

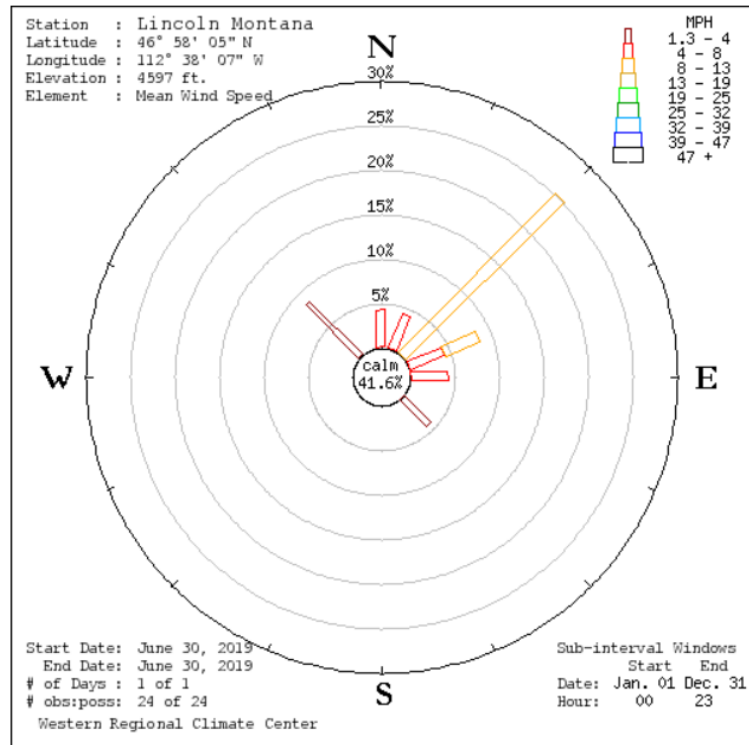
USFS Wx Station Data - Lincoln MT

MEAN WIND

Wind Sensor Site is 0.7 nm 038° True from S69 Rwy 22 threshold

Times are STANDARD (not Daylight Savings)

Winds referenced to TRUE North



Lincoln Montana - Wind Frequency Table (percentage)

Latitude : 46° 58' 05" N	Start Date : June 30, 2019	Sub Interval Windows
Longitude : 112° 38' 07" W	End Date : June 30, 2019	Start End
Elevation : 4597 ft.	# of Days : 1 of 1	Date Jan. 01 Dec. 31
Element : Mean Wind Speed	# obs of poss : 24 of 24	Hour 00 24

(Greater than or equal to initial interval value and Less than ending interval value.)

Range (mph)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
1.3 - 4	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	12.5
4 - 8	4.2	4.2	0.0	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7
8 - 13	0.0	0.0	25.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2
13 - 19	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	0.0	0.0	0.0	0.0
19 - 25	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	0.0	0.0	0.0	0.0
25 - 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	0.0	0.0	0.0	0.0
32 - 39	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	0.0	0.0	0.0	0.0
39 - 47	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	0.0	0.0	0.0	0.0
47 -	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	0.0	0.0	0.0	0.0
Total(%)	4.2	4.2	25.0	8.3	4.2	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	58.3
Calm (<1.3)																	41.6
Ave. Speed	4.0	6.0	8.8	6.5	7.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	1.0	0.0	2.5	0.0	3.9

USFS Wx Station Data - Lincoln MT

MEAN WIND

Times are STANDARD (not Daylight Savings)

