

ATTACHMENT II
 TEMPERATURE EXTREMES
 FRESNO

Table 1-3: Weather Conditions by Segment

	Record Extreme Maximum Temperature (°F)	Record Extreme Minimum Temperature (°F)	Mean Number of Days with Freezing Temperatures	Mean Maximum Daily Precipitation (inches)	Annual Record Total Snowfall (inches)	Mean Maximum Daily Snowfall (inches)	Annual Fastest Mile of Wind (mph)	Annual Mean Occurrence of Gust >50 mph	Annual Mean Number of Days with Heavy Fog
San Francisco – San Jose	106–110°	11–20°	0.5–30.4	2.01–2.50"	2.1–6.0"	0.1–3.0"	41–45	2.5–3.4	15.5–20.4
San Jose –Merced	111–115°	11–20°	30.5–60.4	2.01–2.50"	6.1–12.0"	3.1–6.0"	41–45	0.5–1.4	25.5–30.4
Merced – Fresno	116–120°	11–20°	30.5–60.4	1.00–1.50"	2.1–6.0"	0.1–3.0"	41–45	0.5–1.4	30.5–35.4
Fresno –Bakersfield	111–115°	11–20°	30.5–60.4	1.00–1.50"	0.1–2.0"	0.1–3.0"	41–45	0.5–1.4	30.5–35.4
Bakersfield –Palmdale	111–115°	-9–0°	90.5–120.4	1.51–2.00"	48.1–72.0"	12.1–15.0"	41–45	0.5–1.4	20.5–25.4
Palmdale – Los Angeles	111–115°	1–10°	30.5–60.4	3.01–3.50"	12.1–24.0"	6.1–9.0"	41–45	0.5–1.4	15.5–20.4
Los Angeles –Anaheim	111–115°	21–32°	0.5–30.4	2.01–2.50"	0.0"	0.0"	41–45	0.5–1.4	20.5–25.4
Los Angeles –San Diego	111–115°	11–20°	30.5–60.4	2.51–3.00"	0.1–2.0"	0.1–3.0"	41–45	0.5–1.4	30.5–35.4
Sacramento –Merced	111–115°	11–20°	30.5–60.4	1.51–2.00"	0.1–2.0"	0.1–3.0"	41–45	1.5–2.4	30.5–35.4
Altamont	111–115°	11–20°	30.5–60.4	1.51–2.00"	0.1–2.0"	0.1–3.0"	41–45	1.5–2.4	25.5–30.4

This data is included as general information and not for use in application of these design criteria.

Source: National Climatic Data Center (NCDC), National Oceanic and Atmospheric Administration (NOAA). Climate Atlas of the United States: Data Documentation. April 2010.
<http://www.ncdc.noaa.gov/oa/about/cdrom/climats2/datadoc.html>

Weather Condition Definitions:

Record Extreme Maximum Temperature – Highest temperature recorded in the segment

Record Extreme Minimum Temperature – Lowest temperature recorded in the segment

Mean Number of Days with Freezing Temperatures – Number of days per year on average that temperatures in the segment are below 32°F (maximum value for the segment)

Mean Maximum Daily Precipitation – Maximum precipitation in one day during an average year (maximum value for the segment)

Annual Record Total Snowfall – Maximum amount of snowfall recorded over one year in the segment (maximum value for the segment)

Mean Maximum Daily Snowfall – Maximum snowfall in one day during an average year (maximum value for the segment)

Annual Fastest Mile of Wind – Average speed obtained during the passage of one mile of wind (maximum value for the segment)

Annual Mean Occurrence of a Gust > 50 mph – Frequency of gusts of over 50 mph in 1 year during an average year (maximum value for the segment)

Annual Mean Number of Days with Heavy Fog – Frequency of days with fog resulting in visibility of less than 0.25 miles in an average year (maximum value for the segment)

Notes:

1. Data is provided in ranges consistent with the source data. Specific values will fall within the range provided by more discrete information is not provided.
2. Numbers in bold represent system-wide extreme (maximum/minimum)
3. NCDC archives weather data from the National Weather Service, Military Services, Federal Aviation Administration, the Coast Guard, and volunteer observers. NCDC has a database of U.S. climate data and maps that portray the climate of the U.S. by such elements as temperature, precipitation, snow, wind, and pressure. The period of record for most of this data is 1961 to 1990.
 National Climatic Data Center, National Oceanic and Atmospheric Administration. Climate Maps of the United States. <http://cdo.ncdc.noaa.gov/cgi-bin/climaps/climaps.pl>

HSR 13-06 - EXECUTION VERSION