

**THIS WORKBOOK IS A LIVING DOCUMENT; DATA WILL CHANGE AS IT IS UPDATED.**

March 8, 2010:

- Removed the surface stations **FFM**, **TVF**, and **VVV** from the "Final Met Stations" list as the location of the automated observing stations could not be located via aerial images.
- Added the surface stations **FKA**, **GDB**, and **OVL** to the "Final Met Stations" list since the inclusion of 2009 meteorological data gave the stations 5 consecutive years of useable meteorological data.
  - This is reflected in the worksheet tab "Overall"
- Added a few worksheets to the workbook to check viability of data
- Re-formatted some of the worksheets for better viewing purposes.
- Added a "State" column
- Adjusted page breaks and page orientation, as well as added custom footers to printed pages that includes the PCA logo.

March 19, 2010 Revisions:

- Added yearly averaged moisture conditions for 2009.
- Added yearly averaged moisture conditions for GDB, FKA, and OVL for 2000 - 2009.

May 2011 Revisions:

- Added yearly averaged data for 2010
- Added moisture conditions to individual surface stations
- Updated some surface stations with data that was processed with AERMINUTE version 11059 (SFC\_1min)

Double-click on .PDF below to open entire document (8 pages).

**DRAFT DRAFT DRAFT**  
**For Discussion Purposes**  
**Regional Meteorological Data Processing Protocol**  
**EPA Region 5 and States**  
**May 6, 2011**

**Purpose:** The purpose of this protocol is to recommend a methodology that can be used by Region 5 States to process National Weather Service meteorological data for use in AERMOD regulatory modeling applications. This document highlights several aspects of meteorological data processing including: choice of surface met data, choice of upper air met data, approach for processing surface characteristics, and thoughts on representativeness.

This protocol is the result of numerous discussions held between EPA and the States. It is based on guidance available in the "Guideline on Air Quality Models", 40 CFR Part 51, Appendix W (Guideline). It also relies on the information in the AERMOD Implementation Guide, dated March 19, 2009 and User Guides for AERSURFACE, AERMET, and AERMINUTE. Other references are highlighted in the text of the document.

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  - B. Missing data
- III. Upper Air Data Selection
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  - B. Format
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- IV. Surface Characteristics
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    - 1. Methodology
      - a. Land Cover Data
      - b. Met Tower Location
      - c. Seasonal Definitions
      - d. Arid Region/Surface Moisture
      - e. Domain
- V. Representativeness

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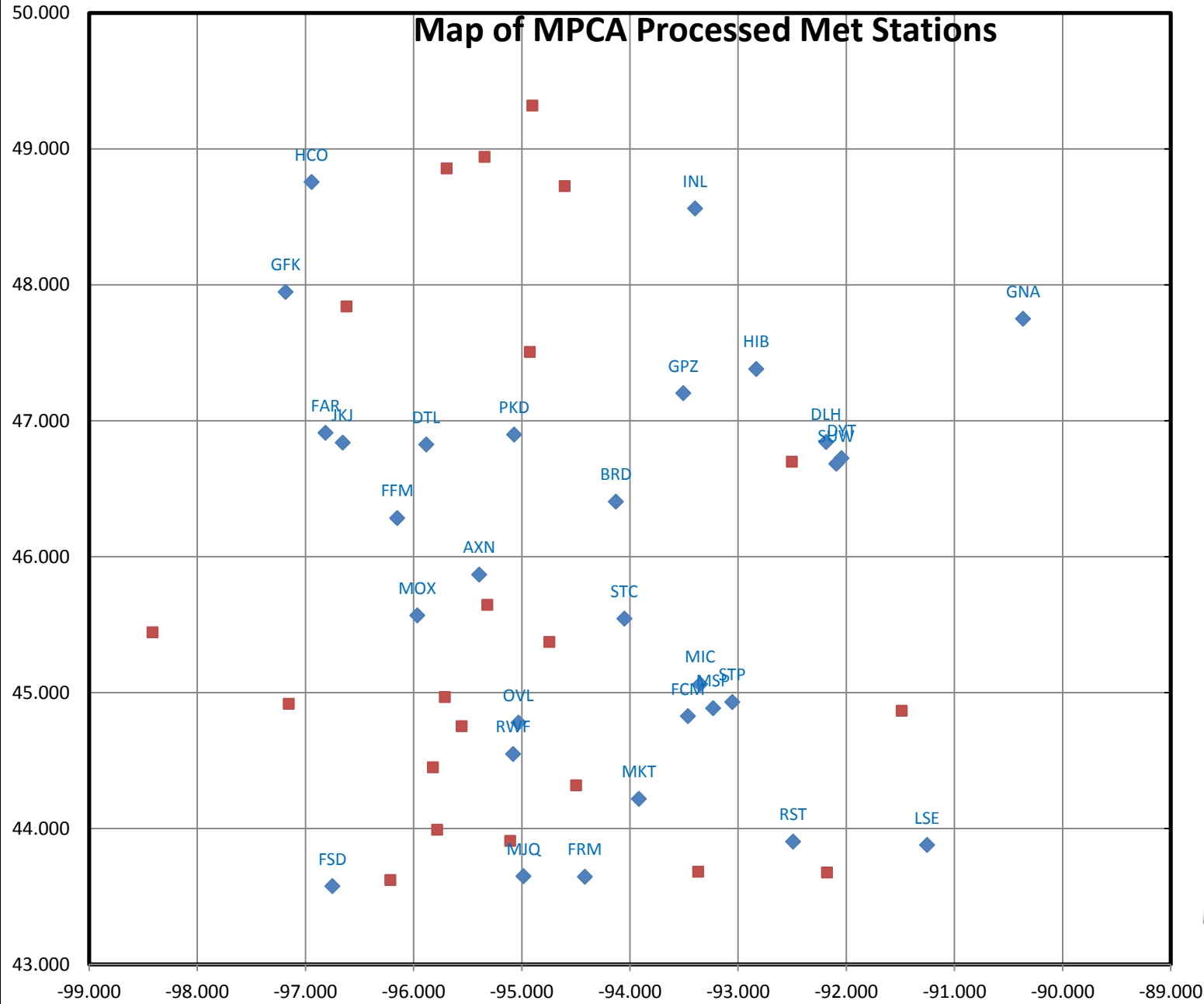
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	<u>Call Sign</u>	<u>Location</u>	<u>State</u>	<u>USAF</u>	<u>Final Station</u>	<u>Useability</u>	<u>Years</u>
1	ABR	Aberdeen	SD	726590	Yes	Need 2010	Useable
2	AEL	Albert Lea	MN	726589	No	Need 2010	Useable
3	ATY	Watertown	SD	726546	Yes	Need 2010	Useable
4	AXN	Alexandria	MN	726557	Yes	Yes	Useable
5	BJI	Bemidji	MN	727550	No	Need 2010	Useable
6	BRD	Brainerd	MN	726555	Yes	Yes	Useable
7	CKN	Crookston	MN	727452	No	Need 2010	Useable
8	DLH	Duluth	MN	727450	Yes	Yes	Useable
9	DTL	Detroit Lakes	MN	727457	No	Yes	Useable
10	DVP	Slayton	MN	720368	No	Need 2010	Not Useable
11	DYT	Duluth Sky Harbor	MN	727456	No	Yes	Useable
12	FAR	Fargo	ND	727530	Yes	Yes	Useable
13	FCM	Flying Cloud Arpt.	MN	726579	Yes	Yes	Useable
14	FFM	Fergus Falls	MN	726560	Yes	Yes	Useable
15	FGN	Flag Island	MN	727467	No	Need 2010	Useable
16	FKA	Preston	MN	720283	No	Need 2010	Useable
17	FRM	Fairmont	MN	726586	No	Yes	Useable
18	FSD	Sioux Falls	SD	726510	Yes	Yes	Useable
19	GDB	Granite Falls	MN	722033	No	Need 2010	Useable
20	GFK	Grand Forks	ND	727576	Yes	Yes	Useable
21	GHW	Glenwood	MN	726547	No	Need 2010	Useable
22	GNA	Grand Marais	MN	727469	Yes	No	Useable
23	GPZ	Grand Rapids	MN	727458	No	No	Useable
24	HCO	Hallock	MN	727478	No	Yes	Useable
25	HIB	Hibbing	MN	727455	Yes	Yes	Useable
26	INL	International Falls	MN	727470	Yes	Yes	Useable
27	JKJ	Moorhead	MN	722129	No	Yes	Useable
28	LSE	La Crosse	WI	726430	Yes	Yes	Useable
29	MIC	Minneapolis/Crystal	MN	726575	Yes	Yes	Useable
30	MJQ	Jackson	MN	726593	No	Yes	Useable
31	MKT	Mankato	MN	726585	No	No	Useable
32	MML	Marshall	MN	726559	No	Yes	Useable
33	MOX	Morris	MN	726565	No	Yes	Useable
34	MSP	Minneapolis/St. Paul Int'l Arpt	MN	726580	Yes	Yes	Useable
35	MVE	Montevideo	MN	726553	No	No	Useable
36	MWM	Windom	MN	727506	No	Need 2010	Useable
37	OVL	Olivia	MN	722168	No	Yes	Useable
38	PKD	Park Rapids	MN	727453	Yes	Yes	Useable
39	RRT	Warroad	MN	726548	No	Need 2010	Useable
40	RST	Rochester	MN	726440	Yes	Yes	Useable
41	RWF	Redwood Falls	MN	726556	Yes	Yes	Useable
42	STC	St. Cloud	MN	726550	Yes	Yes	Useable
43	STP	St. Paul Downtown Arpt	MN	726584	Yes	Yes	Useable

	<b>Call Sign</b>	<b>2004 - 2008?</b>	<b>Max M+C 04-08?</b>	<b>2005 - 2009?</b>	<b>Max M+C 05-09?</b>	<b>2006 - 2010?</b>	<b>Max M+C 06-10?</b>
1	ABR	Useable	11.31%	Useable	11.31%	Useable	11.31%
2	AEL	Useable	18.48%	Useable	23.21%	Caution	23.21%
3	ATY	Useable	13.41%	Useable	13.41%	Useable	13.41%
4	AXN	Useable	6.41%	Useable	6.41%	Useable	2.69%
5	BJI	Useable	15.58%	Useable	15.62%	Useable	15.62%
6	BRD	Not Useable	19.20%	Caution	19.20%	Useable	3.08%
7	CKN	Useable	11.34%	Useable	11.34%	Useable	11.34%
8	DLH	Useable	6.28%	Useable	6.28%	Useable	1.79%
9	DTL	Useable	13.86%	Useable	14.55%	Useable	16.21%
10	DVP	Not Useable	97.97%	Not Useable	97.97%	Not Useable	15.05%
11	DYT	Not Useable	16.70%	Not Useable	18.30%	Not Useable	18.30%
12	FAR	Useable	7.27%	Useable	7.27%	Useable	0.87%
13	FCM	Useable	10.32%	Useable	9.87%	Useable	2.54%
14	FFM	Useable	14.01%	Useable	14.50%	Useable	14.50%
15	FGN	Useable	21.90%	Useable	21.90%	Useable	21.90%
16	FKA	Not Useable	48.55%	Not Useable	10.55%	Not Useable	10.55%
17	FRM	Useable	13.42%	Useable	13.42%	Useable	13.42%
18	FSD	Useable	12.08%	Useable	12.08%	Useable	2.61%
19	GDB	Not Useable	63.73%	Not Useable	10.74%	Not Useable	10.74%
20	GFK	Useable	7.78%	Useable	7.78%	Useable	0.82%
21	GHW	Useable	10.74%	Useable	10.74%	Useable	8.43%
22	GNA	Not Useable	51.31%	Not Useable	51.31%	Not Useable	15.00%
23	GPZ	Useable	17.86%	Useable	17.86%	Caution	21.34%
24	HCO	Useable	16.84%	Useable	16.84%	Useable	16.84%
25	HIB	Not Useable	24.07%	Not Useable	8.99%	Caution	5.33%
26	INL	Useable	14.16%	Useable	14.16%	Useable	5.45%
27	JKJ	Not Useable	68.10%	Not Useable	17.86%	Not Useable	14.61%
28	LSE	Useable	14.58%	Useable	14.58%	Useable	2.65%
29	MIC	Useable	16.50%	Useable	16.45%	Useable	7.38%
30	MJQ	Useable	10.25%	Useable	10.25%	Useable	10.25%
31	MKT	Useable	17.81%	Not Useable	17.81%	Not Useable	17.81%
32	MML	Useable	12.22%	Useable	12.22%	Useable	12.22%
33	MOX	Useable	13.54%	Useable	13.54%	Useable	13.54%
34	MSP	Useable	9.61%	Useable	9.61%	Useable	2.08%
35	MVE	Useable	13.11%	Useable	26.96%	Useable	26.96%
36	MWM	Useable	18.44%	Useable	18.44%	Caution	18.44%
37	OVL	Not Useable	52.43%	Not Useable	13.40%	Not Useable	16.46%
38	PKD	Useable	14.93%	Useable	14.93%	Useable	5.56%
39	RRT	Useable	14.70%	Useable	14.70%	Useable	14.70%
40	RST	Useable	4.81%	Useable	4.30%	Useable	0.98%
41	RWF	Useable	8.78%	Useable	8.78%	Useable	1.52%
42	STC	Useable	14.97%	Useable	14.97%	Useable	3.83%
43	STP	Useable	16.68%	Useable	8.95%	Useable	8.95%

# Map of MPCA Processed Met Stations



- ◆ Processed
- Need processing



Minnesota Pollution Control Agency

Processed			Need processing			All		
ID	Lon. (W)	Lat. (N)	ID	Lon. (W)	Lat. (N)	ID	Lon. (W)	Lat. (N)
Data labels	X values	Y values	Data labels	X values	Y values	Data labels	X values	Y values
ABR			ABR	-98.414	45.444	ABR	-98.414	45.444
ADC			ADC			ADC	-95.210	46.452
AEL			AEL	-93.370	43.682	AEL	-93.370	43.682
AIT			AIT			AIT	-93.676	46.549
ANE			ANE			ANE	-93.213	45.143
ATY			ATY	-97.154	44.918	ATY	-97.154	44.918
AXN	-95.394	45.868	AXN			AXN	-95.394	45.868
BBB			BBB			BBB	-95.647	45.331
BDE			BDE	-94.604	48.726	BDE	-94.604	48.726
BDH			BDH			BDH	-95.085	45.112
BFW			BFW			BFW	-91.409	47.251
BJI			BJI	-94.926	47.506	BJI	-94.926	47.506
BRD	-94.130	46.405	BRD			BRD	-94.130	46.405
CBG			CBG			CBG	-93.262	45.558
CKC			CKC			CKC	-90.386	47.837
CKN			CKN	-96.620	47.840	CKN	-96.620	47.840
COQ			COQ	-92.503	46.699	COQ	-92.503	46.699
CQM			CQM			CQM	-92.692	47.821
DLH	-92.187	46.843	DLH			DLH	-92.187	46.843
DTL	-95.883	46.825	DTL			DTL	-95.883	46.825
DVP			DVP	-95.783	43.991	DVP	-95.783	43.991
DYT	-92.044	46.725	DYT			DYT	-92.044	46.725
EAU			EAU	-91.488	44.867	EAU	-91.488	44.867
ELO			ELO			ELO	-91.833	47.825
EVM			EVM			EVM	-92.497	47.427
FAR	-96.815	46.911	FAR			FAR	-96.815	46.911
FBL			FBL			FBL	-93.312	44.330
FCM	-93.464	44.827	FCM			FCM	-93.464	44.827
FFM	-96.152	46.284	FFM			FFM	-96.152	46.284
FGN			FGN	-94.902	49.318	FGN	-94.902	49.318
FKA			FKA	-92.179	43.677	FKA	-92.179	43.677
FOZ			FOZ			FOZ	-93.649	47.783
FRM	-94.417	43.645	FRM			FRM	-94.417	43.645
FSD	-96.751	43.576	FSD			FSD	-96.751	43.576
FSE			FSE			FSE	-95.771	47.594
GDB			GDB	-95.556	44.753	GDB	-95.556	44.753
GFK	-97.184	47.947	GFK			GFK	-97.184	47.947
GHW			GHW	-95.319	45.646	GHW	-95.319	45.646
GNA	-90.366	47.750	GNA			GNA	-90.366	47.750
GPZ	-93.507	47.203	GPZ			GPZ	-93.507	47.203
GYL			GYL			GYL	-94.087	44.761
HCD			HCD			HCD	-94.383	44.857
HCO	-96.943	48.756	HCO			HCO	-96.943	48.756
HIB	-92.832	47.380	HIB			HIB	-92.832	47.380
HZX			HZX			HZX	-93.311	46.617
ILL			ILL			ILL		
INL	-93.398	48.562	INL			INL	-93.398	48.562
JKJ	-96.656	46.839	JKJ			JKJ	-96.656	46.839

06/11/2010 40340

MapOfProcessed

03/07/2012

JMR			JMR	-93.268	45.885
LJF			LJF	-94.508	45.095
LSE	-91.253	43.879	LSE	-91.253	43.879
LVN			LVN	-93.227	44.625
LXL			LXL	-94.351	45.951
LYV			LYV	-96.215	43.622
MIC	-93.351	45.062	MIC	-93.351	45.062
MJQ	-94.985	43.649	MJQ	-94.985	43.649
MKT	-93.918	44.218	MKT	-93.918	44.218
MML			MML	-95.822	44.450
MOX	-95.966	45.568	MOX	-95.966	45.568
MSP	-93.231	44.885	MSP	-93.231	44.885
MVE			MVE	-95.712	44.967
MWM			MWM	-95.107	43.909
MZH			MZH	-92.805	46.416
ONA			ONA	-91.706	44.076
ORB			ORB	-92.858	48.018
OTG			OTG	-95.576	43.652
OVL	-95.030	44.779	OVL	-95.030	44.779
OWA			OWA	-93.257	44.119
PEX			PEX	-94.745	45.373
PKD	-95.071	46.898	PKD	-95.071	46.898
PQN			PQN	-96.300	43.983
PWC			PWC	-94.383	46.725
RGK			RGK	-92.501	44.591
ROS			ROS	-92.952	45.701
ROX			ROX	-95.695	48.856
RRT			RRT	-95.344	48.941
RST	-92.492	43.904	RST	-92.492	43.904
RWF	-95.080	44.548	RWF	-95.080	44.548
SAZ			SAZ	-94.801	46.382
SGS			SGS	-93.035	44.856
STC	-94.052	45.544	STC	-94.052	45.544
STP	-93.054	44.931	STP	-93.054	44.931
SUW	-92.093	46.683	SUW	-92.093	46.683
TVF			TVF	-96.183	48.066
ULM			ULM	-94.498	44.318
VVV			VVV	-96.412	45.305
XVG			XVG	-94.202	46.991
	30.000			21.000	



OverviewTable

03/07/2012

Call Sign	USAF	Location	State	Station Type	AERMINUTE	Final Station	Usability	Process Date	Years Used wFormula	Years Used wPrevious
ABR	726590	Aberdeen	SD	ASOS	Yes	Need 2010	Useable	06/11/2010	2005 - 2009	2000 - 2004
ADC	726561	Wadena	MN	AWOS IIIP/T	No	Need 2010	Caution	06/11/2010	2004 - 2008	2004 - 2008
AEL	726589	Albert Lea	MN	AWOS IIIP/T	No	Need 2010	Useable	06/11/2010	2003 - 2007	2004 - 2008
AIT	727504	Aitkin	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2003 - 2007	NA
ANE	726577	Minneapolis/Blaine	MN	AWOS IIIP	No	Need 2010	Caution	06/11/2010	2004 - 2008	2004 - 2008
ATY	726546	Watertown	SD	ASOS	Yes	Need 2010	Useable	06/11/2010	2005 - 2009	2000 - 2004
AXN	726557	Alexandria	MN	ASOS	Yes	Yes	Useable	05/18/2011	2006 - 2010	2004 - 2008
BBB	727507	Benson	MN	AWOS IIIP/T	No	No	Caution	06/11/2010	2003 - 2007	2003 - 2007
BDE	727476	Baudette	MN	ASOS	Yes	No	Not Useable	06/11/2010	NA	NA
BDH	720386	Willmar	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	NA	NA
BFW	727556	Silver Bay	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2004 - 2008	NA
BJI	727550	Bemidji	MN	AWOS III	No	Need 2010	Useable	06/11/2010	2004 - 2008	2003 - 2007
BRD	726555	Brainerd	MN	ASOS	Yes	Yes	Useable	06/30/2011	2006 - 2010	2004 - 2008
CBG	727503	Cambridge	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2002 - 2006	NA
CKC	727454	Grand Marais Arpt	MN	AWOS IIIP/T	No	Need 2010	Caution	06/11/2010	2004 - 2008	2004 - 2008
CKN	727452	Crookston	MN	AWOS IIIP/T	No	Need 2010	Useable	06/11/2010	2005 - 2009	2003 - 2007
COQ	726558	Cloquet	MN	AWOS IIIP/T	No	Need 2010	Caution	06/11/2010	2004 - 2008	2003 - 2007
CQM	726549	Cook	MN	AWOS IIIP	No	No	Not Useable	06/11/2010	2004 - 2008	NA
DLH	727450	Duluth	MN	ASOS	Yes	Yes	Useable	05/19/2011	2006 - 2010	2004 - 2008
DTL	727457	Detroit Lakes	MN	AWOS IIIP/T	No	Yes	Useable	05/18/2011	2006 - 2010	2004 - 2008
DVP	720368	Slayton	MN	AWOS IIIP/T	No	Need 2010	Not Useable	06/11/2010	NA	NA
DYT	727456	Duluth Sky Harbor	MN	AWOS IIIP/T	No	Yes	Useable	11/03/2011	2006 - 2010	NA
EAU	726435	Eau Claire	WI	ASOS	Yes	Yes	Useable	02/02/2012	2006 - 2010	2000 - 2004
ELO	727459	Ely	MN	AWOS IIIP	No	No	Not Useable	06/11/2010	2004 - 2008	NA
EVM	727474	Eveleth	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2004 - 2008	NA
FAR	727530	Fargo	ND	ASOS	Yes	Yes	Useable	06/23/2011	2006 - 2010	2000 - 2004
FBL	726563	Faribault	MN	AWOS IIIP/T	No	Need 2010	Not Useable	06/11/2010	NA	NA
FCM	726579	Flying Cloud Arpt.	MN	ASOS	Yes	Yes	Useable	05/26/2011	2006 - 2010	2002 - 2006
FFM	726560	Fergus Falls	MN	AWOS IIIP	Yes	Yes	Useable	05/25/2011	2006 - 2010	2003 - 2007
FGN	727467	Flag Island	MN	AWOS IIIP	No	Need 2010	Useable	06/11/2010	2005 - 2009	2003 - 2007
FKA	720283	Preston	MN	AWOS IIIP/T	No	Need 2010	Useable	06/11/2010	2005 - 2009	2005 - 2009
FOZ	727468	Bigfork	MN	AWOS IIIP	No	No	Not Useable	06/11/2010	2004 - 2008	NA
FRM	726586	Fairmont	MN	AWOS III	No	Yes	Useable	05/11/2011	2006 - 2010	2004 - 2008
FSD	726510	Sioux Falls	SD	ASOS	Yes	Yes	Useable	09/29/2011	2006 - 2010	2000 - 2004
FSE	727505	Fosston	MN	AWOS IIIP/T	No	Need 2010	Caution	06/11/2010	2004 - 2008	2004 - 2008
GDB	722033	Granite Falls	MN	AWOS IIIP/T	No	Need 2010	Useable	06/11/2010	2005 - 2009	2005 - 2009
GFK	727576	Grand Forks	ND	ASOS	Yes	Yes	Useable	09/29/2011	2006 - 2010	2000 - 2004
GHW	726547	Glenwood	MN	AWOS IIIP/T	No	Need 2010	Useable	06/11/2010	2005 - 2009	2000 - 2004
GNA	727469	Grand Marais	MN	ASOS	Yes	No	Useable	11/03/2011	2006 - 2010	NA
GPZ	727458	Grand Rapids	MN	AWOS III	No	No	Useable	09/07/2011	2003 - 2007	2003 - 2007
GYL	727517	Glencoe	MN	AWOS IIIP/T	No	Need 2010	Caution	06/11/2010	2004 - 2008	2004 - 2008
HCD	726569	Hutchinson	MN	AWOS IIIP/T	No	Need 2010	Caution	06/11/2010	2004 - 2008	2002 - 2006
HCO	727478	Hallock	MN	AWOS IIIP/T	No	Yes	Useable	11/08/2011	2006 - 2010	2003 - 2007

OverviewTable

03/07/2012

Call Sign	USAF	Location	State	Station Type	AERMINUTE	Final Station	Usability	Process Date	Years Used wFormula	Years Used wPrevious
HIB	727455	Hibbing	MN	ASOS	Yes	Yes	Useable	05/25/2011	2006 - 2010	2000 - 2004
HZX	720258	McGregor	MN	AWOS IIIP/T	No	Need 2010	Not Useable	06/11/2010	NA	NA
ILL	726576	Willmar	MN	0	No	No	Not Useable	06/11/2010	NA	NA
INL	727470	International Falls	MN	ASOS	Yes	Yes	Useable	05/17/2011	2006 - 2010	2002 - 2006
JKJ	722129	Moorhead	MN	AWOS IIIP/T	No	Yes	Useable	06/30/2011	2006 - 2010	NA
JMR	727475	Mora	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2004 - 2008	NA
LJF	726583	Litchfield	MN	AWOS IIIP/T	No	Need 2010	Caution	06/11/2010	2004 - 2008	2004 - 2008
LSE	726430	La Crosse	WI	ASOS	Yes	Yes	Useable	06/23/2011	2006 - 2010	2000 - 2004
LVN	726562	Airlake	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2002 - 2006	NA
LXL	726578	Little Falls	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2003 - 2007	NA
LYV	722006	Luverne	MN	AWOS IIIP/T	No	Need 2010	Not Useable	06/11/2010	NA	NA
MIC	726575	Minneapolis/Crystal	MN	ASOS	Yes	Yes	Useable	08/22/2011	2006 - 2010	2004 - 2008
MJQ	726593	Jackson	MN	AWOS IIIP/T	No	Yes	Useable	05/25/2011	2006 - 2010	2003 - 2007
MKT	726585	Mankato	MN	AWOS III	No	No	Useable	10/17/2011	2002 - 2006	2002 - 2006
MML	726559	Marshall	MN	AWOS III	No	Yes	Useable	02/01/2012	2006 - 2010	2004 - 2008
MOX	726565	Morris	MN	AWOS IIIP/T	No	Yes	Useable	05/31/2011	2006 - 2010	2003 - 2007
MSP	726580	Minneapolis/St. Paul Int'l Arpt	MN	ASOS	Yes	Yes	Useable	07/28/2011	2006 - 2010	2000 - 2004
MVE	726553	Montevideo	MN	AWOS IIIP/T	No	No	Useable	06/11/2010	2004 - 2008	2004 - 2008
MWM	727506	Windom	MN	AWOS IIIP	No	Need 2010	Useable	06/11/2010	2003 - 2007	2003 - 2007
MZH	727449	Moose Lake	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2004 - 2008	NA
ONA	726588	Winona	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2002 - 2006	NA
ORB	726544	Orr	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2004 - 2008	NA
OTG	726587	Worthington	MN	AWOS III	No	No	Not Useable	06/11/2010	NA	NA
OVL	722168	Olivia	MN	AWOS IIIP/T	No	Yes	Useable	06/17/2011	2006 - 2010	2004 - 2008
OWA	726568	Owatonna	MN	AWOS IIIP	No	Need 2010	Caution	06/11/2010	2004 - 2008	2004 - 2008
PEX	720367	Paynesville	MN	AWOS IIIP/T	No	Need 2010	Not Useable	06/11/2010	NA	NA
PKD	727453	Park Rapids	MN	ASOS	Yes	Yes	Useable	08/19/2011	2006 - 2010	2004 - 2008
PQN	726566	Pipestone	MN	AWOS IIIP	No	No	Not Useable	06/11/2010	NA	NA
PWC	727508	Pine River	MN	AWOS IIIP	No	No	Not Useable	06/11/2010	2002 - 2006	NA
RGK	726564	Red Wing	WI	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2003 - 2007	2004 - 2008
ROS	726679	Rush City	MN	AWOS IIIP/T	No	No	Caution	06/11/2010	2003 - 2007	2004 - 2008
ROX	727477	Roseau	MN	AWOS IIIP/T	No	Need 2010	Caution	06/11/2010	2004 - 2008	2004 - 2008
RRT	726548	Warroad	MN	AWOS IIIP/T	No	Need 2010	Useable	06/11/2010	2005 - 2009	2004 - 2008
RST	726440	Rochester	MN	ASOS	Yes	Yes	Useable	05/12/2011	2006 - 2010	2000 - 2004
RWF	726556	Redwood Falls	MN	ASOS	Yes	Yes	Useable	06/22/2011	2006 - 2010	2004 - 2008
SAZ	727514	Staples	MN	AWOS IIIP	No	Need 2010	Not Useable	06/11/2010	2003 - 2007	2004 - 2008
SGS	726603	South St. Paul	MN	AWOS IIIP/T	No	No	Not Useable	06/11/2010	2004 - 2008	NA
STC	726550	St. Cloud	MN	ASOS	Yes	Yes	Useable	06/22/2011	2006 - 2010	2000 - 2004
STP	726584	St. Paul Downtown Arpt	MN	ASOS	Yes	Yes	Useable	05/19/2011	2006 - 2010	2004 - 2008
SUW	726427	Superior	WI	AWOS IIIP	No	No	Not Useable	10/19/2011	2006 - 2010	NA
TVF	727555	Thief River Falls	MN	AWOS III	No	No	Useable	06/11/2010	2005 - 2009	2004 - 2008
ULM	726567	New Ulm Mun. Arpt	MN	AWOS IIIP	No	Need 2010	Caution	06/11/2010	2004 - 2008	2002 - 2006
VVV	727515	Ortonville	MN	AWOS IIIP	No	No	Useable	06/11/2010	2005 - 2009	2004 - 2008
XVG	727497	Longville	MN	AWOS IIIP	No	No	Not Useable	06/11/2010	2003 - 2007	NA

OverviewTable

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Call Sign	USAF	Location	State	Station Type	AERMINUTE	Final Station	Usability	Process Date	Years Used wFormula	Years Used wPrevious
							<u>2000 - 2004</u>		0	12
							<u>2001 - 2005</u>		0	0
							<u>2002 - 2006</u>		5	5
							<u>2003 - 2007</u>		10	11
							<u>2004 - 2008</u>		22	27
							<u>2005 - 2009</u>		10	2
							<u>2006 - 2010</u>		30	0
							NA		10	30
							Useable		45	52.9%
							Caution		13	15.3%
							Not Useable		29	34.1%
				Useable			<u>2000 - 2004</u>		0	0.0%
							<u>2001 - 2005</u>		0	0.0%
							<u>2002 - 2006</u>		1	2.2%
							<u>2003 - 2007</u>		3	6.7%
							<u>2004 - 2008</u>		2	4.4%
							<u>2005 - 2009</u>		10	22.2%
							<u>2006 - 2010</u>		29	64.4%
				Caution			<u>2000 - 2004</u>		0	0.0%
							<u>2001 - 2005</u>		0	0.0%
							<u>2002 - 2006</u>		0	0.0%
							<u>2003 - 2007</u>		2	15.4%
							<u>2004 - 2008</u>		11	84.6%
							<u>2005 - 2009</u>		0	0.0%
							<u>2006 - 2010</u>		0	0.0%

OverviewTable

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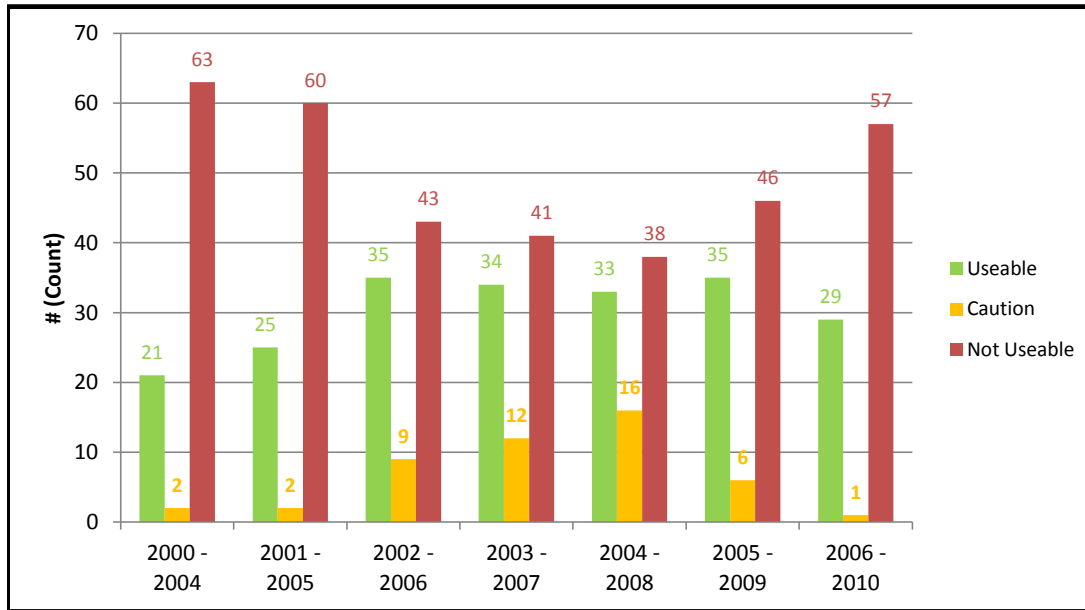
Call Sign	Years Equal	2000 - 2004	2001 - 2005	2002 - 2006	2003 - 2007	2004 - 2008	2005 - 2009	2006 - 2010
ABR	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Not Useable
ADC	TRUE	Not Useable	Not Useable	Not Useable	Caution	Caution	Not Useable	Not Useable
AEL	FALSE	Not Useable	Not Useable	Useable	Useable	Caution	Caution	Not Useable
AIT	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
ANE	TRUE	Not Useable	Not Useable	Caution	Caution	Caution	Not Useable	Not Useable
ATY	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Not Useable
AXN	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
BBB	TRUE	Not Useable	Not Useable	Caution	Caution	Not Useable	Not Useable	Not Useable
BDE	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
BDH	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
BFW	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
BJI	FALSE	Useable	Useable	Useable	Useable	Useable	Caution	Not Useable
BRD	FALSE	Not Useable	Not Useable	Not Useable	Caution	Useable	Useable	Useable
CBG	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
CKC	TRUE	Not Useable	Not Useable	Caution	Caution	Caution	Not Useable	Not Useable
CKN	FALSE	Not Useable	Useable	Useable	Useable	Useable	Useable	Not Useable
COQ	FALSE	Not Useable	Not Useable	Caution	Caution	Caution	Not Useable	Not Useable
CQM	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
DLH	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
DTL	FALSE	Not Useable	Not Useable	Useable	Useable	Useable	Useable	Useable
DVP	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
DYT	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Useable
EAU	FALSE	Caution	Caution	Caution	Caution	Caution	Caution	Useable
ELO	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
EVM	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
FAR	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
FBL	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
FCM	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
FFM	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
FGN	FALSE	Not Useable	Not Useable	Useable	Useable	Useable	Useable	Not Useable
FKA	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Useable	Not Useable
FOZ	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
FRM	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
FSD	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
FSE	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Caution	Not Useable	Not Useable
GDB	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Useable	Not Useable
GFK	FALSE	0	Useable	Useable	Useable	Useable	Useable	Useable
GHW	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Not Useable
GNA	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Useable
GPZ	TRUE	Not Useable	Not Useable	Useable	Useable	Caution	Caution	Caution
GYL	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Caution	Not Useable	Not Useable
HCD	FALSE	Not Useable	Not Useable	Caution	Caution	Caution	Not Useable	Not Useable
HCO	FALSE	Not Useable	Not Useable	Useable	Useable	Useable	Useable	Useable