Winds referenced to TRUE North

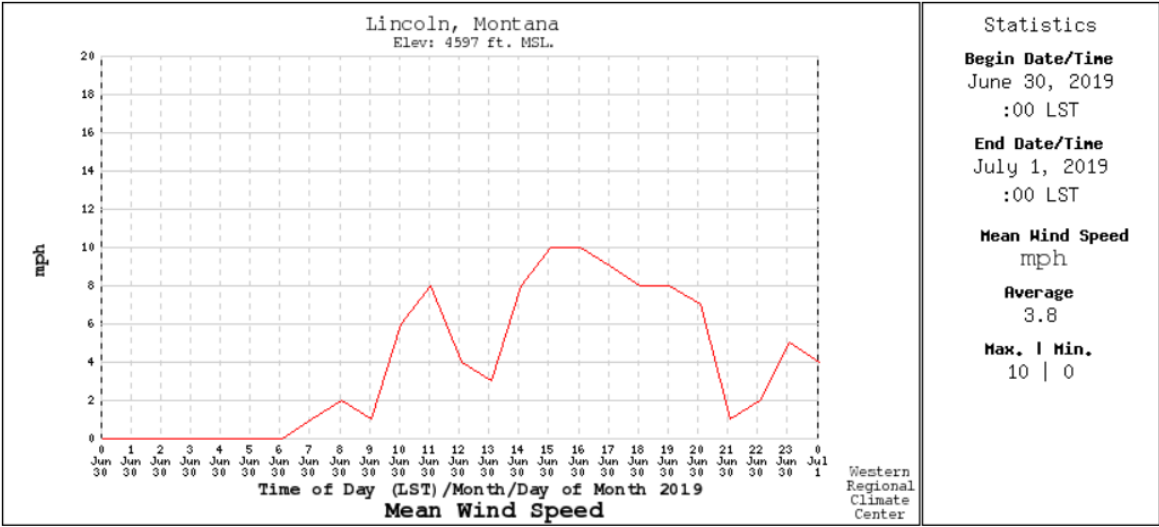
Speed - Average (Scalar) Speed in MPH
 U-Vel - East-West Velocity, Positive to East
 V-Vel - North-South Velocity, Positive to North
 Res Spd - Vector Average (resultant) Speed in MPH
 Res Dir - Vector Average (resultant) Direction
 Dir Con - Directional Constancy (Res Spd/Speed)
 Num Spd - Number of Wind Speed Observations
 Num Dir - Number of Wind Direction Observations

Time	Speed	U-Vel	V-Vel	Res Spd	Res Dir	Dir Con	Num Spd	Num Dir
0.0	0.0	0.0	0.0	0.0	0	0.000	1	1
1.0	0.0	0.0	0.0	0.0	0	0.000	1	1
2.0	0.0	0.0	0.0	0.0	0	0.000	1	1
3.0	0.0	0.0	0.0	0.0	0	0.000	1	1
4.0	0.0	0.0	0.0	0.0	0	0.000	1	1
5.0	0.0	0.0	0.0	0.0	0	0.000	1	1
6.0	0.0	0.0	0.0	0.0	0	0.000	1	1
7.0	1.0	1.0	-0.2	1.0	281	1.000	1	1
8.0	2.0	1.5	-1.3	2.0	310	1.000	1	1
9.0	1.0	0.5	0.9	1.0	211	1.000	1	1
10.0	6.0	-3.2	-5.1	6.0	32	1.000	1	1
11.0	8.0	-6.0	-5.2	8.0	49	1.000	1	1
12.0	4.0	0.5	-4.0	4.0	353	1.000	1	1
13.0	3.0	1.8	-2.4	3.0	324	1.000	1	1
14.0	8.0	-7.4	-3.0	8.0	68	1.000	1	1
15.0	10.0	-6.4	-7.7	10.0	40	1.000	1	1
16.0	10.0	-6.8	-7.3	10.0	43	1.000	1	1
17.0	9.0	-5.4	-7.2	9.0	37	1.000	1	1
18.0	8.0	-6.2	-5.0	8.0	51	1.000	1	1
19.0	8.0	-5.5	-5.9	8.0	43	1.000	1	1
20.0	7.0	-7.0	-0.1	7.0	89	1.000	1	1
21.0	1.0	0.3	1.0	1.0	198	1.000	1	1
22.0	2.0	-1.2	1.6	2.0	143	1.000	1	1
23.0	5.0	-4.8	-1.5	5.0	73	1.000	1	1
ALL	3.9	-2.3	-2.2	3.1	46	0.812	24	24

