

BUILDING STANDARDS COMMISSION

2525 Natomas Park Drive, Suite 130
Sacramento, California 95833-2936
(916) 263-0916 FAX (916) 263-0959



January 27, 2014

Jerald Isaak, Chief
Fire Administration
City of Reedley
1060 D Street
Reedley, CA 93654

RE: Ordinance #2013-005

Dear Mr. Isaak:

This letter is to advise you of our determination regarding the referenced ordinance with express findings received from your agency on December 20, 2013.

Our review finds the submittal to contain one ordinance modifying provisions of the 2013 California Building Standards Code in Title 24, California Code of Regulations (code), and express findings complying with Health and Safety Code §§17958.7 and 18941.5. The code modification is accepted for filing and is enforceable. This letter attests only to the satisfaction of the cited law for filing of local code amendment supported by an express finding with the Commission. The Commission is not authorized by law to evaluate the merit of the code modification or the express finding.

Local modifications to the code are specific to a particular edition of the code. They must be readopted and filed with the Commission in order to remain in effect when the next triennial edition of the code is published.

On a related matter, should your city receive and ratify Fire Protection District ordinances making modifications to the code, be advised that Health and Safety Code §13869.7(c) requires such ratified ordinances and express findings to be filed with the Department of Housing and Community Development, Division of Codes and Standards, State Housing Law Program, rather than this Commission. Also, ordinances making modifications to the energy efficiency standards of the code may require approval from the California Energy Commission pursuant to Public Resources Code §25402.1(h)(2).

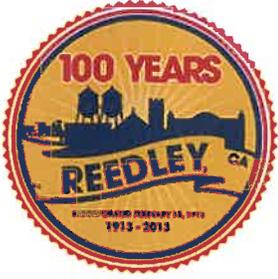
If you have any questions or need any further information, you may contact me at (916) 263-0916.

Sincerely,

A handwritten signature in blue ink that reads "Enrique M. Rodriguez".

Enrique M. Rodriguez
Associate Construction Analyst

cc: Chron
Local Filings



CITY OF REEDLEY

Fire Administration
Jerald Isaak, Chief
1060 D Street, Reedley, CA 9365
559-637-4230



December 17, 2013

California Building Standards Commission
2525 Natomas Park Drive, Suite #130
Sacramento, CA 95833

To whom it may concern;

Enclosed please find City of Reedley Ordinance #2013-005 amending the 2013 California Building Standards Codes based on local findings and conditions.

Sincerely,

A handwritten signature in blue ink that reads "Jerald Isaak".

Jerald Isaak, Chief

Copy: Gary Higginbotham, Building Official
File

ORDINANCE NO. 2013-005

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF REEDLEY
AMENDING CHAPTER 1 OF TITLE 9 OF THE REEDLEY CITY CODE
RELATING TO THE BUILDING CODES**

THE CITY COUNCIL OF THE CITY OF REEDLEY DOES ORDAIN AS FOLLOWS:

SECTION 1. FINDINGS AND CONDITIONS: The City Council is informed and finds that pursuant to the Health and Safety Code, Sections 17958.7 and 18941.5, it is reasonably necessary to adopt and amend the requirements of the 2013 edition of the California Fire Code to properly protect the health, safety and welfare of the existing and future residents and workers within the City, and that these amendments are justified by particular climatic conditions that include, but are not limited by the following findings:

1.1 CLIMATIC – EXTREME TEMPERATURES

1.1.1 The region is subject to relatively low amounts of precipitation, very low humidity levels and extremely high temperatures. These climatic conditions are conducive to the spread of fire. Attached as Exhibit 1 and incorporated by reference is historical data compiled by the National Weather Service documenting temperatures experienced in Fresno and the greater area which includes Reedley for the months of May through October, and data from the Western Regional Climatic Center documenting humidity. The temperature data shows that during the months of July and August, the daily high temperature has averaged in excess of 90 degrees, and temperatures often exceed 100 degrees Fahrenheit. During the same months humidity is usually less than 40%, and humidity measurements near 20% are not uncommon. These conditions contribute to an increased likelihood of fire. Moreover, minor fires have a greater tendency of spreading rapidly due to such conditions.

1.1.2 The Heat Stress Index published by the Federal Emergency Management Agency in its publication entitled Emergency Incident Rehabilitation sets forth the stress placed on the human body when exposed to various temperatures and humidity's. This Heat Stress Index is attached as Exhibit 2 and incorporated by reference. A note under the Heat Stress Index Chart states that 10 degrees should be added to the temperature when protective clothing is worn and an additional 10 degrees should be added when standing in direct sunlight. According to this chart, a person exposed to temperatures between 90 and 105 degrees is subject to heat cramps and heat exhaustion.

1.1.3 Because of the extreme heat Reedley experiences during the summer months, Reedley Firefighters responding to fires and other incidents are regularly exposed to temperatures in excess of 105 degrees, when accounting for their protective gear, exposing them to the probability of heat cramps, heat exhaustion and possibly heat stroke.

SECTION 2. Section 9-1-1 of Chapter 1 of Title 9 of the Reedley City Code is hereby amended to read as follows:

“9-1-1: ADOPTION OF CODES: Pursuant to the provisions of Government Code section 50022.2, the City Council does hereby adopt by specific reference thereto and incorporation herein by said reference, the provisions, rules and regulations specified and set forth in the following codes, subject to the amendments, if any, set forth in section 9-1-2 of this chapter:

- | | |
|--------------------------------------|---|
| Administrative code | California Administrative Code, 2013 edition, including appendices thereto, as published by the California Building Standards Commission; |
| Building code | California Building Code, 2013 edition, including appendices as follows, as published by the California Building Standards Commission; <ul style="list-style-type: none">○ Appendix C: Group U – Agricultural Buildings○ Appendix F: Rodent proofing○ Appendix G: Flood-Resistant Construction○ Appendix H: Signs○ Appendix I: Patio Covers○ Appendix J: Grading○ Appendix K: Flood Protection Plan |
| California Residential Building code | California Residential Building Code Part 2.5, 2013 edition, including appendices as follows, as published by the California Building Standards Commission; <ul style="list-style-type: none">○ Appendix G: Swimming Pools○ Appendix H: Patio Covers○ DELETE Section 1.8.8 Appeals Board. |
| Electrical code | California Electrical code, 2013 edition, including appendices thereto, as published by the California Building Standards Commission; <ul style="list-style-type: none">○ DELETE Section 89.108.8 Appeals Board. |
| Mechanical code | Uniform Mechanical Code, 2013 edition, including appendices as follows, as published by the California Building Standards Commission; <ul style="list-style-type: none">○ Appendix B: Procedures to be followed to Place Equipment into Operation○ Appendix C: Installation and Testing of Oil (liquid) Fuel-fired Equipment○ DELETE Section 1.8.8 Appeals Board.○ Appendix F: Sizing of Venting Systems |