OverviewTable

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Call Sign	Years Equal	2000 - 2004	2001 - 2005	2002 - 2006	2003 - 2007	2004 - 2008	2005 - 2009	2006 - 2010
HIB	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Caution	Useable	Useable
HZX	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
ILL	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
INL	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
JKJ	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Caution	Useable
JMR	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
LJF	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Caution	Not Useable	Not Useable
LSE	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
LVN	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
LXL	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
LYV	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
MIC	FALSE	Not Useable	Not Useable	Useable	Useable	Useable	Useable	Useable
MJQ	FALSE	Not Useable	Not Useable	Useable	Useable	Useable	Useable	Useable
MKT	TRUE	Caution	Useable	Useable	Not Useable	Not Useable	Not Useable	Not Useable
MML	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
MOX	FALSE	Not Useable	Not Useable	Useable	Useable	Useable	Useable	Useable
MSP	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
MVE	TRUE	Not Useable	Useable	Useable	Useable	Useable	Not Useable	Not Useable
MWM	TRUE	Not Useable	Not Useable	Useable	Useable	Caution	Caution	Not Useable
MZH	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
ONA	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
ORB	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
OTG	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
OVL	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Useable	Useable
OWA	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Caution	Not Useable	Not Useable
PEX	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
PKD	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
PQN	TRUE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
PWC	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
RGK	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
ROS	FALSE	Not Useable	Not Useable	Not Useable	Caution	Caution	Not Useable	Not Useable
ROX	TRUE	Not Useable	Not Useable	Caution	Caution	Caution	Not Useable	Not Useable
RRT	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Not Useable
RST	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
RWF	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
SAZ	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
SGS	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
STC	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Useable
STP	FALSE	Not Useable	Not Useable	Useable	Useable	Useable	Useable	Useable
SUW	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable
TVF	FALSE	Useable	Useable	Useable	Useable	Useable	Useable	Not Useable
ULM	FALSE	Not Useable	Not Useable	Caution	Caution	Caution	Not Useable	Not Useable
VVV	FALSE	Not Useable	Caution	Caution	Caution	Useable	Useable	Not Useable
XVG	FALSE	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable	Not Useable

Call Sign	Years Equal	2000 - 2004	2001 - 2005	2002 - 2006	2003 - 2007	2004 - 2008	2005 - 2009	2006 - 2010
Useable		21	25	35	34	33	35	29
Caution		2	2	9	12	16	6	1
Not Useable		63	60	43	41	38	46	57
Useable		24.7%	29.4%	41.2%	40.0%	38.8%	41.2%	34.1%
Caution		2.4%	2.4%	10.6%	14.1%	18.8%	7.1%	1.2%
Not Useable		74.1%	70.6%	50.6%	48.2%	44.7%	54.1%	67.1%



Overview Stats

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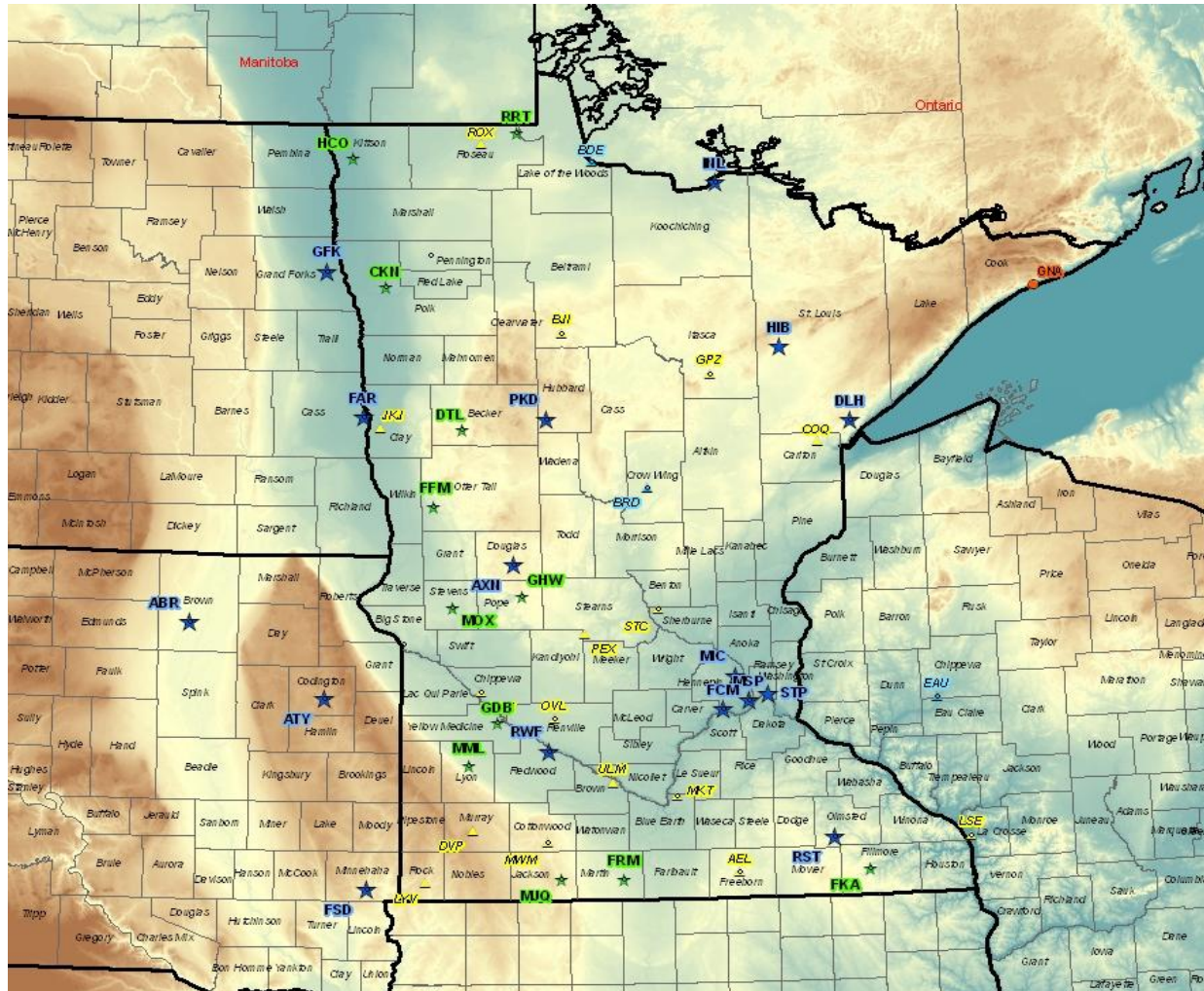
<u>Count</u>		
Total	87	
Useable	46	52.87%
Caution	14	16.09%
Not Useable	30	34.48%

<u>Count</u>		
Total	87	
ASOS	22	25.29%
AWOS IIIIP/T	42	48.28%
AWOS IIIIP	15	17.24%
AWOS III	7	8.05%
Blank	0	0.00%

<u>Count</u>		
Total	87	
Final Station - <b>Yes</b>	28	32.18%
Final Station - <b>No</b>	31	35.63%

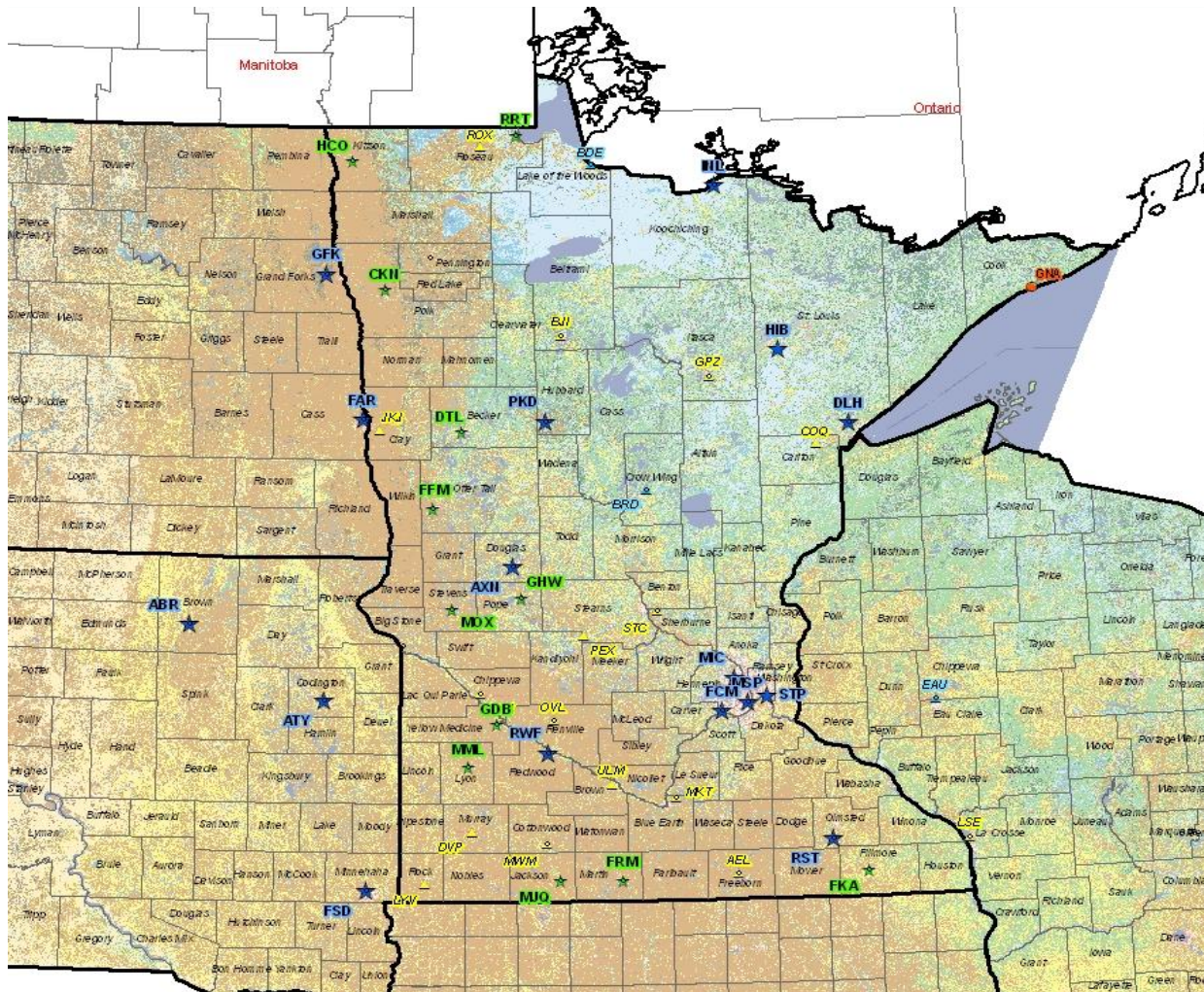
	<u>Count</u>					
	Total	87	Final Station - <b>Yes</b>	Final Station - <b>No</b>		
			Final Station - <b>Yes</b>	Final Station - <b>No</b>		
Useable	28	6	32.2%	6.9%	60.9%	13.0%
Caution	0	2	0.0%	2.3%	0.0%	14.3%
Not Useable	0	23	0.0%	26.4%	0.0%	76.7%
ASOS	18	2	20.7%	2.3%	81.8%	9.1%
AWOS IIIIP/T	7	16	8.0%	18.4%	16.7%	38.1%
AWOS IIIIP	1	8	1.1%	9.2%	6.7%	53.3%
AWOS III	2	4	2.3%	4.6%	28.6%	57.1%
Blank	0	0	0.0%	0.0%	#DIV/0!	#DIV/0!

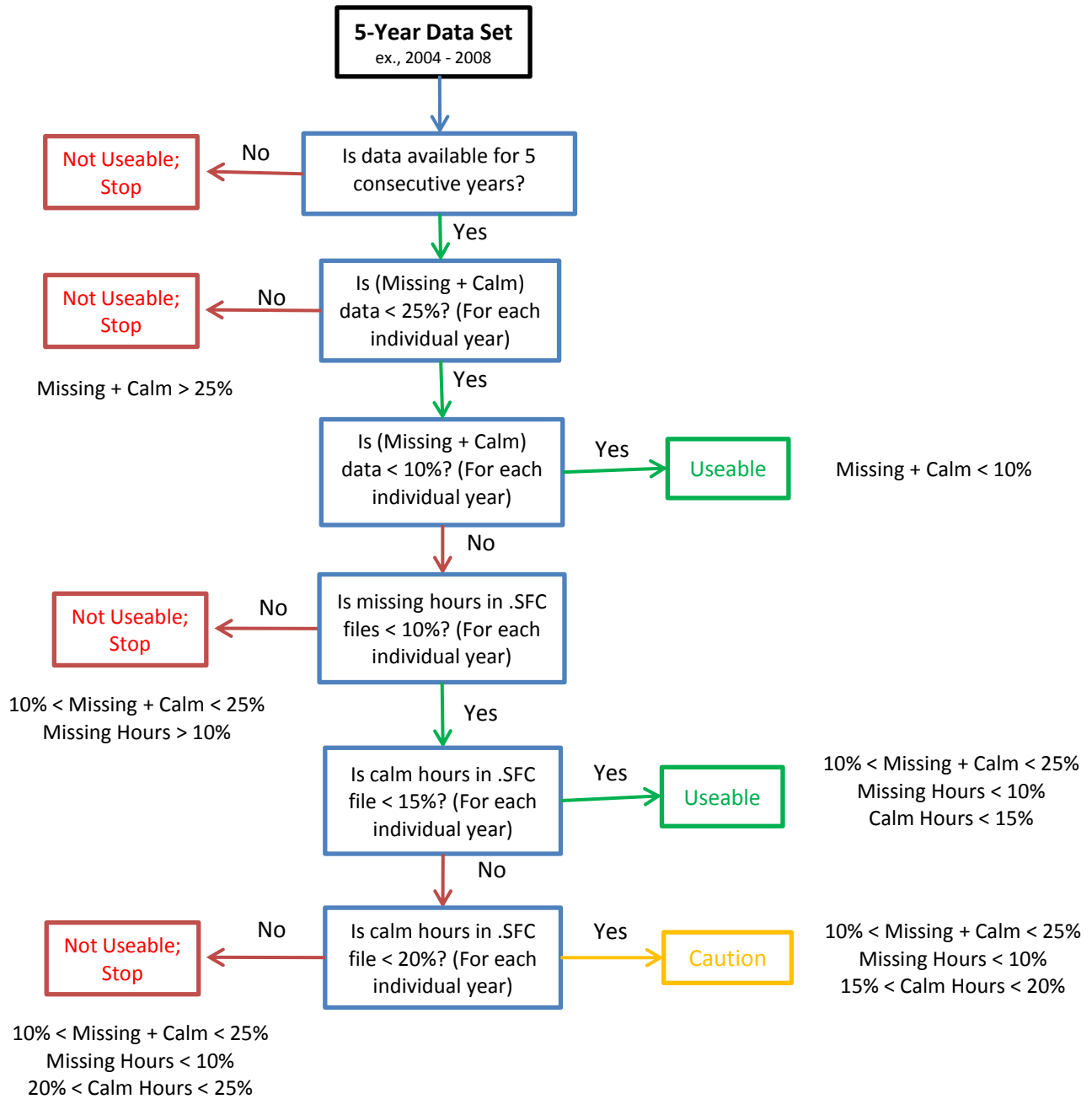
	<u>Count</u>		58			
	Total	87	Useable & Final <b>Yes</b>	Useable & Final <b>No</b>	Caution & Final <b>Yes</b>	Caution & Final <b>No</b>
			Useable & Final <b>Yes</b>	Useable & Final <b>No</b>	Caution & Final <b>Yes</b>	Caution & Final <b>No</b>
			Not Useable & Final <b>Yes</b>	Not Useable & Final <b>No</b>		
ASOS	18	1	0	0	0	1
AWOS IIIIP/T	7	1	0	2	0	13
AWOS IIIIP	1	1	0	0	0	7
AWOS III	2	3	0	0	0	1
Blank	0	0	0	0	0	0
ASOS	20.69%	1.15%	0.00%	0.00%	0.00%	1.15%
AWOS IIIIP/T	8.05%	1.15%	0.00%	2.30%	0.00%	14.94%
AWOS IIIIP	1.15%	1.15%	0.00%	0.00%	0.00%	8.05%
AWOS III	2.30%	3.45%	0.00%	0.00%	0.00%	1.15%
Blank	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
			Useable & Final <b>Yes</b>	Useable & Final <b>No</b>	Caution & Final <b>Yes</b>	Caution & Final <b>No</b>
			Not Useable & Final <b>Yes</b>	Not Useable & Final <b>No</b>		



Dark blue and green = Stations that have been processed and are useable  
Red = Stations that have been processed and can't be used  
Yellow and light blue = Stations that need more processing or data before determination







**Total Precipitation** maps depict annual precipitation totals in inches.

**Departure from Normal** maps depict the difference between annual precipitation totals and the historical "normal", a 1971-2000 average. The units are in inches. (1961-1990 normal period used before 2002).

**Historical Ranking** maps depict annual precipitation totals as they rank when compared to annual totals over the modern record. The values presented are percentiles. A ranking near zero indicates the year was drier than any found during the period of record. A ranking near 100 designates that the year was wetter than any found on record whereas a ranking near 0 designates that the year was drier than any found on record. A ranking of 50 is equivalent to the "median", a measure of central tendency.

1971 - 2000 Average

1961 - 1990 Average (Used after 2002)

Data above and on other spreadsheet tabs was gathered from the Minnesota Climatology Working Group's website:

[http://www.climate.umn.edu/doc/annual\\_pre\\_maps.htm](http://www.climate.umn.edu/doc/annual_pre_maps.htm)

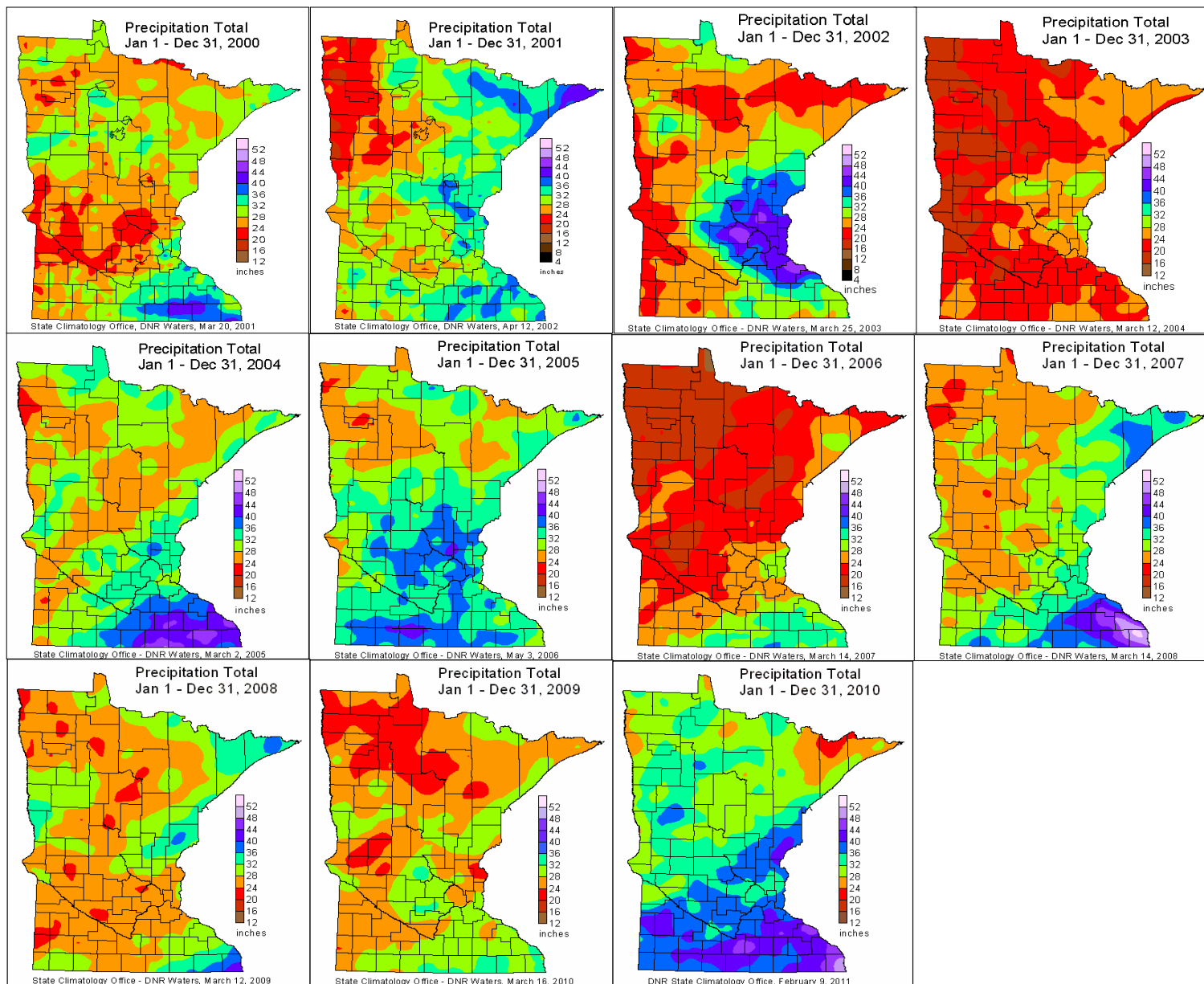
[http://www.climate.umn.edu/doc/annual\\_pre\\_maps.htm](http://www.climate.umn.edu/doc/annual_pre_maps.htm)

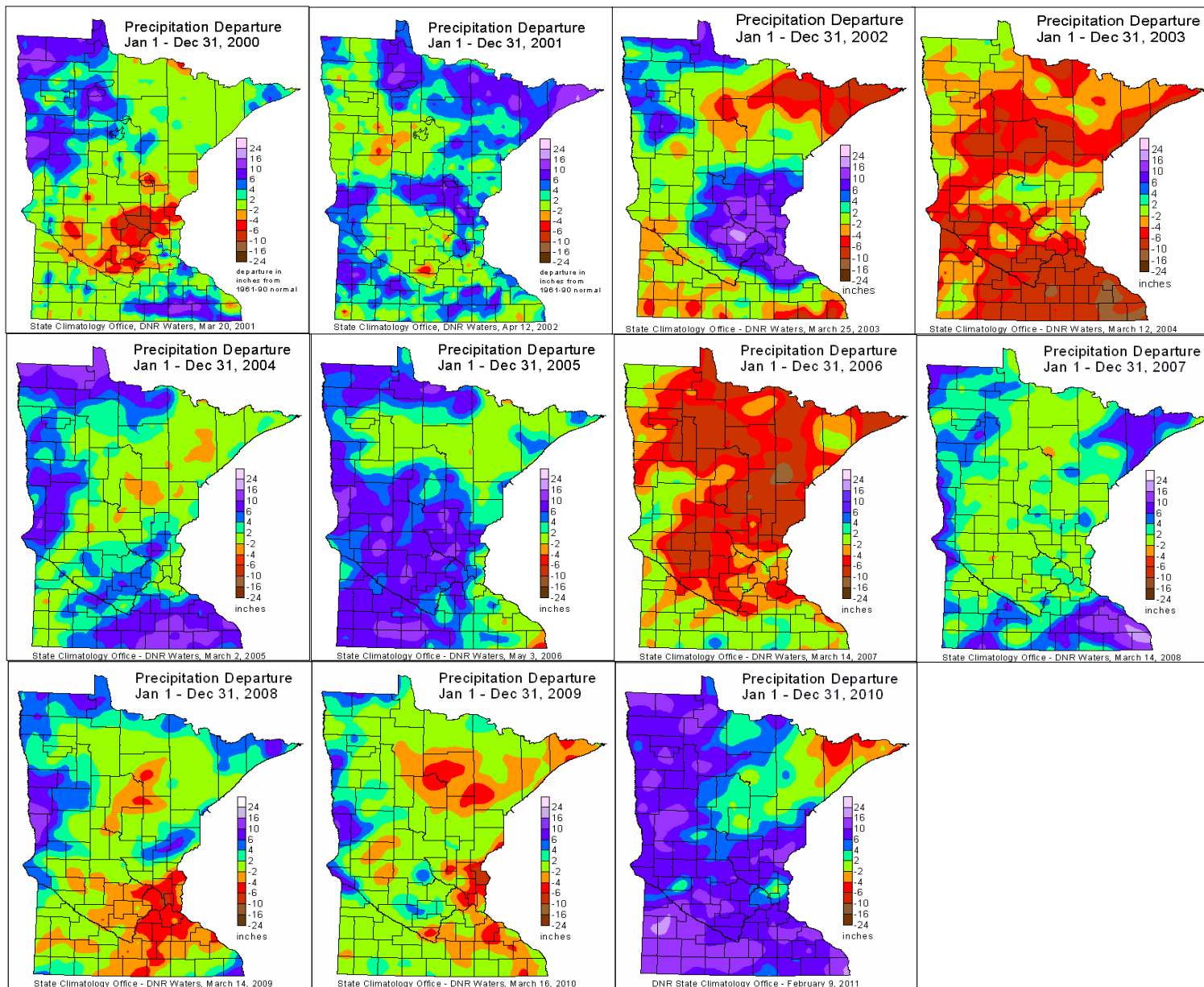
To see normal (30-year arithmetic mean) precipitation maps, go to the link below:

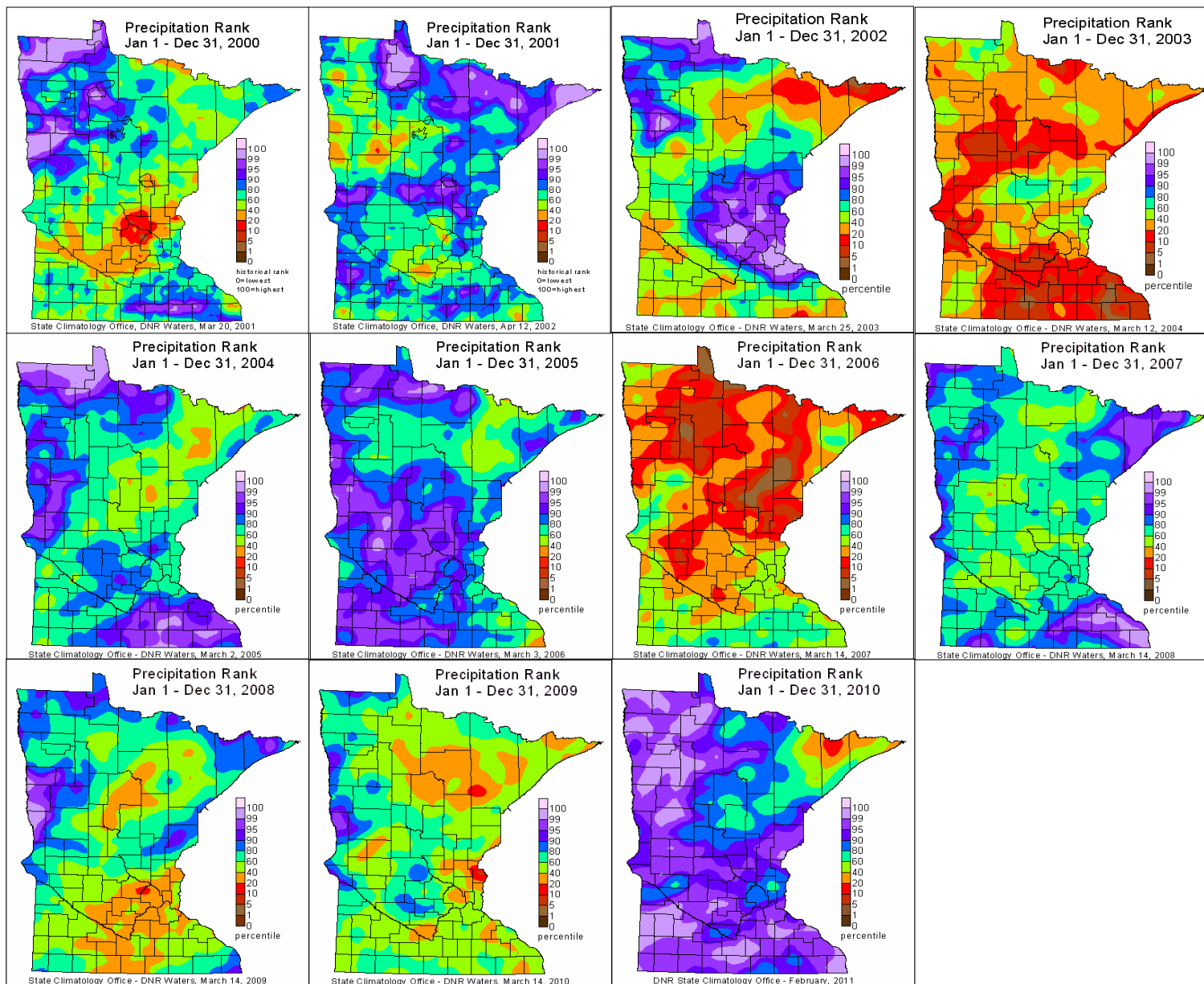
[http://www.climate.umn.edu/doc/historical/precip\\_norm.htm](http://www.climate.umn.edu/doc/historical/precip_norm.htm)

To view other summaries, publications and graphics/data from the Minnesota Climatology Working Group, go to the following link:

[http://www.climate.umn.edu/doc/online\\_resources.htm](http://www.climate.umn.edu/doc/online_resources.htm)







Moisture Conditions

03/07/2012

#	Location	ID	State	Consecutive 5 Years	Moisture Conditions by Year for Each Surface Site ("Wet", "Average", or "Dry")											
					2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
1	Aberdeen	ABR	SD	2005 - 2009	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
2	Alexandria	AXN	MN	2006 - 2010	Average	Average	Average	Average	Average	Average	Wet	Dry	Average	Wet	Average	Wet
3	Bemidji	BJI	MN	2004 - 2008	Average	Average	Average	Dry	Average	Average	Average	Dry	Average	Average	Average	Wet
4	Crookston	CKN	MN	2005 - 2009	Average	Average	Wet	Average	Wet	Wet	Wet	Dry	Average	Average	Wet	Wet
5	Detroit Lakes	DTL	MN	2006 - 2010	Wet	Average	Average	Dry	Wet	Wet	Wet	Average	Average	Wet	Average	Wet
6	Duluth Int'l Aprt	DLH	MN	2006 - 2010	Average	Wet	Average	Dry	Average	Wet	Wet	Average	Wet	Wet	Average	Wet
7	Fairmont	FRM	MN	2006 - 2010	Average	Average	Average	Dry	Wet	Wet	Wet	Average	Average	Average	Average	Wet
8	Fargo Int'l Arprt	FAR	ND	2006 - 2010	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
9	Flag Island	FGN	MN	2005 - 2009	Wet	Wet	Wet	Average	Wet	Average	Average	Dry	Average	Wet	Average	Wet
10	Flying Cloud Arprt	FCM	MN	2006 - 2010	Average	Wet	Wet	Average	Average	Average	Average	Average	Average	Average	Average	Wet
11	Glenwood	GHW	MN	2005 - 2009	Average	Average	Average	Average	Average	Average	Wet	Dry	Average	Average	Average	Wet
12	Grand Forks Int'l Arprt	GFK	ND	2006 - 2010	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
13	Grand Rapids	GPZ	MN	2003 - 2007	Wet	Average	Average	Dry	Average	Average	Average	Average	Average	Average	Average	Wet
14	Granite Falls	GDB	MN	2005 - 2009	Average	Average	Average	Average	Average	Wet	Wet	Average	Average	Average	Average	Wet
15	Hallock	HCO	MN	2006 - 2010	Wet	Wet	Average	Average	Wet	Wet	Wet	Average	Wet	Wet	Average	Wet
16	International Falls	INL	MN	2006 - 2010	Average	Wet	Average	Dry	Wet	Wet	Wet	Dry	Wet	Average	Average	Wet
17	Jackson	MJQ	MN	2006 - 2010	Average	Average	Average	Dry	Wet	Wet	Wet	Average	Wet	Average	Average	Wet
18	La Crosse	LSE	WI	2006 - 2010	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
19	Mankato	MKT	MN	2002 - 2006	Average	Average	Average	Dry	Wet	Wet	Wet	Dry	Average	Average	Average	Wet
20	Marshall	MML	MN	2006 - 2010	Average	Wet	Average	Average	Average	Average	Wet	Average	Average	Average	Average	Wet
21	Minneapolis/St. Paul Int'l Arprt	MSP	MN	2006 - 2010	Average	Wet	Wet	Average	Average	Average	Wet	Average	Wet	Average	Average	Wet
22	Montevideo	MVE	MN	2004 - 2008	Average	Average	Average	Average	Average	Average	Wet	Average	Average	Average	Average	Wet
23	Morris	MOX	MN	2006 - 2010	Average	Wet	Average	Average	Average	Wet	Wet	Dry	Average	Average	Average	Wet
24	Olivia	OVL	MN	2006 - 2010	Average	Average	Average	Dry	Average	Wet	Wet	Average	Average	Average	Average	Wet
25	Park Rapids	PKD	MN	2006 - 2010	Average	Average	Average	Dry	Average	Wet	Wet	Dry	Average	Average	Average	Wet
26	Preston	FKA	MN	2005 - 2009	Average	Average	Average	Average	Wet	Wet	Wet	Average	Wet	Average	Average	Wet
27	Redwood Falls	RWF	MN	2006 - 2010	Average	Average	Average	Dry	Wet	Wet	Wet	Average	Average	Average	Average	Wet
28	Rochester	RST	MN	2006 - 2010	Wet	Wet	Average	Dry	Wet	Wet	Average	Average	Wet	Average	Average	Wet
29	Sioux Falls	FSD	SD	2006 - 2010	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
30	St. Cloud	STC	MN	2006 - 2010	Dry	Average	Wet	Average	Average	Average	Wet	Average	Average	Average	Average	Wet
31	Warroad	RRT	MN	2005 - 2009	Wet	Wet	Wet	Average	Average	Wet	Wet	Dry	Wet	Wet	Wet	Wet
32	Watertown	ATY	SD	2005 - 2009	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
33	Windom	MWM	MN	2003 - 2007	Average	Wet	Average	Dry	Average	Wet	Wet	Average	Wet	Average	Average	Wet

Due to lack of detailed precipitation data for states other than Minnesota, moisture conditions will be left as "Average" for surface stations in: North Dakota (Fargo and Grand Forks), South Dakota (Aberdeen, Sioux Falls, and Watertown) and Wisconsin (Eau Claire, La Crosse, and Superior).

