

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](#)

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



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.

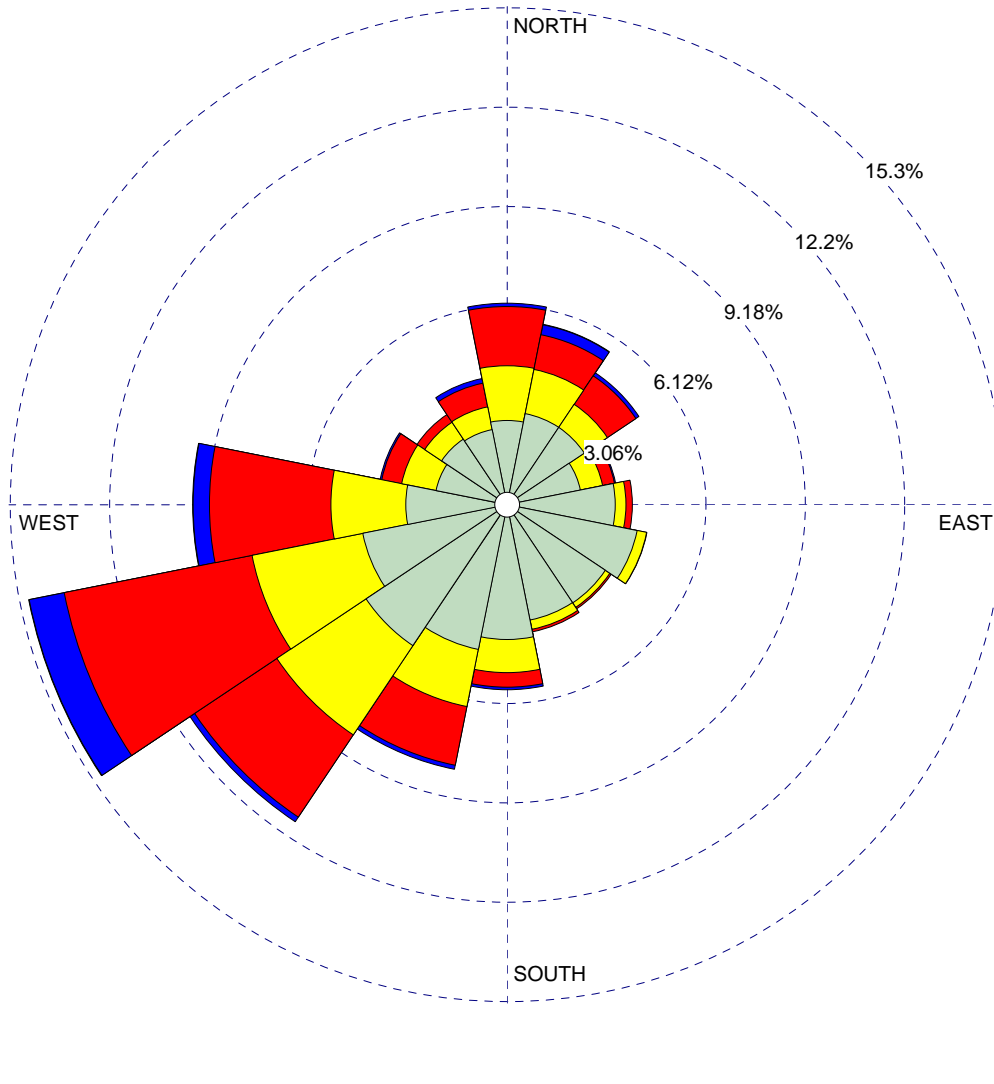
- (1) 2013 - The data period suggests it was 2014 instead of 2013
- (2) 2014 - The data period suggests it was 2013 instead of 2014
- (3) Composite for period of Record (2009-2010, 2012-2014) – The data period suggest that data collected at less than the minimum recovery rate (e.g., 2011, 2015) were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

Thanks

John

WIND ROSE PLOT: **Station**
Lost Creek

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:

2009

DATA PERIOD:

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

COMPANY NAME:

Lost Creek ISR, LLC

MODELER:

CALM WINDS:

2.25%

TOTAL COUNT:

8760 hrs.