Serving Appliances Equipped With Draft Hoods, Category 1 Appliances, and Appliances Listed For Use With Type B Vents

Plumbing code	California Plumbing Code, 2013 edition, including appendices as follows, as published by the California Building Standards Commission; <ul style="list-style-type: none">○ Appendix A: Recommended Rules of Sizing the Water Supply System○ Appendix B: Explanatory Notes on Combination Waste and Vent Systems○ Appendix D: Sizing Storm Water Drainage Systems○ Appendix I: Installation Standards○ Appendix H: Private Sewage Systems○ DELETE Section 1.8.8 Appeals Board.
Energy code	California Energy Code, 2013 edition, <i>excluding</i> appendices thereto, as published by the California Energy Standards Commission;
Historical Building code	California Historical Building Code, 2013 edition, including appendices thereto, as published by the California Building Standards Commission;
Fire code	California Fire Code, 2013 edition, including appendices thereto, as published by the California Building Standards Commission;
Existing Building code	California Existing Building Code, 2013 edition, including appendices thereto, as published by the California Building Standards Commission;
Green Building Standards code	California green building Standards Code, 2013 edition, including appendices thereto, as published by the California Building Standards Commission;
Reference Standards code	California Reference Standards Code, 2013 edition, including appendices thereto, as published by the California Building Standards Commission;
Housing Code	Uniform Housing Code, 1997 edition, as published by the International Conference of Building Officials;
Abatement of dangerous buildings	Uniform Code for the Abatement of Dangerous Buildings, 1997 edition, as published by the International Conference of Building Officials;

The above codes are hereby adopted by the City Council as the building codes of the City, for all intents and purposes and to the same effect as if each and every section, paragraph, subparagraph, word, phrase or clause contained therein were fully set forth herein. If any section, subsection, sentence, clause or phrase of this chapter is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this chapter. The City Council hereby declares it would have passes each section, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional. One copy of each of said codes hereby adopted are on file in the office of the building official and is available for examination by the public. (Ord. 757, 7-9-1991; amd. Ord. 97-15, 1-13-1998; Ord. 99-12, 11-23-1999; Ord. 2003-03, 4-22-2003; Ord. 2005-07, 10-25-2005; Ord. 2010-09, 1-11-2011)”

SECTION 3. Section 9-1-2(A)(d)(7) of Chapter 1 of Title 9 of the Reedley City Code is hereby added to read as follows:

“7. Chapter 1 of the 2013 California Building Code is hereby amended to read as follows:

Section 1.8.8 Appeals Board

1.8.8.1 General. Every city, county or city and county shall establish a local appeals board and a housing appeals board. The local appeals board and housing appeals board shall be the governing body of the city. The board may appoint one or more hearing examiners to hear appeals brought before the board. The hearing examiners shall not be employees of the jurisdiction and shall be qualified and specifically knowledgeable in the California Building Standards Codes and applicable local ordinances. The hearing examiner or examiners shall submit a written report to the board. Such report shall contain a brief summary of the evidence considered and state the examiners findings, conclusions and recommendations.

SECTION 4. Section 9-1-2(B) of Chapter 1 of Title 9 of the Reedley City Code is hereby modified to read as follows:

“B. Electrical Code:

Section 89.108.8 Appeals Board

89.108.8.1 General. Every city, county or city and county shall establish a local appeals board and a housing appeals board. The local appeals board and housing appeals board shall be the governing body of the city. The board may appoint one or more hearing examiners to hear appeals brought before the board. The hearing examiners shall not be employees of the jurisdiction and shall be qualified and specifically knowledgeable in the California Building Standards Codes and

applicable local ordinances. The hearing examiner or examiners shall submit a written report to the board. Such report shall contain a brief summary of the evidence considered and state the examiners findings, conclusions and recommendations.

SECTION 5. Section 9-1-2(A)(d)(6) of Chapter 1 of Title 9 of the Reedley City Code is hereby amended to read as follows:

“6. Section 903 of the 2013 California Building Code and the 2013 California Fire Code is hereby amended to add subsection 903.1.1.1. as follows:

903.1.1.1. Automatic Sprinklers, Where Required.

Notwithstanding any other provision of this code, standard automatic sprinkler systems shall be installed and maintained in all group A, B, E, F, I, M, R1, R2, S, U, and H5 occupancies exceeding five thousand (5,000) square feet in gross floor area. When such areas have any eaves or an overhang exceeding a distance of three feet (3’) from the wall or support, the gross roof area shall include, but not be limited to, covered walkways, patios, porches or any architectural feature attached to or within ten feet (10’) of the structure. In existing buildings where an automatic sprinkler system does not exist, and a change in the character of occupancy or use is made, or the floor area is increased, and the gross floor area exceeds the areas set forth in this subsection before or after the addition or change, an approved automatic sprinkler system shall be installed through the structure, unless a specific development agreement is approved by the building official for the existing areas.

Area separation walls, occupancy separation walls, or parapets shall not be used to create separate buildings on the same property to exclude required automatic sprinkler systems. (Ord. 2005-08, 10-26-2005)”

SECTION 6. Section 9-1-2(C) of Chapter 1 of Title 9 of the Reedley City Code is hereby amended to read as follows:

“1. Chapter 28 of the California Fire Code, known as the California Code of Regulations, Title 24, Part 9 is hereby amended by adding thereto a new section 2810 to read as follows;

**SECTION 2810
STORAGE OF COMBUSTIBLE IDLE PALLETS**

2810.1 General. Storage of combustible idle pallets shall be in accordance with this section.

2810.2 Storage location. Pallets shall be stored outside or in a separate building designed for pallet storage unless stored indoors in accordance with Section 2810.3.

2810.3 Indoor storage. Pallet storage in a building used for other storage or other purposes shall be in accordance with the provisions for high-hazard commodity high-piled combustible storage contained in Chapter 32.

2810.4 *Outdoor storage.* Pallets stored outside shall be stored in accordance with Table 2810.4.1 and Table 2810.4.2 and Sections 2810.5 and 2810.6

2810.5 *Outdoor pile dimensions.* Pallet stacks shall not exceed 15 feet in height nor shall cover an area greater than 500 square feet. Pallet stacks shall be arranged to form stable piles. Piles shall be separated by a minimum of 8 feet. Piles shall be a minimum of 10 feet from property lines.