Overall Stats

03/07/2012

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
SFC Data Avail	Average	91.72%	83.68%	94.34%	96.46%	95.06%	95.78%	98.08%	97.67%	97.82%	98.94%	99.08%	94.96%	0.045
Missing Data (.SFC)	Average	8.28%	16.32%	5.66%	3.54%	4.94%	4.22%	1.92%	2.33%	2.18%	1.06%	0.92%	5.04%	0.045
Calm Hours	Average	15.47%	6.48%	13.47%	15.21%	14.26%	15.64%	13.36%	12.00%	13.95%	7.15%	5.78%	12.70%	0.033
Missing+Calm Hours	Average	23.75%	22.80%	19.13%	18.75%	19.20%	19.86%	15.27%	14.33%	16.13%	8.21%	6.71%	17.74%	0.045
Ave. Wind Speed	Average	7.25	7.86	7.44	7.25	7.43	7.09	7.21	7.55	7.27	7.90	7.78	7.42	0.272
1st Wind Direc.	Average	230	232	235	242	242	207	230	232	234	251	232	233	11.542
2nd Wind Direc.	Average	233	243	247	249	221	192	244	228	233	246	245	234	17.148

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
SFC Data Avail	St. Dev.	8.67%	16.45%	5.94%	3.34%	10.53%	13.55%	2.10%	2.61%	1.79%	1.20%	1.00%	6.62%	0.054
Missing Data	St. Dev.	8.67%	16.45%	5.94%	3.34%	10.53%	13.55%	2.10%	2.61%	1.79%	1.20%	1.00%	6.62%	0.054
Calm Hours	St. Dev.	9.31%	4.30%	8.10%	8.87%	8.16%	9.04%	9.04%	9.18%	10.55%	6.28%	6.33%	8.28%	0.018
Missing+Calm Hours	St. Dev.	14.06%	16.42%	11.53%	9.81%	13.41%	16.34%	9.36%	9.53%	11.11%	7.10%	7.06%	11.87%	0.031
Ave. Wind Speed	St. Dev.	1.73	1.41	1.72	1.71	1.70	1.72	1.66	1.66	1.73	1.03	1.11	1.61	0.225
1st Wind Direc.	St. Dev.	87	84	75	85	88	80	99	83	87	90	94	86	6.414
2nd Wind Direc.	St. Dev.	84	76	70	76	83	83	82	82	87	88	85	81	5.490

	Count	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average
1st Wind Direction	N (0°/360°)	1	1	0	1	2	0	3	2	2	1	0	1.3
	NNE (30°)	0	0	0	0	0	0	0	0	0	0	0	0
	NE (45°)	0	1	0	0	0	0	1	0	1	1	2	0.4
	ENE (60°)	2	2	2	3	2	3	4	2	1	1	1	2.2
	E (90°)	1	0	0	0	0	2	2	0	0	0	0	0.5
	ESE (120°)	0	0	0	0	0	0	0	0	0	0	0	0
	SE (135°)	5	2	4	0	1	11	3	1	3	1	4	3.1
	SSE (150°)	12	12	11	16	13	20	17	14	19	7	2	14.1
	S (180°)	11	14	14	10	18	14	8	20	11	4	5	12.4
	SSW (210°)	4	4	3	2	0	2	0	3	0	0	0	1.8
	SW (225°)	1	3	3	0	0	2	0	3	2	1	1	1.5
	WSW (240°)	0	0	1	0	0	0	0	0	1	1	0	0.3
	W (270°)	1	0	6	2	0	3	1	1	2	1	1	1.7
	WNW (300°)	6	12	13	11	6	7	12	13	16	4	2	10
	NW (315°)	19	20	14	27	30	16	28	22	24	20	12	22
	NNW (330°)	7	3	4	3	8	3	6	4	3	4	2	4.5
Blank	17	13	12	12	7	4	2	2	2	41	55	11.2	
TOTAL		87	87	87	87	87	87	87	87	87	87	87	

	Count	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average
2nd Wind Direction	N (0°/360°)	1	0	1	0	1	3	0	1	1	1	0	0.9
	NNE (30°)	1	1	0	0	0	0	0	0	0	0	0	0.2
	NE (45°)	0	0	0	0	1	1	1	1	0	1	0	0.5
	ENE (60°)	0	0	0	0	0	0	1	1	3	0	1	0.5
	E (90°)	0	0	0	0	2	2	1	0	0	0	0	0.5
	ESE (120°)	2	0	0	0	0	3	0	0	0	0	1	0.5
	SE (135°)	9	8	1	4	9	14	6	6	7	2	4	6.6
	SSE (150°)	7	7	11	16	14	15	15	15	17	6	2	12.3
	S (180°)	7	10	9	8	11	17	10	15	10	8	4	10.5
	SSW (210°)	5	6	6	1	7	4	0	6	0	0	0	3.5
	SW (225°)	2	1	2	2	2	1	1	1	2	2	1	1.6
	WSW (240°)	1	1	2	0	1	1	1	1	1	0	2	0.9
	W (270°)	4	5	11	2	2	1	6	3	4	2	0	4
	WNW (300°)	6	11	14	18	8	5	12	10	10	7	4	10.1
	NW (315°)	22	17	14	14	14	12	18	18	21	4	6	15.4
	NNW (330°)	3	7	4	10	8	4	13	7	9	13	7	7.8
Blank	17	13	12	12	7	4	2	2	2	41	55	11.2	
TOTAL		87	87	87	87	87	87	87	87	87	87	87	



Overall Stats

03/07/2012

	Average	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
SFC Data Avail	ALL	91.72%	83.68%	94.34%	96.46%	95.06%	95.78%	98.08%	97.67%	97.82%	98.94%	99.08%	94.96%	0.045
	ASOS	95.57%	92.00%	94.68%	95.68%	96.14%	96.59%	98.50%	98.69%	99.12%	99.59%	99.71%	96.66%	0.024
	AWOS III/P/T	90.21%	77.90%	93.87%	96.86%	92.95%	94.13%	98.34%	98.20%	97.53%	98.36%	98.24%	93.83%	0.062
	AWOS III/P	85.43%	79.65%	94.48%	97.17%	98.31%	98.35%	97.90%	97.03%	96.76%	97.77%	98.48%	94.29%	0.064
	AWOS III	97.33%	91.23%	95.14%	95.69%	96.33%	97.47%	95.66%	92.70%	97.72%	98.98%	97.82%	95.82%	0.024

	Average	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
Missing Data (.SFC)	ALL	8.28%	16.32%	5.66%	3.54%	4.94%	4.22%	1.92%	2.33%	2.18%	1.06%	0.92%	5.04%	0.045
	ASOS	4.43%	8.00%	5.32%	4.32%	3.86%	3.41%	1.50%	1.31%	0.88%	0.41%	0.29%	3.34%	0.024
	AWOS III/P/T	9.79%	22.10%	6.13%	3.14%	7.05%	5.87%	1.66%	1.80%	2.47%	1.64%	1.76%	6.17%	0.062
	AWOS III/P	14.57%	20.35%	5.52%	2.83%	1.69%	1.65%	2.10%	2.97%	3.24%	2.23%	1.53%	5.71%	0.064
	AWOS III	2.67%	8.77%	4.86%	4.31%	3.67%	2.53%	4.34%	7.30%	2.28%	1.02%	2.18%	4.18%	0.024

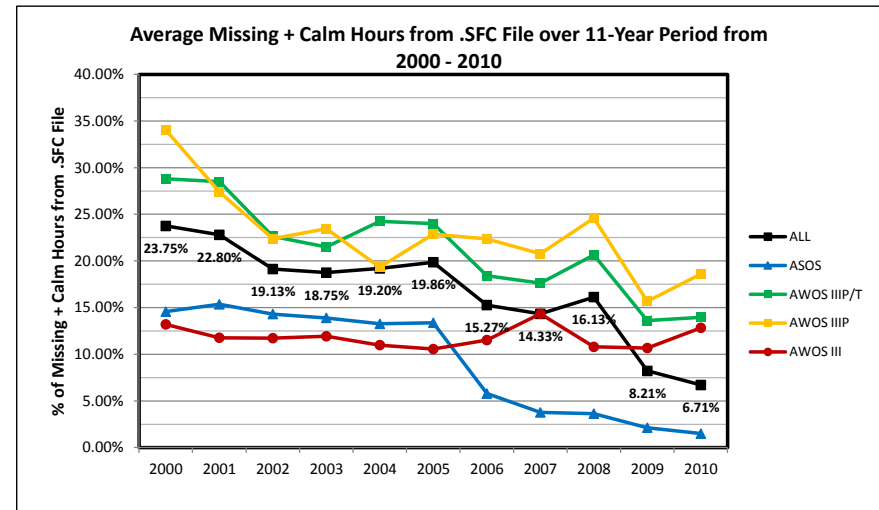
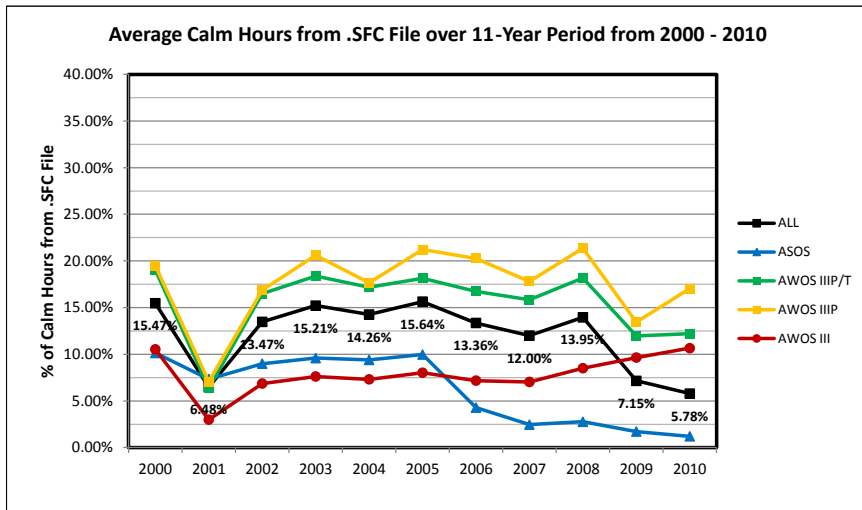
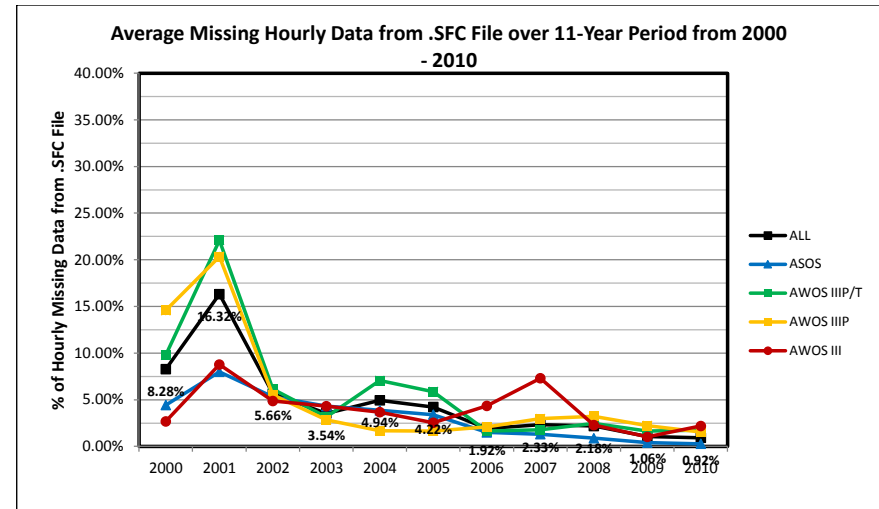
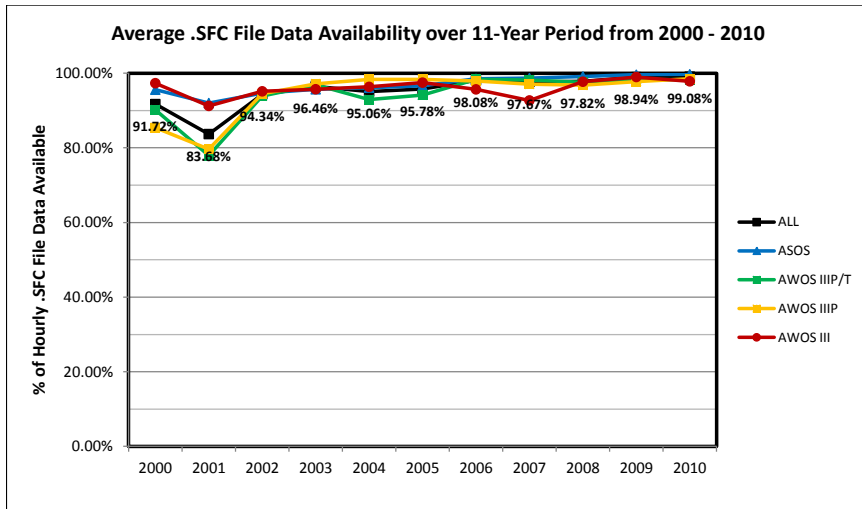
	Average	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
Calm Hours	ALL	15.47%	6.48%	13.47%	15.21%	14.26%	15.64%	13.36%	12.00%	13.95%	7.15%	5.78%	12.70%	0.033
	ASOS	10.13%	7.35%	8.99%	9.59%	9.39%	9.97%	4.28%	2.46%	2.76%	1.72%	1.20%	6.66%	0.035
	AWOS III/P/T	19.03%	6.38%	16.51%	18.37%	17.18%	18.14%	16.75%	15.84%	18.17%	11.98%	12.21%	15.83%	0.039
	AWOS III/P	19.49%	7.07%	16.88%	20.63%	17.66%	21.22%	20.27%	17.81%	21.37%	13.45%	17.05%	17.58%	0.044
	AWOS III	10.53%	3.00%	6.86%	7.62%	7.31%	8.02%	7.18%	7.03%	8.51%	9.65%	10.65%	7.57%	0.020

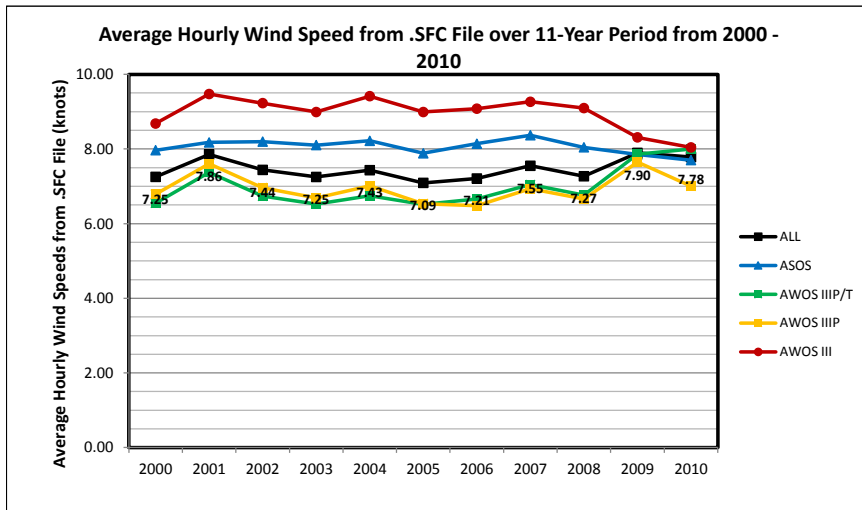
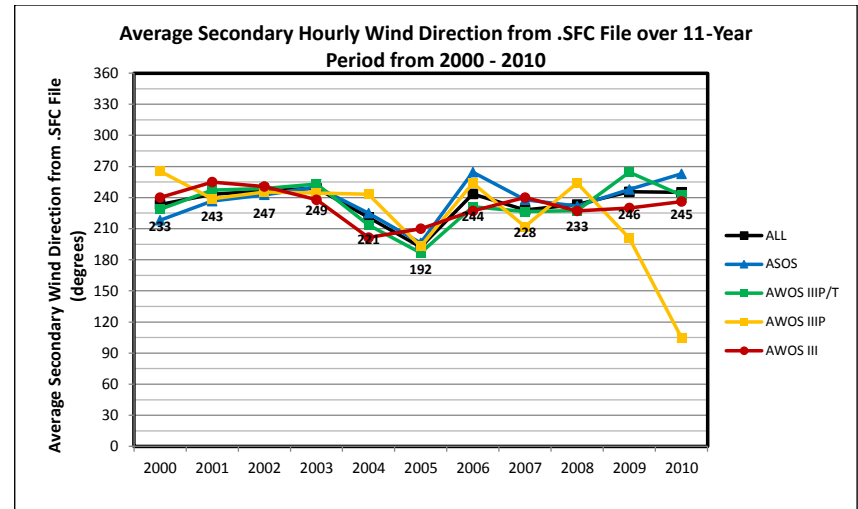
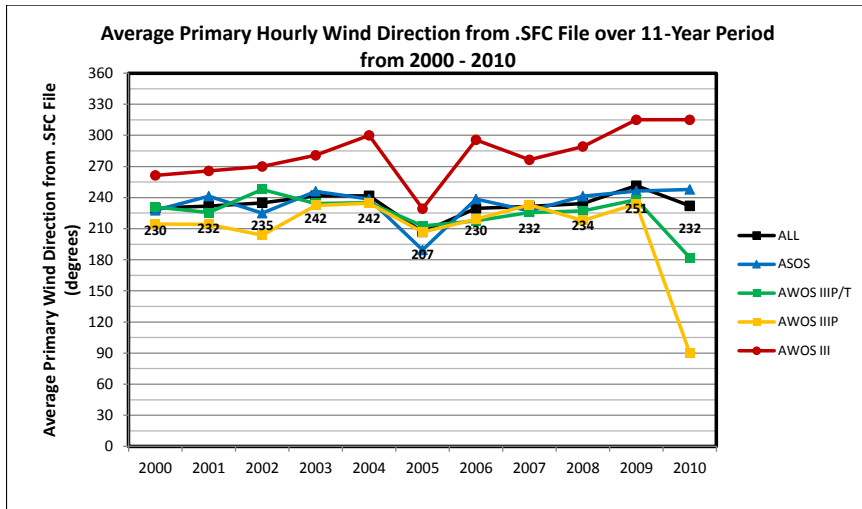
	Average	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
Missing+Calm Hours	ALL	23.75%	22.80%	19.13%	18.75%	19.20%	19.86%	15.27%	14.33%	16.13%	8.21%	6.71%	17.74%	0.045
	ASOS	14.56%	15.35%	14.31%	13.90%	13.26%	13.38%	5.78%	3.77%	3.63%	2.13%	1.49%	10.01%	0.054
	AWOS III/P/T	28.81%	28.48%	22.64%	21.51%	24.23%	24.01%	18.41%	17.64%	20.65%	13.62%	13.96%	22.00%	0.047
	AWOS III/P	34.06%	27.42%	22.40%	23.45%	19.34%	22.87%	22.37%	20.77%	24.60%	15.68%	18.57%	23.30%	0.049
	AWOS III	13.20%	11.77%	11.73%	11.92%	10.98%	10.56%	11.52%	14.34%	10.79%	10.67%	12.84%	11.75%	0.012

	Average	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
Ave. Wind Speed	ALL	7.25	7.86	7.44	7.25	7.43	7.09	7.21	7.55	7.27	7.90	7.78	7.42	0.272
	ASOS	7.97	8.18	8.20	8.11	8.22	7.88	8.14	8.37	8.05	7.86	7.70	8.10	0.160
	AWOS III/P/T	6.55	7.38	6.74	6.53	6.75	6.52	6.66	7.04	6.77	7.86	8.00	6.88	0.435
	AWOS III/P	6.79	7.60	6.97	6.69	7.01	6.54	6.48	6.93	6.66	7.65	7.01	6.93	0.407
	AWOS III	8.68	9.47	9.23	8.99	9.42	8.99	9.08	9.26	9.10	8.31	8.04	9.05	0.347

	Average	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
1st Wind Direc.	ALL	229.93	231.89	235.00	241.80	241.69	206.93	229.76	231.53	234.35	251.41	232.03	233.43	11.54
	ASOS	227.73	241.36	225.00	246.14	238.64	189.55	238.64	227.05	241.36	246.43	247.89	232.19	16.88
	AWOS III/P/T	230.89	225.48	247.97	234.38	235.14	212.63	217.68	225.73	227.20	237.86	182.14	229.49	10.16
	AWOS III/P	214.62	214.29	203.57	232.50	234.64	206.79	219.00	233.00	218.00	234.00	90.00	221.04	11.72
	AWOS III	261.43	265.71	270.00	280.71	300.00	229.29	295.71	276.43	289.29	315.00	315.00	278.36	23.96

	Average	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average	St. Dev.
2nd Wind Direc.	ALL	233.36	243.24	246.60	249.20	220.88	192.29	243.53	228.00	233.29	245.54	245.16	233.59	17.15
	ASOS	218.18	236.59	242.73	250.23	225.00	196.36	264.55	237.95	231.82	247.86	262.89	235.13	18.93
	AWOS III/P/T	228.75	247.26	248.91	253.13	213.65	186.75	231.22	226.46	227.56	264.64	242.14	232.83	22.28
	AWOS III/P	265.38	238.93	245.36	244.29	243.21	192.86	254.00	212.00	254.00	201.00	105.00	235.10	24.46
	AWOS III	240.00	255.00	250.71	237.86	201.43	210.00	227.14	240.00	227.14	230.00	236.25	231.93	16.70





Call Sign	USAF	Location	State	*Is Station Useable?	2000_SF	2001_SF	2002_SF	2003_SF	2004_SF	2005_SF	2006_SF	2007_SF	2008_SF	2009_SF	2010_SF
					CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail
ABR	726590	Aberdeen	SD	Useable	98.55%	98.95%	98.47%	98.49%	97.97%	98.39%	97.87%	97.28%	97.23%	98.20%	
ADC	726561	Wadena	MN	Caution			66.61%	98.42%	98.83%	99.24%	98.56%	97.31%	98.29%		
AEL	726589	Albert Lea	MN	Useable	95.97%	88.13%	96.60%	98.09%	98.38%	99.19%	97.73%	97.96%	96.90%	93.73%	
AIT	727504	Aitkin	MN	Not Useable	95.57%	79.67%	95.48%	98.34%	98.10%	99.46%	98.26%	96.96%	97.79%		
ANE	726577	Minneapolis/Blaine	MN	Caution	93.69%	82.23%	93.93%	96.29%	97.85%	95.80%	91.19%	90.86%	94.67%		
ATY	726546	Watertown	SD	Useable	98.16%	98.17%	98.80%	98.48%	97.63%	98.64%	97.20%	95.81%	96.71%	97.31%	
AXN	726557	Alexandria	MN	Useable	98.71%	98.82%	97.21%	98.18%	98.04%	98.64%	97.79%	98.71%	99.57%	99.71%	98.21%
BBB	727507	Benson	MN	Caution	93.07%	88.78%	96.59%	97.89%	98.94%	98.32%	98.80%	97.88%	98.17%		
BDE	727476	Baudette	MN	Not Useable	92.03%	82.77%	86.53%	86.93%	89.32%	88.95%	87.20%	91.53%	92.58%		
BDH	720386	Willmar	MN	Not Useable											
BFW	727556	Silver Bay	MN	Not Useable	94.50%	70.02%	94.12%	96.72%	98.83%	99.22%	99.05%	98.58%	98.29%		
BJI	727550	Bemidji	MN	Useable	97.94%	91.38%	97.18%	98.44%	97.50%	99.10%	96.10%	98.12%	98.72%	99.51%	
BRD	726555	Brainerd	MN	Useable	80.87%	73.88%	89.17%	91.94%	96.53%	95.66%	99.43%	99.14%	99.73%	99.54%	99.63%
CBG	727503	Cambridge	MN	Not Useable	91.23%	77.29%	95.67%	98.52%	99.07%	99.51%	97.23%	98.70%	97.86%		
CKC	727454	Grand Marais Arpt	MN	Caution	92.07%	89.51%	95.18%	98.24%	98.98%	99.52%	95.71%	97.65%	96.99%		
CKN	727452	Crookston	MN	Useable	86.54%	91.32%	96.16%	98.22%	97.52%	99.02%	98.55%	98.76%	97.52%	99.10%	
COQ	726558	Cloquet	MN	Caution	91.85%	87.35%	96.47%	98.74%	99.02%	99.58%	99.11%	98.70%	96.98%		
CQM	726549	Cook	MN	Not Useable	88.75%	72.31%	88.86%	92.96%	97.79%	94.94%	99.04%	98.80%	96.25%		
DLH	727450	Duluth	MN	Useable	98.63%	98.00%	98.79%	98.55%	98.90%	98.94%	99.76%	99.73%	99.62%	99.86%	99.86%
DTL	727457	Detroit Lakes	MN	Useable	87.73%	85.17%	94.20%	98.08%	99.08%	99.62%	99.21%	98.85%	98.71%	98.87%	98.12%
DVP	720368	Slayton	MN	Not Useable						13.47%	93.18%	98.20%	98.83%		
DYT	727456	Duluth Sky Harbor	MN	Useable							98.26%	98.00%	97.13%	95.97%	97.88%
EAU	726435	Eau Claire	WI	Useable	98.35%	97.51%	97.20%	96.77%	97.38%	96.96%	99.52%	99.34%	99.70%	99.85%	99.74%
ELO	727459	Ely	MN	Not Useable	89.82%	73.86%	93.87%	97.64%	99.07%	99.55%	99.00%	97.33%	97.51%		
EVM	727474	Eveleth	MN	Not Useable	88.08%	80.39%	96.13%	98.68%	99.08%	99.66%	99.16%	98.56%	98.29%		
FAR	727530	Fargo	ND	Useable	98.55%	98.93%	98.63%	98.60%	98.50%	98.33%	99.69%	99.77%	99.84%	99.82%	99.75%
FBL	726563	Faribault	MN	Not Useable	94.16%	87.93%	96.43%	98.30%	99.09%	75.45%	97.63%	97.73%	98.05%		
FCM	726579	Flying Cloud Arpt.	MN	Useable	95.90%	91.31%	95.91%	95.61%	96.61%	97.01%	99.47%	99.12%	99.54%	99.84%	99.86%
FFM	726560	Fergus Falls	MN	Useable	97.34%	92.01%	96.86%	98.44%	98.91%	96.85%	96.31%	98.09%	97.51%	97.89%	98.90%
FGN	727467	Flag Island	MN	Useable	38.33%	87.33%	92.96%	96.21%	98.09%	99.21%	98.28%	97.72%	90.19%	96.70%	
FKA	720283	Preston	MN	Useable					59.79%	99.41%	99.20%	98.28%	96.23%	98.90%	
FOZ	727468	Bigfork	MN	Not Useable	87.22%	75.18%	94.78%	97.39%	99.07%	99.49%	99.13%	98.78%	97.94%		
FRM	726586	Fairmont	MN	Useable	98.14%	91.97%	95.11%	93.70%	98.93%	99.22%	92.58%	94.78%	97.62%	98.78%	97.67%
FSD	726510	Sioux Falls	SD	Useable	97.45%	97.93%	98.14%	97.64%	97.80%	97.59%	99.70%	99.65%	99.80%	99.85%	99.97%
FSE	727505	Fosston	MN	Caution	87.08%	89.26%	96.22%	97.83%	99.11%	99.39%	99.13%	98.79%	98.02%		
GDB	722033	Granite Falls	MN	Useable					44.27%	99.25%	99.12%	96.30%	98.77%	99.38%	
GFK	727576	Grand Forks	ND	Useable	98.32%	98.80%	98.14%	98.66%	99.18%	99.25%	99.73%	99.66%	99.85%	99.85%	99.97%
GHW	726547	Glenwood	MN	Useable	93.10%	93.48%	97.45%	98.21%	99.09%	99.54%	99.12%	98.36%	97.94%	99.36%	
GNA	727469	Grand Marais	MN	Useable	81.11%	65.67%	61.34%	80.42%	76.82%	81.34%	97.37%	97.96%	98.51%	99.63%	99.16%
GPZ	727458	Grand Rapids	MN	Useable	94.71%	82.41%	96.54%	98.76%	95.33%	99.35%	97.82%	96.05%	98.17%	99.32%	98.29%
GYL	727517	Glencoe	MN	Caution		28.34%	87.15%	90.33%	98.32%	99.60%	99.05%	98.85%	97.95%		
HCD	726569	Hutchinson	MN	Caution	92.46%	85.38%	95.18%	94.22%	98.75%	98.40%	99.10%	98.73%	95.13%		
HCO	727478	Hallock	MN	Useable	87.73%	88.08%	96.74%	97.85%	99.06%	99.05%	98.15%	95.32%	91.85%	99.49%	98.22%

Call Sign	USAF	Location	State	*Is Station Useable?	2000_SF	2001_SF	2002_SF	2003_SF	2004_SF	2005_SF	2006_SF	2007_SF	2008_SF	2009_SF	2010_SF
					CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail	CDataAv ail
HIB	727455	Hibbing	MN	Useable	92.87%	93.58%	94.50%	94.46%	94.82%	98.01%	99.39%	97.03%	99.67%	99.84%	99.65%
HZX	720258	McGregor	MN	Not Useable					59.54%	99.43%	98.88%	98.47%	98.49%		
ILL	726576	Willmar	MN	Not Useable											
INL	727470	International Falls	MN	Useable	97.09%	97.37%	97.45%	97.01%	97.32%	97.42%	98.58%	99.78%	99.42%	99.78%	99.85%
JKJ	722129	Moorhead	MN	Useable					59.34%	98.69%	99.11%	98.84%	98.52%	99.43%	99.20%
JMR	727475	Mora	MN	Not Useable	87.03%	73.77%	95.51%	98.15%	99.09%	99.59%	99.21%	98.03%	97.94%		
LJF	726583	Litchfield	MN	Caution	87.78%	87.20%	96.08%	85.05%	96.23%	98.86%	98.58%	97.63%	98.20%		
LSE	726430	La Crosse	WI	Useable	97.31%	95.43%	96.83%	96.20%	96.65%	96.29%	99.50%	99.63%	99.78%	99.76%	99.95%
LVN	726562	Airlake	MN	Not Useable	99.09%	79.98%	96.04%	98.55%	99.10%	99.60%	98.85%	98.44%	98.02%		
LXL	726578	Little Falls	MN	Not Useable	93.09%	72.15%	91.29%	96.92%	98.91%	99.44%	98.97%	98.72%	98.03%		
LYV	722006	Luverne	MN	Not Useable						89.08%	99.06%	99.64%	98.96%		
MIC	726575	Minneapolis/Crystal	MN	Useable	96.63%	85.42%	95.55%	95.81%	96.27%	96.84%	99.46%	99.54%	99.90%	99.75%	99.93%
MJQ	726593	Jackson	MN	Useable	91.50%	86.02%	97.56%	98.70%	98.60%	99.47%	99.10%	98.77%	97.58%	98.32%	99.05%
MKT	726585	Mankato	MN	Useable	98.28%	92.63%	97.75%	98.56%	98.50%	93.58%	97.72%	86.32%	97.15%	99.38%	96.66%
MML	726559	Marshall	MN	Useable	97.94%	92.28%	97.03%	97.50%	97.70%	98.52%	92.65%	95.01%	98.70%	98.25%	98.65%
MOX	726565	Morris	MN	Useable	80.64%	83.53%	96.53%	98.08%	99.09%	99.67%	99.16%	97.82%	94.68%	98.14%	98.84%
MSP	726580	Minneapolis/St. Paul Int'l Arpt	MN	Useable	99.85%	99.46%	99.77%	99.74%	99.89%	96.76%	99.52%	99.81%	99.94%	99.87%	99.98%
MVE	726553	Montevideo	MN	Useable	89.88%	91.44%	97.23%	98.52%	98.77%	99.35%	99.18%	98.80%	96.70%	98.38%	
MWM	727506	Windom	MN	Useable	97.04%	88.79%	95.72%	98.44%	96.35%	99.57%	98.90%	98.66%	98.33%	98.26%	
MZH	727449	Moose Lake	MN	Not Useable		23.85%	88.05%	92.52%	99.03%	99.62%	97.88%	98.76%	98.57%		
ONA	726588	Winona	MN	Not Useable	92.91%	69.92%	96.08%	98.88%	97.46%	97.88%	99.06%	95.99%	98.09%		
ORB	726544	Orr	MN	Not Useable	83.57%	73.53%	92.79%	95.37%	99.00%	99.65%	99.09%	98.30%	97.34%		
OTG	726587	Worthington	MN	Not Useable	96.15%	94.79%	85.16%	88.16%	95.38%	94.57%	96.42%	85.48%	97.88%		
OVL	722168	Olivia	MN	Useable					59.81%	99.66%	98.95%	98.65%	96.73%	98.54%	96.39%
OWA	726568	Owatonna	MN	Caution	93.24%	89.73%	93.04%	95.56%	96.58%	98.62%	98.09%	97.43%	96.43%		
PEX	720367	Paynesville	MN	Not Useable						13.03%	94.10%	98.86%	98.83%		
PKD	727453	Park Rapids	MN	Useable	95.47%	92.35%	94.76%	94.01%	96.31%	96.93%	99.26%	99.08%	99.95%	99.69%	99.59%
PQN	726566	Pipestone	MN	Not Useable	83.91%	87.12%	95.97%	97.89%	98.96%	98.32%	98.80%	89.67%	93.80%		
PWC	727508	Pine River	MN	Not Useable	92.05%	79.98%	94.78%	98.53%	99.09%	97.75%	98.88%	98.49%	98.34%		
RGK	726564	Red Wing	WI	Not Useable	84.11%	81.20%	94.46%	97.93%	98.98%	98.68%	99.10%	98.78%	97.77%		
ROS	726679	Rush City	MN	Caution		24.58%	85.14%	93.46%	99.09%	99.30%	98.90%	98.92%	95.75%		
ROX	727477	Roseau	MN	Caution	77.46%	89.09%	96.66%	96.50%	97.18%	99.58%	97.51%	98.82%	97.22%		
RRT	726548	Warroad	MN	Useable	95.77%	90.08%	94.47%	96.92%	98.88%	99.29%	99.16%	97.80%	97.10%	99.42%	
RST	726440	Rochester	MN	Useable	98.90%	98.97%	98.08%	98.47%	98.74%	98.71%	99.77%	99.75%	99.93%	99.85%	99.92%
RWF	726556	Redwood Falls	MN	Useable	95.74%	96.78%	97.41%	96.36%	96.81%	97.41%	98.97%	99.76%	99.86%	99.81%	99.92%
SAZ	727514	Staples	MN	Not Useable	92.16%	84.04%	95.79%	97.99%	99.02%	99.52%	99.16%	98.53%	98.42%		
SGS	726603	South St. Paul	MN	Not Useable	92.04%	78.47%	93.50%	97.21%	97.72%	99.46%	94.74%	98.80%	98.35%		
STC	726550	St. Cloud	MN	Useable	96.82%	98.03%	97.71%	97.24%	97.37%	97.42%	99.58%	99.65%	99.70%	99.83%	99.95%
STP	726584	St. Paul Downtown Arpt	MN	Useable	95.21%	65.87%	92.67%	95.49%	96.13%	99.59%	98.22%	99.41%	99.90%	99.78%	99.67%
SUW	726427	Superior	WI	Not Useable							99.19%	96.78%	98.80%	97.90%	98.05%
TVF	727555	Thief River Falls	MN	Useable	98.12%	93.15%	97.19%	94.74%	90.98%	97.93%	96.32%	93.11%	95.78%	98.64%	
ULM	726567	New Ulm Mun. Arpt	MN	Caution	80.70%	86.80%	96.82%	97.36%	98.94%	99.21%	98.14%	98.84%	97.88%		
VVV	727515	Ortonville	MN	Useable	76.35%	90.48%	96.19%	97.95%	97.81%	99.17%	98.88%	97.97%	97.24%	98.11%	
XVG	727497	Longville	MN	Not Useable		25.26%	93.18%	97.76%	98.82%	98.89%	95.50%	97.55%	98.14%		

