

**From:** Mike Gaither  
**To:** [Saxton, John](#)  
**Cc:** [Burrows, Ronald](#)  
**Subject:** [External\_Sender] RE: Three Revised Figures for the Met report  
**Date:** Monday, December 11, 2017 1:40:13 PM  
**Attachments:** [LC Wind Roses POR rev.pdf](#)

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Here is the full pdf that includes the corrected roses and correct distribution table for POR. Let me know if you need anything else.

Thanks,

**Michael Gaither**  
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Casper, WY 82609 USA  
(307) 265-2373 ext. 321



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**From:** Saxton, John [mailto:John.Saxton@nrc.gov]  
**Sent:** Monday, December 11, 2017 10:22 AM  
**To:** Mike Gaither <mike.gaither@UR-Energy.com>  
**Cc:** Burrows, Ronald <Ronald.Burrows@nrc.gov>  
**Subject:** Three Revised Figures for the Met report

Mike,

Please revise and resubmit the following three (3) wind roses from the November 11, 2017 report.

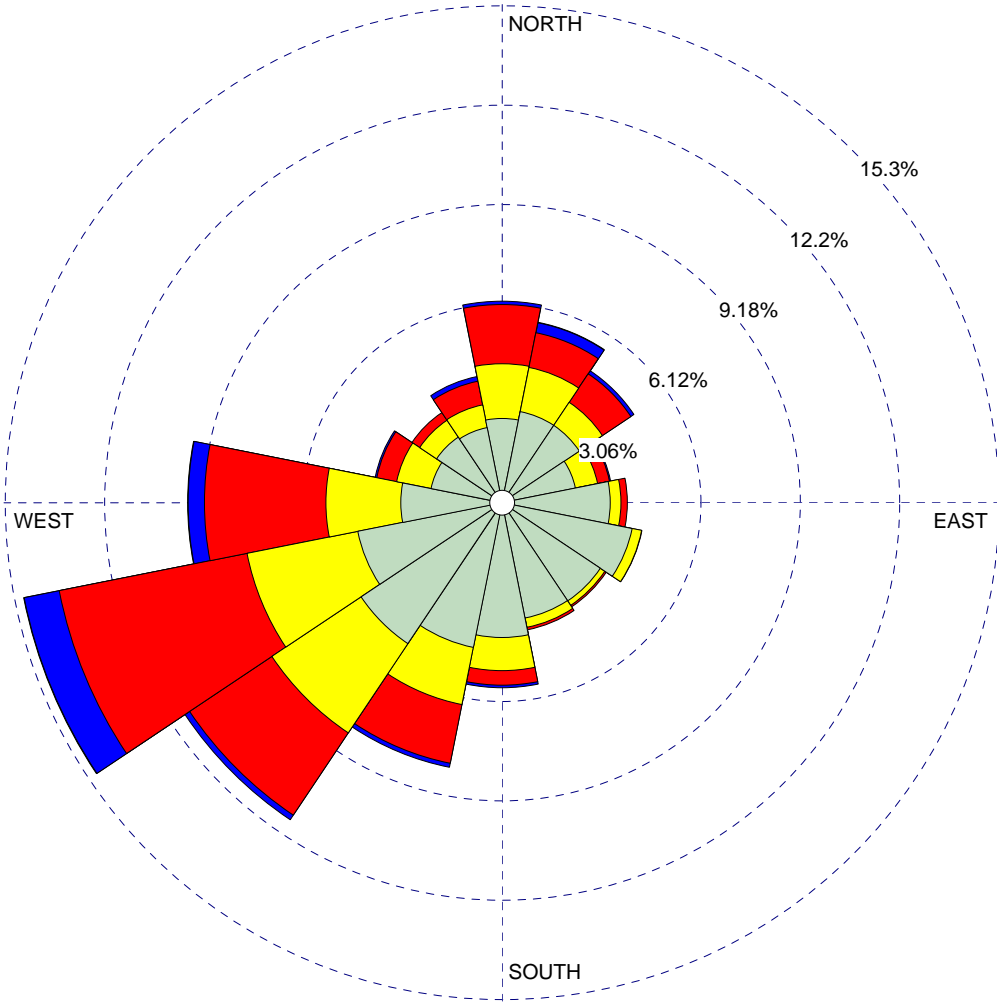
- (1) 2013 - The data period suggests it was 2014 instead of 2013
- (2) 2014 - The data period suggests it was 2013 instead of 2014
- (3) Composite for period of Record (2009-2010, 2012-2014) – The data period suggest that data collected at less than the minimum recovery rate (e.g., 2011, 2015) were included in the wind rose