2810.6 *Outdoor storage yard.* The outside storage yard shall be kept clean and well maintained.

2810.7 *Fire department access.* Fire department access roadways, meeting the requirements of the City of Reedley Fire Department, shall be maintained within 150 feet of all pallet storage and structures.

**Table 2810.4.1
Required Clearance Between Outside Idle Pallet Storage and Other Yard Storage**

Pile Size	Minimum Distance, in feet
Under 50 pallets	20
50-200 pallets	30
Over 200 pallets	50

**Table 2810.4.2
Required Clearance Between Outside Idle Pallet Storage and Structures**

Wall Construction	Minimum distance of Wall from Storage, in feet		
	Under 50 Pallets	50 to 200 Pallets	Over 200 Pallets
Masonry or concrete with no openings	0	0	15
Masonry or concrete with protected openings	10	20	30
Wood, metal, other	20	30	50

SECTION 7. The City Clerk is hereby directed to cause a summary of this Ordinance to be published by one insertion in a newspaper of general circulation in the community at least five (5) days prior to adoption and again fifteen (15) days after its adoption. If a summary of the ordinance is published, then the City Clerk shall cause a certified copy of the full text of the proposed ordinance to be posted in the office of the City Clerk at least five days prior to the Council meeting at which the ordinance is adopted and again after the meeting at which the ordinance is adopted. The summary shall be approved by the City Attorney.

This Ordinance shall take effect and be in full force thirty (30) days from and after its adoption.

ATTEST:

I hereby certify that the foregoing Ordinance No. 2013-005 was introduced and given first reading by title only at a regular meeting of the City Council of the City of Reedley held on the 26th day of November, 2013, and was thereafter duly passed, approved, and adopted at a regular meeting of said City Council held on the 10th day of December, 2013, by the following vote:

AYES: Soleno, Rodriguez, Fast, Beck.
NOES: None.
ABSENT: Anita
ABSTAIN: None.



Robert O. Beck, Mayor

ATTEST:



Sylvia Plata, City Clerk

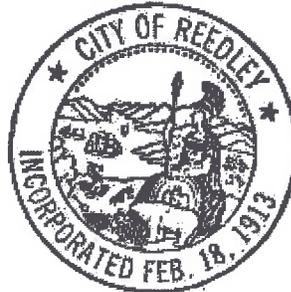


EXHIBIT 1, PAGE 1

Normals, Means & Extremes

May - Fresno, CA

Values in red represent the extremes for the month.

Date	Temperature							Degree Days				Precipitation			Date
	Normal			High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date	Record Maximum	
	Max.	Min.	Avg.												
1	80	53	66	101 / 1947	57 / 1955	62 / 2006	38 / 1899	2	2315	3	54	0.02	10.88	0.67 / 1995	1
2	80	53	67	101 / 1947	60 / 1908	64 / 1947	40 / 1964	2	2317	3	57	0.03	10.91	0.57 / 1908	2
3	80	53	67	99 / 1947	52 / 1892	63 / 2004	38 / 1964	2	2319	4	61	0.02	10.93	0.80 / 1892	3
4	81	54	67	100 / 2004	58 / 1930	64 / 2004	39 / 1950	2	2321	4	65	0.02	10.95	0.20 / 1998	4
5	81	54	68	99 / 1990	57 / 1921	65 / 1989	36 / 1972	2	2323	4	69	0.01	10.96	1.02 / 2005	5
6	81	54	68	100 / 1987	58 / 1921	69 / 1992	41 / 1975	2	2325	4	73	0.02	10.98	0.48 / 1994	6
7	82	54	68	103 / 1987	56 / 1905	69 / 1989	35 / 1955	1	2326	5	78	0.02	11.00	1.02 / 1905	7
8	82	55	68	101 / 2001	59 / 1977	71 / 1987	39 / 1933	1	2327	5	83	0.01	11.01	0.38 / 1918	8
9	82	55	69	101 / 2001	57 / 1922	66 / 2001	39 / 1922	1	2328	5	88	0.02	11.03	0.63 / 1929	9
10	83	55	69	99 / 1993	60 / 1933	66 / 1931	41 / 1922	1	2329	5	93	0.01	11.04	0.16 / 1900	10
11	83	55	69	100 / 2001	62 / 1900	70 / 1987	40 / 1909	1	2330	5	98	0.02	11.06	1.62 / 1900	11
12	83	56	69	102 / 2013	54 / 1998	70 / 2013	42 / 1907	1	2331	5	103	0.01	11.07	0.33 / 1998	12
13	83	56	70	103 / 1976	64 / 1998	66 / 2013	44 / 1956	1	2332	6	109	0.01	11.08	1.00 / 1931	13
14	84	56	70	102 / 1972	64 / 1957	68 / 2013	43 / 1955	1	2333	6	115	0.02	11.10	0.56 / 1894	14
15	84	56	70	102 / 1927	60 / 1953	70 / 2006	42 / 1955	1	2334	6	121	0.01	11.11	0.83 / 1987	15
16	84	56	70	103 / 1970	63 / 2011	71 / 2008	40 / 1894	1	2335	6	127	0.01	11.12	0.13 / 2005	16
17	85	57	71	106 / 2009	64 / 2011	73 / 2008	44 / 1974	1	2336	6	133	0.02	11.14	0.44 / 1915	17
18	85	57	71	103 / 2008	63 / 1994	73 / 2008	42 / 1893	1	2337	7	140	0.01	11.15	0.86 / 1957	18
19	85	57	71	103 / 2008	63 / 1972	70 / 2009	42 / 1896	1	2338	7	147	0.01	11.16	0.30 / 1925	19
20	85	57	71	102 / 1947	61 / 1921	71 / 1897	44 / 1962	1	2339	7	154	0.01	11.17	0.65 / 1925	20
21	86	57	71	104 / 1892	55 / 1933	69 / 2001	42 / 1973	1	2340	7	161	0.01	11.18	0.28 / 2006	21
22	86	58	72	104 / 1967	67 / 2010	71 / 1892	43 / 1909	1	2341	7	168	0.01	11.19	0.15 / 1958	22
23	86	58	72	103 / 1967	65 / 1916	71 / 2000	44 / 1960	1	2342	7	175	0.01	11.20	0.23 / 1996	23
24	86	58	72	103 / 1924	64 / 1916	68 / 1943	41 / 1953	1	2343	8	183	0.01	11.21	0.22 / 1931	24
25	87	58	72	102 / 1890	59 / 1906	68 / 1890	42 / 1930	0	2343	8	191	0.01	11.22	0.24 / 1901	25
26	87	58	73	103 / 1974	66 / 1946	68 / 1951	40 / 1953	0	2343	8	199	0.02	11.24	0.94 / 1946	26
27	87	58	73	104 / 1974	53 / 1971	69 / 1951	46 / 1998	0	2343	8	207	0.01	11.25	0.63 / 1971	27
28	87	59	73	107 / 1984	58 / 1953	69 / 2009	45 / 1927	0	2343	8	215	0.01	11.26	1.34 / 1906	28
29	88	59	73	107 / 1984	59 / 1988	72 / 1939	45 / 1906	0	2343	8	223	0.01	11.27	0.46 / 1956	29
30	88	59	73	109 / 1910	64 / 1948	76 / 1984	45 / 1988	0	2343	9	232	0.01	11.28	0.38 / 1948	30
31	88	59	74	110 / 1910	68 / 1971	72 / 1910	66 / 1923	0	2343	9	241	0.01	11.29	0.15 / 1981	31
Avg.	84.2	56.3	70.2					30		190		0.43			Avg.
Date	Max.	Min.	Avg.	High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date	Record Maximum	Date
	Normal			Temperature				Degree Days				Precipitation			