Station Type	2000 - 2010_SF CDataAv ail	2000 - 2004_SF CDataAv ail	2001 - 2005_SF CDataAv ail	2002 - 2006_SF CDataAv ail	2003 - 2007_SF CDataAv ail	2004 - 2008_SF CDataAv ail	2005 - 2009_SF CDataAv ail	2006 - 2010_SF CDataAv ail
ASOS	98.14%	98.49%	98.45%	98.24%	98.00%	97.75%	97.79%	97.65%
AWOS III/T	93.89%	87.95%	90.78%	92.33%	98.47%	98.45%	98.35%	98.05%
AWOS III/T	96.27%	95.43%	96.08%	98.00%	98.27%	98.03%	97.10%	96.58%
AWOS III/T	95.51%	93.43%	94.21%	97.93%	98.22%	98.11%	98.12%	97.67%
AWOS III/T	92.95%	92.80%	93.22%	95.01%	94.40%	94.07%	93.13%	92.24%
ASOS	97.69%	98.25%	98.34%	98.15%	97.55%	97.20%	97.13%	96.76%
ASOS	98.51%	98.19%	98.18%	97.97%	98.27%	98.55%	98.88%	98.80%
AWOS III/T	96.49%	95.05%	96.10%	98.11%	98.37%	98.42%	98.29%	98.28%
ASOS	88.65%	87.52%	86.90%	87.79%	88.79%	89.92%	90.07%	90.44%
AWOS III/T								
AWOS III/T	94.37%	90.84%	91.78%	97.59%	98.48%	98.79%	98.79%	98.64%
AWOS III	97.40%	96.49%	96.72%	97.66%	97.85%	97.91%	98.31%	98.11%
ASOS	93.23%	86.48%	89.44%	94.55%	96.54%	98.10%	98.70%	99.49%
AWOS III/T	95.01%	92.36%	94.01%	98.00%	98.61%	98.47%	98.33%	97.93%
AWOS III/T	95.98%	94.80%	96.29%	97.53%	98.02%	97.77%	97.47%	96.78%
AWOS III/T	96.27%	93.95%	96.45%	97.89%	98.41%	98.27%	98.59%	98.48%
AWOS III/T	96.42%	94.69%	96.23%	98.58%	99.03%	98.68%	98.59%	98.26%
AWOS III/T	92.19%	88.13%	89.37%	94.72%	96.71%	97.36%	97.26%	98.03%
ASOS	99.15%	98.57%	98.64%	98.99%	99.18%	99.39%	99.58%	99.77%
AWOS III/T	96.15%	92.85%	95.23%	98.04%	98.97%	99.09%	99.05%	98.75%
AWOS III/T	75.92%		13.47%	53.33%	68.28%	75.92%	75.92%	96.74%
AWOS III/T	97.45%			98.26%	98.13%	97.80%	97.34%	97.45%
ASOS	98.39%	97.44%	97.16%	97.57%	97.99%	98.58%	99.07%	99.63%
AWOS III/T	94.18%	90.85%	92.80%	97.83%	98.52%	98.49%	98.35%	97.95%
AWOS III/T	95.34%	92.47%	94.79%	98.54%	99.03%	98.95%	98.92%	98.67%
ASOS	99.13%	98.64%	98.60%	98.75%	98.98%	99.23%	99.49%	99.77%
AWOS III/T	93.86%	95.18%	91.44%	93.38%	93.64%	93.59%	92.22%	97.80%
ASOS	97.29%	95.07%	95.29%	96.92%	97.56%	98.35%	99.00%	99.57%
AWOS III/T	97.19%	96.71%	96.61%	97.47%	97.72%	97.53%	97.33%	97.74%
AWOS III/T	89.50%	82.58%	94.76%	96.95%	97.90%	96.70%	96.42%	95.72%
AWOS III/T	91.97%	59.79%	79.60%	86.13%	89.17%	90.58%	98.40%	98.15%
AWOS III/T	94.33%	90.73%	93.18%	97.97%	98.77%	98.88%	98.84%	98.62%
AWOS III	96.23%	95.57%	95.79%	95.91%	95.84%	96.63%	96.60%	96.29%
ASOS	98.68%	97.79%	97.82%	98.17%	98.48%	98.91%	99.32%	99.79%
AWOS III/T	96.09%	93.90%	96.36%	98.34%	98.85%	98.89%	98.83%	98.65%
AWOS III/T	89.52%	44.27%	71.76%	80.88%	84.74%	87.54%	98.56%	98.39%
ASOS	99.22%	98.62%	98.81%	98.99%	99.30%	99.53%	99.67%	99.81%
AWOS III/T	97.57%	96.27%	97.55%	98.68%	98.86%	98.81%	98.86%	98.70%
ASOS	85.39%	73.07%	73.12%	79.46%	86.78%	90.40%	94.96%	98.53%
AWOS III	96.07%	93.55%	94.48%	97.56%	97.46%	97.34%	98.14%	97.93%
AWOS III/T	87.45%	76.04%	80.75%	94.89%	97.23%	98.75%	98.86%	98.62%
AWOS III/T	95.26%	93.20%	94.39%	97.13%	97.84%	98.02%	97.84%	97.65%
AWOS III/T	95.59%	93.89%	96.16%	98.17%	97.89%	96.69%	96.77%	96.61%

Station Type	2000 - 2010_SF CDataAv ail	2000 - 2004_SF CDataAv ail	2001 - 2005_SF CDataAv ail	2002 - 2006_SF CDataAv ail	2003 - 2007_SF CDataAv ail	2004 - 2008_SF CDataAv ail	2005 - 2009_SF CDataAv ail	2006 - 2010_SF CDataAv ail
ASOS	96.71%	94.05%	95.07%	96.24%	96.74%	97.78%	98.79%	99.12%
AWOS III/T	90.96%	59.54%	79.49%	85.95%	89.08%	90.96%	98.82%	98.61%
ASOS	98.28%	97.25%	97.31%	97.56%	98.02%	98.50%	99.00%	99.48%
AWOS III/T	93.30%	59.34%	79.02%	85.71%	89.00%	90.90%	98.92%	99.02%
AWOS III/T	94.26%	90.71%	93.22%	98.31%	98.81%	98.77%	98.69%	98.39%
AWOS III/T	93.96%	90.47%	92.68%	94.96%	95.27%	97.90%	98.32%	98.14%
ASOS	97.94%	96.48%	96.28%	97.09%	97.65%	98.37%	98.99%	99.72%
AWOS III/T	96.41%	94.55%	94.65%	98.43%	98.91%	98.80%	98.73%	98.44%
AWOS III/T	94.17%	90.47%	91.74%	97.11%	98.59%	98.81%	98.79%	98.57%
AWOS III/T	96.44%		89.08%	94.07%	95.59%	96.44%	96.44%	98.89%
ASOS	96.83%	93.94%	93.98%	96.79%	97.58%	98.40%	99.10%	99.72%
AWOS III/T	96.79%	94.48%	96.07%	98.69%	98.93%	98.70%	98.65%	98.56%
AWOS III	96.05%	97.14%	96.20%	97.22%	94.94%	94.65%	94.83%	95.45%
AWOS III	96.75%	96.49%	96.61%	96.68%	96.28%	96.52%	96.63%	96.65%
AWOS III/T	95.11%	91.57%	95.38%	98.51%	98.76%	98.08%	97.89%	97.73%
ASOS	99.51%	99.74%	99.12%	99.14%	99.14%	99.18%	99.18%	99.82%
AWOS III/T	96.83%	95.17%	97.06%	98.61%	98.92%	98.56%	98.48%	98.27%
AWOS III/T	97.01%	95.27%	95.77%	97.80%	98.38%	98.36%	98.74%	98.54%
AWOS III/T	87.29%	75.86%	80.61%	95.42%	97.56%	98.77%	98.71%	98.40%
AWOS III/T	94.03%	91.05%	92.04%	97.87%	97.85%	97.70%	97.76%	97.71%
AWOS III/T	93.18%	88.85%	92.07%	97.18%	98.28%	98.68%	98.60%	98.24%
AWOS III	92.67%	91.93%	91.61%	91.94%	92.00%	93.95%	93.59%	93.26%
AWOS III/T	92.68%	59.81%	79.74%	86.14%	89.27%	90.76%	98.51%	97.85%
AWOS III/T	95.41%	93.63%	94.71%	96.38%	97.26%	97.43%	97.64%	97.32%
AWOS III/T	76.21%		13.03%	53.57%	68.66%	76.21%	76.21%	97.26%
ASOS	97.04%	94.58%	94.87%	96.25%	97.12%	98.31%	98.98%	99.51%
AWOS III/T	93.83%	92.77%	95.65%	97.99%	96.73%	95.91%	95.15%	94.09%
AWOS III/T	95.32%	92.89%	94.03%	97.81%	98.55%	98.51%	98.37%	98.57%
AWOS III/T	94.56%	91.34%	94.25%	97.83%	98.69%	98.66%	98.58%	98.55%
AWOS III/T	86.89%	75.57%	80.31%	95.18%	97.93%	98.39%	98.22%	97.86%
AWOS III/T	94.45%	91.38%	95.80%	97.49%	97.92%	98.06%	98.28%	97.85%
AWOS III/T	96.89%	95.22%	95.93%	97.74%	98.41%	98.45%	98.55%	98.37%
ASOS	99.19%	98.63%	98.59%	98.75%	99.09%	99.38%	99.60%	99.84%
ASOS	98.08%	96.62%	96.95%	97.39%	97.86%	98.56%	99.16%	99.66%
AWOS III/T	96.07%	93.80%	95.27%	98.30%	98.84%	98.93%	98.91%	98.70%
AWOS III/T	94.48%	91.79%	93.27%	96.53%	97.59%	97.81%	97.84%	97.30%
ASOS	98.48%	97.43%	97.55%	97.86%	98.25%	98.74%	99.24%	99.74%
ASOS	94.72%	89.07%	89.95%	96.42%	97.77%	98.65%	99.38%	99.40%
AWOS III/T	98.14%			99.19%	97.99%	98.26%	98.17%	98.14%
AWOS III	95.60%	94.84%	94.80%	95.43%	94.62%	94.82%	96.36%	95.96%
AWOS III/T	94.97%	92.12%	95.83%	98.09%	98.50%	98.60%	98.52%	98.29%
AWOS III/T	95.02%	91.76%	96.32%	98.00%	98.36%	98.21%	98.27%	98.05%
AWOS III/T	88.14%	78.76%	82.78%	96.83%	97.70%	97.78%	97.52%	97.06%

Missing Data

03/07/2012

Call Sign	USAF	Location	State	*Is Station Useable?	2000_M	2001_M	2002_M	2003_M	2004_M	2005_M	2006_M	2007_M	2008_M	2009_M	2010_M	Station Type
					issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta		
ABR	726590	Aberdeen	SD	Useable	1.45%	1.05%	1.53%	1.51%	2.03%	1.61%	2.13%	2.72%	2.77%	1.80%		ASOS
ADC	726561	Wadena	MN	Caution			33.39%	1.58%	1.17%	0.76%	1.44%	2.69%	1.71%			AWOS IIIP/T
AEL	726589	Albert Lea	MN	Useable	4.03%	11.87%	3.40%	1.91%	1.62%	0.81%	2.27%	2.04%	3.10%	6.27%		AWOS IIIP/T
AIT	727504	Aitkin	MN	Not Useable	4.43%	20.33%	4.52%	1.66%	1.90%	0.54%	1.74%	3.04%	2.21%			AWOS IIIP/T
ANE	726577	Minneapolis/Blaine	MN	Caution	6.31%	17.77%	6.07%	3.71%	2.15%	4.20%	8.81%	9.14%	5.33%			AWOS IIIP
ATY	726546	Watertown	SD	Useable	1.84%	1.83%	1.20%	1.52%	2.37%	1.36%	2.80%	4.19%	3.29%	2.69%		ASOS
AXN	726557	Alexandria	MN	Useable	1.29%	1.18%	2.79%	1.82%	1.96%	1.36%	2.21%	1.29%	0.43%	0.29%	1.79%	ASOS
BBB	727507	Benson	MN	Caution	6.93%	11.22%	3.41%	2.11%	1.06%	1.68%	1.20%	2.12%	1.83%			AWOS IIIP/T
BDE	727476	Baudette	MN	Not Useable	7.97%	17.23%	13.47%	13.07%	10.68%	11.05%	12.80%	8.47%	7.42%			ASOS
BDH	720386	Willmar	MN	Not Useable												AWOS IIIP/T
BFW	727556	Silver Bay	MN	Not Useable	5.50%	29.98%	5.88%	3.28%	1.17%	0.78%	0.95%	1.42%	1.71%			AWOS IIIP/T
BJI	727550	Bemidji	MN	Useable	2.06%	8.62%	2.82%	1.56%	2.50%	0.90%	3.90%	1.88%	1.28%	0.49%		AWOS III
BRD	726555	Brainerd	MN	Useable	19.13%	26.12%	10.83%	8.06%	3.47%	4.34%	0.57%	0.86%	0.27%	0.46%	0.37%	ASOS
CBG	727503	Cambridge	MN	Not Useable	8.77%	22.71%	4.33%	1.48%	0.93%	0.49%	2.77%	1.30%	2.14%			AWOS IIIP/T
CKC	727454	Grand Marais Arpt	MN	Caution	7.93%	10.49%	4.82%	1.76%	1.02%	0.48%	4.29%	2.35%	3.01%			AWOS IIIP/T
CKN	727452	Crookston	MN	Useable	13.46%	8.68%	3.84%	1.78%	2.48%	0.98%	1.45%	1.24%	2.48%	0.90%		AWOS IIIP/T
COQ	726558	Cloquet	MN	Caution	8.15%	12.65%	3.53%	1.26%	0.98%	0.42%	0.89%	1.30%	3.02%			AWOS IIIP/T
CQM	726549	Cook	MN	Not Useable	11.25%	27.69%	11.14%	7.04%	2.21%	5.06%	0.96%	1.20%	3.75%			AWOS IIIP
DLH	727450	Duluth	MN	Useable	1.37%	2.00%	1.21%	1.45%	1.10%	1.06%	0.24%	0.27%	0.38%	0.14%	0.14%	ASOS
DTL	727457	Detroit Lakes	MN	Useable	12.27%	14.83%	5.80%	1.92%	0.92%	0.38%	0.79%	1.15%	1.29%	1.13%	1.88%	AWOS IIIP/T
DVP	720368	Slayton	MN	Not Useable						86.53%	6.82%	1.80%	1.17%			AWOS IIIP/T
DYT	727456	Duluth Sky Harbor	MN	Useable							1.74%	2.00%	2.87%	4.03%	2.12%	AWOS IIIP/T
EAU	726435	Eau Claire	WI	Useable	1.65%	2.49%	2.80%	3.23%	2.62%	3.04%	0.48%	0.66%	0.30%	0.15%	0.26%	ASOS
ELO	727459	Ely	MN	Not Useable	10.18%	26.14%	6.13%	2.36%	0.93%	0.45%	1.00%	2.67%	2.49%			AWOS IIIP
EVM	727474	Eveleth	MN	Not Useable	11.92%	19.61%	3.87%	1.32%	0.92%	0.34%	0.84%	1.44%	1.71%			AWOS IIIP/T
FAR	727530	Fargo	ND	Useable	1.45%	1.07%	1.37%	1.40%	1.50%	1.67%	0.31%	0.23%	0.16%	0.18%	0.25%	ASOS
FBL	726563	Faribault	MN	Not Useable	5.84%	12.07%	3.57%	1.70%	0.91%	24.55%	2.37%	2.27%	1.95%			AWOS IIIP/T
FCM	726579	Flying Cloud Arpt.	MN	Useable	4.10%	8.69%	4.09%	4.39%	3.39%	2.99%	0.53%	0.88%	0.46%	0.16%	0.14%	ASOS
FFM	726560	Fergus Falls	MN	Useable	2.66%	7.99%	3.14%	1.56%	1.09%	3.15%	3.69%	1.91%	2.49%	2.11%	1.10%	AWOS IIIP
FGN	727467	Flag Island	MN	Useable	61.67%	12.67%	7.04%	3.79%	1.91%	0.79%	1.72%	2.28%	9.81%	3.30%		AWOS IIIP
FKA	720283	Preston	MN	Useable					40.21%	0.59%	0.80%	1.72%	3.77%	1.10%		AWOS IIIP/T
FOZ	727468	Bigfork	MN	Not Useable	12.78%	24.82%	5.22%	2.61%	0.93%	0.51%	0.87%	1.22%	2.06%			AWOS IIIP
FRM	726586	Fairmont	MN	Useable	1.86%	8.03%	4.89%	6.30%	1.07%	0.78%	7.42%	5.22%	2.38%	1.22%	2.33%	AWOS III
FSD	726510	Sioux Falls	SD	Useable	2.55%	2.07%	1.86%	2.36%	2.20%	2.41%	0.30%	0.35%	0.20%	0.15%	0.03%	ASOS
FSE	727505	Fosston	MN	Caution	12.92%	10.74%	3.78%	2.17%	0.89%	0.61%	0.87%	1.21%	1.98%			AWOS IIIP/T
GDB	722033	Granite Falls	MN	Useable					55.73%	0.75%	0.88%	3.70%	1.23%	0.62%		AWOS IIIP/T
GFK	727576	Grand Forks	ND	Useable	1.68%	1.20%	1.86%	1.34%	0.82%	0.75%	0.27%	0.34%	0.15%	0.15%	0.03%	ASOS
GHW	726547	Glenwood	MN	Useable	6.90%	6.52%	2.55%	1.79%	0.91%	0.46%	0.88%	1.64%	2.06%	0.64%		AWOS IIIP/T
GNA	727469	Grand Marais	MN	Useable	18.89%	34.33%	38.66%	19.58%	23.18%	18.66%	2.63%	2.04%	1.49%	0.37%	0.84%	ASOS
GPZ	727458	Grand Rapids	MN	Useable	5.29%	17.59%	3.46%	1.24%	4.67%	0.65%	2.18%	3.95%	1.83%	0.68%	1.71%	AWOS III
GYL	727517	Glencoe	MN	Caution		71.66%	12.85%	9.67%	1.68%	0.40%	0.95%	1.15%	2.05%			AWOS IIIP/T
HCD	726569	Hutchinson	MN	Caution	7.54%	14.62%	4.82%	5.78%	1.25%	1.60%	0.90%	1.27%	4.87%			AWOS IIIP/T
HCO	727478	Hallock	MN	Useable	12.27%	11.92%	3.26%	2.15%	0.94%	0.95%	1.85%	4.68%	8.15%	0.51%	1.78%	AWOS IIIP/T



Missing Data

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Call Sign	USAF	Location	State	*Is Station Useable?	2000_M	2001_M	2002_M	2003_M	2004_M	2005_M	2006_M	2007_M	2008_M	2009_M	2010_M	Station Type
					issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta	issingDa ta		
HIB	727455	Hibbing	MN	Useable	7.13%	6.42%	5.50%	5.54%	5.18%	1.99%	0.61%	2.97%	0.33%	0.16%	0.35%	ASOS
HZX	720258	McGregor	MN	Not Useable					40.46%	0.57%	1.12%	1.53%	1.51%			AWOS IIIP/T
ILL	726576	Willmar	MN	Not Useable												
INL	727470	International Falls	MN	Useable	2.91%	2.63%	2.55%	2.99%	2.68%	2.58%	1.42%	0.22%	0.58%	0.22%	0.15%	ASOS
JKJ	722129	Moorhead	MN	Useable					40.66%	1.31%	0.89%	1.16%	1.48%	0.57%	0.80%	AWOS IIIP/T
JMR	727475	Mora	MN	Not Useable	12.97%	26.23%	4.49%	1.85%	0.91%	0.41%	0.79%	1.97%	2.06%			AWOS IIIP/T
LJF	726583	Litchfield	MN	Caution	12.22%	12.80%	3.92%	14.95%	3.77%	1.14%	1.42%	2.37%	1.80%			AWOS IIIP/T
LSE	726430	La Crosse	WI	Useable	2.69%	4.57%	3.17%	3.80%	3.35%	3.71%	0.50%	0.37%	0.22%	0.24%	0.05%	ASOS
LVN	726562	Airlake	MN	Not Useable	0.91%	20.02%	3.96%	1.45%	0.90%	0.40%	1.15%	1.56%	1.98%			AWOS IIIP/T
LXL	726578	Little Falls	MN	Not Useable	6.91%	27.85%	8.71%	3.08%	1.09%	0.56%	1.03%	1.28%	1.97%			AWOS IIIP/T
LYV	722006	Luverne	MN	Not Useable						10.92%	0.94%	1.36%	1.04%			AWOS IIIP/T
MIC	726575	Minneapolis/Crystal	MN	Useable	3.37%	14.58%	4.45%	4.19%	3.73%	3.16%	0.54%	0.46%	0.10%	0.25%	0.07%	ASOS
MJQ	726593	Jackson	MN	Useable	8.50%	13.98%	2.44%	1.30%	1.40%	0.53%	0.90%	1.23%	2.42%	1.68%	0.95%	AWOS IIIP/T
MKT	726585	Mankato	MN	Useable	1.72%	7.37%	2.25%	1.44%	1.50%	6.42%	2.28%	13.68%	2.85%	0.62%	3.34%	AWOS III
MML	726559	Marshall	MN	Useable	2.06%	7.72%	2.97%	2.50%	2.30%	1.48%	7.35%	4.99%	1.30%	1.75%	1.35%	AWOS III
MOX	726565	Morris	MN	Useable	19.36%	16.47%	3.47%	1.92%	0.91%	0.33%	0.84%	2.18%	5.32%	1.86%	1.16%	AWOS IIIP/T
MSP	726580	Minneapolis/St. Paul Int'l Arpt	MN	Useable	0.15%	0.54%	0.23%	0.26%	0.11%	3.24%	0.48%	0.19%	0.06%	0.13%	0.02%	ASOS
MVE	726553	Montevideo	MN	Useable	10.12%	8.56%	2.77%	1.48%	1.23%	0.65%	0.82%	1.20%	3.30%	1.62%		AWOS IIIP/T
MWM	727506	Windom	MN	Useable	2.96%	11.21%	4.28%	1.56%	3.65%	0.43%	1.10%	1.34%	1.67%	1.74%		AWOS IIIP
MZH	727449	Moose Lake	MN	Not Useable		76.15%	11.95%	7.48%	0.97%	0.38%	2.12%	1.24%	1.43%			AWOS IIIP/T
ONA	726588	Wrona	MN	Not Useable	7.09%	30.08%	3.92%	1.12%	1.12%	2.54%	2.12%	0.94%	4.01%	1.91%		AWOS IIIP/T
ORB	726544	Orr	MN	Not Useable	16.43%	26.47%	7.21%	4.63%	1.00%	0.35%	0.91%	1.70%	2.66%			AWOS IIIP/T
OTG	726587	Worthington	MN	Not Useable	3.85%	5.21%	14.84%	11.84%	4.62%	5.43%	3.58%	14.52%	2.12%			AWOS III
OVL	722168	Olivia	MN	Useable					40.19%	0.34%	1.05%	1.35%	3.27%	1.46%	3.61%	AWOS IIIP/T
OWA	726568	Owatonna	MN	Caution	6.76%	10.27%	6.96%	4.44%	3.42%	1.38%	1.91%	2.57%	3.57%			AWOS IIIP
PEX	720367	Paynesville	MN	Not Useable						86.97%	5.90%	1.14%	1.17%			AWOS IIIP/T
PKD	727453	Park Rapids	MN	Useable	4.53%	7.65%	5.24%	5.99%	3.69%	3.07%	0.74%	0.92%	0.05%	0.31%	0.41%	ASOS
PQN	726566	Pipestone	MN	Not Useable	16.09%	12.88%	4.03%	2.11%	1.04%	1.68%	1.20%	10.33%	6.20%			AWOS IIIP
PWC	727508	Pine River	MN	Not Useable	7.95%	20.02%	5.22%	1.47%	0.91%	2.25%	1.12%	1.51%	1.66%			AWOS IIIP
RGK	726564	Red Wing	WI	Not Useable	15.89%	18.80%	5.54%	2.07%	1.02%	1.32%	0.90%	1.22%	2.23%			AWOS IIIP/T
ROS	726679	Rush City	MN	Caution		75.42%	14.86%	6.54%	0.91%	0.70%	1.10%	1.08%	4.25%			AWOS IIIP/T
ROX	727477	Roseau	MN	Caution	22.54%	10.91%	3.34%	3.50%	2.82%	0.42%	2.49%	1.18%	2.78%			AWOS IIIP/T
RRT	726548	Warroad	MN	Useable	4.23%	9.92%	5.53%	3.08%	1.12%	0.71%	0.84%	2.20%	2.90%	0.58%		AWOS IIIP/T
RST	726440	Rochester	MN	Useable	1.10%	1.03%	1.92%	1.53%	1.26%	1.29%	0.23%	0.25%	0.07%	0.15%	0.08%	ASOS
RWF	726556	Redwood Falls	MN	Useable	4.26%	3.22%	2.59%	3.64%	3.19%	2.59%	1.03%	0.24%	0.14%	0.19%	0.08%	ASOS
SAZ	727514	Staples	MN	Not Useable	7.84%	15.96%	4.21%	2.01%	0.98%	0.48%	0.84%	1.47%	1.58%			AWOS IIIP
SGS	726603	South St. Paul	MN	Not Useable	7.96%	21.53%	6.50%	2.79%	2.28%	0.54%	5.26%	1.20%	1.65%			AWOS IIIP/T
STC	726550	St. Cloud	MN	Useable	3.18%	1.97%	2.29%	2.76%	2.63%	2.58%	0.42%	0.35%	0.30%	0.17%	0.05%	ASOS
STP	726584	St. Paul Downtown Arpt	MN	Useable	4.79%	34.13%	7.33%	4.51%	3.87%	0.41%	1.78%	0.59%	0.10%	0.22%	0.33%	ASOS
SUW	726427	Superior	WI	Not Useable							0.81%	3.22%	1.20%	2.10%	1.95%	AWOS IIIP
TVF	727555	Thief River Falls	MN	Useable	1.88%	6.85%	2.81%	5.26%	9.02%	2.07%	3.68%	6.89%	4.22%	1.36%		AWOS III
ULM	726567	New Ulm Mun. Arpt	MN	Caution	19.30%	13.20%	3.18%	2.64%	1.06%	0.79%	1.86%	1.16%	2.12%			AWOS IIIP
VVV	727515	Ortonville	MN	Useable	23.65%	9.52%	3.81%	2.05%	2.19%	0.83%	1.12%	2.03%	2.76%	1.89%		AWOS IIIP
XVG	727497	Longville	MN	Not Useable		74.74%	6.82%	2.24%	1.18%	1.11%	4.50%	2.45%	1.86%			AWOS IIIP

Missing Data

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Call Sign	2000 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2010_Mi	2004_Mi	2005_Mi	2006_Mi	2007_Mi	2008_Mi	2009_Mi	2010_Mi	2004_Miss	2005_Miss	2006_Miss	2007_Miss	2008_Miss	2009_Miss	2010_Miss
	ssingDat	ssingDat	ssingDat	ssingDat	ssingDat	ssingDat	ssingDat	ssingDat	ingData_1	ingData_1	ingData_1	ingData_1	ingData_1	ingData_1	ingData_1
	a	a	a	a	a	a	a	a	0%YN	0%YN	0%YN	0%YN	0%YN	0%YN	0%YN
ABR	1.86%	1.51%	1.55%	1.76%	2.00%	2.25%	2.21%	2.36%	Yes	Yes	Yes	Yes	Yes	Yes	No
ADC	6.11%	12.05%	9.23%	7.67%	1.53%	1.55%	1.65%	1.95%	No	No	No	Yes	Yes	No	No
AEL	3.73%	4.57%	3.92%	2.00%	1.73%	1.97%	2.90%	3.42%	No	No	Yes	Yes	Yes	Yes	No
AIT	4.49%	6.57%	5.79%	2.07%	1.78%	1.89%	1.88%	2.33%	No	No	Yes	Yes	Yes	No	No
ANE	7.05%	7.20%	6.78%	4.99%	5.60%	5.93%	6.87%	7.76%	No	No	Yes	Yes	Yes	No	No
ATY	2.31%	1.75%	1.66%	1.85%	2.45%	2.80%	2.87%	3.24%	Yes	Yes	Yes	Yes	Yes	Yes	No
AXN	1.49%	1.81%	1.82%	2.03%	1.73%	1.45%	1.12%	1.20%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BBB	3.51%	4.95%	3.90%	1.89%	1.63%	1.58%	1.71%	1.72%	No	No	Yes	Yes	Yes	No	No
BDE	11.35%	12.48%	13.10%	12.21%	11.21%	10.08%	9.94%	9.56%	No	No	No	No	No	No	No
BDH									No	No	No	No	No	No	No
BFW	5.63%	9.16%	8.22%	2.41%	1.52%	1.21%	1.22%	1.36%	No	No	Yes	Yes	Yes	No	No
BJI	2.60%	3.51%	3.28%	2.34%	2.15%	2.09%	1.69%	1.89%	Yes	Yes	Yes	Yes	Yes	Yes	No
BRD	6.77%	13.52%	10.56%	5.45%	3.46%	1.90%	1.30%	0.51%	No	No	No	Yes	Yes	Yes	Yes
CBG	4.99%	7.64%	5.99%	2.00%	1.39%	1.53%	1.68%	2.07%	No	No	Yes	Yes	Yes	No	No
CKC	4.02%	5.20%	3.71%	2.47%	1.98%	2.23%	2.53%	3.22%	No	No	Yes	Yes	Yes	No	No
CKN	3.73%	6.05%	3.55%	2.11%	1.59%	1.73%	1.41%	1.52%	No	Yes	Yes	Yes	Yes	Yes	No
COQ	3.58%	5.31%	3.77%	1.42%	0.97%	1.32%	1.41%	1.74%	No	No	Yes	Yes	Yes	No	No
CQM	7.81%	11.87%	10.63%	5.28%	3.29%	2.64%	2.74%	1.97%	No	No	No	Yes	Yes	No	No
DLH	0.85%	1.43%	1.36%	1.01%	0.82%	0.61%	0.42%	0.23%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DTL	3.85%	7.15%	4.77%	1.96%	1.03%	0.91%	0.95%	1.25%	No	No	Yes	Yes	Yes	Yes	Yes
DVP	24.08%		86.53%	46.68%	31.72%	24.08%	24.08%	3.26%	No	No	No	No	No	No	No
DYT	2.55%			1.74%	1.87%	2.20%	2.66%	2.55%	No	No	No	No	No	No	Yes
EAU	1.61%	2.56%	2.84%	2.43%	2.01%	1.42%	0.93%	0.37%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ELO	5.82%	9.15%	7.20%	2.17%	1.48%	1.51%	1.65%	2.05%	No	No	Yes	Yes	Yes	No	No
EVM	4.66%	7.53%	5.21%	1.46%	0.97%	1.05%	1.08%	1.33%	No	No	Yes	Yes	Yes	No	No
FAR	0.87%	1.36%	1.40%	1.25%	1.02%	0.77%	0.51%	0.23%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FBL	6.14%	4.82%	8.56%	6.62%	6.36%	6.41%	7.79%	2.20%	No	No	No	No	No	No	No
FCM	2.71%	4.93%	4.71%	3.08%	2.44%	1.65%	1.00%	0.43%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FFM	2.81%	3.29%	3.39%	2.53%	2.28%	2.47%	2.67%	2.26%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FGN	10.50%	17.42%	5.24%	3.05%	2.10%	3.30%	3.58%	4.28%	No	No	Yes	Yes	Yes	Yes	No
FKA	8.03%	40.21%	20.40%	13.87%	10.83%	9.42%	1.60%	1.85%	No	No	No	No	No	Yes	No
FOZ	5.67%	9.27%	6.82%	2.03%	1.23%	1.12%	1.17%	1.38%	No	No	Yes	Yes	Yes	No	No
FRM	3.77%	4.43%	4.21%	4.09%	4.16%	3.37%	3.40%	3.71%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FSD	1.32%	2.21%	2.18%	1.83%	1.52%	1.09%	0.68%	0.21%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FSE	3.91%	6.10%	3.64%	1.66%	1.15%	1.11%	1.17%	1.35%	No	No	Yes	Yes	Yes	No	No
GDB	10.49%	55.73%	28.24%	19.12%	15.27%	12.46%	1.44%	1.61%	No	No	No	No	No	Yes	No
GFK	0.78%	1.38%	1.19%	1.01%	0.70%	0.47%	0.33%	0.19%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GHW	2.44%	3.73%	2.45%	1.32%	1.14%	1.19%	1.14%	1.31%	Yes	Yes	Yes	Yes	Yes	Yes	No
GNA	14.61%	26.93%	26.88%	20.54%	13.22%	9.60%	5.04%	1.47%	No	No	No	No	No	No	Yes
GPZ	3.93%	6.45%	5.52%	2.44%	2.54%	2.66%	1.86%	2.07%	No	No	Yes	Yes	Yes	Yes	Yes
GYL	12.55%	23.97%	19.25%	5.11%	2.77%	1.25%	1.14%	1.38%	No	No	No	Yes	Yes	No	No
HCD	4.74%	6.80%	5.61%	2.87%	2.16%	1.98%	2.16%	2.35%	No	No	Yes	Yes	Yes	No	No
HCO	4.41%	6.11%	3.84%	1.83%	2.11%	3.31%	3.23%	3.39%	No	No	Yes	Yes	Yes	Yes	Yes