Thanks

John

WIND ROSE PLOT: **Station**  
**Lost Creek**

DISPLAY:  
**Wind Speed**  
**Direction (blowing from)**



**WIND SPEED**  
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 2.25%

COMMENTS:  
  
**2009**

DATA PERIOD:  
**Start Date: 1/1/2009 - 00:00**  
**End Date: 12/31/2009 - 23:00**

CALM WINDS:  
**2.25%**

AVG. WIND SPEED:  
**2.45 m/s**

COMPANY NAME:  
**Lost Creek ISR, LLC**

MODELER:

TOTAL COUNT:  
**8760 hrs.**

DATE:  
**10/11/2017**

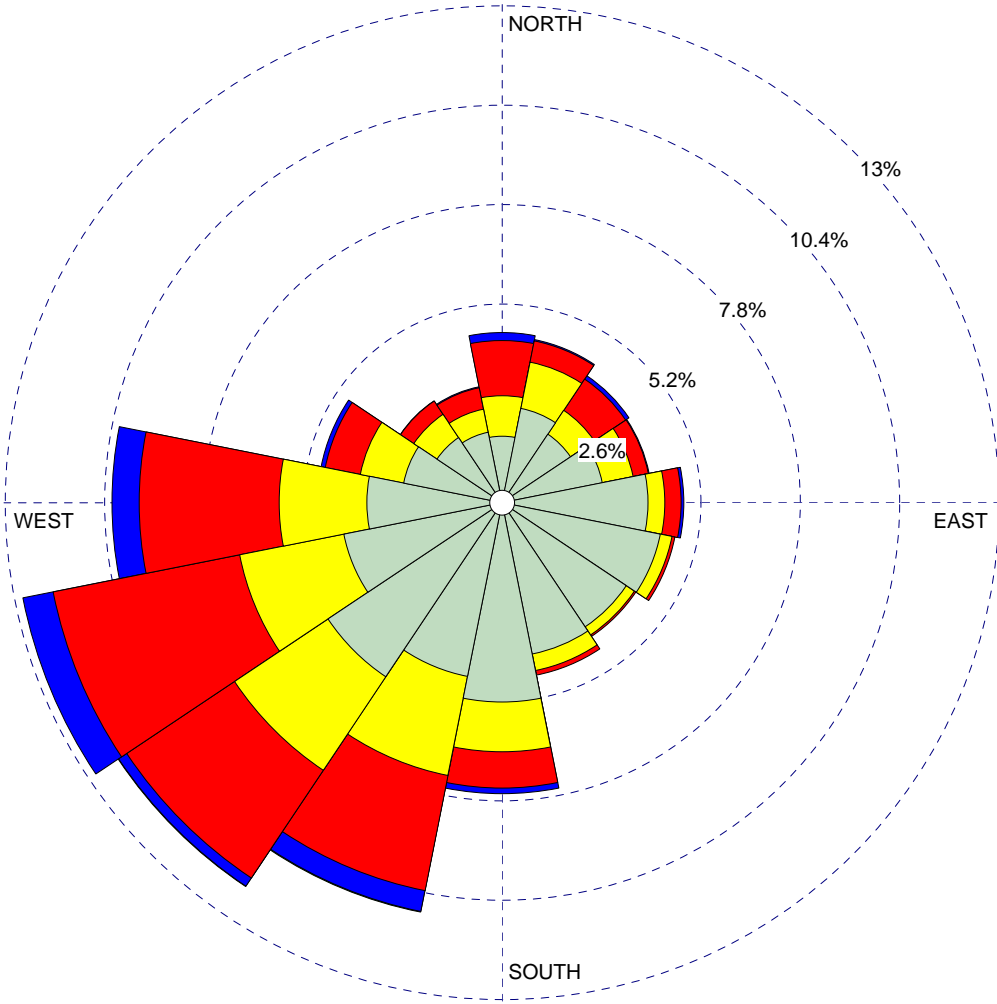
PROJECT NO.:

**Joint Frequency Distribution  
Lost Creek ISR Project**

Directions	2009 Wind Classes (m/s)						Total
	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	
N	0.026	0.017	0.018	0.001	0	0	0.062
NNE	0.029	0.014	0.011	0.003	0	0	0.057
NE	0.029	0.009	0.011	0.001	0	0	0.049
ENE	0.023	0.007	0.004	0	0	0	0.034
E	0.033	0.003	0.002	0	0	0	0.038
ESE	0.041	0.003	0	0	0	0	0.044
SE	0.036	0.002	0.001	0	0	0	0.038
SSE	0.036	0.003	0.001	0	0	0	0.040
S	0.041	0.010	0.004	0.001	0	0	0.057
SSW	0.045	0.018	0.018	0.001	0	0	0.083
SW	0.052	0.033	0.030	0.002	0	0	0.117
WSW	0.045	0.035	0.059	0.011	0	0	0.150
W	0.031	0.023	0.037	0.005	0	0	0.097
WNW	0.022	0.011	0.006	0	0	0	0.040
NW	0.024	0.006	0.003	0	0	0	0.033
NNW	0.024	0.007	0.007	0.001	0	0	0.040
Sub-Total	0.538	0.200	0.213	0.027	0	0	0.978
Calms							0.022
Missing/Incomplete							0
Total							1

WIND ROSE PLOT: **Station**  
**Lost Creek**

DISPLAY:  
**Wind Speed**  
**Direction (blowing from)**



**WIND SPEED**  
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 0.62%

COMMENTS:  
  
**2010**

DATA PERIOD:  
**Start Date: 1/1/2010 - 00:00**  
**End Date: 12/29/2010 - 16:00**

CALM WINDS:  
**0.62%**

AVG. WIND SPEED:  
**2.49 m/s**

COMPANY NAME:  
**Lost Creek ISR, LLC**

MODELER:

TOTAL COUNT:  
**8691 hrs.**

DATE:  
**10/11/2017**

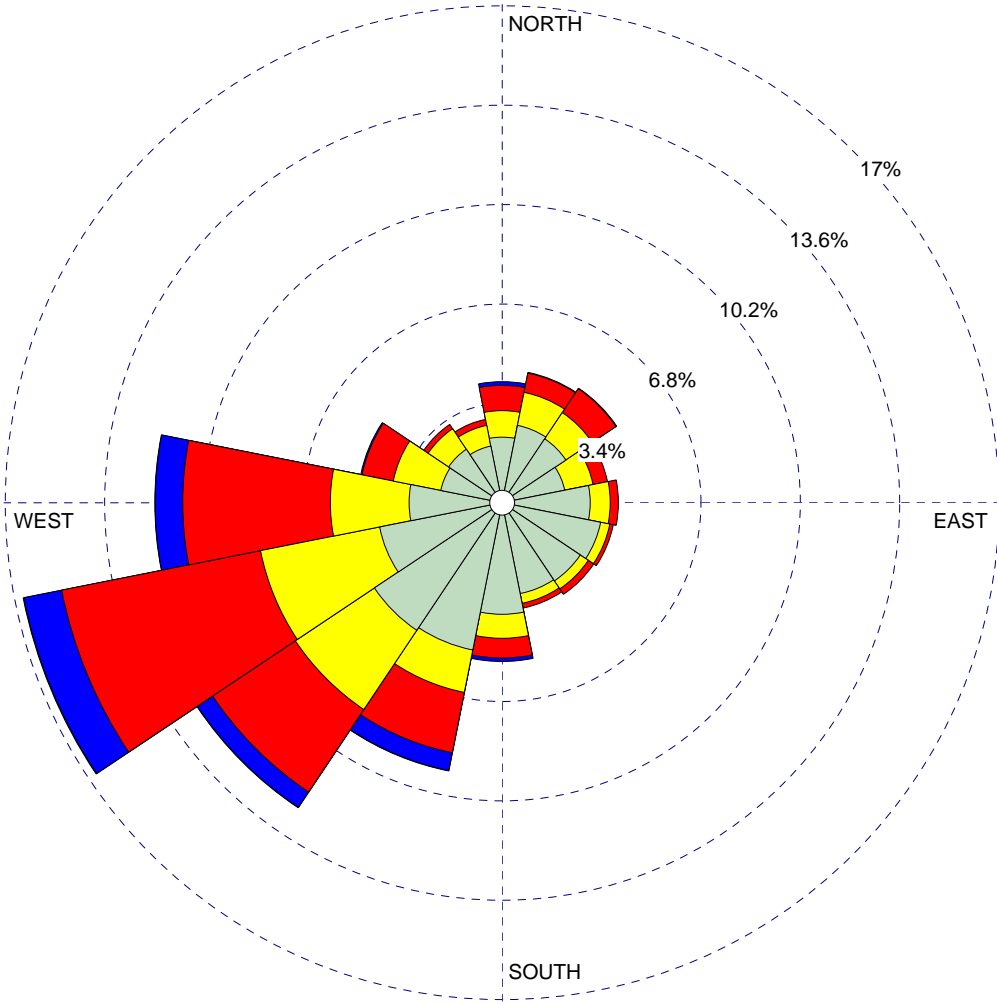
PROJECT NO.:

**Joint Frequency Distribution  
Lost Creek ISR Project**

Directions	2010 Wind Classes (m/s)						Total
	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	
N	0.017	0.011	0.014	0.002	0	0	0.044
NNE	0.025	0.012	0.006	0	0	0	0.043
NE	0.022	0.007	0.010	0.001	0	0	0.040
ENE	0.027	0.008	0.004	0	0	0	0.039
E	0.038	0.004	0.004	0.001	0	0	0.047
ESE	0.042	0.003	0.001	0	0	0	0.046
SE	0.039	0.003	0	0	0	0	0.042
SSE	0.040	0.004	0.001	0	0	0	0.046
S	0.052	0.013	0.009	0.002	0	0	0.076
SSW	0.046	0.026	0.031	0.006	0	0	0.109
SW	0.055	0.029	0.034	0.003	0	0	0.120
WSW	0.042	0.028	0.050	0.008	0	0	0.127
W	0.035	0.023	0.036	0.007	0	0	0.102
WNW	0.026	0.012	0.009	0.001	0	0	0.048
NW	0.020	0.007	0.004	0	0	0	0.032
NNW	0.019	0.006	0.006	0	0	0	0.031
Sub-Total	0.546	0.197	0.220	0.031	0	0	0.994
Calms							0.006
Missing/Incomplete							0
Total							1