Normals, Means & Extremes

June - Fresno, CA

Values in red represent the extremes for the month.

Date	Temperature							Degree Days				Precipitation			Date
	Max.	Min.	Avg.	High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date	Record Maximum	
1	88	59	74	105 / 1910	60 / 1953	71 / 2001	44 / 1953	1	2444	9	250	0.01	11.30	0.60 / 1899	1
2	89	60	74	106 / 1960	67 / 1985	70 / 1960	45 / 1902	1	2445	9	259	0.01	11.31	0.33 / 1985	2
3	89	60	74	107 / 1912	69 / 1936	72 / 1937	44 / 1908		2446	9	268	0.02	11.33	0.24 / 1945	3
4	89	60	74	105 / 1996	66 / 2011	73 / 1912	46 / 1908	0	2446	10	278	0.01	11.34	0.31 / 1993	4
5	89	60	75	107 / 1981		74 / 1926	48 / 1954	0	2446	10	288	0.01	11.35	1.30 / 1953	5
6	89	60	75	107 / 1903	63 / 1894	75 / 1926	46 / 1954	0	2446	10	298	0.01	11.36	1.80 / 1998	6
7	90	60	75	107 / 1977	65 / 1914	76 / 1903	46 / 1950	0	2446	10	308	0.01	11.37	1.52 / 1931	7
8	90	61	75	108 / 2013	69 / 2000	77 / 2013	47 / 1950	0	2446	10	318	0.01	11.38	0.56 / 2000	8
9	90	61	76	108 / 1902	66 / 1954	70 / 1903	48 / 1907	0	2446	11	329	0.01	11.39	0.15 / 1957	9
10	91	61	76	106 / 1986	65 / 1976	70 / 1939	46 / 1954	0	2446	11	340	0.01	11.40	0.37 / 1976	10
11	91	61	76	106 / 1979	71 / 1894	72 / 1918	47 / 1894	0	2446	11	351	0.01	1.41	0.24 / 1907	11
12	91	62	76	107 / 1985	66 / 1998	73 / 1985	47 / 1952	0	2446	11	362	0.01	11.42	0.01 / 1891	12
13	91	62	77	107 / 1949	69 / 1922	71 / 1985	47 / 1907		2446	12	374	0.01	11.43	0.12 / 1922	13
14	92	62	77	108 / 1966	65 / 1962	72 / 2007	43 / 1907	0	2446	12	386	0.01	11.44	1.66 / 1939	14
15	92	62	77	109 / 1961	68 / 1995	77 / 2000	47 / 1907	0	2446	12	398	0.01	11.45	0.66 / 1995	15
16	92	62	77	110 / 1961	71 / 1921	74 / 1985	46 / 1995	0	2446	12	410	0.01	11.46	0.04 / 1929	16
17	92	63	78	109 / 2012	68 / 1909	77 / 2012	49 / 1939	0	2446	13	423	0	11.46	0.08 / 1909	17
18	93	63	78	106 / 1945	71 / 1909	72 / 1918	50 / 1908	0	2446	13	436	0.01	11.47	0.06 / 1894	18
19	93	63	78	106 / 1962	72 / 1897	75 / 1918	51 / 1893	0	2446	13	449	0.01	11.48	0.08 / 1914	19
20	93	63	78	110 / 1920	78 / 1897	75 / 1918	50 / 1908	0	2446	13	462	0	11.48	0.01 / 1988	20
21	94	64	79	110 / 2008	77 / 1944	73 / 2008	51 / 1912	0	2446	14	476	0	11.48	0	21
22	94	64	79	108 / 1981	71 / 1912	76 / 1921	49 / 1923	0	2446	14	490	0.01	11.49	0.01 / 1921	22