Missing Data

03/07/2012

Call Sign	2000 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2010_Mi ssingDat a	2004_Mi ssingDat a	2005_Mi ssingDat a	2006_Mi ssingDat a	2007_Mi ssingDat a	2008_Mi ssingDat a	2009_Mi ssingDat a	2010_Mi ssingDat a	2004_Miss ingData_1 0%YN	2005_Miss ingData_1 0%YN	2006_Miss ingData_1 0%YN	2007_Miss ingData_1 0%YN	2008_Miss ingData_1 0%YN	2009_Miss ingData_1 0%YN	2010_Miss ingData_1 0%YN
HIB	3.29%	5.95%	4.93%	3.76%	3.26%	2.22%	1.21%	0.88%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HZX	9.04%	40.46%	20.52%	14.05%	10.92%	9.04%	1.18%	1.39%	No	No	No	No	No	No	No
ILL									No	No	No	No	No	No	No
INL	1.72%	2.75%	2.69%	2.44%	1.98%	1.50%	1.00%	0.52%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JKJ	6.70%	40.66%	20.99%	14.29%	11.01%	9.10%	1.08%	0.98%	No	No	No	No	No	Yes	Yes
JMR	5.74%	9.29%	6.78%	1.69%	1.19%	1.23%	1.31%	1.61%	No	No	Yes	Yes	Yes	No	No
LJF	6.04%	9.53%	7.32%	5.04%	4.73%	2.10%	1.68%	1.86%	No	No	No	No	Yes	No	No
LSE	2.06%	3.52%	3.72%	2.91%	2.35%	1.63%	1.01%	0.28%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LVN	3.59%	5.45%	5.35%	1.57%	1.09%	1.20%	1.27%	1.56%	No	No	Yes	Yes	Yes	No	No
LXL	5.83%	9.53%	8.26%	2.89%	1.41%	1.19%	1.21%	1.43%	No	No	Yes	Yes	Yes	No	No
LYV	3.57%		10.92%	5.93%	4.41%	3.57%	3.57%	1.11%	No	No	No	No	No	No	No
MIC	3.17%	6.06%	6.02%	3.21%	2.42%	1.60%	0.90%	0.28%	No	No	Yes	Yes	Yes	Yes	Yes
MJQ	3.21%	5.52%	3.93%	1.31%	1.07%	1.30%	1.35%	1.44%	No	No	Yes	Yes	Yes	Yes	Yes
MKT	3.95%	2.86%	3.80%	2.78%	5.06%	5.35%	5.17%	4.55%	Yes	Yes	Yes	No	No	No	No
MML	3.25%	3.51%	3.39%	3.32%	3.72%	3.48%	3.37%	3.35%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MOX	4.89%	8.43%	4.62%	1.49%	1.24%	1.92%	2.11%	2.27%	No	No	Yes	Yes	Yes	Yes	Yes
MSP	0.49%	0.26%	0.88%	0.86%	0.86%	0.82%	0.82%	0.18%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVE	3.18%	4.83%	2.94%	1.39%	1.08%	1.44%	1.52%	1.74%	No	Yes	Yes	Yes	Yes	Yes	No
MWM	2.99%	4.73%	4.23%	2.20%	1.62%	1.64%	1.26%	1.46%	No	No	Yes	Yes	Yes	Yes	No
MZH	12.72%	24.14%	19.39%	4.58%	2.44%	1.23%	1.29%	1.60%	No	No	No	Yes	Yes	No	No
ONA	5.97%	8.95%	7.96%	2.13%	2.15%	2.30%	2.25%	2.29%	No	No	Yes	Yes	Yes	No	No
ORB	6.82%	11.15%	7.93%	2.82%	1.72%	1.32%	1.41%	1.76%	No	No	Yes	Yes	Yes	No	No
OTG	7.33%	8.07%	8.39%	8.06%	8.00%	6.05%	6.41%	6.74%	No	No	No	No	No	No	No
OVL	7.32%	40.19%	20.27%	13.86%	10.73%	9.24%	1.49%	2.15%	No	No	No	No	No	Yes	Yes
OWA	4.59%	6.37%	5.29%	3.62%	2.74%	2.57%	2.36%	2.68%	No	No	Yes	Yes	Yes	No	No
PEX	23.80%		86.97%	46.44%	31.34%	23.80%	23.80%	2.74%	No	No	No	No	No	No	No
PKD	2.96%	5.42%	5.13%	3.75%	2.88%	1.69%	1.02%	0.49%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PQN	6.17%	7.23%	4.35%	2.01%	3.27%	4.09%	4.85%	5.91%	No	No	Yes	No	No	No	No
PWC	4.68%	7.11%	5.97%	2.19%	1.45%	1.49%	1.64%	1.43%	No	No	Yes	Yes	Yes	No	No
RGK	5.44%	8.66%	5.75%	2.17%	1.31%	1.34%	1.42%	1.45%	No	No	Yes	Yes	Yes	No	No
ROS	13.11%	24.43%	19.69%	4.82%	2.07%	1.61%	1.78%	2.14%	No	No	No	Yes	Yes	No	No
ROX	5.55%	8.62%	4.20%	2.51%	2.08%	1.94%	1.72%	2.15%	No	No	Yes	Yes	Yes	No	No
RRT	3.11%	4.78%	4.07%	2.26%	1.59%	1.55%	1.45%	1.63%	Yes	Yes	Yes	Yes	Yes	Yes	No
RST	0.81%	1.37%	1.41%	1.25%	0.91%	0.62%	0.40%	0.16%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RWF	1.92%	3.38%	3.05%	2.61%	2.14%	1.44%	0.84%	0.34%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAZ	3.93%	6.20%	4.73%	1.70%	1.16%	1.07%	1.09%	1.30%	No	No	Yes	Yes	Yes	No	No
SGS	5.52%	8.21%	6.73%	3.47%	2.41%	2.19%	2.16%	2.70%	No	No	Yes	Yes	Yes	No	No
STC	1.52%	2.57%	2.45%	2.14%	1.75%	1.26%	0.76%	0.26%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STP	5.28%	10.93%	10.05%	3.58%	2.23%	1.35%	0.62%	0.60%	No	No	Yes	Yes	Yes	Yes	Yes
SUW	1.86%			0.81%	2.02%	1.74%	1.83%	1.86%	No	No	No	No	No	No	Yes
TVF	4.40%	5.16%	5.20%	4.57%	5.38%	5.18%	3.64%	4.04%	Yes	Yes	Yes	Yes	Yes	Yes	No
ULM	5.03%	7.88%	4.17%	1.91%	1.50%	1.40%	1.48%	1.71%	No	No	Yes	Yes	Yes	No	No
VVV	4.99%	8.24%	3.68%	2.00%	1.64%	1.79%	1.73%	1.95%	No	Yes	Yes	Yes	Yes	Yes	No
XVG	11.86%	21.25%	17.22%	3.17%	2.30%	2.22%	2.48%	2.94%	No	No	Yes	Yes	Yes	No	No

Calm Hours

03/07/2012

Call Sign	USAF	Location	State	*Is Station Useable?	2000_Cal mHours	2001_Cal mHours	2002_Cal mHours	2003_Cal mHours	2004_Cal mHours	2005_Cal mHours	2006_Cal mHours	2007_Cal mHours	2008_Cal mHours	2009_Cal mHours	2010_Cal mHours	Station Type
ABR	726590	Aberdeen	SD	Useable	6.61%	5.72%	5.45%	5.30%	5.76%	6.87%	7.91%	7.01%	8.54%	8.14%		ASOS
ADC	726561	Wadena	MN	Caution			15.66%	15.10%	16.07%	17.51%	16.16%	14.04%	16.21%			AWOS IIIP/T
AEL	726589	Albert Lea	MN	Useable	13.62%	4.05%	12.30%	14.52%	14.23%	14.96%	14.44%	13.75%	15.38%	16.94%		AWOS IIIP/T
AIT	727504	Aitkin	MN	Not Useable	31.61%	10.36%	21.50%	25.28%	24.64%	28.82%	25.05%	22.77%	28.30%			AWOS IIIP/T
ANE	726577	Minneapolis/Blaine	MN	Caution	15.88%	5.01%	15.88%	16.36%	15.57%	16.62%	16.11%	15.10%	15.89%			AWOS IIIP
ATY	726546	Watertown	SD	Useable	7.01%	7.06%	5.98%	6.73%	6.41%	7.50%	9.96%	8.46%	10.12%	10.02%		ASOS
AXN	726557	Alexandria	MN	Useable	4.26%	4.55%	4.44%	3.94%	4.12%	5.05%	0.48%	0.26%	0.66%	0.71%	0.70%	ASOS
BBB	727507	Benson	MN	Caution	18.19%	4.94%	11.84%	12.86%	11.91%	16.05%	16.74%	17.72%	31.25%			AWOS IIIP/T
BDE	727476	Baudette	MN	Not Useable	13.33%	6.48%	11.03%	11.98%	11.74%	15.46%	14.60%	17.14%	18.04%			ASOS
BDH	720386	Willmar	MN	Not Useable												AWOS IIIP/T
BFW	727556	Silver Bay	MN	Not Useable	35.55%	13.58%	32.42%	35.49%	36.03%	38.37%	35.55%	34.89%	37.06%			AWOS IIIP/T
BJI	727550	Bemidji	MN	Useable	12.38%	3.86%	8.96%	9.65%	9.97%	12.19%	10.77%	10.77%	14.30%	15.13%		AWOS III
BRD	726555	Brainerd	MN	Useable	26.89%	8.73%	14.03%	15.79%	14.73%	14.86%	1.77%	1.12%	2.05%	2.28%	2.71%	ASOS
CBG	727503	Cambridge	MN	Not Useable	28.06%	10.53%	25.70%	27.22%	26.42%	29.30%	27.49%	29.86%	35.62%			AWOS IIIP/T
CKC	727454	Grand Marais Arpt	MN	Caution	15.57%	4.50%	12.45%	14.00%	14.12%	13.86%	16.94%	13.12%	14.04%			AWOS IIIP/T
CKN	727452	Crookston	MN	Useable	13.85%	2.56%	7.26%	7.54%	7.74%	10.11%	8.71%	7.33%	8.86%	9.43%		AWOS IIIP/T
COQ	726558	Cloquet	MN	Caution	22.78%	4.10%	14.38%	16.17%	16.08%	17.04%	14.54%	15.12%	15.96%			AWOS IIIP/T
CQM	726549	Cook	MN	Not Useable	36.40%	13.88%	30.81%	33.08%	30.63%	41.54%	33.54%	29.82%	34.61%			AWOS IIIP
DLH	727450	Duluth	MN	Useable	5.52%	5.47%	4.54%	5.58%	4.64%	5.22%	1.55%	0.87%	0.85%	0.34%	0.56%	ASOS
DTL	727457	Detroit Lakes	MN	Useable	10.42%	4.62%	10.09%	11.13%	10.67%	11.52%	12.37%	10.87%	12.57%	13.42%	14.33%	AWOS IIIP/T
DVP	720368	Slayton	MN	Not Useable						11.44%	8.23%	7.54%	7.88%			AWOS IIIP/T
DYT	727456	Duluth Sky Harbor	MN	Useable							13.89%	14.70%	12.93%	14.27%	14.82%	AWOS IIIP/T
EAU	726435	Eau Claire	WI	Useable	14.99%	15.27%	13.41%	14.57%	13.58%	15.36%	5.49%	1.84%	2.03%	1.37%	1.59%	ASOS
ELO	727459	Ely	MN	Not Useable	33.65%	14.48%	26.67%	30.27%	29.21%	32.13%	28.87%	25.23%	26.99%			AWOS IIIP
EVM	727474	Eveleth	MN	Not Useable	24.53%	9.71%	21.46%	25.29%	23.66%	26.20%	23.42%	21.74%	24.72%			AWOS IIIP/T
FAR	727530	Fargo	ND	Useable	5.76%	4.79%	4.26%	4.50%	4.54%	5.60%	0.56%	0.33%	0.59%	0.19%	0.29%	ASOS
FBL	726563	Faribault	MN	Not Useable	14.50%	4.74%	12.73%	16.11%	14.38%	14.93%	16.91%	15.28%	17.17%			AWOS IIIP/T
FCM	726579	Flying Cloud Arpt.	MN	Useable	6.15%	1.90%	6.03%	6.75%	6.93%	6.88%	2.01%	0.82%	0.88%	0.32%	0.41%	ASOS
FFM	726560	Fergus Falls	MN	Useable	9.20%	3.71%	7.45%	9.56%	8.20%	9.43%	10.05%	10.22%	11.52%	12.39%	12.21%	AWOS IIIP
FGN	727467	Flag Island	MN	Useable	12.86%	7.27%	10.02%	12.24%	12.01%	13.01%	14.30%	13.36%	12.09%	12.38%		AWOS IIIP
FKA	720283	Preston	MN	Useable					8.34%	8.52%	5.62%	7.28%	6.78%	9.30%		AWOS IIIP/T
FOZ	727468	Bigfork	MN	Not Useable	34.34%	13.29%	23.98%	28.71%	29.28%	31.90%	27.69%	26.74%	29.18%			AWOS IIIP
FRM	726586	Fairmont	MN	Useable	10.88%	3.05%	5.88%	6.10%	7.10%	6.65%	6.00%	5.87%	6.76%	6.28%	6.60%	AWOS III
FSD	726510	Sioux Falls	SD	Useable	10.57%	10.60%	10.26%	10.42%	9.31%	9.67%	2.31%	1.07%	1.71%	0.90%	0.79%	ASOS
FSE	727505	Fosston	MN	Caution	14.08%	4.45%	10.33%	21.56%	14.39%	16.18%	13.23%	13.01%	16.49%			AWOS IIIP/T
GDB	722033	Granite Falls	MN	Useable					8.00%	8.58%	9.86%	6.69%	8.29%	9.81%		AWOS IIIP/T
GFK	727576	Grand Forks	ND	Useable	4.28%	4.92%	4.20%	5.26%	6.06%	7.03%	0.55%	0.37%	0.27%	0.16%	0.23%	ASOS
GHW	726547	Glenwood	MN	Useable	5.75%	2.49%	5.70%	5.01%	5.61%	10.28%	6.70%	5.21%	6.37%	7.12%		AWOS IIIP/T
GNA	727469	Grand Marais	MN	Useable	21.09%	7.20%	23.92%	22.70%	23.74%	32.65%	12.37%	3.71%	2.25%	0.91%	1.71%	ASOS
GPZ	727458	Grand Rapids	MN	Useable	14.27%	4.35%	11.23%	13.79%	12.68%	14.79%	12.75%	12.43%	16.03%	16.44%	19.63%	AWOS III
GYL	727517	Glencoe	MN	Caution		0.00%	12.97%	20.80%	15.49%	16.99%	16.57%	16.23%	17.68%			AWOS IIIP/T
HCD	726569	Hutchinson	MN	Caution	13.44%	4.91%	12.68%	14.48%	14.07%	14.85%	15.42%	12.59%	14.50%			AWOS IIIP/T
HCO	727478	Hallock	MN	Useable	8.38%	3.21%	6.97%	7.10%	8.32%	8.30%	8.73%	7.98%	8.69%	10.75%	11.30%	AWOS IIIP/T



Call Sign	USAF	Location	State	*Is Station Useable?	2000_Cal mHours	2001_Cal mHours	2002_Cal mHours	2003_Cal mHours	2004_Cal mHours	2005_Cal mHours	2006_Cal mHours	2007_Cal mHours	2008_Cal mHours	2009_Cal mHours	2010_Cal mHours	Station Type
HIB	727455	Hibbing	MN	Useable	19.34%	21.14%	19.44%	19.87%	18.89%	7.00%	3.52%	2.36%	3.20%	2.72%	2.97%	ASOS
HZX	720258	McGregor	MN	Not Useable					20.23%	21.45%	18.66%	18.22%	20.04%			AWOS IIIP/T
ILL	726576	Willmar	MN	Not Useable												
INL	727470	International Falls	MN	Useable	11.89%	12.53%	10.94%	11.79%	10.60%	11.58%	4.03%	1.47%	2.16%	2.13%	2.49%	ASOS
JKJ	722129	Moorhead	MN	Useable					27.44%	16.55%	10.33%	8.85%	12.10%	10.67%	13.81%	AWOS IIIP/T
JMR	727475	Mora	MN	Not Useable	28.59%	11.50%	29.26%	32.05%	31.40%	29.80%	25.67%	24.36%	28.64%			AWOS IIIP/T
LJF	726583	Litchfield	MN	Caution	36.13%	8.81%	14.20%	15.92%	15.78%	17.75%	16.36%	14.48%	17.96%			AWOS IIIP/T
LSE	726430	La Crosse	WI	Useable	6.32%	9.90%	7.92%	9.68%	9.65%	10.87%	2.15%	0.61%	0.83%	0.45%	0.82%	ASOS
LVN	726562	Airlake	MN	Not Useable	18.10%	7.52%	23.26%	26.69%	19.60%	22.37%	21.80%	28.46%	28.07%			AWOS IIIP/T
LXL	726578	Little Falls	MN	Not Useable	27.46%	11.28%	26.15%	27.21%	26.13%	28.47%	27.42%	25.12%	29.01%			AWOS IIIP/T
LYV	722006	Luverne	MN	Not Useable						16.35%	16.86%	16.48%	18.72%			AWOS IIIP/T
MIC	726575	Minneapolis/Crystal	MN	Useable	12.46%	3.49%	10.91%	13.21%	12.77%	13.29%	6.84%	2.24%	1.80%	1.93%	2.80%	ASOS
MJQ	726593	Jackson	MN	Useable	5.30%	1.53%	5.83%	6.60%	7.10%	6.98%	7.77%	6.30%	7.83%	8.03%	8.58%	AWOS IIIP/T
MKT	726585	Mankato	MN	Useable	17.29%	2.63%	5.79%	6.95%	5.36%	6.18%	4.85%	4.13%	5.59%	5.98%	8.65%	AWOS III
MML	726559	Marshall	MN	Useable	6.75%	2.63%	4.45%	5.05%	5.22%	6.12%	4.87%	4.97%	5.70%	6.61%	7.73%	AWOS III
MOX	726565	Morris	MN	Useable	7.38%	5.48%	6.69%	6.01%	7.30%	7.56%	7.37%	6.27%	8.22%	7.56%	9.76%	AWOS IIIP/T
MSP	726580	Minneapolis/St. Paul Int'l Arpt	MN	Useable	1.37%	3.89%	1.84%	1.46%	1.63%	6.37%	1.60%	0.47%	0.55%	0.27%	0.29%	ASOS
MVE	726553	Montevideo	MN	Useable	9.44%	3.32%	8.18%	8.22%	8.69%	8.90%	9.00%	7.33%	9.81%	25.34%		AWOS IIIP/T
MWM	727506	Windom	MN	Useable	10.02%	2.58%	9.59%	9.47%	9.32%	9.54%	10.50%	9.05%	16.77%	11.64%		AWOS IIIP
MZH	727449	Moose Lake	MN	Not Useable		0.00%	30.61%	28.55%	25.66%	28.35%	25.82%	30.84%	34.33%			AWOS IIIP/T
ONA	726588	Winona	MN	Not Useable	25.65%	10.37%	24.03%	28.23%	27.57%	29.40%	29.25%	27.08%	28.84%			AWOS IIIP/T
ORB	726544	Orr	MN	Not Useable	34.49%	13.38%	26.85%	30.27%	28.21%	32.87%	30.99%	26.70%	30.87%			AWOS IIIP/T
OTG	726587	Worthington	MN	Not Useable	3.91%	2.05%	4.84%	4.20%	4.82%	4.74%	5.42%	4.94%	4.79%			AWOS III
OVL	722168	Olivia	MN	Useable					12.24%	9.68%	9.58%	6.83%	9.35%	11.94%	12.85%	AWOS IIIP/T
OWA	726568	Owatonna	MN	Caution	14.52%	3.50%	13.77%	27.99%	13.14%	15.73%	15.61%	13.98%	14.43%			AWOS IIIP
PEX	720367	Paynesville	MN	Not Useable						19.19%	14.40%	12.61%	15.56%			AWOS IIIP/T
PKD	727453	Park Rapids	MN	Useable	10.09%	4.59%	8.26%	8.99%	8.74%	11.86%	4.82%	1.13%	1.35%	0.72%	1.24%	ASOS
PQN	726566	Pipestone	MN	Not Useable	17.01%	9.32%	12.42%	19.30%	10.01%	14.75%	26.61%	8.75%	20.79%			AWOS IIIP
PWC	727508	Pine River	MN	Not Useable	28.88%	11.02%	23.79%	25.21%	23.97%	27.53%	23.90%	28.63%	39.56%			AWOS IIIP
RGK	726564	Red Wing	WI	Not Useable	23.21%	8.80%	22.94%	23.73%	22.96%	24.34%	22.29%	21.76%	23.64%			AWOS IIIP/T
ROS	726679	Rush City	MN	Caution		0.00%	16.68%	17.30%	17.70%	19.51%	18.86%	18.34%	20.83%			AWOS IIIP/T
ROX	727477	Roseau	MN	Caution	12.05%	14.01%	9.01%	10.93%	13.67%	15.53%	13.33%	11.29%	12.14%			AWOS IIIP/T
RRT	726548	Warroad	MN	Useable	10.47%	4.17%	9.34%	11.50%	11.01%	11.36%	11.31%	11.92%	11.80%	13.08%		AWOS IIIP/T
RST	726440	Rochester	MN	Useable	2.22%	2.10%	2.35%	2.08%	3.55%	3.01%	0.56%	0.73%	0.07%	0.06%	0.16%	ASOS
RWF	726556	Redwood Falls	MN	Useable	8.93%	6.13%	5.34%	5.50%	5.29%	6.19%	0.49%	0.25%	0.20%	0.21%	0.18%	ASOS
SAZ	727514	Staples	MN	Not Useable	20.77%	6.28%	16.53%	18.16%	17.20%	20.08%	19.56%	16.53%	20.09%			AWOS IIIP
SGS	726603	South St. Paul	MN	Not Useable	24.11%	8.95%	28.71%	24.85%	22.83%	25.38%	23.15%	18.44%	20.55%			AWOS IIIP/T
STC	726550	St. Cloud	MN	Useable	11.59%	11.12%	11.15%	11.69%	11.19%	12.39%	3.41%	1.03%	1.34%	1.02%	1.02%	ASOS
STP	726584	St. Paul Downtown Arpt	MN	Useable	12.27%	4.18%	12.15%	13.09%	12.81%	4.67%	7.17%	0.79%	1.20%	1.27%	1.93%	ASOS
SUW	726427	Superior	WI	Not Useable							19.41%	19.52%	20.32%	20.02%	21.88%	AWOS IIIP
TVF	727555	Thief River Falls	MN	Useable	8.23%	2.41%	6.89%	7.59%	6.04%	5.49%	5.59%	6.13%	6.38%	7.45%		AWOS III
ULM	726567	New Ulm Mun. Arpt	MN	Caution	9.28%	4.08%	8.50%	9.51%	8.89%	16.96%	13.35%	10.66%	12.72%			AWOS IIIP
VVV	727515	Ortonville	MN	Useable	10.62%	4.52%	8.78%	17.79%	9.92%	11.88%	10.32%	8.68%	11.59%	10.83%		AWOS IIIP
XVG	727497	Longville	MN	Not Useable		0.00%	28.18%	31.10%	29.82%	35.99%	34.21%	30.81%	33.94%			AWOS IIIP

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Call Sign	2000 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2010_Ca ImHours	2004_Ca ImHours	2005_Ca ImHours	2006_Ca ImHours	2007_Ca ImHours	2008_Ca ImHours	2009_Ca ImHours	2004_CalmH ours_25%YN	2005_CalmH ours_25%YN	2006_CalmH ours_25%YN	2007_CalmH ours_25%YN	2008_CalmH ours_25%YN	2009_CalmH ours_25%YN	2010_CalmH ours_25%YN
ABR	6.73%	5.77%	5.82%	6.26%	6.57%	7.22%	7.69%	Yes	Yes	Yes	Yes	Yes	Yes	No
ADC	15.82%	15.61%	16.09%	16.10%	15.78%	16.00%	15.98%	No	No	Yes	Yes	Yes	No	No
AEL	13.42%	11.74%	12.01%	14.09%	14.38%	14.55%	15.09%	Yes	Yes	Yes	Yes	Yes	Yes	No
AIT	24.26%	22.68%	22.12%	25.06%	25.31%	25.92%	26.24%	No	No	No	No	No	No	No
ANE	14.71%	13.74%	13.89%	16.11%	15.95%	15.86%	15.93%	Yes	Yes	Yes	Yes	Yes	No	No
ATY	7.93%	6.64%	6.74%	7.32%	7.81%	8.49%	9.21%	Yes	Yes	Yes	Yes	Yes	Yes	No
AXN	2.65%	4.26%	4.42%	3.61%	2.77%	2.11%	1.43%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BBB	15.72%	11.95%	11.52%	13.88%	15.06%	18.73%	20.44%	Yes	Yes	Yes	Yes	No	No	No
BDE	13.31%	10.91%	11.34%	12.96%	14.18%	15.40%	16.31%	Yes	Yes	Yes	Yes	Yes	No	No
BDH								No	No	No	No	No	No	No
BFW	33.22%	30.61%	31.18%	35.57%	36.07%	36.38%	36.47%	No	No	No	No	No	No	No
BJI	10.80%	8.96%	8.93%	10.31%	10.67%	11.60%	12.63%	Yes	Yes	Yes	Yes	Yes	Yes	No
BRD	9.54%	16.03%	13.63%	12.24%	9.65%	6.91%	4.42%	No	Yes	Yes	Yes	Yes	Yes	Yes
CBG	26.69%	23.59%	23.83%	27.23%	28.06%	29.74%	30.57%	No	No	No	No	No	No	No
CKC	13.18%	12.13%	11.79%	14.27%	14.41%	14.42%	14.49%	Yes	Yes	Yes	Yes	Yes	No	No
CKN	8.34%	7.79%	7.04%	8.27%	8.29%	8.55%	8.89%	Yes	Yes	Yes	Yes	Yes	Yes	No
COQ	15.13%	14.70%	13.55%	15.64%	15.79%	15.75%	15.67%	Yes	Yes	Yes	Yes	Yes	No	No
CQM	31.59%	28.96%	29.99%	33.92%	33.72%	34.03%	34.88%	No	No	No	No	No	No	No
DLH	3.19%	5.15%	5.09%	4.31%	3.57%	2.63%	1.77%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DTL	11.09%	9.39%	9.61%	11.16%	11.31%	11.60%	12.15%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVP	8.77%		11.44%	9.84%	9.07%	8.77%	8.77%	No	No	No	No	No	No	No
DYT	14.12%			13.89%	14.30%	13.84%	13.95%	No	No	No	No	No	No	Yes
EAU	9.05%	14.36%	14.44%	12.48%	10.17%	7.66%	5.22%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ELO	27.50%	26.86%	26.55%	29.43%	29.14%	28.49%	28.31%	No	No	No	No	No	No	No
EVM	22.30%	20.93%	21.26%	24.01%	24.06%	23.95%	24.02%	No	No	No	No	No	No	No
FAR	2.86%	4.77%	4.74%	3.89%	3.11%	2.32%	1.45%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FBL	14.08%	12.49%	12.58%	15.01%	15.52%	15.73%	16.07%	Yes	Yes	Yes	Yes	Yes	No	No
FCM	3.55%	5.55%	5.70%	5.72%	4.68%	3.50%	2.18%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FFM	9.45%	7.62%	7.67%	8.94%	9.49%	9.88%	10.72%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FGN	11.95%	10.88%	10.91%	12.32%	12.98%	12.95%	13.03%	Yes	Yes	Yes	Yes	Yes	Yes	No
FKA	7.64%	8.34%	8.43%	7.49%	7.44%	7.31%	7.50%	No	No	No	No	Yes	Yes	No
FOZ	27.23%	25.92%	25.43%	28.31%	28.86%	28.96%	28.88%	No	No	No	No	No	No	No
FRM	6.47%	6.60%	5.76%	6.35%	6.34%	6.48%	6.31%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FSD	6.15%	10.23%	10.05%	8.39%	6.56%	4.81%	3.13%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FSE	13.75%	12.96%	13.38%	15.14%	15.67%	14.66%	14.73%	Yes	Yes	Yes	Yes	Yes	No	No
GDB	8.54%	8.00%	8.29%	8.81%	8.28%	8.28%	8.65%	No	No	No	No	Yes	Yes	No
GFK	3.03%	4.94%	5.49%	4.62%	3.85%	2.86%	1.68%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GHW	6.02%	4.91%	5.82%	6.66%	6.56%	6.83%	7.14%	Yes	Yes	Yes	Yes	Yes	Yes	No
GNA	13.84%	19.73%	22.04%	23.08%	19.03%	14.94%	10.38%	Yes	No	No	No	No	No	Yes
GPZ	13.49%	11.26%	11.37%	13.05%	13.29%	13.74%	14.49%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GYL	14.59%	12.32%	13.25%	16.56%	17.22%	16.59%	16.87%	No	Yes	Yes	Yes	Yes	No	No
HCD	12.99%	11.92%	12.20%	14.30%	14.28%	14.29%	14.34%	Yes	Yes	Yes	Yes	Yes	No	No
HCO	8.16%	6.80%	6.78%	7.88%	8.09%	8.40%	8.89%	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Call Sign	2000 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2010_Ca	2004_Ca	2005_Ca	2006_Ca	2007_Ca	2008_Ca	2009_Ca	2004_CalmH	2005_CalmH	2006_CalmH	2007_CalmH	2008_CalmH	2009_CalmH	2010_CalmH
	ImHours	ImHours	ImHours	ImHours	ImHours	ImHours	ImHours	ours_25%YN	ours_25%YN	ours_25%YN	ours_25%YN	ours_25%YN	ours_25%YN	ours_25%YN
HIB	10.95%	19.74%	17.27%	13.74%	10.33%	6.99%	3.76%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HZX	19.72%	20.23%	20.84%	20.11%	19.64%	19.72%	19.59%	No	No	No	No	Yes	No	No
ILL								No	No	No	No	No	No	No
INL	7.42%	11.55%	11.49%	9.79%	7.89%	5.97%	4.27%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JKJ	14.25%	27.44%	22.00%	18.11%	15.79%	15.05%	11.70%	No	No	No	No	No	Yes	Yes
JMR	26.81%	26.56%	26.80%	29.64%	28.66%	27.97%	27.12%	No	No	No	No	No	No	No
LJF	17.49%	18.17%	14.49%	16.00%	16.06%	16.47%	16.64%	No	Yes	Yes	Yes	Yes	No	No
LSE	5.38%	8.69%	9.60%	8.05%	6.59%	4.82%	2.98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LVN	21.76%	19.03%	19.89%	22.74%	23.78%	24.06%	25.18%	No	No	No	No	No	No	No
LXL	25.36%	23.65%	23.85%	27.08%	26.87%	27.23%	27.51%	No	No	No	No	No	No	No
LYV	17.10%		16.35%	16.61%	16.56%	17.10%	17.10%	No	No	No	No	No	No	No
MIC	7.43%	10.57%	10.73%	11.40%	9.67%	7.39%	5.22%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MJQ	6.53%	5.27%	5.61%	6.86%	6.95%	7.20%	7.38%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MKT	6.67%	7.60%	5.38%	5.83%	5.49%	5.22%	5.35%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MML	5.46%	4.82%	4.69%	5.14%	5.25%	5.38%	5.65%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MOX	7.24%	6.57%	6.61%	6.99%	6.90%	7.34%	7.40%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MSP	1.79%	2.04%	3.04%	2.58%	2.31%	2.12%	1.85%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVE	9.82%	7.57%	7.46%	8.60%	8.43%	8.75%	12.08%	Yes	Yes	Yes	Yes	Yes	No	No
MWM	9.85%	8.20%	8.10%	9.68%	9.58%	11.04%	11.50%	Yes	Yes	Yes	Yes	Yes	Yes	No
MZH	25.52%	21.21%	22.63%	27.80%	27.84%	29.00%	29.84%	No	No	No	No	No	No	No
ONA	25.60%	23.17%	23.92%	28.31%	28.31%	28.43%	28.64%	No	No	No	No	No	No	No
ORB	28.29%	26.64%	26.32%	29.84%	29.81%	29.93%	30.36%	No	No	No	No	No	No	No
OTG	4.41%	3.96%	4.13%	4.80%	4.82%	4.94%	4.97%	Yes	Yes	Yes	Yes	Yes	No	No
OVL	10.35%	12.24%	10.96%	10.50%	9.58%	9.54%	9.48%	No	No	No	No	Yes	Yes	Yes
OWA	14.74%	14.58%	14.83%	17.25%	17.29%	14.58%	14.94%	No	No	No	No	Yes	No	No
PEX	15.44%		19.19%	16.80%	15.40%	15.44%	15.44%	No	No	No	No	No	No	No
PKD	5.62%	8.13%	8.49%	8.53%	7.11%	5.58%	3.98%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PQN	15.44%	13.61%	13.16%	16.62%	15.88%	16.18%	17.73%	Yes	Yes	No	No	No	No	No
PWC	25.83%	22.57%	22.30%	24.88%	25.85%	28.72%	29.91%	No	No	No	No	No	No	No
RGK	21.52%	20.33%	20.55%	23.25%	23.02%	23.00%	23.01%	Yes	Yes	Yes	Yes	Yes	No	No
ROS	16.15%	12.92%	14.24%	18.01%	18.34%	19.05%	19.39%	No	Yes	Yes	Yes	Yes	No	No
ROX	12.44%	11.93%	12.63%	12.49%	12.95%	13.19%	13.07%	Yes	Yes	Yes	Yes	Yes	No	No
RRT	10.60%	9.30%	9.48%	10.90%	11.42%	11.48%	11.89%	Yes	Yes	Yes	Yes	Yes	Yes	No
RST	1.54%	2.46%	2.62%	2.31%	1.99%	1.58%	0.89%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RWF	3.52%	6.24%	5.69%	4.56%	3.54%	2.48%	1.47%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAZ	17.24%	15.79%	15.65%	18.31%	18.31%	18.69%	19.07%	Yes	Yes	Yes	Yes	Yes	No	No
SGS	21.89%	21.89%	22.14%	24.98%	22.93%	22.07%	21.88%	No	No	No	No	No	No	No
STC	7.00%	11.35%	11.51%	9.97%	7.94%	5.87%	3.84%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STP	6.50%	10.90%	9.38%	9.98%	7.71%	5.33%	3.02%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUW	20.23%			19.41%	19.47%	19.75%	19.82%	No	No	No	No	No	No	Yes
TVF	6.22%	6.23%	5.68%	6.32%	6.17%	5.93%	6.21%	Yes	Yes	Yes	Yes	Yes	Yes	No
ULM	10.44%	8.05%	9.59%	11.44%	11.87%	12.52%	13.42%	Yes	Yes	Yes	Yes	Yes	No	No
VVV	10.49%	10.33%	10.58%	11.74%	11.72%	10.48%	10.66%	Yes	Yes	Yes	Yes	Yes	Yes	No
XVG	28.01%	22.28%	25.02%	31.86%	32.39%	32.95%	33.74%	No	No	No	No	No	No	No