AVG. WIND SPEED:

2.45 m/s

DATE:

10/11/2017

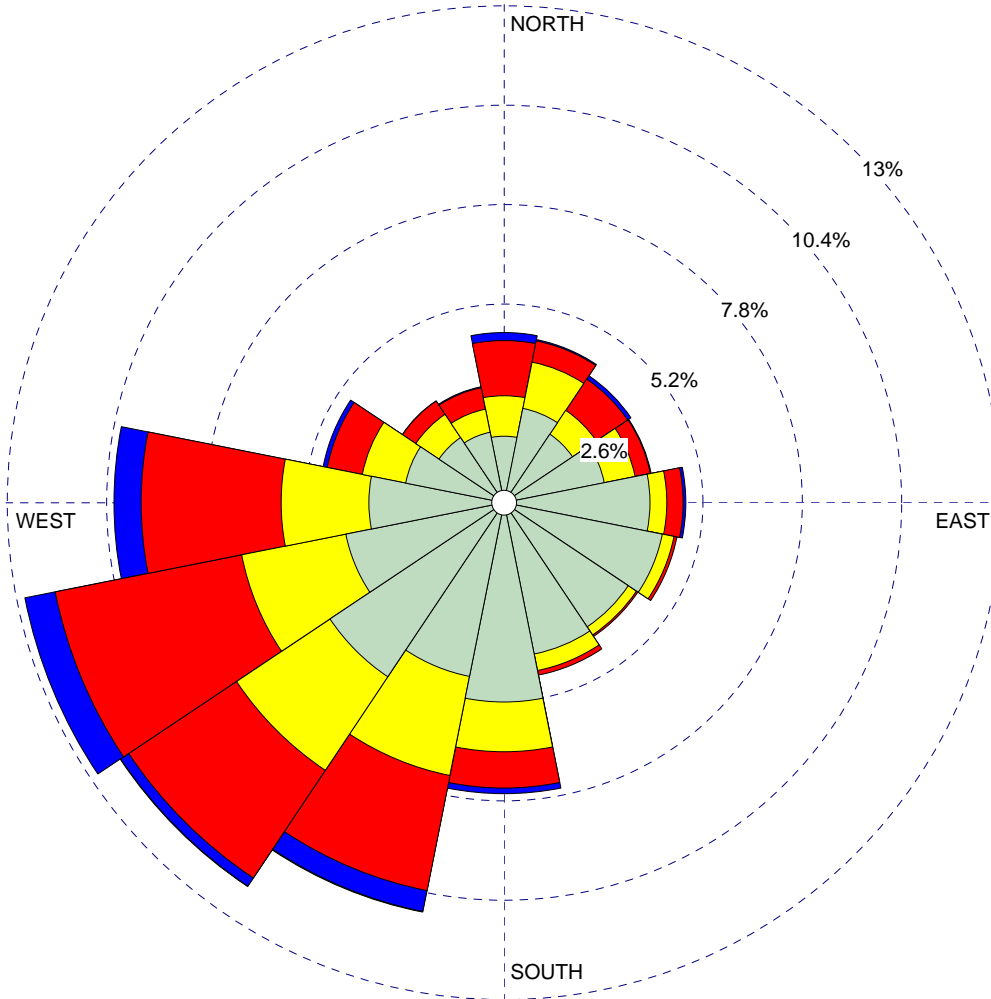
PROJECT NO.:

**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

COMPANY NAME:

Lost Creek ISR, LLC

MODELER:

CALM WINDS:

0.62%

TOTAL COUNT:

8691 hrs.