Normals Means & Extremes

July - Fresno, CA

Values in red represent the extremes for the month

Date	Temperature							Degree Days				Precipitation			Date
	Normal			High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date	Record Maximum	
	Max.	Min.	Avg.												
1	96	66	81	114 / 1891	82 / 1982	80 / 1934	53 / 1975	0	0	16	626	0	0.00	Tr. / 1916	1
2	96	66	81	110 / 1942	70 / 1916	78 / 2013	51 / 1956	0	0	16	642	0	0.00	Tr. / 1961	2
3	97	66	82	110 / 2061	78 / 1910	78 / 2013	52 / 1957	0	0	16	658	0	0.00	0.14 / 1925	3
4	97	67	82	112 / 1889	79 / 1955	81 / 2001	51 / 1951	0	0	17	675	0	0.00	Tr. / 1896	4
5	97	67	82	112 / 1991	77 / 1909	77 / 1991	52 / 1948	0	0	17	692	0	0.00	Tr. / 1970	5
6	97	67	82	111 / 2007	83 / 1903	77 / 2007	50 / 1955	0	0	17	709	0	0.00	0.01 / 2001	6
7	98	67	82	111 / 1905	84 / 1891	76 / 1935	53 / 1963	0	0	17	726	0	0.00	0.07 / 2101	7
8	98	67	82	115 / 1905	84 / 1891	81 / 1896	51 / 1891	0	0	17	743	0	0.00	Tr. / 1968	8
9	98	67	83	113 / 1905	78 / 1936	81 / 2008	53 / 1983	0	0	17	760	0	0.00	0.01 / 1950	9
10	98	68	83	112 / 2008	81 / 1974	82 / 2008	54 / 1904	0	0	18	778	0.01	0.01	0.01 / 1950	10
11	98	68	83	110 / 1961	82 / 1888	78 / 2002	52 / 1974	0	0	18	796	0	0.01	0.01 / 1908	11
12	98	68	83	109 / 2012	82 / 1995	81 / 1999	54 / 1965	0	0	18	814	0	0.01	0.22 / 1992	12
13	99	68	83	110 / 1983	84 / 1932	83 / 1999	53 / 1903	0	0	18	832	0	0.01	Tr. / 1969	13
14	99	68	83	110 / 1972	85 / 2011	81 / 1935	55 / 1920	0	0	18	850	0	0.01	Tr. / 1992	14
15	99	68	83	111 / 1972	83 / 1975	79 / 1911	54 / 1905	0	0	18	868	0	0.01	Tr. / 1976	15
16	99	68	83	111 / 1925	83 / 1958	80 / 1984	54 / 1916	0	0	18	886	0	0.01	0.01 / 1976	16
17	99	68	84	114 / 1925	78 / 1987	79 / 1926 / 19	54 / 1916	0	0	18	904	0	0.01	0.01 / 1995	17
18	99	68	84	111 / 1899	81 / 1987	83 / 1925	54 / 1987	0	0	19	923	0	0.01	Tr. / 2006	18
19	99	68	84	112 / 2009	88 / 1987	79 / 2006	54 / 1932	0	0	19	942	0	0.01	Tr. / 2012	19
20	99	68	84	111 / 1908	81 / 1973	78 / 1938	54 / 1903	0	0	19	961	0	0.01	0.04 / 1985	20
21	99	68	84	112 / 1908	79 / 1987	82 / 2006	56 / 1973	0	0	19	980	0	0.01	0.08 / 1979	21
22	99	68	84	112 / 2006	83 / 1896	84 / 2006	56 / 1903	0	0	19	999	0	0.01	0.33 / 1913	22
23	99	68	84	113 / 2006	84 / 1918	77 / 2006	55 / 1897	0	0	19	1018	0	0.01	Tr. / 2007	23
24	99	68	84	113 / 2006	87 / 1999	85 / 2006	55 / 1903	0	0	19	1037	0	0.01	Tr. / 1965	24
25	99	68	84	113 / 2006	76 / 1913	82 / 2006	56 / 1889	0	0	19	1056	0	0.01	0.06 / 1896	25
26	99	68	84	113 / 1931	84 / 1965	80 / 1931	56 / 1955	0	0	19	1075	0	0.01	Tr. / 1964	26
27	99	68	84	114 / 1933	83 / 1941	79 / 1933	52 / 1897	0	0	19	1094	0	0.01	Tr. / 1903	27
28	99	68	84	110 / 1980	89 / 1913	82 / 1980	55 / 1892	0	0	19	1113	0	0.01	0.02 / 1958	28
29	99	68	84	113 / 1898	87 / 1896	78 / 2003	57 / 1919	0	0	19	1132	0	0.01	Tr. / 2003	29
30	99	68	84	114 / 1898	80 / 1966	83 / 2003	57 / 1975	0	0	18	1150	0	0.01	0.03 / 1966	30
31	99	68	83	114 / 1908	83 / 1976	81 / 1908	53 / 1895	0	0	18	1168	0	0.01	Tr. / 2011	31
Avg.	98.4	67.6	83.1					0		558		0.01			Avg.
Date	Max.	Min.	Avg.	High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date	Record Maximum	D
	Normal			Temperature				Degree Days				Precipitation			e

EXHIBIT 1, PAGE 5

Normals. Means & Extremes

August - Fresno, CA

Values in red represent the extremes for the month.

Date	Temperature							Degree Days				Precipitation		Date	
	Normal		Avg	High Max	Low Max	High Min	Low Min	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date		Record Maximum
	Max.	Min.													
1	99	68	83	112 / 1908	83 / 1976	86 / 1903	56 / 1888	0	0	18	1126	0	0.01	Tr. / 1950	1
2	99	68	83	112 / 1908	83 / 1953	82 / 1908	53 / 1956	0	0	18	1204	0	0.01	Tr. / 1895	2
3	99	68	82	110 / 1946	80 / 1976	78 / 1901	55 / 1953	0			1222		0.01	Tr. / 1901	
4	99	68	83	110 / 1889	83 / 1976	82 / 1901	53 / 1956	0	0	18	1240	0	0.01	Tr. / 1978	4
5	99	67	83	110 / 1895	83 / 1957	79 / 1998	51 / 1950			18	1258		0.01	0.10 / 1961	5
6	99	67	83	110 / 1902	78 / 1999	77 / 1998	54 / 1950	0	0	18	1276	0	0.01	Tr. / 1964	6
7	98	67	83	112 / 1908	82 / 1999	78 / 1990	54 / 1975	0			1294		0.01	Tr. / 1982	7
8	98	67	83	113 / 1908	86 / 1999	80 / 1983	54 / 1900	0	0	18	1312	0	0.01	0.03 / 1989	8
9	98	67	83	111 / 1981	85 / 1907	78 / 1990	55 / 1916			18			0.01	0.01 / 1999	9
10	98	67	83	110 / 1898	83 / 1997	78 / 1981	53 / 1900	0	0	17	1347	0	0.01	Tr. / 1999	10
11	98	67	82		85 / 1999	78 / 2012	54 / 1919	0	0	17	1364	0	0.01	0.02 / 1965	11
12	98	67	82	110 / 1933	83 / 1991	81 / 1996	55 / 1916	0	0	17	1381	0	0.01	Tr. / 1991	12
13	98	67	82	112 / 1996	80 / 1968	79 / 1996	53 / 1954	0	0	17	1398	0	0.01	Tr. / 1968	13
14	98	67	82	112 / 1933	74 / 1976	82 / 2012	54 / 1968	0	0	17	1415	0	0.01	0.01 / 1983	14
15	97	66	82	109 / 1920	77 / 1976	77 / 1933	53 / 1954	0	0	17	1432	0	0.01	0.01 / 1976	15
16	97	66	82	110 / 1920	78 / 1976	78 / 1958	53 / 1976	0	0	17	1449	0	0.01	0.07 / 1941	16
17	97	66	82	111 / 1892	77 / 1976	77 / 1933	53 / 1968	0	0	17	1466	0	0.01	0.02 / 1985	17
18	97	66	82	112 / 1892	77 / 1975	75 / 2012	52 / 1916	0	0	17	1483	0	0.01	0.05 / 1975	18
19	97	66	81	108 / 1892		76 / 2013	54 / 1916	0	0	16	1499	0	0.01	0.20 / 1976	19
20	97	66	81	110 / 2013	76 / 1959	77 / 2013	53 / 1900	0	0	16	1515	0	0.01	Tr. / 1976	20
21	96	66	81	108 / 1919	80 / 1968	76 / 1913	51 / 1959	0	0	16	1531	0	0.01	Tr. / 1968	21
22	96	66	81	108 / 1897	81 / 1960	75 / 1995	52 / 1959	0	0	16	1547	0	0.01	Tr. / 2009	22

