	Rain
21	55	50	46	48	44	40	93	80	57	29.90	29.88	29.90	10	10	7	8	0	-	0.05	Rain
22	57	52	48	49	48	39	100	80	55	29.77	29.71	29.77	10	9	4	10	0	-	0.12	Rain
23	60	52	44	48	43	42	93	78	62	29.99	29.86	29.99	10	10	10	13	0	-	0.00	
24	63	56	50	49	46	41	94	73	45	30.08	30.02	30.08	10	9	4	14	9	17	0.05	Rain
25	60	54	48	55	48	44	100	81	57	29.94	29.74	29.94	10	7	2	21	15	37	1.71	Rain
26	55	50	46	47	44	41	90	79	59	30.00	29.88	30.00	10	9	6	16	10	22	0.22	Rain
27	57	51	45	46	43	41	93	79	57	30.16	30.05	30.16	10	10	8	12	7	-	0.10	
28	57	49	41	48	40	39	93	72	49	30.22	30.18	30.22	10	10	10	12	4	-	0.00	
29	57	50	44	46	40	39	89	75	60	30.20	30.16	30.20	10	10	10	10	5	-	0.00	
March	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	55	52	48	49	44	41	90	77	62	30.08	29.93	30.08	10	9	5	16	8	21	0.03	Rain
2	66	56	46	45	44	37	93	66	34	30.03	29.88	30.03	10	10	9	20	10	25	0.01	Rain
3	61	54	46	50	40	34	83	61	36	30.10	30.06	30.10	10	10	10	9	5	-	0.00	Rain
4	61	53	45	49	44	43	93	77	54	30.12	30.05	30.12	10	10	10	20	4	25	0.00	
5	62	54	45	50	44	41	90	78	64	30.35	30.23	30.35	10	10	10	15	1	-	0.00	
6	64	54	45	52	46	42	93	79	52	30.41	30.36	30.41	10	10	8	10	3	-	0.00	
7	75	60	46	54	49	45	97	74	41	30.39	30.34	30.39	10	9	1	8	0	-	0.01	
8	79	65	51	57	50	46	83	65	44	30.25	30.22	30.25	10	10	10	7	0	-	0.00	
9	78	66	53	57	52	50	89	68	42	30.19	30.14	30.19	10	10	10	12	1	-	0.00	
10	82	68	55	52	45	40	84	46	23	30.08	30.06	30.08	10	10	10	8	3	-	0.00	

11	78	64	51	54	44	39	80	56	27	30.03	30.01	30.03	10	10	10	10	1	-	0.00	
12	75	63	51	55	49	45	81	69	42	30.01	29.96	30.01	10	10	10	12	3	-	0.00	
13	80	65	50	55	50	46	89	67	31	30.13	30.02	30.13	10	10	10	13	0	-	0.00	
14	80	66	51	57	51	48	90	71	37	30.22	30.18	30.22	10	9	7	13	1	-	0.00	
15	82	68	55	57	50	44	83	54	25	30.19	30.16	30.19	10	10	10	9	0	-	0.00	
16	82	70	57	54	45	39	65	42	23	30.14	30.08	30.14	10	10	10	10	1	-	0.00	
17	84	69	54	57	47	38	72	48	24	30.03	29.98	30.03	10	10	10	10	2	-	0.00	
18	80	68	55	58	51	47	87	68	32	30.04	29.93	30.04	10	10	10	14	1	-	0.00	
19	70	60	51	54	50	42	89	67	47	30.10	30.05	30.10	10	10	10	13	0	-	0.00	
20	80	64	48	57	48	42	93	66	34	30.15	30.09	30.15	10	10	7	14	0	-	0.00	
21	66	60	54	56	55	50	94	85	70	30.19	30.15	30.19	10	8	5	13	6	-	0.00	
22	66	59	52	55	50	49	93	80	63	30.04	30.02	30.04	10	10	8	17	1	-	0.00	
23	66	58	51	50	49	42	89	70	42	30.11	30.00	30.11	10	10	8	15	4	-	0.00	