AVG. WIND SPEED:

2.49 m/s

DATE:

10/11/2017

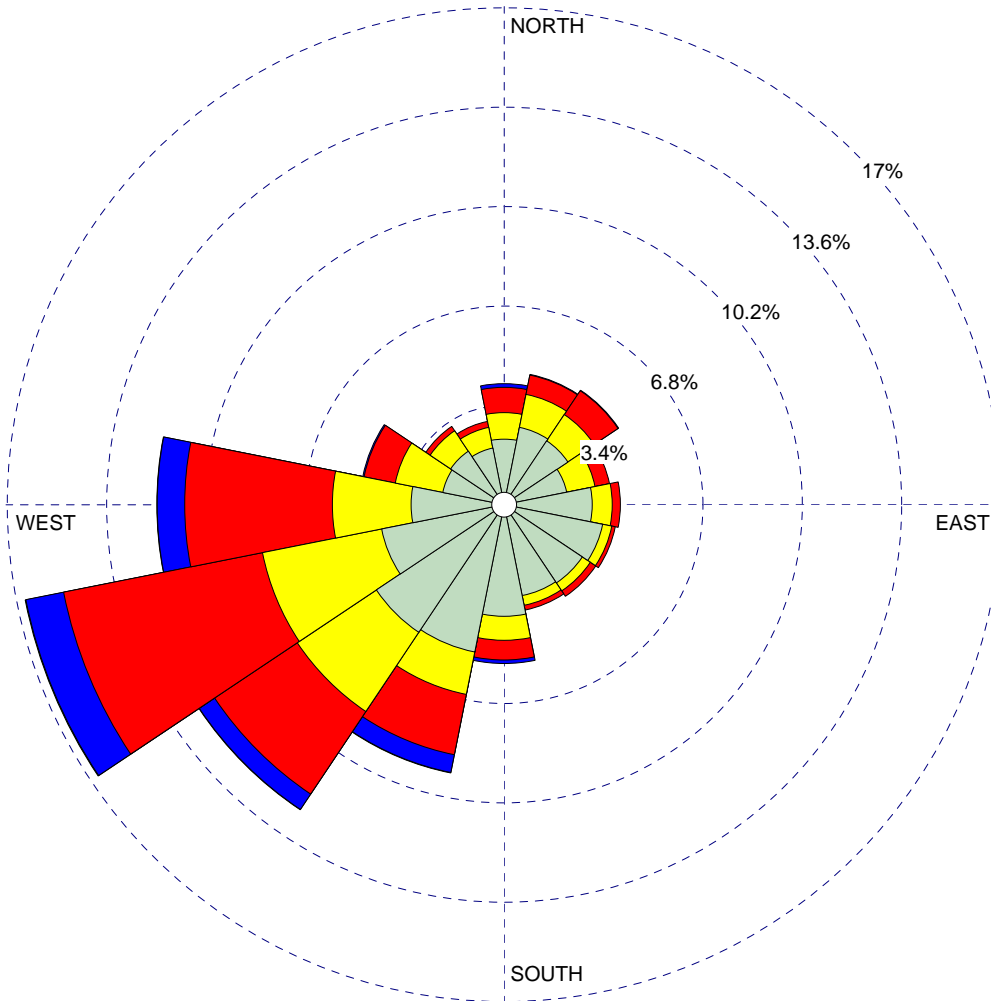
PROJECT NO.:

**Joint Frequency Distribution
Lost Creek ISR Project**

Directions	2010 Wind Classes (m/s)						
	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
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%

COMMENTS:

2012

DATA PERIOD:

Start Date: 1/1/2012 - 00:00
End Date: 12/31/2012 - 23:00

COMPANY NAME:

Lost Creek ISR, LLC

MODELER:

CALM WINDS:

0.86%

TOTAL COUNT:

8209 hrs.