Normals, Means & Extremes

September - Fresno, CA

Values in red represent the extremes for the month.

Date	Temperature				Degree Days				Precipitation			Date			
	Normal Max.	Normal Min.	Normal Avg.	High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date		Daily	Normal Season to Date	Record Maximum
1	95	64	79	107/1888	73/1964	76/2007	51/1964	0	0	14	1698	0.00	0.02	0.32/2000	1
2	94	64	79	108/1955	76/2000	77/1998	48/1964	0	0	14	1712	0.00	0.02	0.07/1997	2
3	94	64	79	107/1955	71/1912	77/2003	52/1964	0	0	14	1726	0.00	0.02	0.42/1985	3
4	94	64	79	107/1988	74/1912	75/1998	51/1912	0	0	14	1740	0.01	0.03	0.92/1978	4
5	94	64	79	105/1984	73/1978	73/1991	47/1887	0	0	14	1754	0.00	0.03	0.28/1972	5
6	94	64	79	106/1988	75/1965	76/1998	49/1887	0	0	14	1768	0.00	0.03	0.04/1969	6
7	93	63	78	108/1904	78/1978	73/1998	50/1964	0	0	13	1781	0.00	0.03	0.22/1958	7
8	93	63	78	108/1904	76/1931	74/1998	49/1897	0	0	13	1794	0.01	0.04	Tr./1997	8
9	93	63	78	107/1904	75/1885	76/1888	50/1964	0	0	13	1807	0.00	0.04	0.02/1960	9
10	93	63	78	108/1888	68/1952	76/1888	48/1952	0	0	13	1820	0.00	0.04	0.48/1976	10
11	92	63	78	107/1952	72/1952	72/1888	44/1952	0	0	12	1832	0.01	0.05	0.42/1976	11
12	92	62	77	105/1983	73/1893	70/1960	48/1952	0	0	12	1844	0.00	0.05	0.06/1895	12
13	92	62	77	106/1983	74/1913	70/2006	48/1970	0	0	12	1856	0.01	0.06	0.01/1895	13
14	92	62	77	106/2012	70/1910	72/2013	47/1903	0	0	12	1868	0.01	0.07	0.27/1910	14
15	91	62	77	104/1983	74/1982	69/1998	45/1970	0	0	12	1880	0.00	0.07	0.73/1910	15
16	91	62	76	105/1937	70/1908	71/1983	49/1955	0	0	11	1891	0.01	0.08	0.26/1891	16
17	91	61	76	105/1979	73/1950	74/1984	48/1965	0	0	11	1902	0.00	0.08	0.27/1989	17
18	90	61	76	107/1913	67/1963	78/1984	48/1978	0	0	11	1913	0.01	0.09	0.61/1989	18
19	90	61	76	105/1922	70/1989	75/1984	44/1978	0	0	11	1924	0.01	0.10	0.63/1959	19
20	90	61	75	104/1939	73/2007	70/1984	46/1978	0	0	10	1934	0.00	0.10	0.09/1939	20
21	90	60	75	102/1949	72/1945	74/1983	42/1968	0	0	10	1944	0.01	0.11	0.14/1916	21
22	89	60	75	104/1949	67/1923	72/1999	41/1968	0	0	10	1954	0.01	0.12	0.47/1887	22
23	89	60	74	105/1949	66/1904	70/2011	47/1968	0	0	10	1964	0.00	0.12	0.24/1958	23
24	89	60	74	102/1899	62/1904	68/2009	46/1945	0	0	9	1973	0.01	0.13	0.76/1904	24
25	88	59	74	100/2009	70/1986	69/2002	43/1948	0	0	9	1982	0.01	0.14	0.85/1982	25
26	88	59	74	107/1963	64/1898	67/2009	43/1948	0	0	9	1991	0.01	0.15	1.12/1898	26
27	88	59	73	105/1888	66/1986	68/2009	44/1948	0	0	8	1999	0.01	0.16	0.13/1938	27
28	87	59	73	104/1887	64/1911	67/2010	43/1971	0	0	8	2007	0.01	0.17	0.18/1994	28
29	87	58	73	102/1992	63/1919	72/2010	43/1905	1	1	8	2015	0.01	0.18	0.17/1990	29
30	86	58	72	101/2010	56/1894	71/2010	37/1950	1	2	7	2022	0.01	0.19	0.73/1894	30
Avg.	91.0	61.5	76.3					2		338		0.17			Avg.
Date	Normal Max.	Normal Min.	Normal Avg.	High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date	Record Maximum	Date
Temperature				Degree Days				Precipitation			Date				

EXHIBIT 1, PAGE 8

Normals, Means & Extremes

October - Fresno, CA

Values in red represent the extremes for the month.