WIND ROSE PLOT: **Station**  
**Lost Creek**

DISPLAY:  
**Wind Speed**  
**Direction (blowing from)**



**WIND SPEED**  
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 0.86%

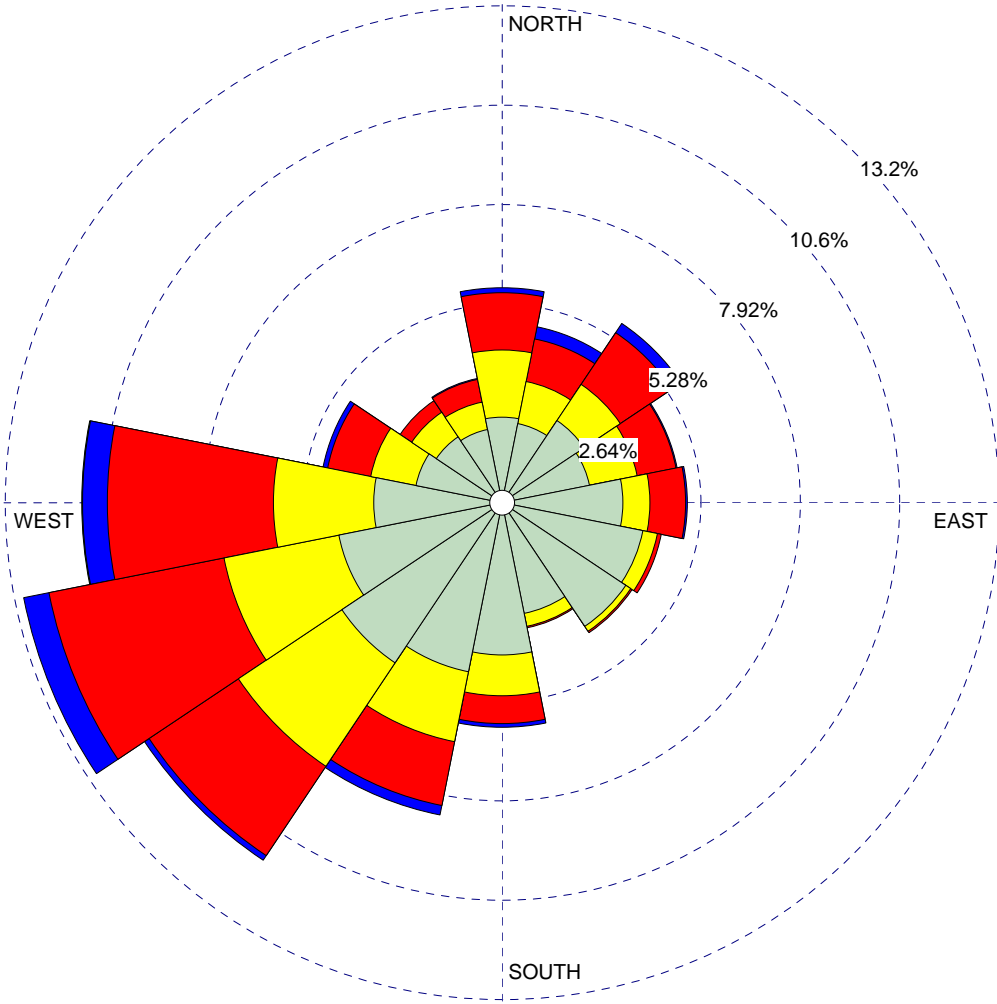
<b>COMMENTS:</b>  <b>2012</b>	<b>DATA PERIOD:</b> Start Date: 1/1/2012 - 00:00 End Date: 12/31/2012 - 23:00	<b>COMPANY NAME:</b> Lost Creek ISR, LLC	
		<b>MODELER:</b>	
	<b>CALM WINDS:</b> 0.86%	<b>TOTAL COUNT:</b> 8209 hrs.	
	<b>AVG. WIND SPEED:</b> 2.64 m/s	<b>DATE:</b> 9/22/2017	<b>PROJECT NO.:</b>

**Joint Frequency Distribution  
Lost Creek ISR Project**

Directions	2012 Wind Classes (m/s)						Total
	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	
N	0.022	0.009	0.009	0.001	0	0	0.041
NNE	0.027	0.011	0.007	0	0	0	0.045
NE	0.026	0.011	0.010	0	0	0	0.047
ENE	0.022	0.010	0.005	0	0	0	0.037
E	0.030	0.007	0.003	0	0	0	0.040
ESE	0.034	0.003	0.001	0	0	0	0.039
SE	0.032	0.003	0.002	0	0	0	0.038
SSE	0.032	0.003	0.002	0	0	0	0.037
S	0.038	0.008	0.007	0.001	0	0	0.054
SSW	0.051	0.015	0.021	0.006	0.00012	0	0.093
SW	0.052	0.033	0.034	0.006	0.00012	0	0.125
WSW	0.043	0.041	0.069	0.013	0.00024	0	0.167
W	0.032	0.027	0.050	0.009	0.00012	0	0.119
WNW	0.021	0.017	0.011	0	0	0	0.049
NW	0.022	0.008	0.002	0	0	0	0.032
NNW	0.020	0.007	0.002	0	0	0	0.029
Sub-Total	0.505	0.214	0.234	0.038	0.0006	0	0.991
Calms							0.009
Missing/Incomplete							0
Total							1

WIND ROSE PLOT: **Station**  
**Lost Creek**

DISPLAY:  
**Wind Speed**  
**Direction (blowing from)**



**WIND SPEED**  
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 1.08%

COMMENTS:

**2013**

DATA PERIOD:

**Start Date: 1/1/2013 - 00:00**  
**End Date: 12/31/2013 - 23:00**

COMPANY NAME:

**Lost Creek ISR, LLC**

MODELER:

CALM WINDS:

**1.08%**

TOTAL COUNT:

**8249 hrs.**

AVG. WIND SPEED:

**2.55 m/s**

DATE:

**9/22/2017**

PROJECT NO.:

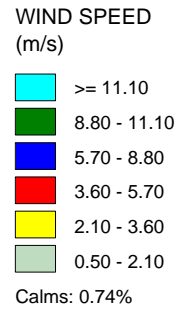
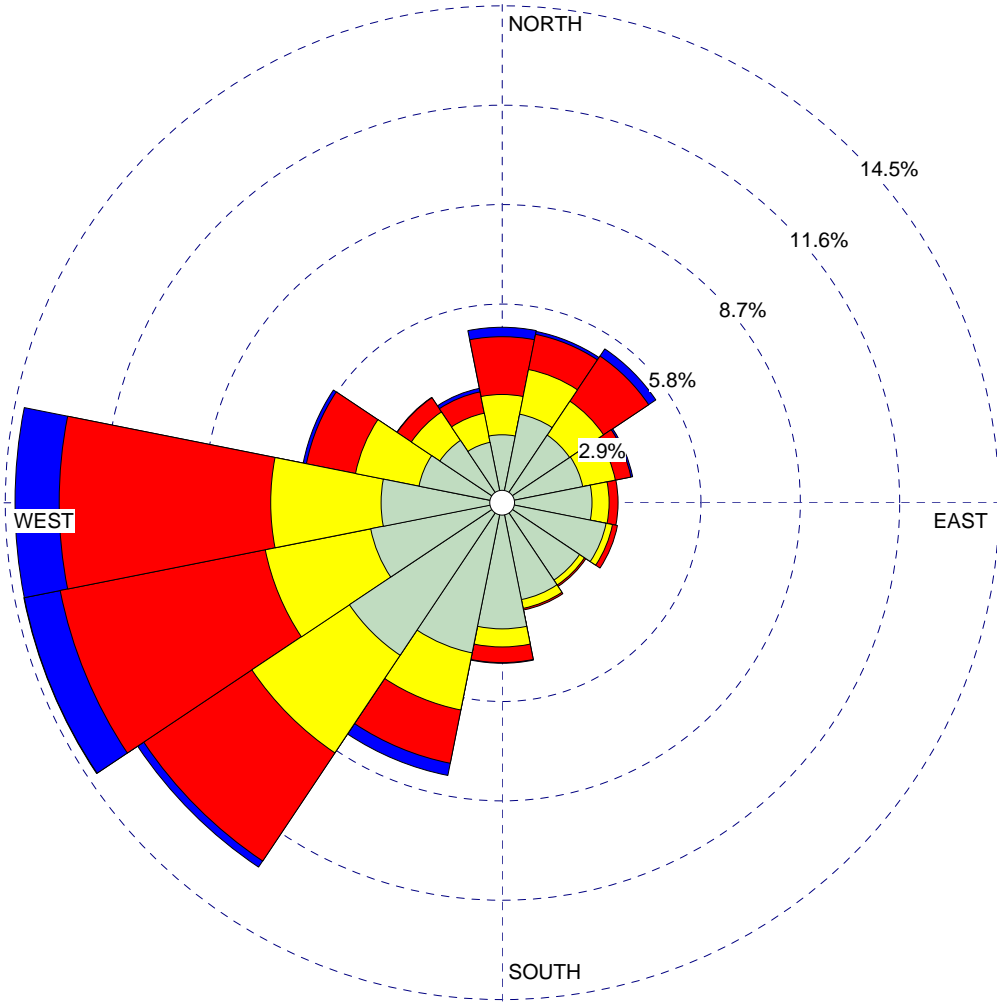