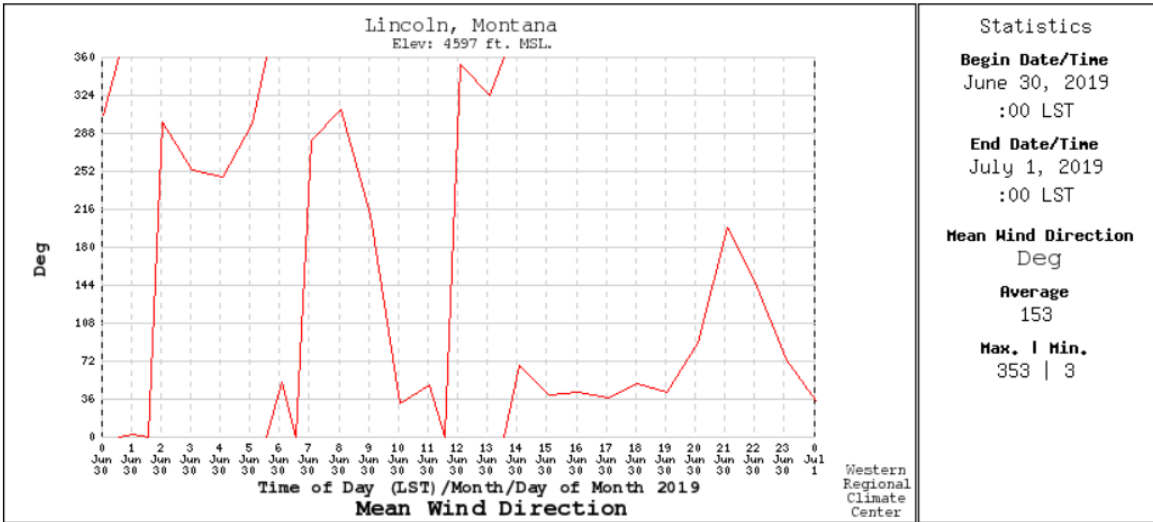
USFS Wx Station Data - Lincoln MT

Times are STANDARD (not Daylight Savings)
Winds referenced to TRUE North

Mean Wind Speed



Mean Wind Direction



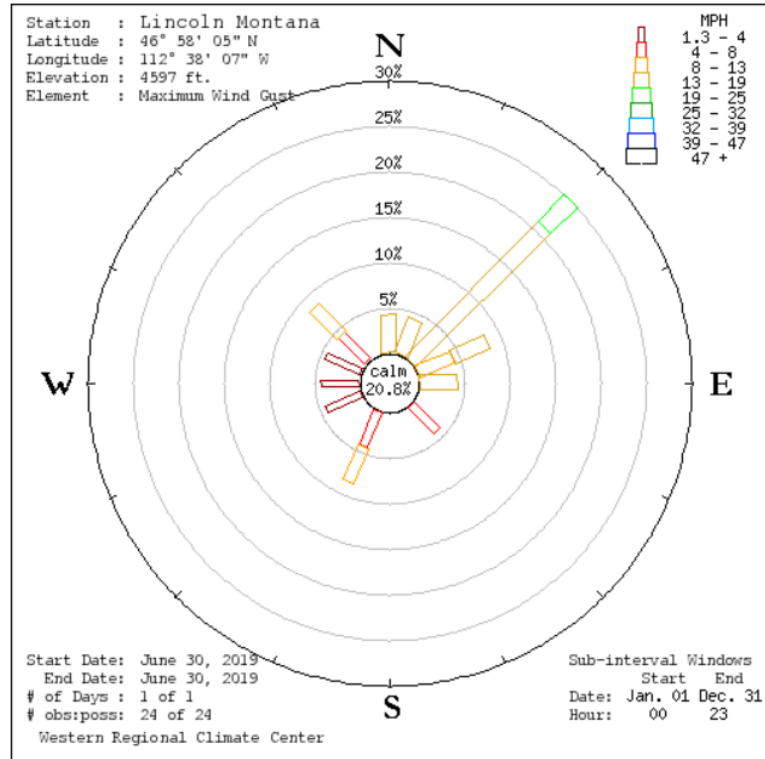
USFS Peak Winds – Lincoln MT

Peak Values

Wind Sensor Site is 0.7 nm 038° True from S69 Rwy 22 threshold

Times are STANDARD (not Daylight Savings)

Winds referenced to TRUE North



Lincoln Montana - Wind Frequency Table (percentage)

Latitude : 46° 58' 05" N	Start Date : June 30, 2019	Sub Interval Windows
Longitude : 112° 38' 07" W	End Date : June 30, 2019	Start End
Elevation : 4597 ft.	# of Days : 1 of 1	Date Jan. 01 Dec. 31
Element : Maximum Wind Gust	# obs of poss : 24 of 24	Hour 00 24

Range (mph)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
1.3 - 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2	4.2	0.0	0.0	12.5
4 - 8	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	4.2	0.0	0.0	0.0	0.0	4.2	0.0	12.5
8 - 13	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	4.2	0.0	12.5
13 - 19	4.2	4.2	20.8	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
19 - 25	0.0	0.0	4.2	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	4.2
25 - 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	0.0	0.0	0.0	0.0
32 - 39	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	0.0	0.0	0.0	0.0
39 - 47	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	0.0	0.0	0.0	0.0
47 -	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	0.0	0.0	0.0	0.0
Total (%)	4.2	4.2	25.0	8.3	4.2	0.0	4.2	0.0	0.0	8.3	0.0	4.2	4.2	4.2	8.3	0.0	79.2
Calm (<1.3)																	20.8
Ave. Speed	14.0	14.0	16.7	11.5	13.0	0.0	7.0	0.0	0.0	7.5	0.0	3.0	3.0	3.0	8.0	0.0	8.8