Calm Hours

03/07/2012

Call Sign	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2004_CalmH ours_20%YN	2005_CalmH ours_20%YN	2006_CalmH ours_20%YN	2007_CalmH ours_20%YN	2008_CalmH ours_20%YN	2009_CalmH ours_20%YN	2010_CalmH ours_20%YN	2004_CalmH ours_15%YN	2005_CalmH ours_15%YN	2006_CalmH ours_15%YN	2007_CalmH ours_15%YN	2008_CalmH ours_15%YN	2009_CalmH ours_15%YN	2010_CalmH ours_15%YN
ABR	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
ADC	No	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
AEL	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	No
AIT	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ANE	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
ATY	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
AXN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BBB	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No
BDE	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No	No	No	No
BDH	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BFW	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BJI	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No
BRD	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes
CBG	No	No	No	No	No	No	No	No	No	No	No	No	No	No
CKC	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No	No	No	No	No
CKN	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
COQ	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
CQM	No	No	No	No	No	No	No	No	No	No	No	No	No	No
DLH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DTL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVP	No	No	No	No	No	No	No	No	No	No	No	No	No	No
DYT	No	No	No	No	No	No	Yes	No	No	No	No	No	No	Yes
EAU	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
ELO	No	No	No	No	No	No	No	No	No	No	No	No	No	No
EVM	No	No	No	No	No	No	No	No	No	No	No	No	No	No
FAR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FBL	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
FCM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FFM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FGN	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
FKA	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	Yes	No
FOZ	No	No	No	No	No	No	No	No	No	No	No	No	No	No
FRM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FSD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FSE	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
GDB	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	Yes	No
GFK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GHW	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
GNA	No	No	No	No	No	No	Yes	No	No	No	No	No	No	Yes
GPZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
GYL	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
HCD	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	No	No
HCO	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



Calm Hours

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Call Sign	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2004_CalmH ours_20%YN	2005_CalmH ours_20%YN	2006_CalmH ours_20%YN	2007_CalmH ours_20%YN	2008_CalmH ours_20%YN	2009_CalmH ours_20%YN	2010_CalmH ours_20%YN	2004_CalmH ours_15%YN	2005_CalmH ours_15%YN	2006_CalmH ours_15%YN	2007_CalmH ours_15%YN	2008_CalmH ours_15%YN	2009_CalmH ours_15%YN	2010_CalmH ours_15%YN
HIB	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
HZX	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ILL	No	No	No	No	No	No	No	No	No	No	No	No	No	No
INL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JKJ	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	Yes
JMR	No	No	No	No	No	No	No	No	No	No	No	No	No	No
LJF	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
LSE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LVN	No	No	No	No	No	No	No	No	No	No	No	No	No	No
LXL	No	No	No	No	No	No	No	No	No	No	No	No	No	No
LYV	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MIC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MJQ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MKT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MML	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MOX	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MSP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVE	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No
MWM	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	No
MZH	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ONA	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ORB	No	No	No	No	No	No	No	No	No	No	No	No	No	No
OTG	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No
OVL	No	No	No	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes
OWA	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
PEX	No	No	No	No	No	No	No	No	No	No	No	No	No	No
PKD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PQN	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No
PWC	No	No	No	No	No	No	No	No	No	No	No	No	No	No
RGK	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ROS	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No
ROX	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No	No	No	No
RRT	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
RST	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RWF	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAZ	No	No	No	No	No	No	No	No	No	No	No	No	No	No
SGS	No	No	No	No	No	No	No	No	No	No	No	No	No	No
STC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUW	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TVF	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
ULM	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No	No	No	No
VVV	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	No
XVG	No	No	No	No	No	No	No	No	No	No	No	No	No	No

<u>Call Sign</u>	<u>2000 - 2004_CalmH ours_10%YN</u>	<u>2001 - 2005_CalmH ours_10%YN</u>	<u>2002 - 2006_CalmH ours_10%YN</u>	<u>2003 - 2007_CalmH ours_10%YN</u>	<u>2004 - 2008_CalmH ours_10%YN</u>	<u>2005 - 2009_CalmH ours_10%YN</u>	<u>2006 - 2010_CalmH ours_10%YN</u>
ABR	Yes	Yes	Yes	Yes	Yes	Yes	No
ADC	No	No	No	No	No	No	No
AEL	No	No	No	No	No	No	No
AIT	No	No	No	No	No	No	No
ANE	No	No	No	No	No	No	No
ATY	Yes	Yes	Yes	Yes	No	No	No
AXN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BBB	No	No	No	No	No	No	No
BDE	No	No	No	No	No	No	No
BDH	No	No	No	No	No	No	No
BFW	No	No	No	No	No	No	No
BJI	No	No	No	No	No	No	No
BRD	No	No	No	No	No	No	Yes
CBG	No	No	No	No	No	No	No
CKC	No	No	No	No	No	No	No
CKN	No	No	No	No	No	No	No
COQ	No	No	No	No	No	No	No
CQM	No	No	No	No	No	No	No
DLH	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DTL	No	No	No	No	No	No	No
DVP	No	No	No	No	No	No	No
DYT	No	No	No	No	No	No	No
EAU	No	No	No	No	No	No	Yes
ELO	No	No	No	No	No	No	No
EVM	No	No	No	No	No	No	No
FAR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FBL	No	No	No	No	No	No	No
FCM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FFM	Yes	Yes	No	No	No	No	No
FGN	No	No	No	No	No	No	No
FKA	No	No	No	No	Yes	Yes	No
FOZ	No	No	No	No	No	No	No
FRM	No	Yes	Yes	Yes	Yes	Yes	Yes
FSD	No	No	No	No	Yes	Yes	Yes
FSE	No	No	No	No	No	No	No
GDB	No	No	No	No	Yes	Yes	No
GFK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GHW	Yes	No	No	No	No	No	No
GNA	No	No	No	No	No	No	No
GPZ	No	No	No	No	No	No	No
GYL	No	No	No	No	No	No	No
HCD	No	No	No	No	No	No	No
HCO	Yes	Yes	Yes	Yes	Yes	No	No

Call Sign	2000 - 2004_CalmH ours_10%YN	2001 - 2005_CalmH ours_10%YN	2002 - 2006_CalmH ours_10%YN	2003 - 2007_CalmH ours_10%YN	2004 - 2008_CalmH ours_10%YN	2005 - 2009_CalmH ours_10%YN	2006 - 2010_CalmH ours_10%YN
HIB	No	No	No	No	No	Yes	Yes
HZX	No	No	No	No	No	No	No
ILL	No	No	No	No	No	No	No
INL	No	No	No	No	No	No	Yes
JKJ	No	No	No	No	No	No	No
JMR	No	No	No	No	No	No	No
LJF	No	No	No	No	No	No	No
LSE	Yes	No	No	No	No	No	Yes
LVN	No	No	No	No	No	No	No
LXL	No	No	No	No	No	No	No
LYV	No	No	No	No	No	No	No
MIC	No	No	No	No	No	No	Yes
MJQ	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MKT	No	Yes	Yes	Yes	Yes	Yes	Yes
MML	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MOX	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MSP	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVE	Yes	Yes	Yes	Yes	Yes	No	No
MWM	No	Yes	No	No	No	No	No
MZH	No	No	No	No	No	No	No
ONA	No	No	No	No	No	No	No
ORB	No	No	No	No	No	No	No
OTG	Yes	Yes	Yes	Yes	Yes	No	No
OVL	No	No	No	No	No	No	No
OWA	No	No	No	No	No	No	No
PEX	No	No	No	No	No	No	No
PKD	No	No	No	No	No	No	Yes
PQN	No	No	No	No	No	No	No
PWC	No	No	No	No	No	No	No
RGK	No	No	No	No	No	No	No
ROS	No	No	No	No	No	No	No
ROX	No	No	No	No	No	No	No
RRT	No	No	No	No	No	No	No
RST	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RWF	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAZ	No	No	No	No	No	No	No
SGS	No	No	No	No	No	No	No
STC	No	No	No	No	No	No	Yes
STP	No	No	No	No	No	Yes	Yes
SUW	No	No	No	No	No	No	No
TVF	Yes	Yes	Yes	Yes	Yes	Yes	No
ULM	Yes	No	No	No	No	No	No
VVV	No	No	No	No	No	No	No
XVG	No	No	No	No	No	No	No

Call Sign	USAF	Location	State	*Is Station Useable?	2000_Mi ss+Calm	2001_Mi ss+Calm	2002_Mi ss+Calm	2003_Mi ss+Calm	2004_Mi ss+Calm	2005_Mi s+Calm	2006_Mi ss+Calm	2007_Mi ss+Calm	2008_Mi ss+Calm	2009_Mi ss+Calm	2010_Mi ss+Calm
ABR	726590	Aberdeen	SD	Useable	8.06%	6.77%	6.98%	6.81%	7.79%	8.48%	10.04%	9.73%	11.31%	9.94%	
ADC	726561	Wadena	MN	Caution			49.05%	16.68%	17.24%	18.27%	17.60%	16.73%	17.92%		
AEL	726589	Albert Lea	MN	Useable	17.65%	15.92%	15.70%	16.43%	15.85%	15.77%	16.71%	15.79%	18.48%	23.21%	
AIT	727504	Aitkin	MN	Not Useable	36.04%	30.69%	26.02%	26.94%	26.54%	29.36%	26.79%	25.81%	30.51%		
ANE	726577	Minneapolis/Blaine	MN	Caution	22.19%	22.78%	21.95%	20.07%	17.72%	20.82%	24.92%	24.24%	21.22%		
ATY	726546	Watertown	SD	Useable	8.85%	8.89%	7.18%	8.25%	8.78%	8.86%	12.76%	12.65%	13.41%	12.71%	
AXN	726557	Alexandria	MN	Useable	5.55%	5.73%	7.23%	5.76%	6.08%	6.41%	2.69%	1.55%	1.09%	1.00%	2.49%
BBB	727507	Benson	MN	Caution	25.12%	16.16%	15.25%	14.97%	12.97%	17.73%	17.94%	19.84%	33.08%		
BDE	727476	Baudette	MN	Not Useable	21.30%	23.71%	24.50%	25.05%	22.42%	26.51%	27.40%	25.61%	25.46%		
BDH	720386	Willmar	MN	Not Useable											
BFW	727556	Silver Bay	MN	Not Useable	41.05%	43.56%	38.30%	38.77%	37.20%	39.15%	36.50%	36.31%	38.77%		
BJI	727550	Bemidji	MN	Useable	14.44%	12.48%	11.78%	11.21%	12.47%	13.09%	14.67%	12.65%	15.58%	15.62%	
BRD	726555	Brainerd	MN	Useable	46.02%	34.85%	24.86%	23.85%	18.20%	19.20%	2.34%	1.98%	2.32%	2.74%	3.08%
CBG	727503	Cambridge	MN	Not Useable	36.83%	33.24%	30.03%	28.70%	27.35%	29.79%	30.26%	31.16%	37.76%		
CKC	727454	Grand Marais Arpt	MN	Caution	23.50%	14.99%	17.27%	15.76%	15.14%	14.34%	21.23%	15.47%	17.05%		
CKN	727452	Crookston	MN	Useable	27.31%	11.24%	11.10%	9.32%	10.22%	11.09%	10.16%	8.57%	11.34%	10.33%	
COQ	726558	Cloquet	MN	Caution	30.93%	16.75%	17.91%	17.43%	17.06%	17.46%	15.43%	16.42%	18.98%		
CQM	726549	Cook	MN	Not Useable	47.65%	41.57%	41.95%	40.12%	32.84%	46.60%	34.50%	31.02%	38.36%		
DLH	727450	Duluth	MN	Useable	6.89%	7.47%	5.75%	7.03%	5.74%	6.28%	1.79%	1.14%	1.23%	0.48%	0.70%
DTL	727457	Detroit Lakes	MN	Useable	22.69%	19.45%	15.89%	13.05%	11.59%	11.90%	13.16%	12.02%	13.86%	14.55%	16.21%
DVP	720368	Slayton	MN	Not Useable						97.97%	15.05%	9.34%	9.05%		
DYT	727456	Duluth Sky Harbor	MN	Useable							15.63%	16.70%	15.80%	18.30%	16.94%
EAU	726435	Eau Claire	WI	Useable	16.64%	17.76%	16.21%	17.80%	16.20%	18.40%	5.97%	2.50%	2.33%	1.52%	1.85%
ELO	727459	Ely	MN	Not Useable	43.83%	40.62%	32.80%	32.63%	30.14%	32.58%	29.87%	27.90%	29.48%		
EVM	727474	Eveleth	MN	Not Useable	36.45%	29.32%	25.33%	26.61%	24.58%	26.54%	24.26%	23.18%	26.43%		
FAR	727530	Fargo	ND	Useable	7.21%	5.86%	5.63%	5.90%	6.04%	7.27%	0.87%	0.56%	0.75%	0.37%	0.54%
FBL	726563	Faribault	MN	Not Useable	20.34%	16.81%	16.30%	17.81%	15.29%	39.48%	19.28%	17.55%	19.12%		
FCM	726579	Flying Cloud Arpt.	MN	Useable	10.25%	10.59%	10.12%	11.14%	10.32%	9.87%	2.54%	1.70%	1.34%	0.48%	0.55%
FFM	726560	Fergus Falls	MN	Useable	11.86%	11.70%	10.59%	11.12%	9.29%	12.58%	13.74%	12.13%	14.01%	14.50%	13.31%
FGN	727467	Flag Island	MN	Useable	74.53%	19.94%	17.06%	16.03%	13.92%	13.80%	16.02%	15.64%	21.90%	15.68%	
FKA	720283	Preston	MN	Useable					48.55%	9.11%	6.42%	9.00%	10.55%	10.40%	
FOZ	727468	Bigfork	MN	Not Useable	47.12%	38.11%	29.20%	31.32%	30.21%	32.41%	28.56%	27.96%	31.24%		
FRM	726586	Fairmont	MN	Useable	12.74%	11.08%	10.77%	12.40%	8.17%	7.43%	13.42%	11.09%	9.14%	7.50%	8.93%
FSD	726510	Sioux Falls	SD	Useable	13.12%	12.67%	12.12%	12.78%	11.51%	12.08%	2.61%	1.42%	1.91%	1.05%	0.82%
FSE	727505	Fosston	MN	Caution	27.00%	15.19%	14.11%	23.73%	15.28%	16.79%	14.10%	14.22%	18.47%		
GDB	722033	Granite Falls	MN	Useable					63.73%	9.33%	10.74%	10.39%	9.52%	10.43%	
GFK	727576	Grand Forks	ND	Useable	5.96%	6.12%	6.06%	6.60%	6.88%	7.78%	0.82%	0.71%	0.42%	0.31%	0.26%
GHW	726547	Glenwood	MN	Useable	12.65%	9.01%	8.25%	6.80%	6.52%	10.74%	7.58%	6.85%	8.43%	7.76%	
GNA	727469	Grand Marais	MN	Useable	39.98%	41.53%	62.58%	42.28%	46.92%	51.31%	15.00%	5.75%	3.74%	1.28%	2.55%
GPZ	727458	Grand Rapids	MN	Useable	19.56%	21.94%	14.69%	15.03%	17.35%	15.44%	14.93%	16.38%	17.86%	17.12%	21.34%
GYL	727517	Glencoe	MN	Caution		71.66%	25.82%	30.47%	17.17%	17.39%	17.52%	17.38%	19.73%		
HCD	726569	Hutchinson	MN	Caution	20.98%	19.53%	17.50%	20.26%	15.32%	16.45%	16.32%	13.86%	19.37%		
HCO	727478	Hallock	MN	Useable	20.65%	15.13%	10.23%	9.25%	9.26%	9.25%	10.58%	12.66%	16.84%	11.26%	13.08%

Call Sign	USAF	Location	State	*Is Station Useable?	2000_Mi ss+Calm	2001_Mi ss+Calm	2002_Mi ss+Calm	2003_Mi ss+Calm	2004_Mi ss+Calm	2005_Mi ss+Calm	2006_Mi ss+Calm	2007_Mi ss+Calm	2008_Mi ss+Calm	2009_Mi ss+Calm	2010_Mi ss+Calm
HIB	727455	Hibbing	MN	Useable	26.47%	27.56%	24.94%	25.41%	24.07%	8.99%	4.13%	5.33%	3.53%	2.88%	3.32%
HZX	720258	McGregor	MN	Not Useable					60.69%	22.02%	19.78%	19.75%	21.55%		
ILL	726576	Willmar	MN	Not Useable											
INL	727470	International Falls	MN	Useable	14.80%	15.16%	13.49%	14.78%	13.28%	14.16%	5.45%	1.69%	2.74%	2.35%	2.64%
JKJ	722129	Moorhead	MN	Useable					68.10%	17.86%	11.22%	10.01%	13.58%	11.24%	14.61%
JMR	727475	Mora	MN	Not Useable	41.56%	37.73%	33.75%	33.90%	32.31%	30.21%	26.46%	26.33%	30.70%		
LJF	726583	Litchfield	MN	Caution	48.35%	21.61%	18.12%	30.87%	19.55%	18.89%	17.78%	16.85%	19.76%		
LSE	726430	La Crosse	WI	Useable	9.01%	14.47%	11.09%	13.48%	13.00%	14.58%	2.65%	0.98%	1.05%	0.69%	0.87%
LVN	726562	Airlake	MN	Not Useable	19.01%	27.54%	27.22%	28.14%	20.50%	22.77%	22.95%	30.02%	30.05%		
LXL	726578	Little Falls	MN	Not Useable	34.37%	39.13%	34.86%	30.29%	27.22%	29.03%	28.45%	26.40%	30.98%		
LYV	722006	Luverne	MN	Not Useable						27.27%	17.80%	17.84%	19.76%		
MIC	726575	Minneapolis/Crystal	MN	Useable	15.83%	18.07%	15.36%	17.40%	16.50%	16.45%	7.38%	2.70%	1.90%	2.18%	2.87%
MJQ	726593	Jackson	MN	Useable	13.80%	15.51%	8.27%	7.90%	8.50%	7.51%	8.67%	7.53%	10.25%	9.71%	9.53%
MKT	726585	Mankato	MN	Useable	19.01%	10.00%	8.04%	8.39%	6.86%	12.60%	7.13%	17.81%	8.44%	6.60%	11.99%
MML	726559	Marshall	MN	Useable	8.81%	10.35%	7.42%	7.55%	7.52%	7.60%	12.22%	9.96%	7.00%	8.36%	9.08%
MOX	726565	Morris	MN	Useable	26.74%	21.95%	10.16%	7.93%	8.21%	7.89%	8.21%	8.45%	13.54%	9.42%	10.92%
MSP	726580	Minneapolis/St. Paul Int'l Arpt	MN	Useable	1.52%	4.43%	2.07%	1.72%	1.74%	9.61%	2.08%	0.66%	0.61%	0.40%	0.31%
MVE	726553	Montevideo	MN	Useable	19.56%	11.88%	10.95%	9.70%	9.92%	9.55%	9.82%	8.53%	13.11%	26.96%	
MWM	727506	Windom	MN	Useable	12.98%	13.79%	13.87%	11.03%	12.97%	9.97%	11.60%	10.39%	18.44%	13.38%	
MZH	727449	Moose Lake	MN	Not Useable		76.15%	42.56%	36.03%	26.63%	28.73%	27.94%	32.08%	35.76%		
ONA	726588	Winona	MN	Not Useable	32.74%	40.45%	27.95%	29.35%	30.11%	31.52%	30.19%	31.09%	30.75%		
ORB	726544	Orr	MN	Not Useable	50.92%	39.85%	34.06%	34.90%	29.21%	33.22%	31.90%	28.40%	33.53%		
OTG	726587	Worthington	MN	Not Useable	7.76%	7.26%	19.68%	16.04%	9.44%	10.17%	9.00%	19.46%	6.91%		
OVL	722168	Olivia	MN	Useable					52.43%	10.02%	10.63%	8.18%	12.62%	13.40%	16.46%
OWA	726568	Owatonna	MN	Caution	21.28%	13.77%	20.73%	32.43%	16.56%	17.11%	17.52%	16.55%	18.00%		
PEX	720367	Paynesville	MN	Not Useable						106.16%	20.30%	13.75%	16.73%		
PKD	727453	Park Rapids	MN	Useable	14.62%	12.24%	13.50%	14.98%	12.43%	14.93%	5.56%	2.05%	1.40%	1.03%	1.65%
PQN	726566	Pipestone	MN	Not Useable	33.10%	22.20%	16.45%	21.41%	11.05%	16.43%	27.81%	19.08%	26.99%		
PWC	727508	Pine River	MN	Not Useable	36.83%	31.04%	29.01%	26.68%	24.88%	29.78%	25.02%	30.14%	41.22%		
RGK	726564	Red Wing	WI	Not Useable	39.10%	27.60%	28.48%	25.80%	23.98%	25.66%	23.19%	22.98%	25.87%		
ROS	726679	Rush City	MN	Caution		75.42%	31.54%	23.84%	18.61%	20.21%	19.96%	19.42%	25.08%		
ROX	727477	Roseau	MN	Caution	34.59%	24.92%	12.35%	14.43%	16.49%	15.95%	15.82%	12.47%	14.92%		
RRT	726548	Warroad	MN	Useable	14.70%	14.09%	14.87%	14.58%	12.13%	12.07%	12.15%	14.12%	14.70%	13.66%	
RST	726440	Rochester	MN	Useable	3.32%	3.13%	4.27%	3.61%	4.81%	4.30%	0.79%	0.98%	0.14%	0.21%	0.24%
RWF	726556	Redwood Falls	MN	Useable	13.19%	9.35%	7.93%	9.14%	8.48%	8.78%	1.52%	0.49%	0.34%	0.40%	0.26%
SAZ	727514	Staples	MN	Not Useable	28.61%	22.24%	20.74%	20.17%	18.18%	20.56%	20.40%	18.00%	21.67%		
SGS	726603	South St. Paul	MN	Not Useable	32.07%	30.48%	35.21%	27.64%	25.11%	25.92%	28.41%	19.64%	22.20%		
STC	726550	St. Cloud	MN	Useable	14.77%	13.09%	13.44%	14.45%	13.82%	14.97%	3.83%	1.38%	1.64%	1.19%	1.07%
STP	726584	St. Paul Downtown Arpt	MN	Useable	17.06%	38.31%	19.48%	17.60%	16.68%	5.08%	8.95%	1.38%	1.30%	1.49%	2.26%
SUW	726427	Superior	WI	Not Useable							20.22%	22.74%	21.52%	22.12%	23.83%
TVF	727555	Thief River Falls	MN	Useable	10.11%	9.26%	9.70%	12.85%	15.06%	7.56%	9.27%	13.02%	10.60%	8.81%	
ULM	726567	New Ulm Mun. Arpt	MN	Caution	28.58%	17.28%	11.68%	12.15%	9.95%	17.75%	15.21%	11.82%	14.84%		
VVV	727515	Ortonville	MN	Useable	34.27%	14.04%	12.59%	19.84%	12.11%	12.71%	11.44%	10.71%	14.35%	12.72%	
XVG	727497	Longville	MN	Not Useable		74.74%	35.00%	33.34%	31.00%	37.10%	38.71%	33.26%	35.80%		

Call Sign	Station Type	2000 - 2010_Mi ss+Calm	2000 - 2004_M iss+Cal m	2001 - 2005_Mi ss+Calm	2002 - 2006_M iss+Cal m	2003 - 2007_M iss+Cal m	2004 - 2008_M iss+Cal m	2005 - 2009_M iss+Cal m	2006 - 2010_M iss+Cal m
ABR	ASOS	8.59%	7.28%	7.37%	8.02%	8.57%	9.47%	9.90%	10.26%
ADC	AWOS III/T	21.93%	27.66%	25.31%	23.77%	17.30%	17.55%	17.63%	17.42%
AEL	AWOS III/T	17.15%	16.31%	15.93%	16.09%	16.11%	16.52%	17.99%	18.55%
AIT	AWOS III/T	28.74%	29.25%	27.91%	27.13%	27.09%	27.80%	28.12%	27.70%
ANE	AWOS III/T	21.77%	20.94%	20.67%	21.10%	21.55%	21.78%	22.80%	23.46%
ATY	ASOS	10.23%	8.39%	8.39%	9.17%	10.26%	11.29%	12.08%	12.88%
AXN	ASOS	4.14%	6.07%	6.24%	5.63%	4.50%	3.56%	2.55%	1.76%
BBB	AWOS III/T	19.23%	16.89%	15.42%	15.77%	16.69%	20.31%	22.15%	23.62%
BDE	ASOS	24.66%	23.40%	24.44%	25.18%	25.40%	25.48%	26.25%	26.16%
BDH	AWOS III/T								
BFW	AWOS III/T	38.85%	39.78%	39.40%	37.98%	37.59%	37.59%	37.68%	37.19%
BJI	AWOS III	13.40%	12.48%	12.21%	12.64%	12.82%	13.69%	14.32%	14.63%
BRD	ASOS	16.31%	29.56%	24.19%	17.69%	13.11%	8.81%	5.72%	2.49%
CBG	AWOS III/T	31.68%	31.23%	29.82%	29.23%	29.45%	31.26%	32.24%	33.06%
CKC	AWOS III/T	17.19%	17.33%	15.50%	16.75%	16.39%	16.65%	17.02%	17.92%
CKN	AWOS III/T	12.07%	13.84%	10.59%	10.38%	9.87%	10.28%	10.30%	10.10%
COQ	AWOS III/T	18.71%	20.02%	17.32%	17.06%	16.76%	17.07%	17.07%	16.94%
CQM	AWOS III/T	39.40%	40.83%	40.62%	39.20%	37.02%	36.66%	37.62%	34.63%
DLH	ASOS	4.05%	6.58%	6.45%	5.32%	4.40%	3.24%	2.18%	1.07%
DTL	AWOS III/T	14.94%	16.53%	14.38%	13.12%	12.34%	12.51%	13.10%	13.96%
DVP	AWOS III/T	32.85%		97.97%	56.51%	40.79%	32.85%	32.85%	11.15%
DYT	AWOS III/T	16.67%			15.63%	16.17%	16.04%	16.61%	16.67%
EAU	ASOS	10.65%	16.92%	17.27%	14.92%	12.17%	9.08%	6.14%	2.83%
ELO	AWOS III/T	33.32%	36.00%	33.75%	31.60%	30.62%	29.99%	29.96%	29.08%
EVM	AWOS III/T	26.97%	28.46%	26.48%	25.46%	25.03%	25.00%	25.10%	24.62%
FAR	ASOS	3.73%	6.13%	6.14%	5.14%	4.13%	3.10%	1.96%	0.62%
FBL	AWOS III/T	20.22%	17.31%	21.14%	21.63%	21.88%	22.14%	23.86%	18.65%
FCM	ASOS	6.26%	10.48%	10.41%	8.80%	7.11%	5.15%	3.19%	1.32%
FFM	AWOS III/T	12.26%	10.91%	11.06%	11.46%	11.77%	12.35%	13.39%	13.54%
FGN	AWOS III/T	22.45%	28.30%	16.15%	15.37%	15.08%	16.26%	16.61%	17.31%
FKA	AWOS III/T	15.67%	48.55%	28.83%	21.36%	18.27%	16.73%	9.10%	9.09%
FOZ	AWOS III/T	32.90%	35.19%	32.25%	30.34%	30.09%	30.08%	30.04%	29.25%
FRM	AWOS III	10.24%	11.03%	9.97%	10.44%	10.50%	9.85%	9.72%	10.02%
FSD	ASOS	7.46%	12.44%	12.23%	10.22%	8.08%	5.91%	3.81%	1.56%
FSE	AWOS III/T	17.65%	19.06%	17.02%	16.80%	16.82%	15.77%	15.90%	15.60%
GDB	AWOS III/T	19.02%	63.73%	36.53%	27.93%	23.55%	20.74%	10.08%	10.27%
GFK	ASOS	3.81%	6.32%	6.69%	5.63%	4.56%	3.32%	2.01%	0.50%
GHW	AWOS III/T	8.46%	8.65%	8.26%	7.98%	7.70%	8.02%	8.27%	7.66%
GNA	ASOS	28.45%	46.66%	48.92%	43.62%	32.25%	24.54%	15.42%	5.66%
GPZ	AWOS III	17.42%	17.71%	16.89%	15.49%	15.83%	16.39%	16.35%	17.53%
GYL	AWOS III/T	27.14%	36.28%	32.50%	21.67%	19.99%	17.84%	18.01%	18.21%
HCD	AWOS III/T	17.73%	18.72%	17.81%	17.17%	16.44%	16.26%	16.50%	16.52%
HCO	AWOS III/T	12.56%	12.90%	10.62%	9.71%	10.20%	11.72%	12.12%	12.88%

Call Sign	Station Type	2000 - 2010_Mi ss+Calm	2000 - 2004_M iss+Cal m	2001 - 2005_Mis s+Calm	2002 - 2006_M iss+Cal m	2003 - 2007_M iss+Cal m	2004 - 2008_M iss+Cal m	2005 - 2009_M iss+Cal m	2006 - 2010_M iss+Cal m
HIB	ASOS	14.24%	25.69%	22.19%	17.51%	13.59%	9.21%	4.97%	3.84%
HZX	AWOS IIIP/T	28.76%	60.69%	41.36%	34.16%	30.56%	28.76%	20.78%	20.36%
ILL									
INL	ASOS	9.14%	14.30%	14.17%	12.23%	9.87%	7.46%	5.28%	2.97%
JKJ	AWOS IIIP/T	20.95%	68.10%	42.98%	32.39%	26.80%	24.15%	12.78%	12.13%
JMR	AWOS IIIP/T	32.55%	35.85%	33.58%	31.33%	29.84%	29.20%	28.43%	27.83%
LJF	AWOS IIIP/T	23.53%	27.70%	21.81%	21.04%	20.79%	18.57%	18.32%	18.13%
LSE	ASOS	7.44%	12.21%	13.32%	10.96%	8.94%	6.45%	3.99%	1.25%
LVN	AWOS IIIP/T	25.36%	24.48%	25.23%	24.32%	24.88%	25.26%	26.45%	27.67%
LXL	AWOS IIIP/T	31.19%	33.17%	32.11%	29.97%	28.28%	28.42%	28.72%	28.61%
LYV	AWOS IIIP/T	20.67%		27.27%	22.54%	20.97%	20.67%	20.67%	18.47%
MIC	ASOS	10.60%	16.63%	16.76%	14.62%	12.09%	8.99%	6.12%	3.41%
MJQ	AWOS IIIP/T	9.74%	10.80%	9.54%	8.17%	8.02%	8.49%	8.73%	9.14%
MKT	AWOS III	10.62%	10.46%	9.18%	8.60%	10.56%	10.57%	10.52%	10.39%
MML	AWOS III	8.72%	8.33%	8.09%	8.46%	8.97%	8.86%	9.03%	9.32%
MOX	AWOS IIIP/T	12.13%	15.00%	11.23%	8.48%	8.14%	9.26%	9.50%	10.11%
MSP	ASOS	2.29%	2.30%	3.91%	3.44%	3.16%	2.94%	2.67%	0.81%
MVE	AWOS IIIP/T	13.00%	12.40%	10.40%	9.99%	9.50%	10.19%	13.59%	14.61%
MWM	AWOS IIIP	12.84%	12.93%	12.33%	11.89%	11.19%	12.67%	12.76%	13.45%
MZH	AWOS IIIP/T	38.24%	45.34%	42.02%	32.38%	30.28%	30.23%	31.13%	31.93%
ONA	AWOS IIIP/T	31.57%	32.12%	31.88%	29.82%	30.45%	30.73%	30.89%	30.68%
ORB	AWOS IIIP/T	35.11%	37.79%	34.25%	32.66%	31.53%	31.25%	31.76%	31.28%
OTG	AWOS III	11.75%	12.04%	12.52%	12.87%	12.82%	11.00%	11.39%	11.79%
OVL	AWOS IIIP/T	17.68%	52.43%	31.23%	24.36%	20.32%	18.78%	10.97%	12.26%
OWA	AWOS IIIP	19.33%	20.95%	20.12%	20.87%	20.03%	17.15%	17.30%	17.36%
PEX	AWOS IIIP/T	39.24%		106.16%	63.23%	46.74%	39.24%	39.24%	16.93%
PKD	ASOS	8.58%	13.55%	13.62%	12.28%	9.99%	7.27%	4.99%	2.34%
PQN	AWOS IIIP	21.61%	20.84%	17.51%	18.63%	19.16%	20.27%	22.58%	24.63%
PWC	AWOS IIIP	30.51%	29.69%	28.28%	27.07%	27.30%	30.21%	31.54%	32.13%
RGK	AWOS IIIP/T	26.96%	28.99%	26.30%	25.42%	24.32%	24.34%	24.43%	24.01%
ROS	AWOS IIIP/T	29.26%	37.35%	33.92%	22.83%	20.41%	20.66%	21.17%	21.49%
ROX	AWOS IIIP/T	17.99%	20.56%	16.83%	15.01%	15.03%	15.13%	14.79%	14.40%
RRT	AWOS IIIP/T	13.71%	14.07%	13.55%	13.16%	13.01%	13.03%	13.34%	13.66%
RST	ASOS	2.35%	3.83%	4.02%	3.56%	2.90%	2.20%	1.28%	0.47%
RWF	ASOS	5.44%	9.62%	8.74%	7.17%	5.68%	3.92%	2.31%	0.60%
SAZ	AWOS IIIP	21.17%	21.99%	20.38%	20.01%	19.46%	19.76%	20.16%	20.02%
SGS	AWOS IIIP/T	27.41%	30.10%	28.87%	28.46%	25.34%	24.26%	24.04%	23.42%
STC	ASOS	8.51%	13.91%	13.95%	12.10%	9.69%	7.13%	4.60%	1.82%
STP	ASOS	11.78%	21.83%	19.43%	13.56%	9.94%	6.68%	3.64%	3.08%
SUW	AWOS IIIP	22.09%			20.22%	21.48%	21.49%	21.65%	22.09%
TVF	AWOS III	10.62%	11.40%	10.89%	10.89%	11.55%	11.10%	9.85%	10.43%
ULM	AWOS IIIP	15.47%	15.93%	13.76%	13.35%	13.38%	13.91%	14.91%	13.96%
VVV	AWOS IIIP	15.48%	18.57%	14.26%	13.74%	13.36%	12.26%	12.39%	12.31%
XVG	AWOS IIIP	39.87%	43.52%	42.24%	35.03%	34.68%	35.17%	36.22%	35.92%

Call Sign	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2004_Miss+	2005_Miss+	2006_Miss+	2007_Miss+	2008_Miss+	2009_Miss+	2010_Miss+	2004_Miss+	2005_Miss+	2006_Miss+	2007_Miss+	2008_Miss+	2009_Miss+	2010_Miss+
	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y
	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ABR	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No	No	No	No
ADC	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No
AEL	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
AIT	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ANE	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
ATY	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No	No	No	No
AXN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BBB	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No
BDE	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BDH	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BFW	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BJI	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
BRD	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
CBG	No	No	No	No	No	No	No	No	No	No	No	No	No	No
CKC	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
CKN	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
COQ	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
CQM	No	No	No	No	No	No	No	No	No	No	No	No	No	No
DLH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DTL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
DVP	No	No	No	No	No	No	No	No	No	No	No	No	No	No
DYT	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No
EAU	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
ELO	No	No	No	No	No	No	No	No	No	No	No	No	No	No
EVM	No	No	No	No	No	No	No	No	No	No	No	No	No	No
FAR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FBL	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
FCM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
FFM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
FGN	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
FKA	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
FOZ	No	No	No	No	No	No	No	No	No	No	No	No	No	No
FRM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
FSD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
FSE	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
GDB	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
GFK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GHW	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
GNA	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No
GPZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
GYL	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
HCD	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
HCO	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No