AVG. WIND SPEED:

2.64 m/s

DATE:

9/22/2017

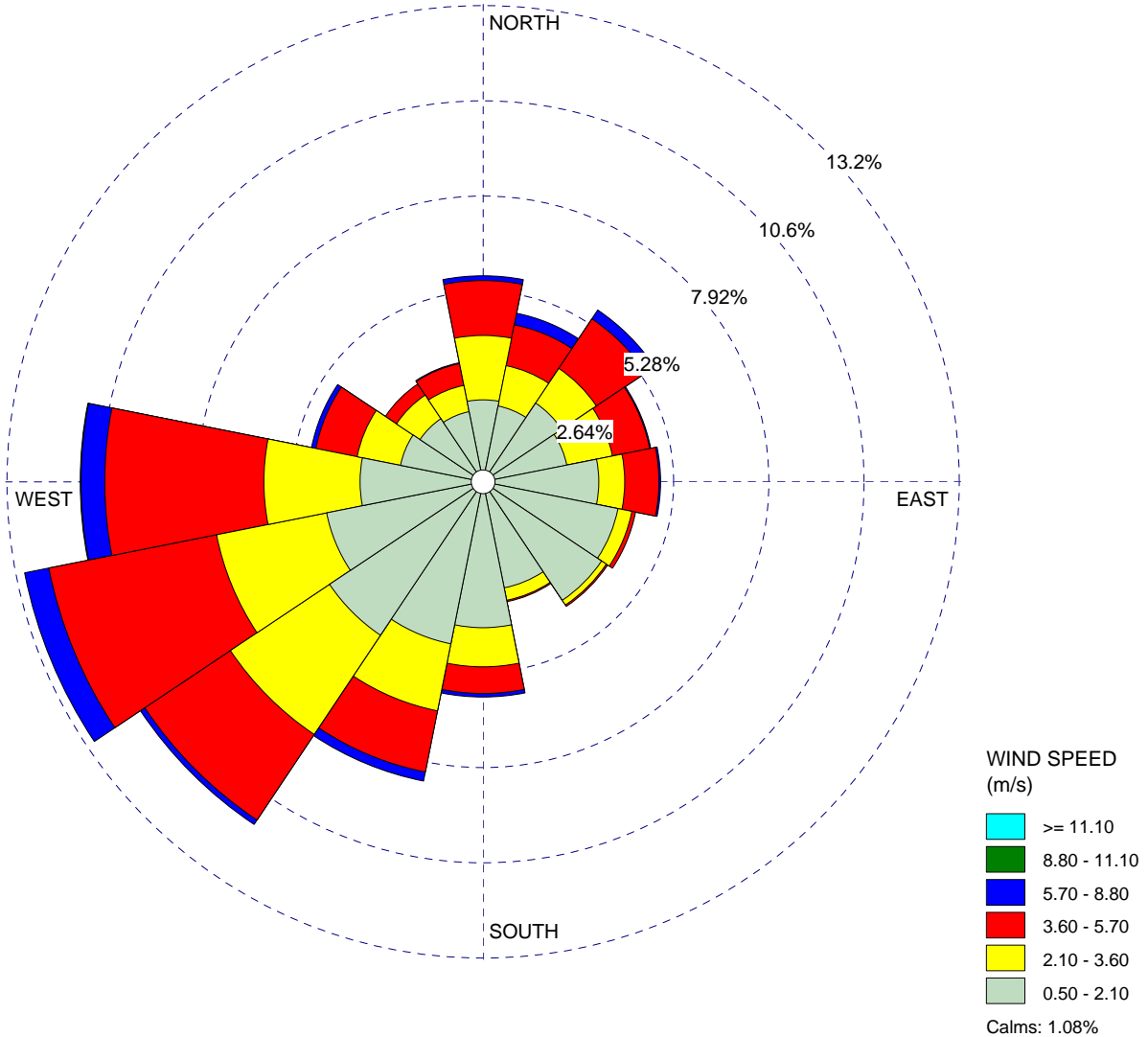
PROJECT NO.:

**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)



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

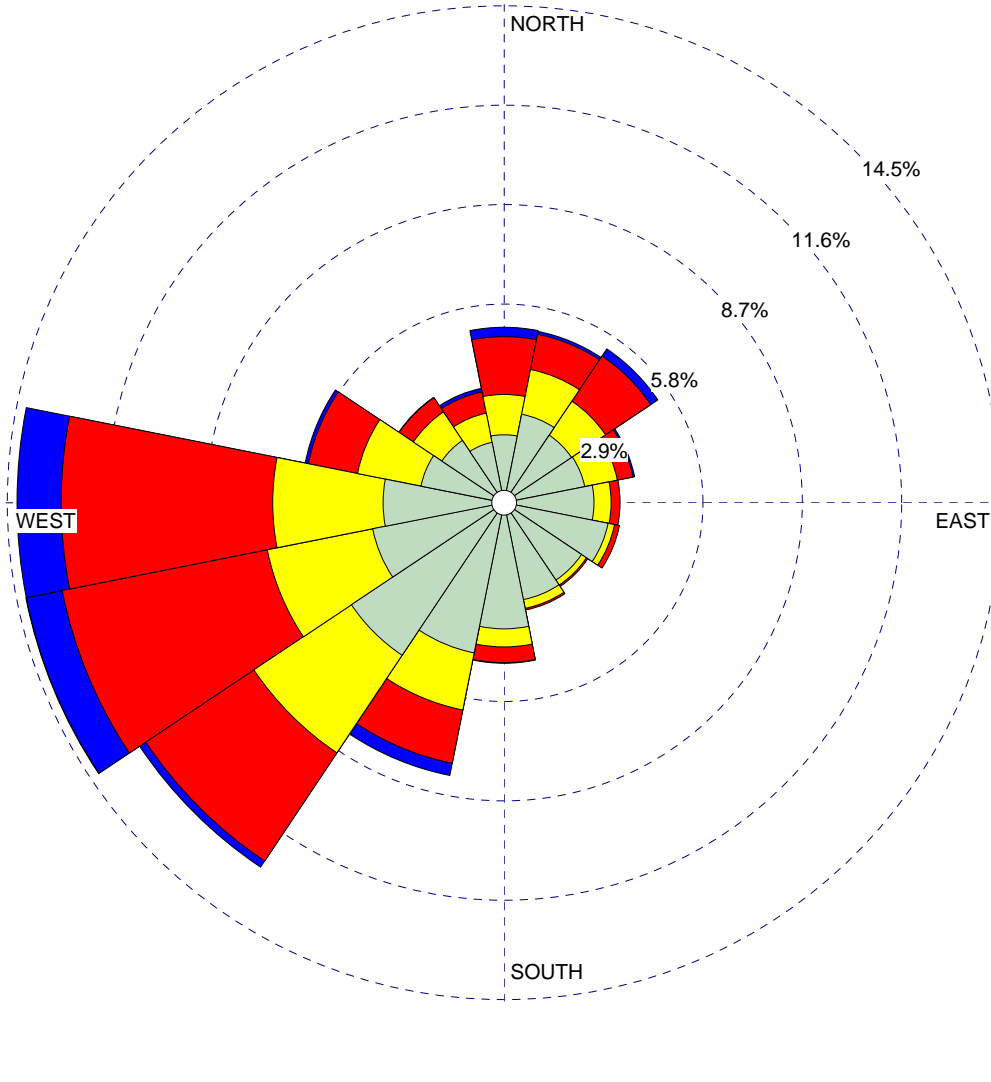
PROJECT NO.:

**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

COMPANY NAME:

Lost Creek ISR, LLC

MODELER:

CALM WINDS:

0.74%

TOTAL COUNT:

8026 hrs.