Date	Temperature								Degree Days				Precipitation			Date
	Normal			High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date	Record Maximum		
	Max.	Min.	Avg.													
1	86	58	72	100 / 1987	65 / 1894	70 / 2010	39 / 1971	0	2	7	2029	0.01	0.20	1.46 / 1976	1	
2	86	57	72	101 / 2012	58 / 1916	71 / 2010	40 / 1891	0	2	7	2036	0.01	0.21	0.35 / 1939	2	
3	85	57	71	101 / 1980	62 / 1916	69 / 2012	41 / 1908	0	2	7	2043	0.01	0.22	0.20 / 1900	3	
4	85	57	71	102 / 1980	64 / 1916	69 / 1917	42 / 1957	0	2	6	2049	0.01	0.23	0.64 / 1994	4	
5	85	57	71	101 / 1980	64 / 1916	66 / 1904	40 / 1969	1	3	6	2055	0.02	0.25	1.69 / 1925	5	
6	84	56	70	99 / 1987	64 / 1939	68 / 1892	37 / 1969	1	4	6	2061	0.01	0.26	2.38 / 1904	6	
7	84	56	70	96 / 1996	59 / 1923	64 / 1983	39 / 1969				2066	0.01	0.27	0.67 / 1973	7	
8	83	56	69	99 / 1980	65 / 1923	64 / 1996	35 / 1949	1	6	5	2071	0.01	0.28	0.24 / 1904	8	
9	83	55	69	98 / 1996	65 / 2013	65 / 1996	39 / 1949	1	7		2076	0.02	0.30	0.29 / 1926	9	
10	82	55	69	99 / 1991	59 / 2000	62 / 1936	42 / 1890	1	8	5	2081	0.01	0.31	0.76 / 2000	10	
11	82	55	68	97 / 1930	61 / 1995	64 / 1991	38 / 1893		9	4	2085	0.01	0.32	0.57 / 1904	11	
12	82	54	68	95 / 1964	60 / 1910	62 / 2010	39 / 1969	1	10	4	2089	0.02	0.34	0.20 / 1899	12	
13	81	54	68	95 / 1991	57 / 1899	63 / 2010	40 / 1981			3	2092	0.01	0.35	1.28 / 2009	13	
14	81	54	67	100 / 1978	54 / 1899	64 / 2010	41 / 1981	1	12	3	2095	0.02	0.37	0.48 / 1935	14	
15	80	53	67	99 / 1961	61 / 1892	64 / 1945	36 / 1965			2	2098	0.02	0.39	0.23 / 1946	15	
16	80	53	66	96 / 1961	58 / 1971	63 / 2009	36 / 1966	2	15	3	2101	0.02	0.41	0.42 / 1963	16	
17	79	53	65	97 / 1959	62 / 1892	62 / 2009	36 / 1893		7	2	2103	0.03	0.44	0.54 / 1934	17	
18	79	52	66	95 / 2012	61 / 1936	63 / 2012	36 / 1949	2	19	2	2105	0.02	0.46	0.67 / 1936	18	
19	78	52	65	92 / 1921	59 / 1949	61 / 1979	30 / 1949		21		2107	0.02	0.48	0.75 / 2004	19	
20	78	52	65	94 / 1927	56 / 1941	57 / 1991	35 / 1949	2	23	2	2109	0.03	0.51	0.38 / 1889	20	
21	77	51	64	93 / 2003	58 / 1941	60 / 1992	34 / 1949	2	25	2	2111	0.02	0.53	0.67 / 1985	21	
22	77	51	64	92 / 1948	63 / 2012	64 / 1982	35 / 1961	3	28	2	2113	0.02	0.55	0.56 / 1889	22	
23	76	51	62	90 / 1965	57 / 1956	64 / 1982	35 / 1975	3	31	1	2114	0.03	0.58	1.17 / 1889	23	
24	76	51	62	95 / 1959	59 / 1897	63 / 1982	36 / 1956	3	34	1	2115	0.02	0.60	0.35 / 1940	24	
25	75	50	63	91 / 1966	61 / 1998	62 / 1982	36 / 1971	3	37	1	2116	0.03	0.63	0.33 / 1927	25	
26	75	50	62	89 / 2003	56 / 2004	58 / 1927	35 / 1939	4	41	1	2117	0.03	0.66	1.05 / 2004	26	
27	74	50	62	89 / 2003	58 / 1896	61 / 1987	35 / 1970	4	45	1	2118	0.03	0.69	1.28 / 1896	27	
28	74	49	62	89 / 2003	58 / 1971	61 / 1987	33 / 1970	4	49	1	2119	0.03	0.72	0.99 / 1974	28	
29	73	49	61	88 / 1915	55 / 1996	61 / 1914	29 / 1971	5	54	1	2120	0.03	0.75	1.50 / 1996	29	
30	73	49	61	91 / 1887	57 / 1975	60 / 1983	27 / 1972	5	59	1	2121	0.04	0.79	1.43 / 1992	30	
31	72	48	60	90 / 1949	57 / 1974	61 / 2008	32 / 1972	5	64	1	2122	0.03	0.82	0.93 / 1934	31	
Avg.	79.5	53.1	66.3					61		100		0.63			Avg.	
Date	Normal			High Max.	Low Max.	High Min.	Low Min.	Heating (daily)	Normal Season to Date	Cooling (daily)	Normal Season to Date	Daily	Normal Season to Date	Record Maximum	Date	
	Max.	Min.	Avg.													
	Temperature			Degree Days				Precipitation								

Climate Data Summary

EXHIBIT 1, PAGE 9

FRESNO, CALIFORNIA

NORMALS, MEANS, AND EXTREMES

LATITUDE: 36 Deg. 46 Min. N LONGITUDE: 119 Deg. 43 Min. W ELEVATION: FT. GRND 322 BARO 330 TIME ZONE: PACIFIC WBAN: 93193