24	66	60	53	53	48	46	83	71	49	30.19	30.14	30.19	10	10	10	20	2	-	0.00	
25	62	55	48	55	46	42	100	78	48	30.17	30.10	30.17	10	9	2	14	2	22	0.30	Rain
26	61	52	42	47	44	41	97	73	51	30.30	30.23	30.30	10	10	10	12	3	-	0.01	
27	64	56	48	51	45	44	87	74	54	30.33	30.30	30.33	10	10	10	13	5	-	0.00	
28	75	62	48	54	47	45	93	62	35	30.20	30.12	30.20	10	10	10	8	2	-	0.00	
29	71	62	52	57	50	48	90	77	57	30.04	30.01	30.04	10	10	10	17	2	-	0.00	
30	62	56	50	50	47	42	88	69	50	30.08	30.03	30.08	10	10	10	14	4	17	0.00	Rain
31	64	55	46	48	42	38	86	67	43	30.08	30.03	30.08	10	10	10	18	4	20	0.00	
April	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	70	57	44	46	40	32	82	52	27	30.06	29.96	30.06	10	10	10	17	4	24	0.00	
2	71	63	55	48	33	25	65	39	26	29.88	29.82	29.88	10	10	10	21	14	31	0.00	
3	75	60	46	53	43	35	92	62	24	30.04	29.94	30.04	10	10	10	18	3	-	0.00	
4	61	56	50	50	47	43	89	75	60	30.11	30.02	30.11	10	10	10	20	2	-	0.00	
5	63	56	51	43	43	40	71	60	48	30.12	30.11	30.12	10	10	10	13	6	20	0.00	
6	63	54	46	46	42	40	77	63	50	30.14	30.11	30.14	10	10	10	17	7	21	0.00	
7	73	58	46	52	44	43	89	74	47	30.14	30.09	30.14	10	10	10	20	4	-	0.00	
8	69	59	50	53	50	48	94	82	59	30.03	30.01	30.03	10	10	9	18	3	-	0.00	
9	73	62	52	56	50	49	94	73	46	30.07	30.03	30.07	10	8	5	13	5	-	0.00	
10	78	62	48	62	52	48	97	81	46	30.01	29.99	30.01	10	8	2	14	4	-	0.00	

11	66	58	52	54	50	48	90	82	63	30.07	30.01	30.07	10	9	5	14	0	-	0.00	
12	64	58	51	53	49	43	86	74	58	30.12	30.07	30.12	10	10	10	20	4	24	0.00	
13	64	56	48	47	42	42	74	64	50	30.16	30.12	30.16	10	10	10	15	5	16	0.00	
14	66	58	50	48	44	43	80	62	42	30.16	30.15	30.16	10	10	10	13	3	20	0.00	
15	63	56	48	47	43	34	75	61	38	30.12	30.12	30.12	10	10	10	17	5	17	0.00	
16	63	52	42	44	38	37	86	64	43	30.07	30.06	30.07	10	10	10	13	1	-	0.01	Rain
17	63	52	42	46	42	39	89	68	43	30.15	30.02	30.15	10	10	7	17	2	21	0.03	
18	61	52	42	52	43	40	94	80	51	30.27	30.22	30.27	10	9	3	13	4	-	0.26	Rain
19	66	57	50	49	48	44	93	69	47	30.22	30.19	30.22	10	10	8	14	3	22	0.01	Rain
20	66	60	55	55	51	46	100	78	58	30.22	30.17	30.22	10	9	2	21	10	-	0.04	Rain
21	66	58	48	56	49	41	80	66	52	30.17	30.14	30.17	10	10	10	20	4	23	0.00	Rain
22	75	60	46	53	43	33	86	55	22	30.14	30.10	30.14	10	10	10	22	5	18	0.00	
23	82	67	48	54	46	42	78	58	24	30.12	30.09	30.12	10	10	10	13	0	18	0.00	
24	84	68	52	54	50	48	83	56	31	30.06	30.03	30.06	10	10	10	13	2	-	0.00	