AVG. WIND SPEED:

2.69 m/s

DATE:

9/22/2017

PROJECT NO.:

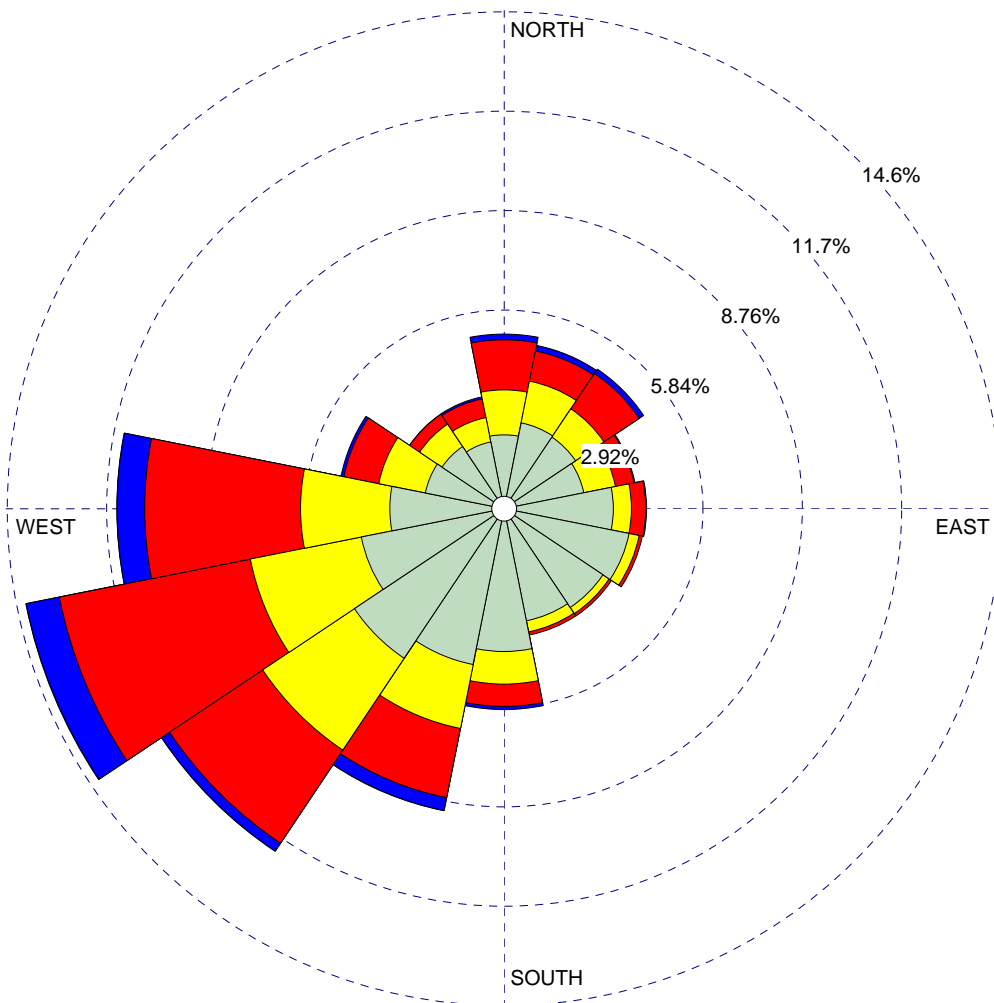
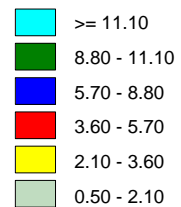
**Joint Frequency Distribution
Lost Creek ISR Project**

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)

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)

CALM WINDS:

1.12%

AVG. WIND SPEED:

2.56 m/s

COMPANY NAME:

Lost Creek ISR, LLC

MODELER:

TOTAL COUNT:

41935 hrs.

DATE:

12/11/2017

PROJECT NO.:

**Joint Frequency Distribution
Lost Creek ISR Project**

POR Composite		Wind Classes (m/s)						
2009-2010, 2012-2014								
Directions	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total	
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	