

# Alaska Department of Environmental Conservation

## Division of Air Quality

### PM2.5 Measurements by Temperature

**October 2012 - March 31, 2013**

Based on the semi-continuous analyzers used for forecasting PM<sub>2.5</sub> concentrations (Met One BAM 1020)

**North Pole Fire Station BAM 24hr**

**North Pole Elementary BAM 24hr**

> 56 µg/m <sup>3</sup>		Between 35 µg/m <sup>3</sup> and 56 µg/m <sup>3</sup>		>35 µg/m <sup>3</sup>
No. of days	Temp Range (°F)	No of days	Temp Range (°F)	Total # of Days
2	10 +	0	10 +	2
4	0-10	7	0-10	11
6	-1 to -5	3	-1 to -5	9
6	-6 to -10	3	-6 to -10	9
2	-11 to -15	1	-11 to -15	3
4	-16 to -20	0	-16 to -20	4
8	-21 to -25	0	-20 to -25	8
6	-26 to -30	0	-26 to -30	6
6	-31 to -35	0	-31 to -35	6
5	-36 to -40	0	-36 to -40	5
7	-41 and colder	0	-41 and colder	7
56		14		70

> 56 µg/m <sup>3</sup>		Between 35 µg/m <sup>3</sup> and 56 µg/m <sup>3</sup>		>35 µg/m <sup>3</sup>
No. of days	Temp Range (°F)	No of days	Temp Range (°F)	Total # of Days
0	10 +	0	10 +	0
3	0-10	3	0-10	6
0	-1 to -5	4	-1 to -5	4
0	-6 to -10	1	-6 to -10	1
1	-11 to -15	2	-11 to -15	3
6	-16 to -20	2	-16 to -20	8
3	-21 to -25	0	-20 to -25	3
5	-26 to -30	1	-26 to -30	6
0	-31 to -35	3	-31 to -35	3
4	-36 to -40	3	-36 to -40	7
0	-41 and colder	0	-41 and colder	0
22		19		41

**State Office Building BAM 24hr**

**NCORE (FNSB Building) BAM 24hr**

> 56 µg/m <sup>3</sup>		Between 35 µg/m <sup>3</sup> and 56 µg/m <sup>3</sup>		>35 µg/m <sup>3</sup>
No. of days	Temp Range (°F)	No of days	Temp Range (°F)	Total # of Days
0	10 +	0	10 +	0
1	0-10	3	0-10	4
0	-1 to -5	2	-1 to -5	2
0	-6 to -10	3	-6 to -10	3
1	-11 to -15	4	-11 to -15	5
2	-16 to -20	3	-16 to -20	5
0	-21 to -25	3	-20 to -25	3
0	-26 to -30	3	-26 to -30	3
2	-31 to -35	2	-31 to -35	4
0	-36 to -40	0	-36 to -40	0
0	-41 and colder	0	-41 and colder	0
6		23		29

> 56 µg/m <sup>3</sup>		Between 35 µg/m <sup>3</sup> and 56 µg/m <sup>3</sup>		>35 µg/m <sup>3</sup>
No. of days	Temp Range (°F)	No of days	Temp Range (°F)	Total # of Days
0	10 +	0	10 +	0
0	0-10	2	0-10	2
0	-1 to -5	1	-1 to -5	1
0	-6 to -10	3	-6 to -10	3
0	-11 to -15	4	-11 to -15	4
2	-16 to -20	3	-16 to -20	5
0	-21 to -25	3	-20 to -25	3
0	-26 to -30	4	-26 to -30	4
0	-31 to -35	5	-31 to -35	5
0	-36 to -40	0	-36 to -40	0
0	-41 and colder	0	-41 and colder	0
2		25		27