25	88	72	55	57	49	44	77	48	22	30.08	30.02	30.08	10	10	10	13	3	-	0.00	
26	91	75	57	60	50	44	64	43	26	30.11	30.08	30.11	10	10	10	13	2	-	0.00	
27	91	76	59	58	47	34	83	47	14	30.09	30.05	30.09	10	10	10	16	2	22	0.00	
28	78	66	54	57	54	44	93	69	31	29.93	29.83	29.93	10	9	7	18	3	-	0.00	
29	81	70	59	50	39	30	67	35	17	29.98	29.86	29.98	10	10	10	13	5	21	0.00	
30	72	62	53	55	48	42	88	69	55	30.14	30.08	30.14	10	10	7	14	4	-	0.00	
May	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	79	66	54	56	51	39	90	73	25	30.19	30.13	30.19	10	9	7	13	2	-	0.00	
2	84	70	55	59	52	46	78	61	27	30.14	30.11	30.14	10	10	9	17	0	-	0.00	
3	78	67	57	58	56	51	90	73	48	30.06	30.04	30.06	10	10	10	14	5	-	0.00	
4	73	64	53	54	50	46	90	68	49	29.99	29.98	29.99	10	10	10	20	5	-	0.00	
5	68	58	50	51	46	45	83	66	51	29.99	29.98	29.99	10	10	10	18	4	22	0.00	
6	72	62	51	53	46	43	74	62	42	30.07	29.98	30.07	10	10	10	16	2	-	0.00	
7	73	63	53	56	48	48	83	65	49	30.16	30.07	30.16	10	10	10	16	9	21	0.00	
8	72	63	54	54	50	42	83	62	35	30.21	30.16	30.21	10	10	10	21	4	29	0.00	
9	73	62	51	52	45	42	74	58	38	30.14	30.07	30.14	10	10	10	22	5	21	0.00	
10	69	61	53	46	45	41	75	58	40	30.07	30.02	30.07	10	10	10	17	12	23	0.00	
11	64	58	48	46	45	40	77	59	41	30.05	30.01	30.05	10	10	10	16	3	21	0.00	

12	77	62	48	49	45	40	80	60	30	30.05	30.01	30.05	10	10	10	18	2	22	0.00	
13	71	60	51	55	49	47	89	73	52	30.09	30.05	30.09	10	10	10	21	4	-	0.00	
14	73	62	52	54	50	46	86	66	49	30.06	30.05	30.06	10	10	10	20	4	-	0.00	
15	72	62	52	52	49	47	89	67	43	30.04	30.01	30.04	10	10	10	16	3	-	0.00	
16	73	63	52	51	49	44	86	62	39	29.97	29.96	29.97	10	10	10	17	3	-	0.00	
17	68	59	52	49	47	45	83	64	47	30.11	29.99	30.11	10	10	10	16	4	21	0.00	
18	70	61	52	51	49	44	83	66	43	30.17	30.12	30.17	10	10	10	21	3	22	0.00	
19	73	62	50	53	47	45	83	66	38	30.11	30.09	30.11	10	10	10	21	5	21	0.00	
20	66	60	55	50	48	46	80	68	52	30.13	30.04	30.13	10	10	10	23	6	21	0.00	
21	63	59	55	52	46	45	74	69	59	30.12	30.10	30.12	10	10	10	10	6	-	0.00	
22	66	60	55	50	49	47	77	68	52	30.11	30.07	30.11	10	10	10	12	5	-	0.00	
23	69	62	54	49	48	44	74	61	42	30.02	29.99	30.02	10	10	10	14	7	22	0.00	
24	69	60	50	50	45	44	77	64	50	29.96	29.94	29.96	10	10	10	14	2	21	0.00	
25	72	61	57	55	48	46	84	70	49	29.98	29.95	29.98	10	10	10	20	3	-	0.00	
26	73	64	55	57	53	51	88	73	53	30.01	29.96	30.01	10	10	10	18	6	-	0.00	
27	73	65	57	59	55	53	88	71	55	30.02	29.98	30.02	10	10	10	21	6	-	0.00	