	(a)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE (Deg. F)														
Normals														
-Daily Maximum		54.1	61.7	66.6	75.1	84.2	92.7	98.6	96.7	90.1	79.7	64.7	53.7	76.5
-Daily Minimum		37.4	40.5	43.4	47.3	53.7	60.4	65.1	63.8	58.8	50.7	42.5	37.1	50.1
-Monthly		45.7	51.2	55.1	61.2	69.0	76.6	81.9	80.3	74.5	65.2	53.6	45.4	63.3
Extremes														
-Record Highest	46	78	80	90	100	107	110	112	111	111	102	89	76	112
-Year		1986	1991	1972	1981	1984	1964	1991	1990	1955	1980	1949	1958	JUL 1991
-Record Lowest	46	19	24	26	32	36	44	50	49	37	27	26	18	18
-Year		1963	1990	1966	1982	1975	1955	1955	1966	1950	1972	1975	1990	DEC 1990
NORMAL DEGREE DAYS														
Heating (base 65 Deg. F)		598	386	314	182	34	0	0	0	8	84	342	608	2556
Cooling (base 65 Deg. F)		0	0	7	68	158	352	524	474	293	91	0	0	1967
% OF POSSIBLE SUNSHINE	46	47	65	77	85	90	95	97	96	94	88	66	46	79
MEAN SKY COVER (tenths)	46	7.3	6.1	5.4	4.4	3.3	1.9	1.2	1.3	1.7	2.9	5.2	6.9	4.0
Sunrise - Sunset	46	7.3	6.1	5.4	4.4	3.3	1.9	1.2	1.3	1.7	2.9	5.2	6.9	4.0
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	46	5.3	7.6	11.0	13.8	18.4	23.0	26.7	26.2	23.7	20.2	11.6	6.8	194.3
-Partly Cloudy	46	6.8	7.9	8.0	8.2	7.6	4.5	3.0	3.4	3.9	6.2	7.3	6.2	73.1
-Cloudy	46	18.9	12.8	12.0	8.0	5.0	2.4	1.3	1.3	2.3	4.7	11.1	18.0	97.9
Precipitation														
.01 inches or more	46	7.7	7.2	7.2	4.3	2.0	0.7	0.2	0.3	1.0	2.1	5.2	6.7	44.8
Snow, Ice Pellets, Hail														
1.0 inches or more	46	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.*	*
Thunderstorms	46	0.3	0.4	0.8	0.5	0.6	0.5	0.3	0.2	0.7	0.5	0.2	0.3	5.4
Heavy Fog Visibility														
1/4 mile or less	46	11.8	6.1	1.7	0.3	0.1	0.0	0.0	0.*	0.1	0.9	5.6	12.0	38.6
Temperature Deg. F														
-Maximum														
90 Deg. F and above	32	0.0	0.0	0.*	2.0	9.8	19.5	28.6	26.6	17.5	4.5	0.0	0.0	108.6
32 Deg. F and below	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
-Minimum														
32 Deg. F and below	32	7.3	2.9	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.9	8.3	21.3
0 Deg. F and below	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AV. STATION PRES. (mb)	23	1008.8	1007.4	1005.3	1004.3	1001.6	1000.5	1000.4	1000.4	1000.8	1003.9	1007.5	1009.1	1004.2
RELATIVE HUMIDITY (%)														
Hour 04	32	92	90	86	80	72	65	61	65	72	78	87	92	78
Hour 10 (Local Time)	32	85	76	66	52	43	39	38	41	45	52	71	84	58
Hour 16	32	68	55	48	35	26	23	22	25	28	34	53	69	41
Hour 22	32	88	83	75	62	50	44	41	46	52	64	81	89	65
PRECIPITATION (in.)														
Water Equivalent														
-Normal														
-Normal		1.96	1.8	1.89	0.97	0.30	0.08	0.01	0.03	0.24	0.53	1.37	1.42	10.60
-Maximum Monthly	46	8.56	5.97	7.24	4.41	1.65	1.61	0.22	0.25	1.19	2.19	3.50	6.73	8.56
-Year		1.69	1962	1991	1967	1990	1993	1992	1954	1976	1992	1972	1955	JAN 1969
-Minimum Monthly	46	0.04	T	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-Year		1976	1964	1972	1991	1982	1983	1.3	1981	1981	1978	1959	1989	DEC 1989
-Maximum in 24 hrs	46	2.59	1.99	2.43	1.39	1.42	1.61	0.22	0.25	0.97	1.76	1.35	1.76	2.59
-Year		1969	1969	1995	1983	1990	1993	1992	1954	1978	1992	1953	1955	JAN 1969
Snow, Ice Pellets, Hail														
-Maximum Monthly	46	2.2	T	T	0.0	0.0	T	0.0	0.0	0.0	T	0.0	1.2	2.2
-Year		1962	1994	1991			1995				1974		1968	JAN 1962
-Maximum in 24 hrs	46	1.5	T	T	0.0	0.0	T	0.0	0.0	0.0	T	0.0	1.2	1.5

-Year	1962	1994	1991			1995					1974	1968	JAN 1962	
WIND														
Mean Speed (mph)	46	5.2	5.7	6.7	7.4	8.1	8.3	7.4	6.8	6.1	5.2	4.7	4.9	6.4
Prevailing Direction through 1964		SE	NW	SE	NW									
Fastest Mile														
-Direction(!)	17	14	31	32	30	32	29	32	31	31	12	30	22	14
-Speed(mph)		39	29	29	32	30	28	23	28	29	23	28	28	39
-Year		1993	1977	1982	1984	1991	1995	1995	1994	1978	1992	1993	1995	JAN 1993
Peak Gust														
-Direction(!)														
-Speed(mph)														
-Date														

(a) - Length of Record in Years, although individual months may be missing.

0.* or * - The value is between 0.0 and 0.05.

Normals - Based on the 1961 - 1990 record period.

Extremes - Dates are the most recent occurrence.

Wind Dir.- Numerals show tens of degrees clockwise from true north. "00" indicates calm.

Resultant Directions are given to whole degrees.

HEAT STRESS INDEX

TEMPERATURE °F	RELATIVE HUMIDITY								
	10%	20%	30%	40%	50%	60%	70%	80%	90%
104	98	104	110	120	132				
102	97	101	108	117	125				
100	95	99	105	110	120	132			
98	93	97	101	106	110	125			
96	91	95	98	104	108	120	128		
94	89	93	95	100	105	111	122		
92	87	90	92	96	100	106	115	122	
90	85	88	90	92	96	100	106	114	122
88	82	86	87	89	93	95	100	106	115
86	80	84	85	87	90	92	96	100	109
84	78	81	83	85	86	89	91	95	99
82	77	79	80	81	84	86	89	91	95
80	75	77	78	79	81	83	85	86	89
78	72	75	77	78	79	80	81	83	85
76	70	72	75	76	77	77	77	78	79
74	68	70	73	74	75	75	75	76	77

NOTE: Add 10°F when protective clothing is worn and add 10°F when in direct sunlight.

HUMITURE °F	DANGER CATEGORY	INJURY THREAT
BELOW 60°	NONE	LITTLE OR NO DANGER UNDER NORMAL CIRCUMSTANCES
80° - 90°	CAUTION	FATIGUE POSSIBLE IF EXPOSURE IS PROLONGED AND THERE IS PHYSICAL ACTIVITY
90° - 105°	EXTREME CAUTION	HEAT CRAMPS AND HEAT EXHAUSTION POSSIBLE IF EXPOSURE IS PROLONGED AND THERE IS PHYSICAL ACTIVITY
105° - 130°	DANGER	HEAT CRAMPS OR EXHAUSTION LIKELY, HEAT STROKE POSSIBLE IF EXPOSURE IS PROLONGED AND THERE IS PHYSICAL ACTIVITY
ABOVE 130°	EXTREME DANGER	HEAT STROKE IMMINENT!

Table I-1