Missing+Calm

03/07/2012

Call Sign	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2004_Miss+	2005_Miss+	2006_Miss+	2007_Miss+	2008_Miss+	2009_Miss+	2010_Miss+	2004_Miss+	2005_Miss+	2006_Miss+	2007_Miss+	2008_Miss+	2009_Miss+	2010_Miss+
	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_25%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y	Calm_10%Y
	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HIB	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
HZX	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ILL	No	No	No	No	No	No	No	No	No	No	No	No	No	No
INL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
JKJ	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No
JMR	No	No	No	No	No	No	No	No	No	No	No	No	No	No
LJF	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
LSE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
LVN	No	No	No	No	No	No	No	No	No	No	No	No	No	No
LXL	No	No	No	No	No	No	No	No	No	No	No	No	No	No
LYV	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MIC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
MJQ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No
MKT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
MML	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
MOX	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No	No	No
MSP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVE	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	No	No	No
MWM	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
MZH	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ONA	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ORB	No	No	No	No	No	No	No	No	No	No	No	No	No	No
OTG	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
OVL	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No
OWA	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
PEX	No	No	No	No	No	No	No	No	No	No	No	No	No	No
PKD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
PQN	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No
PWC	No	No	No	No	No	No	No	No	No	No	No	No	No	No
RGK	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ROS	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No
ROX	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
RRT	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
RST	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RWF	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
SAZ	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
SGS	No	No	No	No	No	No	No	No	No	No	No	No	No	No
STC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes
STP	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
SUW	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No
TVF	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
ULM	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
VVV	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
XVG	No	No	No	No	No	No	No	No	No	No	No	No	No	No

Ave. Wind Speed

03/07/2012

Call Sign	USAF	Location	State	*Is Station Useable?	2000_	2001_	2002_	2003_	2004_	2005_	2006_	2007_	2008_	2009_	2010_
					AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd
ABR	726590	Aberdeen	SD	Useable	9.27	9.22	9.66	9.41	9.40	9.41	8.72	8.98	8.98	8.54	8.54
ADC	726561	Wadena	MN	Caution			6.74	6.80	6.73	6.45	6.32	6.92	6.80		
AEL	726589	Albert Lea	MN	Useable	7.13	7.75	7.30	7.12	7.17	6.72	6.93	6.98	6.95	6.77	6.77
AIT	727504	Aitkin	MN	Not Useable	4.64	5.94	5.27	5.05	5.09	4.69	4.90	5.29	4.87		
ANE	726577	Minneapolis/Blaine	MN	Caution	6.67	7.49	6.84	6.73	6.88	6.56	6.72	7.21	6.98		
ATY	726546	Watertown	SD	Useable	9.59	9.46	9.88	9.63	9.70	9.58	8.94	9.13	9.16	8.70	8.70
AXN	726557	Alexandria	MN	Useable	9.16	9.22	9.51	9.36	9.50	9.16	9.37	9.84	9.44	9.04	9.04
BBB	727507	Benson	MN	Caution	7.09	8.19	7.87	7.66	7.89	7.39	7.33	7.68	6.97		
BDE	727476	Baudette	MN	Not Useable	6.83	7.70	7.26	7.08	7.46	6.78	6.60	6.61	6.29		
BDH	720386	Willmar	MN	Not Useable											
BFW	727556	Silver Bay	MN	Not Useable	4.12	5.54	4.25	4.23	4.20	3.92	3.97	4.29	3.90		
BJI	727550	Bemidji	MN	Useable	7.49	8.42	8.13	7.75	7.94	7.53	7.59	7.76	7.16	6.77	6.77
BRD	726555	Brainerd	MN	Useable	5.31	6.73	6.45	6.62	7.10	6.93	7.13	7.46	7.21	6.85	6.85
CBG	727503	Cambridge	MN	Not Useable	4.69	5.88	4.91	4.79	4.86	4.57	4.68	4.72	4.18		
CKC	727454	Grand Marais Arprt	MN	Caution	6.46	7.42	6.69	6.75	6.60	6.21	5.86	6.55	6.17		
CKN	727452	Crookston	MN	Useable	8.55	9.55	9.03	9.02	9.30	8.82	8.75	9.29	9.09	8.45	8.45
COQ	726558	Cloquet	MN	Caution	5.79	7.02	6.37	6.32	6.31	5.92	6.19	6.58	6.29		
CQM	726549	Cook	MN	Not Useable	3.80	5.44	4.54	4.27	4.48	3.65	4.03	4.56	4.06		
DLH	727450	Duluth	MN	Useable	8.50	8.74	8.86	8.84	8.96	8.52	9.10	9.45	8.88	8.57	8.56
DTL	727457	Detroit Lakes	MN	Useable	7.67	8.20	7.85	7.67	7.96	7.71	7.47	7.90	7.73	7.36	7.25
DVP	720368	Slayton	MN	Not Useable						7.74	9.17	9.72	9.59		
DYT	727456	Duluth Sky Harbor	MN	Useable							8.04	8.08	8.25	7.88	7.96
EAU	726435	Eau Claire	WI	Useable	6.80	6.59	6.94	6.80	6.91	6.48	7.27	7.33	6.80	6.71	6.44
ELO	727459	Ely	MN	Not Useable	3.90	5.11	4.56	4.63	4.83	4.45	4.78	5.34	5.12		
EVM	727474	Eveleth	MN	Not Useable	5.37	6.37	5.72	5.39	5.60	5.09	5.30	5.74	5.45		
FAR	727530	Fargo	ND	Useable	9.57	9.78	9.90	9.87	10.11	9.83	9.83	9.82	9.74	9.46	9.30
FBL	726563	Faribault	MN	Not Useable	7.11	7.77	7.33	7.01	7.09	6.90	6.52	6.85	6.59		
FCM	726579	Flying Cloud Arprt.	MN	Useable	7.63	7.90	7.76	7.60	7.70	7.31	7.97	8.02	7.50	7.38	7.16
FFM	726560	Fergus Falls	MN	Useable	8.74	9.23	8.98	8.80	9.03	8.71	8.41	8.56	8.45	7.79	8.33
FGN	727467	Flag Island	MN	Useable	8.49	9.08	8.49	8.29	8.69	8.37	7.67	8.20	8.76	8.00	
FKA	720283	Preston	MN	Useable					7.46	7.46	7.98	8.25	8.04	7.63	
FOZ	727468	Bigfork	MN	Not Useable	4.30	5.78	5.01	4.66	4.80	4.48	4.60	4.95	4.70		
FRM	726586	Fairmont	MN	Useable	9.53	10.82	10.55	10.53	10.60	10.25	10.27	10.45	10.40	9.67	9.59
FSD	726510	Sioux Falls	SD	Useable	8.85	8.79	9.13	8.91	8.90	8.95	9.08	9.03	8.94	8.56	8.46
FSE	727505	Fosston	MN	Caution	7.33	8.30	7.86	7.05	7.78	7.32	7.36	7.77	7.42		
GDB	722033	Granite Falls	MN	Useable					8.19	8.19	7.89	8.75	8.67	8.10	
GFK	727576	Grand Forks	ND	Useable	9.07	9.08	9.21	8.98	9.15	8.84	9.15	9.60	9.65	9.13	8.99
GHW	726547	Glenwood	MN	Useable	8.86	9.13	9.14	8.92	9.07	8.60	8.88	9.50	9.07	8.58	
GNA	727469	Grand Marais	MN	Useable	6.08	6.93	5.66	6.01	5.96	5.31	5.83	6.47	5.79	5.92	5.90
GPZ	727458	Grand Rapids	MN	Useable	6.53	7.51	7.13	6.98	7.21	6.67	6.77	7.17	6.73	6.57	6.12
GYL	727517	Glencoe	MN	Caution		7.96	6.98	6.39	6.48	6.05	6.17	6.51	6.26		
HCD	726569	Hutchinson	MN	Caution	7.18	7.80	7.31	7.09	7.18	6.83	6.90	7.44	7.21		
HCO	727478	Hallock	MN	Useable	8.99	9.71	9.29	9.17	9.38	9.40	8.93	9.42	9.12	8.55	8.44

Ave. Wind Speed

03/07/2012

Call Sign	USAF	Location	State	*Is Station Useable?	2000_	2001_	2002_	2003_	2004_	2005_	2006_	2007_	2008_	2009_	2010_
					AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd	AveWn dSpd
HIB	727455	Hibbing	MN	Useable	6.88	6.50	6.74	6.82	6.97	6.49	6.48	6.76	6.54	6.26	6.11
HZX	720258	McGregor	MN	Not Useable					5.68	5.48	5.71	6.03	5.74		
ILL	726576	Willmar	MN	Not Useable											
INL	727470	International Falls	MN	Useable	6.70	6.83	6.97	6.84	7.22	6.99	7.36	7.41	6.83	6.37	6.29
JKJ	722129	Moorhead	MN	Useable					7.03	8.11	8.29	8.62	8.37	8.16	7.91
JMR	727475	Mora	MN	Not Useable	4.75	5.82	4.71	4.52	4.68	4.57	4.94	5.31	4.83		
LJF	726583	Litchfield	MN	Caution	5.52	6.98	6.69	6.55	6.49	6.09	6.30	6.66	6.36		
LSE	726430	La Crosse	WI	Useable	8.05	7.28	7.66	7.30	7.37	6.94	7.59	7.54	7.20	7.19	6.91
LVN	726562	Airlake	MN	Not Useable	6.44	7.18	5.93	5.62	6.21	5.51	5.57	5.23	5.21		
LXL	726578	Little Falls	MN	Not Useable	4.94	5.99	5.00	4.92	5.01	4.79	4.90	5.29	4.92		
LYV	722006	Luverne	MN	Not Useable						7.69	7.60	7.74	7.55		
MIC	726575	Minneapolis/Crystal	MN	Useable	7.17	7.90	7.44	7.21	7.29	6.99	7.59	7.83	7.43	7.21	6.84
MJQ	726593	Jackson	MN	Useable	9.46	9.62	9.52	9.25	9.30	8.87	8.88	9.40	9.07	8.71	8.75
MKT	726585	Mankato	MN	Useable	8.16	9.03	9.04	8.74	9.32	8.96	9.38	9.49	9.28	8.89	8.34
MML	726559	Marshall	MN	Useable	10.12	10.72	10.65	10.18	10.37	10.01	10.01	10.48	10.17	9.42	9.39
MOX	726565	Morris	MN	Useable	9.25	9.59	9.41	9.46	9.52	9.21	9.18	9.70	9.49	9.08	8.85
MSP	726580	Minneapolis/St. Paul Int'l Arpt	MN	Useable	8.83	8.52	8.78	8.62	8.75	7.97	8.46	8.50	8.19	8.04	7.74
MVE	726553	Montevideo	MN	Useable	7.88	8.16	8.11	7.85	8.07	7.77	7.78	8.25	8.16	6.46	
MWM	727506	Windom	MN	Useable	9.15	9.85	9.26	9.44	9.75	9.19	9.11	9.32	8.84	8.61	
MZH	727449	Moose Lake	MN	Not Useable		6.77	4.88	4.90	4.89	4.47	4.59	4.47	4.13		
ONA	726588	Winona	MN	Not Useable	5.02	5.81	5.17	4.76	4.82	4.46	4.61	4.95	4.63		
ORB	726544	Orr	MN	Not Useable	4.11	5.89	5.18	4.77	5.19	4.50	4.52	5.04	4.58		
OTG	726587	Worthington	MN	Not Useable	10.78	10.99	10.59	10.13	10.78	10.19	10.30	10.15	10.72		
OVL	722168	Olivia	MN	Useable					7.44	8.04	8.04	8.62	8.39	7.79	7.62
OWA	726568	Owatonna	MN	Caution	8.10	9.11	8.40	7.34	8.34	7.67	7.88	8.26	8.22		
PEX	720367	Paynesville	MN	Not Useable						5.85	6.81	7.21	6.87		
PKD	727453	Park Rapids	MN	Useable	7.64	8.42	8.27	8.00	8.24	7.76	8.26	8.43	8.15	7.78	7.61
PQN	726566	Pipestone	MN	Not Useable	7.69	8.42	8.30	7.67	8.44	7.98	7.19	8.72	7.86		
PWC	727508	Pine River	MN	Not Useable	4.84	6.19	5.42	5.29	5.46	5.08	5.36	5.16	4.41		
RGK	726564	Red Wing	WI	Not Useable	5.55	6.43	5.56	5.33	5.52	5.14	5.40	5.69	5.37		
ROS	726679	Rush City	MN	Caution		7.32	5.92	5.65	5.58	5.17	5.33	5.63	5.25		
ROX	727477	Roseau	MN	Caution	7.41	7.11	7.55	7.20	7.53	7.18	6.92	7.63	7.39		
RRT	726548	Warroad	MN	Useable	7.00	7.55	7.10	6.70	7.22	7.05	6.88	7.24	6.93	6.57	
RST	726440	Rochester	MN	Useable	10.12	10.16	10.28	10.42	10.00	9.82	10.44	10.70	9.94	9.81	9.50
RWF	726556	Redwood Falls	MN	Useable	8.50	8.65	8.95	8.81	8.88	8.59	8.68	9.28	8.91	8.48	8.46
SAZ	727514	Staples	MN	Not Useable	6.03	7.21	6.55	6.37	6.48	6.09	6.04	6.60	6.29		
SGS	726603	South St. Paul	MN	Not Useable	5.07	5.93	4.89	5.00	5.16	4.78	5.16	5.88	5.52		
STC	726550	St. Cloud	MN	Useable	7.32	7.55	7.67	7.70	7.69	7.24	7.68	7.99	7.72	7.31	7.16
STP	726584	St. Paul Downtown Arpt	MN	Useable	7.42	7.91	7.37	7.48	7.55	7.56	7.56	7.93	7.72	7.68	7.19
SUW	726427	Superior	WI	Not Useable							5.92	6.12	6.01	5.91	5.68
TVF	727555	Thief River Falls	MN	Useable	8.16	8.82	8.51	8.62	9.69	9.32	9.24	9.35	9.21	8.55	
ULM	726567	New Ulm Mun. Arpt	MN	Caution	8.37	8.76	8.42	8.29	8.44	7.54	7.60	8.29	7.90		
VVV	727515	Ortonville	MN	Useable	8.17	8.50	8.25	7.57	8.18	7.81	7.96	8.29	8.13	7.94	
XVG	727497	Longville	MN	Not Useable		6.28	4.49	4.29	4.36	3.93	3.90	4.40	4.16		

Call Sign	Station Type	2000 - 2010_Av eWndSp	2000 - 2004_A veWndSp	2001 - 2005_A veWndSp	2002 - 2006_A veWndSp	2003 - 2007_A veWndSp	2004 - 2008_A veWndSp	2005 - 2009_A veWndSp	2006 - 2010_A veWndSp
		d	pd	pd	pd	pd	pd	pd	pd
ABR	ASOS	9.10	9.39	9.42	9.32	9.18	9.10	8.93	8.75
ADC	AWOS III/T	6.68	6.76	6.68	6.61	6.64	6.64	6.62	6.68
AEL	AWOS III/T	7.05	7.29	7.21	7.05	6.98	6.95	6.87	6.88
AIT	AWOS III/T	5.08	5.20	5.21	5.00	5.00	4.97	4.94	5.02
ANE	AWOS III/T	6.90	6.92	6.90	6.75	6.82	6.87	6.87	6.97
ATY	ASOS	9.32	9.65	9.65	9.55	9.40	9.30	9.10	8.93
AXN	ASOS	9.33	9.35	9.35	9.38	9.45	9.46	9.37	9.35
BBB	AWOS III/T	7.56	7.74	7.80	7.63	7.59	7.45	7.34	7.33
BDE	ASOS	6.96	7.27	7.26	7.04	6.91	6.75	6.57	6.50
BDH	AWOS III/T								
BFW	AWOS III/T	4.27	4.47	4.43	4.11	4.12	4.06	4.02	4.05
BJI	AWOS III	7.57	7.95	7.95	7.79	7.71	7.60	7.36	7.21
BRD	ASOS	6.79	6.44	6.77	6.85	7.05	7.17	7.12	7.10
CBG	AWOS III/T	4.81	5.03	5.00	4.76	4.72	4.60	4.54	4.53
CKC	AWOS III/T	6.52	6.78	6.73	6.42	6.39	6.28	6.20	6.19
CKN	AWOS III/T	8.94	9.09	9.14	8.98	9.04	9.05	8.88	8.81
COQ	AWOS III/T	6.31	6.36	6.39	6.22	6.26	6.26	6.25	6.35
CQM	AWOS III/T	4.31	4.51	4.48	4.19	4.20	4.16	4.08	4.22
DLH	ASOS	8.82	8.78	8.78	8.86	8.97	8.98	8.90	8.91
DTL	AWOS III/T	7.71	7.87	7.88	7.73	7.74	7.75	7.63	7.54
DVP	AWOS III/T	9.06		7.74	8.46	8.88	9.06	9.06	9.49
DYT	AWOS III/T	8.04			8.04	8.06	8.12	8.06	8.04
EAU	ASOS	6.82	6.81	6.74	6.88	6.96	6.96	6.92	6.91
ELO	AWOS III/T	4.75	4.61	4.72	4.65	4.81	4.90	4.92	5.08
EVM	AWOS III/T	5.56	5.69	5.63	5.42	5.42	5.44	5.40	5.50
FAR	ASOS	9.75	9.85	9.90	9.91	9.89	9.87	9.74	9.63
FBL	AWOS III/T	7.02	7.26	7.22	6.97	6.87	6.79	6.72	6.65
FCM	ASOS	7.63	7.72	7.65	7.67	7.72	7.70	7.64	7.61
FFM	AWOS III/T	8.64	8.96	8.95	8.79	8.70	8.63	8.38	8.31
FGN	AWOS III/T	8.40	8.61	8.58	8.30	8.24	8.34	8.20	8.16
FKA	AWOS III/T	7.80	7.46	7.46	7.63	7.79	7.84	7.87	7.98
FOZ	AWOS III/T	4.81	4.91	4.95	4.71	4.70	4.71	4.68	4.75
FRM	AWOS III	10.24	10.41	10.55	10.44	10.42	10.39	10.21	10.08
FSD	ASOS	8.87	8.92	8.94	8.99	8.97	8.98	8.91	8.81
FSE	AWOS III/T	7.58	7.66	7.66	7.47	7.46	7.53	7.47	7.52
GDB	AWOS III/T	8.30	8.19	8.19	8.09	8.26	8.34	8.32	8.35
GFK	ASOS	9.17	9.10	9.05	9.07	9.14	9.28	9.27	9.30
GHW	AWOS III/T	8.98	9.02	8.97	8.92	8.99	9.02	8.93	9.01
GNA	ASOS	5.99	6.13	5.97	5.75	5.92	5.87	5.86	5.98
GPZ	AWOS III	6.85	7.07	7.10	6.95	6.96	6.91	6.78	6.67
GYL	AWOS III/T	6.60	6.95	6.77	6.41	6.32	6.29	6.25	6.31
HCD	AWOS III/T	7.22	7.31	7.24	7.06	7.09	7.11	7.10	7.18
HCO	AWOS III/T	9.13	9.31	9.39	9.23	9.26	9.25	9.08	8.89

Call Sign	Station Type	2000 - 2010_Av eWndSp d	2000 - 2004_A veWndS pd	2001 - 2005_A veWndS pd	2002 - 2006_A veWndS pd	2003 - 2007_A veWndS pd	2004 - 2008_A veWndS pd	2005 - 2009_A veWndS pd	2006 - 2010_A veWndS pd
HIB	ASOS	6.60	6.78	6.70	6.70	6.70	6.65	6.51	6.43
HZX	AWOS III/T	5.73	5.68	5.58	5.62	5.73	5.73	5.74	5.83
ILL									
INL	ASOS	6.89	6.91	6.97	7.08	7.16	7.16	6.99	6.85
JKJ	AWOS III/T	8.07	7.03	7.57	7.81	8.01	8.08	8.31	8.27
JMR	AWOS III/T	4.90	4.90	4.86	4.68	4.80	4.87	4.91	5.03
LJF	AWOS III/T	6.40	6.45	6.56	6.42	6.42	6.38	6.35	6.44
LSE	ASOS	7.37	7.53	7.31	7.37	7.35	7.33	7.29	7.29
LVN	AWOS III/T	5.88	6.28	6.09	5.77	5.63	5.55	5.38	5.34
LXL	AWOS III/T	5.08	5.17	5.14	4.92	4.98	4.98	4.98	5.04
LYV	AWOS III/T	7.65		7.69	7.65	7.68	7.65	7.65	7.63
MIC	ASOS	7.35	7.40	7.37	7.30	7.38	7.43	7.41	7.38
MJQ	AWOS III/T	9.17	9.43	9.31	9.16	9.14	9.10	8.99	8.96
MKT	AWOS III	8.97	8.86	9.02	9.09	9.18	9.29	9.20	9.08
MML	AWOS III	10.14	10.41	10.39	10.24	10.21	10.21	10.02	9.89
MOX	AWOS III/T	9.34	9.45	9.44	9.36	9.41	9.42	9.33	9.26
MSP	ASOS	8.40	8.70	8.53	8.52	8.46	8.37	8.23	8.19
MVE	AWOS III/T	7.85	8.01	7.99	7.92	7.94	8.01	7.68	7.66
MWM	AWOS III	9.25	9.49	9.50	9.35	9.36	9.24	9.01	8.97
MZH	AWOS III/T	4.89	5.36	5.18	4.75	4.66	4.51	4.42	4.40
ONA	AWOS III/T	4.91	5.12	5.00	4.76	4.72	4.69	4.66	4.73
ORB	AWOS III/T	4.86	5.03	5.11	4.83	4.80	4.77	4.66	4.71
OTG	AWOS III	10.51	10.65	10.54	10.40	10.31	10.43	10.34	10.39
OVL	AWOS III/T	7.99	7.44	7.74	7.84	8.04	8.11	8.18	8.09
OWA	AWOS III	8.15	8.26	8.17	7.93	7.90	8.07	8.01	8.12
PEX	AWOS III/T	6.69		5.85	6.33	6.62	6.69	6.69	6.96
PKD	ASOS	8.05	8.11	8.14	8.11	8.14	8.17	8.08	8.05
PQN	AWOS III	8.03	8.10	8.16	7.92	8.00	8.04	7.94	7.92
PWC	AWOS III	5.25	5.44	5.49	5.32	5.27	5.09	5.00	4.98
RGK	AWOS III/T	5.55	5.68	5.60	5.39	5.42	5.42	5.40	5.49
ROS	AWOS III/T	5.73	6.12	5.93	5.53	5.47	5.39	5.35	5.40
ROX	AWOS III/T	7.32	7.36	7.31	7.28	7.29	7.33	7.28	7.31
RRT	AWOS III/T	7.02	7.11	7.12	6.99	7.02	7.06	6.93	6.91
RST	ASOS	10.11	10.20	10.14	10.19	10.28	10.18	10.14	10.08
RWF	ASOS	8.74	8.76	8.78	8.78	8.85	8.87	8.79	8.76
SAZ	AWOS III	6.41	6.53	6.54	6.31	6.32	6.30	6.26	6.31
SGS	AWOS III/T	5.27	5.21	5.15	5.00	5.20	5.30	5.34	5.52
STC	ASOS	7.55	7.59	7.57	7.60	7.66	7.66	7.59	7.57
STP	ASOS	7.58	7.55	7.57	7.50	7.62	7.66	7.69	7.62
SUW	AWOS III	5.93			5.92	6.02	6.02	5.99	5.93
TVF	AWOS III	8.95	8.76	8.99	9.08	9.24	9.36	9.13	9.09
ULM	AWOS III	8.18	8.46	8.29	8.06	8.03	7.95	7.83	7.93
VVV	AWOS III	8.08	8.13	8.06	7.95	7.96	8.07	8.03	8.08
XVG	AWOS III	4.48	4.86	4.67	4.19	4.18	4.15	4.10	4.15

Call Sign	USAF	Location	State	*Is Station Useable?	2000_	2001_	2002_	2003_	2004_	2005_	2006_	2007_	2008_	2009_	2010_	Station Type
					1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt		
ABR	726590	Aberdeen	SD	Useable	S	S	S	S	S	S	S	S	S	S	S	ASOS
ADC	726561	Wadena	MN	Caution			W	NW	NW	WNW	WNW	NW	NW			AWOS IIIP/T
AEL	726589	Albert Lea	MN	Useable	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	AWOS IIIP/T
AIT	727504	Aitkin	MN	Not Useable	SSE	S	S	SSE	NW	SSE	SSE	SSE	NW			AWOS IIIP/T
ANE	726577	Minneapolis/Blaine	MN	Caution	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE			AWOS IIIP
ATY	726546	Watertown	SD	Useable	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE		ASOS
AXN	726557	Alexandria	MN	Useable	NW	NW	WNW	NW	NW	NW	NW	NW	WNW	NW	WNW	ASOS
BBB	727507	Benson	MN	Caution	NNW	NNW	NNW	N	N	S	N	N	N			AWOS IIIP/T
BDE	727476	Baudette	MN	Not Useable	NNW	NW	NW	NNW	NNW	SE	NNW	NW	NW			ASOS
BDH	720386	Willmar	MN	Not Useable												AWOS IIIP/T
BFW	727556	Silver Bay	MN	Not Useable	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE			AWOS IIIP/T
BJI	727550	Bemidji	MN	Useable	NW	NW	NW	NW	NW	SE	WNW	WNW	WNW	WNW		AWOS III
BRD	726555	Brainerd	MN	Useable	SSW	SSW	S	S	S	S	S	S	S	S	S	ASOS
CBG	727503	Cambridge	MN	Not Useable	W	SSE	W	SSE	SSE	SSE	SSE	SSE	SSE			AWOS IIIP/T
CKC	727454	Grand Marais Arpt	MN	Caution	N	N	NW	NW	NNW	NNW	N	NNW	NNW			AWOS IIIP/T
CKN	727452	Crookston	MN	Useable	NNW	S	NNW	S	S	NNW	NNW	S	S	S		AWOS IIIP/T
COQ	726558	Cloquet	MN	Caution	E	NW	W	NW	NW	E	E	WNW	WNW			AWOS IIIP/T
CQM	726549	Cook	MN	Not Useable	WNW	WNW	WNW	W	WNW	S	WNW	W	WNW			AWOS IIIP
DLH	727450	Duluth	MN	Useable	NW	NW	NW	NW	NW	E	E	NW	NW	NW	NW	ASOS
DTL	727457	Detroit Lakes	MN	Useable	SE	NW	NW	SSE	NNW	SSE	NW	NW	SSE	NW	SE	AWOS IIIP/T
DVP	720368	Slayton	MN	Not Useable						SSW	NW	S	SSE			AWOS IIIP/T
DYT	727456	Duluth Sky Harbor	MN	Useable							NE	SW	NE	NE	NE	AWOS IIIP/T
EAU	726435	Eau Claire	WI	Useable	S	SW	SW	W	S	SW	SSE	S	W	WSW	SW	ASOS
ELO	727459	Ely	MN	Not Useable	SW	SW	SW	WNW	WNW	W	NW	WNW	WNW			AWOS IIIP
EVM	727474	Eveleth	MN	Not Useable	NW	WNW	WNW	WNW	NW	WNW	NW	WNW	WNW			AWOS IIIP/T
FAR	727530	Fargo	ND	Useable	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	ASOS
FBL	726563	Faribault	MN	Not Useable	S	S	S	S	S	S	S	S	SSE			AWOS IIIP/T
FCM	726579	Flying Cloud Arpt.	MN	Useable	NW	SSW	SSW	NW	NNW	SSW	NNW	SSW	WNW	NW	NNW	ASOS
FFM	726560	Fergus Falls	MN	Useable	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	AWOS IIIP
FGN	727467	Flag Island	MN	Useable	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE		AWOS IIIP
FKA	720283	Preston	MN	Useable					S	NW	NW	NW	NW	NW		AWOS IIIP/T
FOZ	727468	Bigfork	MN	Not Useable	SSE	S	SSE	S	S	SSE	SSE	S	SSE			AWOS IIIP
FRM	726586	Fairmont	MN	Useable	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	AWOS III
FSD	726510	Sioux Falls	SD	Useable	S	S	S	S	S	SSE	NW	S	S	NW	S	ASOS
FSE	727505	Fosston	MN	Caution	S	S	S	S	S	S	S	S	S			AWOS IIIP/T
GDB	722033	Granite Falls	MN	Useable					NW	NW	NW	NW	NW	WNW		AWOS IIIP/T
GFK	727576	Grand Forks	ND	Useable	S	S	S	S	S	S	NNW	S	S	NNW	S	ASOS
GHW	726547	Glenwood	MN	Useable	WNW	WNW	W	NW	NW	WNW	WNW	WNW	WNW	WNW		AWOS IIIP/T
GNA	727469	Grand Marais	MN	Useable	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	WSW	ENE	ENE	ASOS
GPZ	727458	Grand Rapids	MN	Useable	SSE	NW	NW	SSE	NW	SSE	NW	NW	NW	NW	NW	AWOS III
GYL	727517	Glencoe	MN	Caution		WNW	NW	NW	WNW	WNW	WNW	S	WNW			AWOS IIIP/T
HCD	726569	Hutchinson	MN	Caution	WNW	WNW	WNW	NW	NW	SE	WNW	WNW	WNW			AWOS IIIP/T
HCO	727478	Hallock	MN	Useable	SSE	SSE	SSE	SSE	NNW	SSE	SSE	SSE	SSE	NNW	S	AWOS IIIP/T

Call Sign	USAF	Location	State	*Is Station Useable?	2000_	2001_	2002_	2003_	2004_	2005_	2006_	2007_	2008_	2009_	2010_	Station Type
					1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt	1stDir _Txt		
HIB	727455	Hibbing	MN	Useable	NNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	NNW	ASOS
HZX	720258	McGregor	MN	Not Useable					NW	NW	NW	NW	NW			AWOS IIIP/T
ILL	726576	Willmar	MN	Not Useable												
INL	727470	International Falls	MN	Useable	S	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	W	W	ASOS
JKJ	722129	Moorhead	MN	Useable					S	SSE	SSE	S	S	SSE	SSE	AWOS IIIP/T
JMR	727475	Mora	MN	Not Useable	NNW	NW	NW	NW	NW	NW	NW	NW	NW			AWOS IIIP/T
LJF	726583	Litchfield	MN	Caution	NW	NW	WNW	NW	NW	SSE	NW	WNW	NW			AWOS IIIP/T
LSE	726430	La Crosse	WI	Useable	S	S	S	S	S	S	S	S	S	S	S	ASOS
LVN	726562	Airlake	MN	Not Useable	WNW	WNW	WNW	WNW	S	W	W	S	W			AWOS IIIP/T
LXL	726578	Little Falls	MN	Not Useable	NW	WNW	SE	WNW	WNW	SE	WNW	WNW	WNW			AWOS IIIP/T
LYV	722006	Luverne	MN	Not Useable						S	S	S	S			AWOS IIIP/T
MIC	726575	Minneapolis/Crystal	MN	Useable	NW	WNW	SSE	WNW	NW	SSE	SSE	S	SSE	SSE	NW	ASOS
MJQ	726593	Jackson	MN	Useable	S	S	S	NW	S	NW	NW	S	NW	NW	NW	AWOS IIIP/T
MKT	726585	Mankato	MN	Useable	NW	S	S	NW	NW	S	NW	S	NW	NW	NW	AWOS III
MML	726559	Marshall	MN	Useable	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	WNW	NW	NW	AWOS III
MOX	726565	Morris	MN	Useable	NW	NW	SE	NW	NW	SE	NW	NW	NW	NW	SE	AWOS IIIP/T
MSP	726580	Minneapolis/St. Paul Int'l Arpt	MN	Useable	NW	NW	WNW	NW	NW	SE	NW	NW	NW	NW	NW	ASOS
MVE	726553	Montevideo	MN	Useable	NW	NW	NW	NW	N	S	N	N	N	N	N	AWOS IIIP/T
MWM	727506	Windom	MN	Useable	NW	NW	S	NW	NW	NW	NW	NW	NW	NW	NW	AWOS IIIP
MZH	727449	Moose Lake	MN	Not Useable		SSW	SW	ENE	NW	ENE	ENE	SSW	NW			AWOS IIIP/T
ONA	726588	Winona	MN	Not Useable	NW	WNW	WNW	NW	NW	NW	NW	NW	NW			AWOS IIIP/T
ORB	726544	Orr	MN	Not Useable	NW	NW	NW	NW	NW	NW	NW	NW	NW			AWOS IIIP/T
OTG	726587	Worthington	MN	Not Useable	S	S	SSW	SSW	S	S	S	S	SSE			AWOS III
OVL	722168	Olivia	MN	Useable					SSE	NW	NW	NW	NW	NW	NW	AWOS IIIP/T
OWA	726568	Owatonna	MN	Caution	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE			AWOS IIIP
PEX	720367	Paynesville	MN	Not Useable						SE	SE	WNW	SE			AWOS IIIP/T
PKD	727453	Park Rapids	MN	Useable	SE	NW	WNW	WNW	NW	SE	WNW	NW	NW	NW	WNW	ASOS
PQN	726566	Pipestone	MN	Not Useable	SSE	S	S	SSW	S	S	S	SSW	S			AWOS IIIP
PWC	727508	Pine River	MN	Not Useable	SE	SSE	SSE	SSE	SSE	SSE	NW	SSE	SSE			AWOS IIIP
RGK	726564	Red Wing	WI	Not Useable	WNW	SE	WNW	WNW	SE	SE	SE	SE	SE			AWOS IIIP/T
ROS	726679	Rush City	MN	Caution		NE	W	SSE	SSE	SSE	SSE	SSE	SSE			AWOS IIIP/T
ROX	727477	Roseau	MN	Caution	S	S	W	S	S	WNW	WNW	WNW	WNW			AWOS IIIP/T
RRT	726548	Warroad	MN	Useable	SSW	SW	WSW	NW	NW	SW	NW	SW	SW	WNW		AWOS IIIP/T
RST	726440	Rochester	MN	Useable	SSW	NW	S	WNW	S	S	NW	S	S	NW	NW	ASOS
RWF	726556	Redwood Falls	MN	Useable	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	ASOS
SAZ	727514	Staples	MN	Not Useable	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW			AWOS IIIP
SGS	726603	South St. Paul	MN	Not Useable	SE	SSE	SSE	SSE	SSE	SE	SSE	SSE	SSE			AWOS IIIP/T
STC	726550	St. Cloud	MN	Useable	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	ASOS
STP	726584	St. Paul Downtown Arpt	MN	Useable	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	ASOS
SUV	726427	Superior	WI	Not Useable						ENE	SW	SW	SW	NE		AWOS IIIP
TVF	727555	Thief River Falls	MN	Useable	SSW	SSW	SSW	NW	NW	NW	NW	NW	NW	NW	NW	AWOS III
ULM	726567	New Ulm Mun. Arpt	MN	Caution	NW	SSE	NW	NW	NW	NW	NW	NW	NW			AWOS IIIP
VVV	727515	Ortonville	MN	Useable	NW	NW	SE	NW	NNW	SE	SE	NNW	SE	NNW		AWOS IIIP
XVG	727497	Longville	MN	Not Useable		WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW			AWOS IIIP