28	69	63	55	60	54	44	90	71	42	30.05	30.01	30.05	10	10	6	15	4	21	0.04	Rain
29	75	62	50	53	46	43	80	58	34	30.08	30.03	30.08	10	9	6	17	3	-	0.00	
30	77	63	51	59	50	47	86	64	40	30.08	30.06	30.08	10	9	2	16	1	-	0.00	
31	79	66	55	57	52	50	83	64	43	30.02	29.97	30.02	10	10	10	15	1	-	0.00	
June	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	78	66	55	57	50	50	83	66	48	29.91	29.90	29.91	10	10	10	17	1	-	0.00	
2	73	64	55	56	53	51	87	70	51	29.93	29.87	29.93	10	10	10	18	3	-	0.00	
3	68	62	54	54	52	52	88	74	61	30.07	29.97	30.07	10	10	10	18	3	-	0.00	
4	70	62	54	55	51	41	87	71	45	30.10	30.05	30.10	10	10	10	18	3	-	0.00	
5	79	66	55	61	54	46	77	62	48	30.09	30.04	30.09	10	10	10	23	6	-	0.00	
6	80	68	55	52	51	48	83	57	36	29.96	29.95	29.96	10	10	10	22	7	26	0.00	
7	71	62	53	48	47	42	72	55	38	29.90	29.89	29.90	10	10	10	14	7	28	0.00	Rain
8	68	60	52	50	46	44	75	63	42	29.92	29.88	29.92	10	10	10	17	6	23	0.00	
9	75	63	52	52	49	47	86	64	41	30.11	29.98	30.11	10	10	10	16	6	23	0.00	
10	70	62	54	53	51	46	81	66	51	30.13	30.11	30.13	10	10	10	20	5	-	0.00	
11	73	63	53	52	48	43	86	62	41	30.04	30.03	30.04	10	10	10	22	4	-	0.00	

12	75	64	53	56	48	46	80	62	45	30.07	30.00	30.07	10	10	10	18	3	-	0.00
13	80	66	54	55	51	48	86	65	35	30.10	30.07	30.10	10	10	10	18	4	25	0.00
14	80	68	57	58	54	53	87	66	42	30.03	29.95	30.03	10	10	9	16	3	-	0.00
15	95	76	60	59	54	48	81	59	21	29.85	29.80	29.85	10	9	7	15	4	21	0.00
16	78	69	61	60	57	53	87	67	52	29.89	29.78	29.89	10	9	7	15	2	-	0.00
17	78	68	57	58	54	53	83	64	47	29.98	29.91	29.98	10	10	10	14	6	-	0.00
18	73	65	57	56	52	52	84	67	53	30.08	29.97	30.08	10	10	10	18	4	20	0.00
19	68	62	57	56	53	53	84	73	63	30.12	30.07	30.12	10	10	10	18	3	-	0.00
20	68	62	55	55	54	51	87	74	63	30.12	30.11	30.12	10	10	10	21	6	-	0.00
21	72	63	54	56	52	51	88	72	53	30.02	29.99	30.02	10	10	10	20	3	23	0.00
22	70	62	55	57	53	50	84	71	54	29.97	29.91	29.97	10	10	10	20	2	-	0.00
23	72	64	54	56	52	50	86	70	51	30.12	30.00	30.12	10	10	10	23	4	22	0.00
24	73	64	54	56	52	48	84	68	48	30.14	30.12	30.14	10	10	10	21	6	22	0.00
25	82	68	55	55	50	49	84	59	34	30.14	30.14	30.14	10	10	10	18	4	20	0.00
26	82	71	57	58	56	48	87	62	34	30.12	30.07	30.12	10	10	10	18	3	21	0.00
27	78	66	55	60	53	50	90	71	45	29.98	29.92	29.98	10	10	10	17	3	-	0.00
28	78	66	55	58	55	53	90	70	53	29.94	29.88	29.94	10	10	10	17	3	-	0.00