**Joint Frequency Distribution  
Lost Creek ISR Project**

Directions	2013 Wind Classes (m/s)						Total
	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	
N	0.023	0.018	0.015	0.001	0	0	0.057
NNE	0.021	0.011	0.012	0.003	0	0	0.048
NE	0.026	0.012	0.016	0.003	0	0	0.057
ENE	0.024	0.013	0.011	0	0	0	0.047
E	0.032	0.007	0.009	0	0	0	0.049
ESE	0.038	0.004	0.001	0	0	0	0.043
SE	0.039	0.002	0	0	0	0	0.041
SSE	0.030	0.004	0	0	0	0	0.034
S	0.040	0.011	0.007	0.001	0	0	0.060
SSW	0.046	0.019	0.017	0.003	0	0	0.084
SW	0.051	0.033	0.028	0.001	0	0	0.114
WSW	0.044	0.031	0.047	0.007	0	0	0.129
W	0.034	0.027	0.044	0.007	0	0	0.111
WNW	0.023	0.012	0.012	0.001	0	0	0.048
NW	0.021	0.008	0.004	0	0	0	0.032
NNW	0.020	0.007	0.006	0	0	0	0.034
Sub-Total	0.513	0.217	0.231	0.028	0	0	0.989
Calms							0.011
Missing/Incomplete							0
Total							1

WIND ROSE PLOT: **Station**  
**Lost Creek**

DISPLAY:  
**Wind Speed**  
**Direction (blowing from)**



COMMENTS:  
  
**2014**

DATA PERIOD:  
**Start Date: 1/1/2014 - 00:00**  
**End Date: 12/31/2014 - 23:00**

CALM WINDS:  
**0.74%**

AVG. WIND SPEED:  
**2.69 m/s**

COMPANY NAME:  
**Lost Creek ISR, LLC**

MODELER:

TOTAL COUNT:  
**8026 hrs.**

DATE:  
**9/22/2017**

PROJECT NO.:

**Joint Frequency Distribution  
Lost Creek ISR Project**

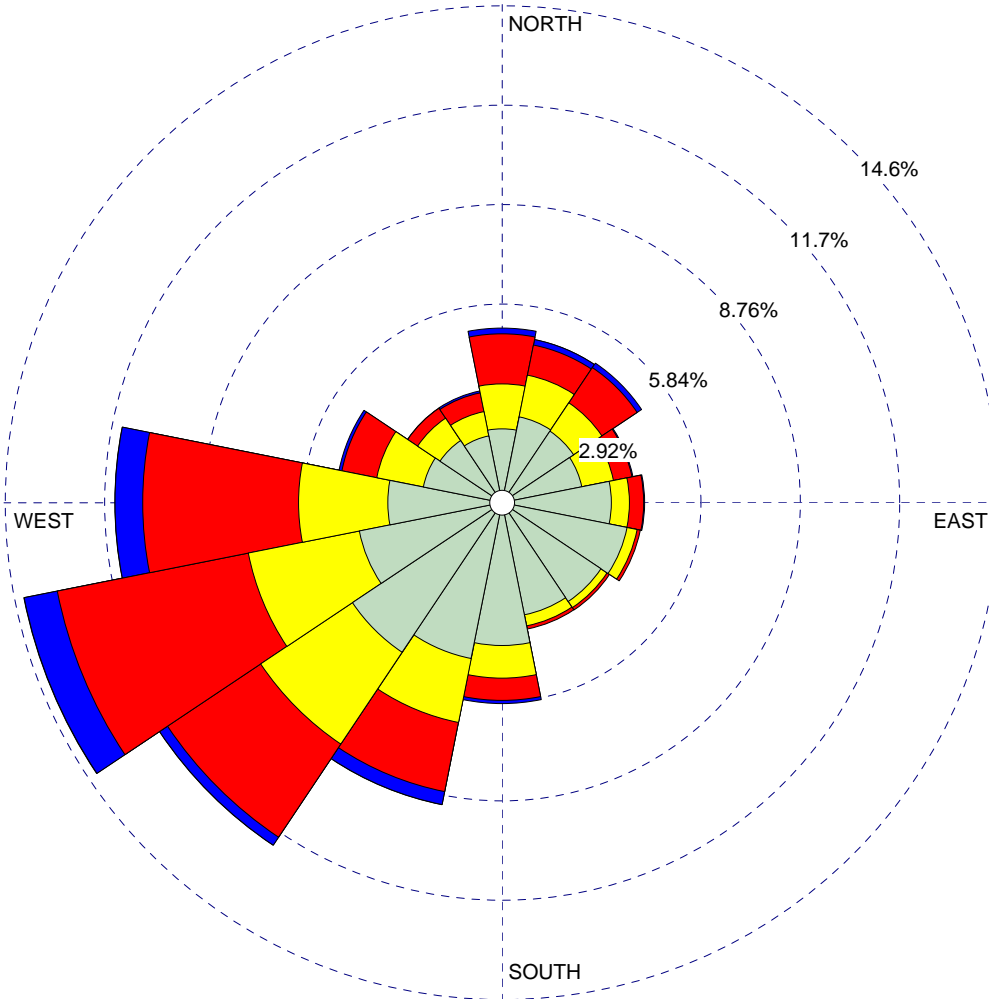
Directions	2014 Wind Classes (m/s)						Total
	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	
N	0.020	0.012	0.017	0.003	0	0	0.051
NNE	0.026	0.013	0.010	0.001	0	0	0.051
NE	0.024	0.012	0.016	0.002	0	0	0.054
ENE	0.024	0.010	0.005	0.001	0	0	0.039
E	0.026	0.005	0.003	0	0	0	0.034
ESE	0.031	0.002	0.002	0	0	0	0.034
SE	0.027	0.002	0.001	0	0	0	0.029
SSE	0.029	0.003	0.001	0	0	0	0.032
S	0.037	0.005	0.005	0	0	0	0.047
SSW	0.045	0.017	0.016	0.004	0	0	0.081
SW	0.053	0.034	0.038	0.002	0	0	0.128
WSW	0.039	0.031	0.061	0.011	0	0	0.142
W	0.035	0.032	0.062	0.013	0	0	0.142
WNW	0.025	0.019	0.015	0.001	0	0	0.059
NW	0.022	0.010	0.005	0	0	0	0.037
NNW	0.018	0.009	0.006	0.001	0	0	0.034
Sub-Total	0.480	0.215	0.260	0.038	0	0	0.993
Calms							0.007
Missing/Incomplete							0
Total							1

