

## 11.0 RULE 6.4.11: EXHIBIT K-CLIMATE

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Provide a description of the significant climatological factors for the locality, and where determined appropriate by the Office on a case-by-case basis provide the required information of Rule 6.4.21(13).

Average annual precipitation in the high mountainous regions generally exceeds 40in per year Leadville average rainfall precipitation is approximately 12in whereas snow fall averages over 140in. Average annual lake evaporation for Leadville ranges between 35 and 45in per year.

Leadville has an alpine subarctic climate with cold winters and mild summers, bordering on a cold semi-arid climate (See **Table 11-1**). The average January temperatures are a maximum of 72.2°F (22.3°C) and a minimum of 37.8°F (3.2°C). There are averages of 278 days annually with freezing temperatures, which can occur in any month. The record high temperature was 85°F (30°C) on June 23, 1954. The record low temperature was -38°F (-39°C) on February 21, 1995.

Average annual precipitation is 12.19in (310mm). The wettest year was 1957 with 22.14in (562mm) and the driest year was 1994 with 8.81in (224mm). The most precipitation in one month was 4.983in (123mm) in January 1996. The most precipitation in 24hr was 2.10in (53mm) on December 24, 1983. Average annual snowfall is 142.7in (3,620mm). The most snowfall in one year was 247.9in (6,300mm) in 1996. The most snowfall in one month was 63.2in inches (1,610mm) in February 1995.

**TABLE 11-1: CLIMATE DATA FOR LEADVILLE**

Month	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Year
<b>Record High</b> °F (°C)	56 (13)	54 (12)	61 (16)	65 (18)	80 (27)	82 (28)	85 (29)	83 (28)	80 (27)	72 (22)	66 (19)	56 (13)	85 (29)
<b>Average High</b> °F (°C)	31.1 (-0.5)	33.6 (0.9)	38.9 (3.8)	45.9 (7.7)	56.7 (13.7)	67.5 (19.7)	72.2 (22.3)	69.5 (20.8)	62.7 (17.1)	51.7 (10.9)	38.4 (3.6)	31.1 (-0.5)	50.0 (10.0)
<b>Daily Mean High</b> °F (°C)	17.1 (-8.3)	19.0 (-7.2)	24.9 (-3.9)	32.2 (0.1)	41.7 (5.4)	50.2 (10.1)	55.0 (12.8)	53.4 (11.9)	46.8 (8.2)	37.3 (2.9)	25.2 (-3.8)	17.4 (-8.1)	35.0 (1.7)
<b>Average Low High</b> °F (°C)	3.1 (-16.1)	4.5 (-15.3)	10.7 (-11.8)	18.6 (-7.4)	26.7 (-2.9)	32.9 (0.5)	37.8 (3.2)	37.3 (2.9)	30.9 (-0.6)	22.8 (-5.1)	12.1 (-11.1)	3.8 (-15.7)	20.1 (-6.6)
<b>Record Low High</b> °F (°C)	-27 (-33)	-38 (-39)	-30 (-34)	-17 (-27)	7 (-14)	19 (-7)	26 (-3)	23 (-5)	8 (-13)	-7 (-22)	-24 (-31)	-31 (-35)	-38 (-39)
<b>Precipitation</b> Inches (mm)	0.66 (16.8)	0.84 (21.3)	0.94 (23.9)	1.06 (26.9)	0.68 (17.3)	0.89 (22.6)	1.75 (44.5)	1.98 (50.3)	1.07 (27.2)	0.74 (18.8)	0.80 (20.3)	0.76 (19.3)	12.17 (309.1)
<b>Snowfall</b> Inches (cm)	18.0 (45.7)	18.2 (46.2)	21.5 (54.6)	23.8 (60.5)	8.2 (20.8)	1.8 (4.6)	0.1 (0.3)	0.0 (0)	2.1 (5.3)	10.1 (25.7)	19.5 (49.5)	19.5 (49.5)	142.8 (362.7)
<b>Avg. Precipitation</b> days (≥0.01 in)	9	8	10	10	7	6	12	14	9	6	9	9	109