29	77	69	60	56	55	52	81	64	45	29.98	29.94	29.98	10	10	10	17	5	21	0.00
30	80	68	57	58	56	52	90	69	43	30.07	29.98	30.07	10	10	10	15	6	-	0.00

July	Temperature			Dew Point			Humidity			Pressure			Visibility			Wind		Gust Speed	Precipitation	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
1	72	65	57	57	53	52	81	70	56	30.08	30.07	30.08	10	10	10	20	6	-	0.00	
2	77	66	57	59	54	54	90	74	52	30.07	30.06	30.07	10	10	10	18	5	-	0.00	
3	77	67	57	59	57	55	94	74	52	29.98	29.96	29.98	10	10	10	20	8	-	0.00	
4	79	68	57	61	56	55	94	77	52	29.95	29.93	29.95	10	10	8	14	6	-	0.00	
5	78	68	59	62	59	56	94	80	56	30.01	29.94	30.01	10	8	5	15	5	-	0.00	
6	77	68	60	63	58	57	90	77	62	30.01	30.01	30.01	10	10	7	15	7	-	0.00	
7	80	69	59	60	56	54	90	70	50	29.96	29.94	29.96	10	10	10	13	5	-	0.00	
8	80	68	57	55	54	51	87	66	39	29.91	29.88	29.91	10	10	10	12	5	-	0.00	
9	75	65	55	56	52	51	84	68	49	29.98	29.92	29.98	10	10	10	20	9	23	0.00	
10	73	66	59	58	54	53	83	71	59	30.03	29.98	30.03	10	10	10	18	8	-	0.00	
11	79	68	57	60	54	52	87	72	46	29.99	29.97	29.99	10	10	10	16	6	-	0.00	
12	71	64	57	59	56	54	88	75	63	29.96	29.91	29.96	10	10	8	17	7	-	0.00	

13	71	64	55	58	54	53	87	74	63	30.01	29.96	30.01	10	10	10	18	9	-	0.00
14	73	64	55	58	55	51	94	77	57	30.06	30.02	30.06	10	10	7	18	9	-	0.00
15	78	67	55	60	54	51	87	69	48	30.06	30.05	30.06	10	10	10	20	9	22	0.00
16	75	68	60	62	59	57	94	81	59	30.02	30.01	30.02	10	10	10	18	7	-	0.00
17	79	70	61	62	56	56	87	68	48	30.02	29.98	30.02	10	10	10	21	10	-	0.00
18	81	72	63	64	60	59	90	73	56	30.05	30.02	30.05	10	10	10	23	9	21	0.00
19	84	73	63	64	60	56	90	72	45	30.06	30.02	30.06	10	10	10	18	7	-	0.00
20	75	68	61	62	56	54	90	76	64	30.05	30.03	30.05	10	10	10	18	8	-	0.00
21	82	70	60	63	58	57	93	78	52	29.97	29.96	29.97	10	10	9	14	4	-	0.00
22	77	68	62	62	60	59	94	80	57	29.93	29.92	29.93	10	9	7	15	5	-	0.00
23	73	68	63	62	59	58	87	78	64	29.93	29.89	29.93	10	9	7	20	8	-	0.00
24	75	70	64	62	61	60	88	77	64	30.04	29.95	30.04	10	10	9	18	7	22	0.00
25	80	72	63	64	60	60	93	77	58	30.04	30.02	30.04	10	10	10	14	4	-	0.00
26	78	70	62	63	61	59	94	81	60	29.97	29.95	29.97	10	9	6	14	3	-	0.00
27	75	68	61	61	59	57	90	77	60	29.95	29.91	29.95	10	9	7	18	8	-	0.00
28	75	67	59	60	58	54	90	74	55	30.00	29.95	30.00	10	10	10	15	4	-	0.00
29	70	62	59	57	56	54	88	78	59	30.00	29.96	30.00	10	10	10	8	4	-	0.00



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