USFS Peak Winds – Lincoln MT

Peak Values

Times are STANDARD (not Daylight Savings)

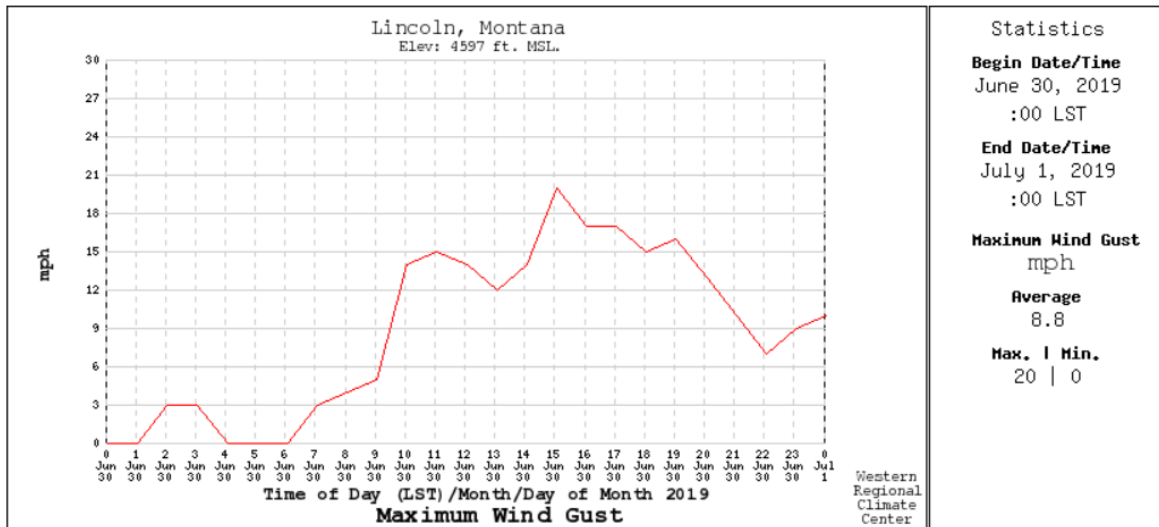
Winds referenced to TRUE North

Speed - Average (Scalar) Speed in MPH
 U-Vel - East-West Velocity, Positive to East
 V-Vel - North-South Velocity, Positive to North
 Res Spd - Vector Average (resultant) Speed in MPH
 Res Dir - Vector Average (resultant) Direction
 Dir Con - Directional Constancy (Res Spd/Speed)
 Num Spd - Number of Wind Speed Observations
 Num Dir - Number of Wind Direction Observations