WIND ROSE PLOT:

Station #Lost Creek

DISPLAY:

Wind Speed  
Direction (blowing from)



WIND SPEED  
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 1.12%

COMMENTS:

Composite for  
Period of  
Record  
(2009-2010,  
2012-2014)

DATA PERIOD:

Start Date: 1/1/2009 - 00:00  
End Date: 12/31/2014 - 23:00  
(Exclusive of 2011)

COMPANY NAME:

Lost Creek ISR, LLC

MODELER:

CALM WINDS:

1.12%

TOTAL COUNT:

41935 hrs.

AVG. WIND SPEED:

2.56 m/s

DATE:

12/11/2017

PROJECT NO.:

**Joint Frequency Distribution  
Lost Creek ISR Project**

**POR Composite  
2009-2010, 2012-2014**

Directions	Wind Classes (m/s)						Total
	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	
N	0.022	0.013	0.015	0.002	0	0	0.05
NNE	0.026	0.012	0.009	0.002	0.00002	0	0.05
NE	0.025	0.010	0.012	0.002	0	0	0.05
ENE	0.024	0.009	0.006	0.00026	0	0	0.04
E	0.032	0.005	0.004	0.00024	0	0	0.04
ESE	0.037	0.003	0.001	0	0	0	0.04
SE	0.035	0.002	0.001	0	0	0	0.04
SSE	0.034	0.003	0.001	0	0	0	0.04
S	0.042	0.010	0.007	0.001	0	0	0.06
SSW	0.047	0.019	0.021	0.004	0.00007	0	0.09
SW	0.053	0.032	0.033	0.003	0.00005	0	0.12
WSW	0.043	0.033	0.057	0.010	0.0001	0	0.14
W	0.034	0.026	0.046	0.008	0.0001	0	0.11
WNW	0.024	0.014	0.010	0.001	0	0	0.05
NW	0.022	0.008	0.003	0.0001	0	0	0.03
NNW	0.020	0.007	0.006	0.001	0	0	0.03
Sub-Total	0.51699	0.20827	0.23081	0.03238	0.00033	0	0.99
Calms							0.01
Missing/Incomplete							0
Total							1