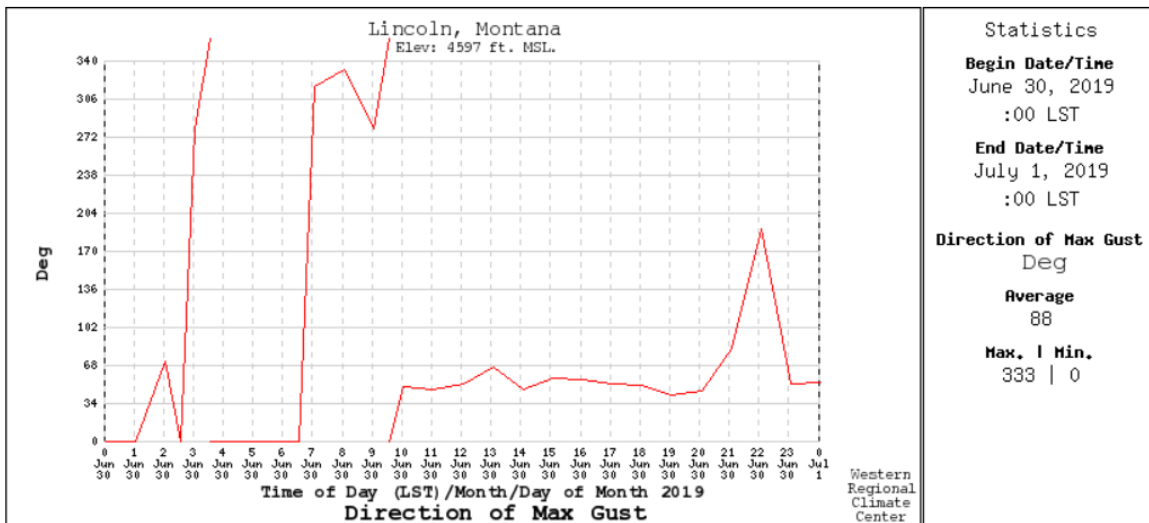
Time	Speed	U-Vel	V-Vel	Res Spd	Res Dir	Dir Con	Num Spd	Num Dir
0.0	0.0	0.0	0.0	0.0	0	0.000	1	1
1.0	0.0	0.0	0.0	0.0	0	0.000	1	1
2.0	3.0	2.6	-1.4	3.0	298	1.000	1	1
3.0	3.0	2.9	0.9	3.0	253	1.000	1	1
4.0	0.0	0.0	0.0	0.0	0	0.000	1	1
5.0	0.0	0.0	0.0	0.0	0	0.000	1	1
6.0	0.0	0.0	0.0	0.0	0	0.000	1	1
7.0	3.0	2.9	-0.6	3.0	281	1.000	1	1
8.0	4.0	3.1	-2.6	4.0	310	1.000	1	1
9.0	5.0	2.6	4.3	5.0	211	1.000	1	1
10.0	14.0	-7.4	-11.9	14.0	32	1.000	1	1
11.0	15.0	-11.3	-9.8	15.0	49	1.000	1	1
12.0	14.0	1.7	-13.9	14.0	353	1.000	1	1
13.0	12.0	7.1	-9.7	12.0	324	1.000	1	1
14.0	14.0	-13.0	-5.2	14.0	68	1.000	1	1
15.0	20.0	-12.9	-15.3	20.0	40	1.000	1	1
16.0	17.0	-11.6	-12.4	17.0	43	1.000	1	1
17.0	17.0	-10.2	-13.6	17.0	37	1.000	1	1
18.0	15.0	-11.7	-9.4	15.0	51	1.000	1	1
19.0	16.0	-10.9	-11.7	16.0	43	1.000	1	1
20.0	13.0	-13.0	-0.2	13.0	89	1.000	1	1
21.0	10.0	3.1	9.5	10.0	198	1.000	1	1
22.0	7.0	-4.2	5.6	7.0	143	1.000	1	1
23.0	9.0	-8.6	-2.6	9.0	73	1.000	1	1
ALL	8.8	-3.7	-4.2	5.6	42	0.635	24	24

USFS Peak Winds – Lincoln MT

Maximum Wind Gust



Direction of Max Gust



Times are STANDARD (not Daylight Savings)
Winds referenced to TRUE North

Wx Data

Accident 6/30/19 1125 MDT

USFS Wx facility ~0.7 nautical miles 038° True from S69 Rwy 22 threshold

Times are STANDARD (not Daylight Savings)

Winds referenced to TRUE North

Lincoln Montana

Daily Summary for

June 30, 2019

Hour of Day Ending at L.S.T.	Total Solar Rad. ° ly.	Ave. mph	Wind V. Dir. Deg	Max. mph	Air Temperature Mean Deg. F.	Relative Humidity Mean Percent	Dew Point Deg. F.	Wet Bulb	Total Precip. inches
1 am	0.0	0.0	3	0.0	43.0	87	39	41	0.00
2 am	0.0	0.0	298	3.0	41.0	90	38	40	0.00
3 am	0.0	0.0	253	3.0	40.0	94	38	39	0.00
4 am	0.0	0.0	246	0.0	37.0	96	36	36	0.00
5 am	0.3	0.0	297	0.0	36.0	96	35	36	0.00
6 am	8.3	0.0	52	0.0	41.0	87	37	39	0.00
7 am	21.3	1.0	281	3.0	50.0	72	41	45	0.00
8 am	35.6	2.0	310	4.0	57.0	57	42	49	0.00
9 am	47.9	1.0	211	5.0	67.0	43	44	53	0.00
10 am	62.0	6.0	32	14.0	73.0	32	41	54	0.00
11 am	67.2	8.0	49	15.0	74.0	29	40	54	0.00
12 pm	77.1	4.0	353	14.0	78.0	26	40	56	0.00
1 pm	81.3	3.0	324	12.0	81.0	24	41	57	0.00
2 pm	80.5	8.0	68	14.0	80.0	25	41	57	0.00