Call Sign	2000_1	2001_1	2002_1	2003_1	2004_1	2005_1	2006_1	2007_1	2008_1	2009_1	2010_1	2000 - 2010_1s	2000 - 2004_1s	2001 - 2005_1s	2002 - 2006_1s	2003 - 2007_1s	2004 - 2008_1s	2005 - 2009_1s	2006 - 2010_1s
	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	tDir_ Deg	tDir_ De g	tDir_ De g	tDir_ De g	tDir_ De g	tDir_ De g	tDir_ De g	tDir_ De g
ABR	180	180	180	180	180	180	180	180	180	180		180	180	180	180	180	180	180	180
ADC			270	315	315	300	300	315	315			304	300	300	300	309	309	308	310
AEL	150	150	150	150	150	150	150	150	150	150		150	150	150	150	150	150	150	150
AIT	150	180	180	150	315	150	150	150	315			193	195	195	189	183	216	191	205
ANE	150	150	150	150	150	150	150	150	150			150	150	150	150	150	150	150	150
ATY	150	150	150	150	150	150	150	150	150	150		150	150	150	150	150	150	150	150
AXN	315	315	300	315	315	315	315	315	300	315	300	311	312	312	312	315	312	312	309
BBB	330	330	330	0	0	180	0	0	0			130	198	168	102	36	36	45	0
BDE	330	315	315	330	330	135	330	315	315			302	324	285	288	288	285	274	320
BDH																			
BFW	60	60	60	60	60	60	60	60	60			60	60	60	60	60	60	60	60
BJI	315	315	315	315	315	135	300	300	300	300		291	315	279	276	273	270	267	300
BRD	210	210	180	180	180	180	180	180	180	180	180	185	192	186	180	180	180	180	180
CBG	270	150	270	150	150	150	150	150	150			177	198	174	174	150	150	150	150
CKC	0	0	315	315	330	330	0	330	330			217	192	258	258	261	264	248	220
CKN	330	180	330	180	180	330	330	180	180	180		240	240	240	270	240	240	240	218
COQ	90	315	270	315	315	90	90	300	300			232	261	261	216	222	219	195	230
CQM	300	300	300	270	300	180	300	270	300			280	294	270	270	264	270	263	290
DLH	315	315	315	315	315	90	90	315	315	315	315	274	315	270	225	225	225	225	270
DTL	135	315	315	150	330	150	315	315	150	315	135	239	249	252	252	252	252	249	246
DVP						210	315	180	150			214		210	263	235	214	214	215
DYT							45	225	45	45	45	81		45	135	105	90	81	
EAU	180	225	225	270	180	225	150	180	270	240	225	215	216	225	210	201	201	213	213
ELO	225	225	225	300	300	270	315	300	300			273	255	264	282	297	297	296	305
EVM	315	300	300	300	315	300	315	300	300			305	306	303	306	306	304	305	
FAR	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
FBL	180	180	180	180	180	180	180	180	180	180		177	180	180	180	180	174	173	170
FCM	315	210	210	315	330	210	330	210	300	315	330	280	276	255	279	279	276	273	297
FFM	135	135	135	150	150	150	150	150	150	150	135	145	141	144	147	150	150	150	147
FGN	150	150	150	150	150	150	150	150	150	150		150	150	150	150	150	150	150	150
FKA					180	315	315	315	315	315		293	180	248	270	281	288	315	315
FOZ	150	180	150	180	180	150	150	180	150			163	168	168	162	168	162	158	160
FRM	330	330	330	330	330	330	330	330	330	330	315	329	330	330	330	330	330	330	327
FSD	180	180	180	180	180	150	315	180	180	315	180	202	180	174	201	201	201	228	234
FSE	180	180	180	180	180	180	180	180	180			180	180	180	180	180	180	180	180
GDB					315	315	315	315	315	300		313	315	315	315	315	315	312	311
GFK	180	180	180	180	180	180	330	180	180	330	180	207	180	180	210	210	210	240	240
GHW	300	300	270	315	315	300	300	300	300	300		300	300	300	300	306	303	300	300
GNA	60	60	60	60	60	60	60	60	240	60	60	76	60	60	60	96	96	96	
GPZ	150	315	315	150	315	150	315	315	315	315	315	270	249	249	249	249	282	282	315
GYL		300	315	315	300	300	300	180	300			289	308	306	306	279	276	270	260
HCD	300	300	300	315	315	135	300	300	300			285	306	273	273	273	270	259	300
HCO	150	150	150	150	330	150	150	150	150	330	180	185	186	186	186	186	186	186	192





Call Sign	2000_1	2001_1	2002_1	2003_1	2004_1	2005_1	2006_1	2007_1	2008_1	2009_1	2010_1	2000 - 2010_1s	2000 - 2004_1s	2001 - 2005_1s	2002 - 2006_1s	2003 - 2007_1s	2004 - 2008_1s	2005 - 2009_1s	2006 - 2010_1s
	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	stDir_ Deg	tDir_De g	tDir_De g	tDir_De g	tDir_De g	tDir_De g	tDir_De g	tDir_De g	tDir_De g
HIB	330	315	315	315	315	315	330	330	330	315	330	322	318	315	318	321	324	324	327
HZX					315	315	315	315	315			315	315	315	315	315	315	315	315
ILL																			
INL	180	300	300	300	300	270	300	300	300	270	270	281	276	294	294	294	288	288	288
JKJ					180	150	150	180	180	150	150	163	180	165	160	165	168	162	162
JMR	330	315	315	315	315	315	315	315	315			317	318	315	315	315	315	315	315
LJF	315	315	300	315	315	150	315	300	315			293	312	279	279	279	270	310	310
LSE	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
LVN	300	300	300	300	180	270	270	180	270			263	276	270	264	240	234	248	240
LXL	315	300	135	300	300	135	300	300	300			265	270	234	234	267	267	259	300
LYV						180	180	180	180			180	180	180	180	180	180	180	180
MIC	315	300	150	300	315	150	150	180	150	150	315	225	276	243	213	219	189	156	189
MJQ	180	180	180	315	180	315	315	180	315	315	315	254	207	234	261	261	261	288	288
MKT	315	180	180	315	315	180	315	180	315	315	315	266	261	234	261	261	261	261	288
MML	330	330	330	330	330	315	315	315	300	315	315	320	330	327	324	321	315	312	312
MOX	315	315	135	315	315	135	315	315	315	315	135	266	279	243	243	279	279	279	279
MSP	315	315	300	315	315	135	315	315	315	315	315	297	312	276	276	279	279	279	315
MVE	315	315	315	315	0	180	0	0	0	0		144	252	225	162	99	36	36	0
MWM	315	315	180	315	315	315	315	315	315	315	315	302	288	288	288	315	315	315	315
MZH		210	225	60	315	60	60	210	315			182	203	174	144	141	192	161	195
ONA	315	300	300	315	315	315	315	315	315			312	309	309	312	315	315	315	315
ORB	315	315	315	315	315	315	315	315	315			315	315	315	315	315	315	315	315
OTG	180	180	210	210	180	180	180	180	150			183	192	192	192	186	174	173	170
OVL					150	315	315	315	315	315	315	291	150	233	260	274	282	315	315
OWA	150	150	180	150	150	150	150	150	150			153	156	156	156	150	150	150	150
PEX						135	135	300	135			176		135	135	190	176	176	190
PKD	135	315	300	300	315	135	300	315	315	315	300	277	273	273	270	273	276	276	309
PQN	150	180	180	210	180	180	180	210	180			183	180	186	186	192	186	188	190
PWC	135	150	150	150	150	150	315	150	150			167	147	150	183	183	183	191	205
RGK	300	135	300	300	135	135	135	135	135			190	234	201	201	168	135	135	135
ROS		45	270	150	150	150	150	150	150			152	154	153	174	150	150	150	150
ROX	180	180	270	180	180	300	300	300	300			243	198	222	246	252	276	300	300
RRT	210	225	240	315	315	225	315	225	225	300		260	261	264	282	279	261	258	266
RST	210	315	180	300	180	180	315	180	180	315	315	243	237	231	231	231	207	234	261
RWF	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315
SAZ	300	300	300	300	315	300	300	300	300			302	303	303	303	303	303	300	300
SGS	135	150	150	150	150	135	150	150	150			147	147	147	147	147	147	146	150
STC	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315
STP	150	150	150	150	150	150	150	150	150	135	135	147	150	150	150	150	147	144	144
SUW						60	225	225	225	225	45	156		60	143	170	184	156	156
TVF	210	210	210	315	315	315	315	315	315	315		284	252	273	294	315	315	315	315
ULM	315	150	315	315	315	315	315	315	315			297	282	282	315	315	315	315	315
VVV	315	315	135	315	330	135	135	330	135	330		248	282	246	210	249	213	213	233
XVG		300	300	300	300	300	300	300	300			300	300	300	300	300	300	300	300

Call Sign	USAF	Location	State	*Is Station Useable?	2000_	2001_	2002_	2003_	2004_	2005_	2006_	2007_	2008_	2009_	2010_	Station Type
					2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt		
ABR	726590	Aberdeen	SD	Useable	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE		ASOS
ADC	726561	Wadena	MN	Caution			WNW	WNW	WNW	NW	NW	WNW	WNW			AWOS IIIP/T
AEL	726589	Albert Lea	MN	Useable	NW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW		AWOS IIIP/T
AIT	727504	Aitkin	MN	Not Useable	S	SSE	SSE	NW	SSE	S	NW	S	SSE			AWOS IIIP/T
ANE	726577	Minneapolis/Blaine	MN	Caution	NW	WNW	W	WNW	NW	WNW	NW	WNW	WNW			AWOS IIIP
ATY	726546	Watertown	SD	Useable	SE	SE	WNW	NW	S	S	NW	S	S	S		ASOS
AXN	726557	Alexandria	MN	Useable	SE	WNW	S	WNW	WNW	SE	WNW	WNW	NW	WNW	SE	ASOS
BBB	727507	Benson	MN	Caution	SSE	S	S	S	S	N	S	S	S			AWOS IIIP/T
BDE	727476	Baudette	MN	Not Useable	SSW	NNW	NNW	NW	NW	NW	NW	NNW	NNW			ASOS
BDH	720386	Willmar	MN	Not Useable												AWOS IIIP/T
BFW	727556	Silver Bay	MN	Not Useable	NW	NW	WNW	NW	NW	E	NNW	NNW	NNW			AWOS IIIP/T
BJI	727550	Bemidji	MN	Useable	WNW	WNW	WNW	WNW	WNW	WNW	W	NW	W	W		AWOS III
BRD	726555	Brainerd	MN	Useable	SW	S	SSW	SSW	NNW	SSW	SSE	SSW	SSE	SSE	NNW	ASOS
CBG	727503	Cambridge	MN	Not Useable	SSE	W	SSE	WNW	WNW	S	SE	S	WNW			AWOS IIIP/T
CKC	727454	Grand Marais Arpt	MN	Caution	NNE	NNW	WNW	NNW	NW	NW	NNW	NW	NW			AWOS IIIP/T
CKN	727452	Crookston	MN	Useable	S	NNW	S	NNW	N	SSE	S	N	N	NNW		AWOS IIIP/T
COQ	726558	Cloquet	MN	Caution	NW	NNW	NNW	NNW	E	ESE	NW	NW	NW			AWOS IIIP/T
CQM	726549	Cook	MN	Not Useable	W	W	W	WNW	W	SSE	W	S	W			AWOS IIIP
DLH	727450	Duluth	MN	Useable	ESE	NNW	WNW	WNW	E	ESE	NW	WNW	WNW	WNW	ESE	ASOS
DTL	727457	Detroit Lakes	MN	Useable	NW	SE	SE	NW	SSE	SE	SSE	SSE	NW	NNW	NW	AWOS IIIP/T
DVP	720368	Slayton	MN	Not Useable						S	SSE	NW	NW			AWOS IIIP/T
DYT	727456	Duluth Sky Harbor	MN	Useable							ENE	NE	SW	SW	SW	AWOS IIIP/T
EAU	726435	Eau Claire	WI	Useable	W	S	WSW	SSE	SSE	S	W	SW	SW	W	WSW	ASOS
ELO	727459	Ely	MN	Not Useable	NW	NW	W	W	SW	SW	WNW	NW	NW			AWOS IIIP
EVM	727474	Eveleth	MN	Not Useable	WNW	NW	W	NW	WNW	NW	WNW	NW	NW			AWOS IIIP/T
FAR	727530	Fargo	ND	Useable	S	S	S	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	ASOS
FBL	726563	Faribault	MN	Not Useable	SSW	SSW	SSW	WNW	SSW	SSW	SSE	SSE	S			AWOS IIIP/T
FCM	726579	Flying Cloud Arpt.	MN	Useable	SSW	WNW	SW	WNW	SSW	SE	NW	S	NW	WNW	NW	ASOS
FFM	726560	Fergus Falls	MN	Useable	NW	NW	SSE	NNW	NNW	SE	NNW	NNW	NNW	NNW	SSE	AWOS IIIP
FGN	727467	Flag Island	MN	Useable	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW		AWOS IIIP
FKA	720283	Preston	MN	Useable					SSW	S	S	SSW	S	S		AWOS IIIP/T
FOZ	727468	Bigfork	MN	Not Useable	S	SSW	S	SSE	SSE	S	S	SSW	S			AWOS IIIP
FRM	726586	Fairmont	MN	Useable	S	S	S	S	S	S	S	S	S	S	NNW	AWOS III
FSD	726510	Sioux Falls	SD	Useable	NW	NW	WNW	SSE	SSE	S	S	NW	NW	S	NW	ASOS
FSE	727505	Fosston	MN	Caution	SSE	SSE	SSE	SSE	NW	SSE	SSE	SSW	SSE			AWOS IIIP/T
GDB	722033	Granite Falls	MN	Useable					SE	SE	WNW	WNW	WNW	NW		AWOS IIIP/T
GFK	727576	Grand Forks	ND	Useable	NNW	NNW	N	SSE	NNW	N	SSE	NNW	NNW	S	NNW	ASOS
GHW	726547	Glenwood	MN	Useable	NW	NW	WNW	WNW	WNW	NW	NW	NW	NW	NW		AWOS IIIP/T
GNA	727469	Grand Marais	MN	Useable	WSW	WSW	WSW	NNW	WSW	WSW	WSW	WSW	WSW	ENE	NNW	ASOS
GPZ	727458	Grand Rapids	MN	Useable	NW	SSE	SSE	NW	SSE	SE	SSE	SSE	SSE	WNW	SE	AWOS III
GYL	727517	Glencoe	MN	Caution		NW	WNW	WNW	NW	S	NW	WNW	NW			AWOS IIIP/T
HCD	726569	Hutchinson	MN	Caution	NW	NW	NW	WNW	NNW	WNW	NW	SE	SE			AWOS IIIP/T
HCO	727478	Hallock	MN	Useable	NW	NW	NW	NNW	SSE	NNW	NNW	NNW	NNW	SSE	NNW	AWOS IIIP/T

Call Sign	USAF	Location	State	*Is Station Useable?	2000_	2001_	2002_	2003_	2004_	2005_	2006_	2007_	2008_	2009_	2010_	Station Type
					2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt	2ndDir _Txt		
HIB	727455	Hibbing	MN	Useable	N	NNW	NNW	NNW	SE	SE	NW	NW	NW	NNW	NW	ASOS
HZX	720258	McGregor	MN	Not Useable					S	E	E	S	WNW			AWOS IIIP/T
ILL	726576	Willmar	MN	Not Useable												
INL	727470	International Falls	MN	Useable	W	W	W	SSE	S	WNW	W	W	W	WNW	WNW	ASOS
JKJ	722129	Moorhead	MN	Useable					SSE	S	S	SSE	SSE	N	S	AWOS IIIP/T
JMR	727475	Mora	MN	Not Useable	NW	WNW	W	WNW	NNW	SSE	WNW	SSE	WNW			AWOS IIIP/T
LJF	726583	Litchfield	MN	Caution	WNW	WNW	NW	SSE	SSE	NW	SSE	SSE	SSE			AWOS IIIP/T
LSE	726430	La Crosse	WI	Useable	NNW	SSW	SSW	NNW	NNW	NNW	NNW	SSE	SSE	NNW	NNW	ASOS
LVN	726562	Airlake	MN	Not Useable	NW	W	W	W	W	S	WNW	W	WNW			AWOS IIIP/T
LXL	726578	Little Falls	MN	Not Useable	SE	SE	WNW	SE	SE	WNW	SE	SE	SE			AWOS IIIP/T
LYV	722006	Luverne	MN	Not Useable						SSE	NW	SSE	SSE			AWOS IIIP/T
MIC	726575	Minneapolis/Crystal	MN	Useable	SSE	SSE	W	NW	SSE	S	WNW	SSE	NW	WNW	WNW	ASOS
MJQ	726593	Jackson	MN	Useable	NW	NW	SSW	S	NW	S	NNW	NW	SSE	NNW	S	AWOS IIIP/T
MKT	726585	Mankato	MN	Useable	S	NW	NW	S	S	SE	S	NW	S	SSE	S	AWOS III
MML	726559	Marshall	MN	Useable	NW	NW	NW	NW	SSW	NNW	NNW	WNW	NW	WNW	WNW	AWOS III
MOX	726565	Morris	MN	Useable	SE	SE	NW	SE	SE	NW	SE	SE	SE	NNW	NW	AWOS IIIP/T
MSP	726580	Minneapolis/St. Paul Int'l Arpt	MN	Useable	SE	SE	NW	SSE	SE	NW	SE	WNW	SE	SE	SE	ASOS
MVE	726553	Montevideo	MN	Useable	SE	SSE	SSE	S	S	N	NNW	NNW	S	NNW		AWOS IIIP/T
MWM	727506	Windom	MN	Useable	SSW	S	NW	S	S	SSE	SSE	S	SSE	S		AWOS IIIP
MZH	727449	Moose Lake	MN	Not Useable		SW	SSW	NW	SSW	NE	NE	NW	ENE			AWOS IIIP/T
ONA	726588	Winona	MN	Not Useable	ESE	NW	NW	WNW	SE	SE	SE	SE	SE			AWOS IIIP/T
ORB	726544	Orr	MN	Not Useable	WNW	WNW	WNW	SSE	SSE	SE	WNW	WNW	SSE			AWOS IIIP/T
OTG	726587	Worthington	MN	Not Useable	SSW	SSW	S	SW	SSW	SSW	NNW	SSW	NW			AWOS III
OVL	722168	Olivia	MN	Useable					S	SSE	SSE	SSE	SSE	NNW	SSE	AWOS IIIP/T
OWA	726568	Owatonna	MN	Caution	WNW	S	SSE	WNW	NW	SE	WNW	S	SE			AWOS IIIP
PEX	720367	Paynesville	MN	Not Useable						SSE	WNW	SSE	WNW			AWOS IIIP/T
PKD	727453	Park Rapids	MN	Useable	WNW	SE	NW	SSE	NNW	SSE	NW	S	NNW	NNW	SE	ASOS
PQN	726566	Pipestone	MN	Not Useable	NW	SSE	WNW	S	SSW	SSW	NNW	S	NNW			AWOS IIIP
PWC	727508	Pine River	MN	Not Useable	NW	NW	NNW	NW	NW	SE	SSE	NW	NW			AWOS IIIP
RGK	726564	Red Wing	WI	Not Useable	SE	WNW	W	SE	WNW	ESE	WNW	WNW	WNW			AWOS IIIP/T
ROS	726679	Rush City	MN	Caution		NNE	S	S	NE	S	W	S	W			AWOS IIIP/T
ROX	727477	Roseau	MN	Caution	W	W	S	WNW	WNW	S	S	W	S			AWOS IIIP/T
RRT	726548	Warroad	MN	Useable	SW	SSW	SW	SW	SW	W	W	NW	WSW	SW		AWOS IIIP/T
RST	726440	Rochester	MN	Useable	NW	SSW	SSW	NW	NW	NW	S	NW	SSE	S	S	ASOS
RWF	726556	Redwood Falls	MN	Useable	SE	WNW	WNW	WNW	SE	SE	WNW	SSE	SSE	SSE	WNW	ASOS
SAZ	727514	Staples	MN	Not Useable	NW	S	W	SSE	S	SSE	NW	S	NW			AWOS IIIP
SGS	726603	South St. Paul	MN	Not Useable	SSE	SE	W	SE	SE	SSE	SE	NW	NW			AWOS IIIP/T
STC	726550	St. Cloud	MN	Useable	NNW	S	SSE	SSE	SSE	SSE	NNW	S	SSE	NNW	NNW	ASOS
STP	726584	St. Paul Downtown Arpt	MN	Useable	NW	NW	NW	NW	NW	SE	NW	SE	SE	SSE	NW	ASOS
SUV	726427	Superior	WI	Not Useable							SW	ENE	ENE	NE	ENE	AWOS IIIP
TVF	727555	Thief River Falls	MN	Useable	S	NW	NW	SSE	S	S	SSE	SSW	S	S		AWOS III
ULM	726567	New Ulm Mun. Arpt	MN	Caution	SSE	WNW	SSE	SSE	SSE	SSE	SSE	SSE	SSE			AWOS IIIP
VVV	727515	Ortonville	MN	Useable	SE	SE	NW	NNW	SE	NW	NNW	SE	NNW	SE		AWOS IIIP
XVG	727497	Longville	MN	Not Useable		S	SSE	SSE	NW	SSE	SSE	SSE	NW			AWOS IIIP

Call Sign	2000_	2001_	2002_	2003_	2004_	2005_	2006_	2007_	2008_	2009_	2010_	2000 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2010_2n	2004_2n	2005_2n	2006_2n	2007_2n	2008_2n	2009_2n	2010_2n
	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	dDir_De	dDir_De	dDir_De	dDir_De	dDir_De	dDir_De	dDir_De	dDir_De
												g	g	g	g	g	g	g	g
ABR	150	150	150	150	150	150	150	150	150	150		150	150	150	150	150	150	150	150
ADC			300	300	300	315	315	300	300			304	300	304	306	306	306	308	305
AEL	315	300	300	300	315	315	315	315	315	315		311	306	306	309	312	315	315	315
AIT	180	150	150	315	150	180	315	180	150			197	189	189	222	228	195	206	215
ANE	315	300	270	300	315	300	315	300	300			302	300	297	300	306	306	304	305
ATY	135	135	300	315	180	180	315	180	180	180		210	213	222	258	234	207	207	214
AXN	135	300	180	300	300	135	300	300	315	300	135	245	243	243	243	267	270	270	270
BBB	150	180	180	180	180	0	180	180	180			157	174	144	144	144	144	135	180
BDE	210	330	330	315	315	315	315	330	330			310	300	321	318	318	321	323	325
BDH																			
BFW	315	315	300	315	315	90	330	330	330			293	312	267	270	276	279	270	330
BJI	300	300	300	300	300	300	270	315	270	270		293	300	300	294	297	291	285	281
BRD	225	180	210	210	330	210	150	210	150	150	330	214	231	228	222	222	210	174	198
CBG	150	270	150	300	300	180	135	180	300			218	234	240	213	219	219	199	205
CKC	30	330	300	330	315	315	330	315	315			287	261	318	318	321	318	319	320
CKN	180	330	180	330	0	150	180	0	0	330		168	204	198	168	132	66	132	128
COQ	315	330	330	330	90	120	315	315	315			273	279	240	237	234	231	266	315
CQM	270	270	270	300	270	150	270	180	270			250	276	252	252	234	228	218	240
DLH	120	330	300	300	90	120	315	300	300	300	120	236	228	228	225	225	225	267	267
DTL	315	135	135	315	150	135	150	150	315	330	315	222	210	174	177	180	180	216	252
DVP						180	150	315	315			240		180	165	215	240	240	260
DYT							60	45	225	225	225	156			60	53	110	139	156
EAU	270	180	240	150	150	180	270	225	225	270	240	218	198	180	198	195	210	234	246
ELO	315	315	270	270	225	225	300	315	315			283	279	261	258	267	276	289	310
EVM	300	315	270	315	300	315	300	315	315			305	300	303	300	309	309	311	310
FAR	180	180	180	330	330	330	330	330	330	330	330	289	240	270	300	330	330	330	330
FBL	210	210	210	300	210	210	150	150	180			203	228	228	216	204	180	173	160
FCM	210	300	225	300	210	135	315	180	315	300	315	255	249	234	237	228	231	249	285
FFM	315	315	150	330	330	135	330	330	330	330	150	277	288	252	255	291	291	291	294
FGN	315	315	315	315	315	315	315	315	315	315		315	315	315	315	315	315	315	315
FKA					210	180	180	210	180	180		190	210	195	190	195	192	186	188
FOZ	180	210	180	150	150	180	180	210	180			180	174	174	168	174	180	188	190
FRM	180	180	180	180	180	180	180	180	180	180	330	194	180	180	180	180	180	180	210
FSD	315	315	300	150	150	180	180	315	315	180	315	247	246	219	192	195	228	234	261
FSE	150	150	150	150	315	150	150	210	150			175	183	183	183	195	195	165	170
GDB					135	135	300	300	300	315		248	135	135	190	218	234	270	304
GFK	330	330	0	150	330	0	150	330	330	180	330	224	228	162	126	192	228	198	264
GHW	315	315	300	300	300	315	315	315	315	315		311	306	306	306	309	312	315	315
GNA	240	240	240	330	240	240	240	240	60	330	240	240	258	258	258	204	222	222	
GPZ	315	150	150	315	150	135	150	150	150	300	135	191	216	180	180	180	147	177	177
GYL		315	300	300	315	180	315	300	315			293	308	282	282	282	285	278	310
HCD	315	315	315	300	330	300	315	135	135			273	315	312	312	276	243	221	195
HCO	315	315	315	330	150	330	330	330	330	150	330	293	285	288	291	294	294	294	294

Call Sign	2000_	2001_	2002_	2003_	2004_	2005_	2006_	2007_	2008_	2009_	2010_	2000 -	2000 -	2001 -	2002 -	2003 -	2004 -	2005 -	2006 -
	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2ndDir	2010_2n	2004_2n	2005_2n	2006_2n	2007_2n	2008_2n	2009_2n	2010_2n
	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	_Deg	dDir_De	dDir_De	dDir_De	dDir_De	dDir_De	dDir_De	dDir_De	dDir_De
												g	g	g	g	g	g	g	g
HIB	0	330	330	330	135	135	315	315	315	330	315	259	225	252	249	246	243	282	318
HZX					180	90	90	180	300			168	180	135	120	135	168	165	190
ILL																			
INL	270	270	270	150	180	300	270	270	270	300	300	259	228	234	234	234	258	282	282
JKJ					150	180	180	150	150	0	180	141	150	165	170	165	162	132	132
JMR	315	300	270	300	330	150	300	150	300			268	303	270	270	246	246	225	250
LJF	300	300	315	150	150	315	150	150	150			220	243	246	216	183	183	191	150
LSE	330	210	210	330	330	330	330	150	150	330	330	275	282	282	306	294	258	258	258
LVN	315	270	270	270	270	180	300	270	300			272	279	252	258	258	264	263	290
LXL	135	135	300	135	135	300	135	135	135			172	168	201	201	168	168	176	135
LYV						150	315	150	150			191		150	233	205	191	191	205
MIC	150	150	270	315	150	180	300	150	315	300	300	235	207	213	243	219	219	249	273
MJQ	315	315	210	180	315	180	330	315	150	330	180	256	267	240	243	264	258	261	261
MKT	180	315	315	180	180	135	180	315	180	150	180	210	234	225	198	198	198	192	201
MML	315	315	315	315	210	330	330	300	315	300	300	304	294	297	300	297	297	315	309
MOX	135	135	315	135	135	315	135	135	135	330	315	202	171	207	207	171	171	210	210
MSP	135	135	315	150	135	315	135	300	135	135	135	184	174	210	210	207	204	204	168
MVE	135	150	150	180	180	0	330	330	180	330		197	159	132	168	204	204	234	293
MWM	210	180	315	180	180	150	150	180	150	180		188	213	201	195	168	162	162	165
MZH		225	210	315	210	45	45	315	60			178	240	201	165	186	135	116	140
ONA	120	315	315	300	135	135	135	135	135			192	237	240	204	168	135	135	135
ORB	300	300	300	150	150	135	300	300	150			232	240	207	207	207	207	221	250
OTG	210	210	180	225	210	210	330	210	315			233	207	207	231	237	255	266	285
OVL					180	150	150	150	150	330	150	180	180	165	160	158	156	186	186
OWA	300	180	150	300	315	135	300	180	135			222	249	216	240	246	213	188	205
PEX						150	300	150	300			225		150	225	200	225	225	250
PKD	300	135	315	150	330	150	315	180	330	330	135	243	246	216	252	225	261	261	258
PQN	315	150	300	180	210	210	330	180	330			245	231	210	246	222	252	263	280
PWC	315	315	330	315	315	135	150	315	315			278	318	282	249	246	246	229	260
RGK	135	300	270	135	300	120	300	300	300			240	228	225	225	231	264	255	300
ROS		30	180	180	45	180	270	180	270			167	109	123	171	171	189	225	240
ROX	270	270	180	300	300	180	180	270	180			237	264	246	228	246	222	203	210
RRT	225	210	225	225	225	270	270	315	240	225		243	222	231	243	261	264	264	263
RST	315	210	210	315	315	315	180	315	150	180	180	244	273	273	267	288	255	228	201
RWF	135	300	300	300	135	135	300	150	150	150	300	214	234	234	234	204	174	177	210
SAZ	315	180	270	150	180	150	315	180	315			228	219	186	213	195	228	240	270
SGS	150	135	270	135	135	150	135	315	315			193	165	165	165	174	210	229	255
STC	330	180	150	150	150	150	330	180	150	330	330	221	192	156	186	192	192	228	264
STP	315	315	315	315	315	135	315	135	135	150	315	251	315	279	279	243	207	174	210
SUW							225	60	60	45	60	90			225	143	115	98	90
TVF	180	315	315	150	180	180	150	210	180	180		204	228	228	195	174	180	180	180
ULM	150	300	150	150	150	150	150	150	150			167	180	180	150	150	150	150	150
VVV	135	135	315	330	135	315	330	135	330	135		230	210	246	285	249	249	249	233
XVG		180	150	150	315	150	150	150	315			195	199	189	183	183	216	191	205

SFC Data Avail

%

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ABR	98.55%	98.95%	98.47%	98.49%	97.97%	98.39%	97.87%	97.28%	97.23%	98.20%	
ADC			66.61%	98.42%	98.83%	99.24%	98.56%	97.31%	98.29%		
AEL	95.97%	88.13%	96.60%	98.09%	98.38%	99.19%	97.73%	97.96%	96.90%	93.73%	
AIT	95.57%	79.67%	95.48%	98.34%	98.10%	99.46%	98.26%	96.96%	97.79%		
ANE	93.69%	82.23%	93.93%	96.29%	97.85%	95.80%	91.19%	90.86%	94.67%		
ATY	98.16%	98.17%	98.80%	98.48%	97.63%	98.64%	97.20%	95.81%	96.71%	97.31%	
AXN	98.71%	98.82%	97.21%	98.18%	98.04%	98.64%	97.79%	98.71%	99.57%	99.71%	98.21%
BBB	93.07%	88.78%	96.59%	97.89%	98.94%	98.32%	98.80%	97.88%	98.17%		
BDE	92.03%	82.77%	86.53%	86.93%	89.32%	88.95%	87.20%	91.53%	92.58%		
BDH											
BFW	94.50%	70.02%	94.12%	96.72%	98.83%	99.22%	99.05%	98.58%	98.29%		
BJI	97.94%	91.38%	97.18%	98.44%	97.50%	99.10%	96.10%	98.12%	98.72%	99.51%	
BRD	80.87%	73.88%	89.17%	91.94%	96.53%	95.66%	99.43%	99.14%	99.73%	99.54%	99.63%
CBG	91.23%	77.29%	95.67%	98.52%	99.07%	99.51%	97.23%	98.70%	97.86%		
CKC	92.07%	89.51%	95.18%	98.24%	98.98%	99.52%	95.71%	97.65%	96.99%		
CKN	86.54%	91.32%	96.16%	98.22%	97.52%	99.02%	98.55%	98.76%	97.52%	99.10%	
COQ	91.85%	87.35%	96.47%	98.74%	99.02%	99.58%	99.11%	98.70%	96.98%		
CQM	88.75%	72.31%	88.86%	92.96%	97.79%	94.94%	99.04%	98.80%	96.25%		
DLH	98.63%	98.00%	98.79%	98.55%	98.90%	98.94%	99.76%	99.73%	99.62%	99.86%	99.86%
DTL	87.73%	85.17%	94.20%	98.08%	99.08%	99.62%	99.21%	98.85%	98.71%	98.87%	98.12%
DVP						13.47%	93.18%	98.20%	98.83%		
DYT							98.26%	98.00%	97.13%	95.97%	97.88%
EAU	98.35%	97.51%	97.20%	96.77%	97.38%	96.96%	99.52%	99.34%	99.70%	99.85%	99.74%
ELO	89.82%	73.86%	93.87%	97.64%	99.07%	99.55%	99.00%	97.33%	97.51%		
EVM	88.08%	80.39%	96.13%	98.68%	99.08%	99.66%	99.16%	98.56%	98.29%		
FAR	98.55%	98.93%	98.63%	98.60%	98.50%	98.33%	99.69%	99.77%	99.84%	99.82%	99.75%
FBL	94.16%	87.93%	96.43%	98.30%	99.09%	75.45%	97.63%	97.73%	98.05%		
FCM	95.90%	91.31%	95.91%	95.61%	96.61%	97.01%	99.47%	99.12%	99.54%	99.84%	99.86%
FFM	97.34%	92.01%	96.86%	98.44%	98.91%	96.85%	96.31%	98.09%	97.51%	97.89%	98.90%
FGN	38.33%	87.33%	92.96%	96.21%	98.09%	99.21%	98.28%	97.72%	90.19%	96.70%	
FKA					59.79%	99.41%	99.20%	98.28%	96.23%	98.90%	
FOZ	87.22%	75.18%	94.78%	97.39%	99.07%	99.49%	99.13%	98.78%	97.94%		
FRM	98.14%	91.97%	95.11%	93.70%	98.93%	99.22%	92.58%	94.78%	97.62%	98.78%	97.67%
FSD	97.45%	97.93%	98.14%	97.64%	97.80%	97.59%	99.70%	99.65%	99.80%	99.85%	99.97%
FSE	87.08%	89.26%	96.22%	97.83%	99.11%	99.39%	99.13%	98.79%	98.02%		
GDB					44.27%	99.25%	99.12%	96.30%	98.77%	99.38%	
GFK	98.32%	98.80%	98.14%	98.66%	99.18%	99.25%	99.73%	99.66%	99.85%	99.85%	99.97%
GHW	93.10%	93.48%	97.45%	98.21%	99.09%	99.54%	99.12%	98.36%	97.94%	99.36%	
GNA	81.11%	65.67%	61.34%	80.42%	76.82%	81.34%	97.37%	97.96%	98.51%	99.63%	99.16%
GPZ	94.71%	82.41%	96.54%	98.76%	95.33%	99.35%	97.82%	96.05%	98.17%	99.32%	98.29%
GYL		28.34%	87.15%	90.33%	98.32%	99.60%	99.05%	98.85%	97.95%		
HCD	92.46%	85.38%	95.18%	94.22%	98.75%	98.40%	99.10%	98.73%	95.13%		
HCO	87.73%	88.08%	96.74%	97.85%	99.06%	99.05%	98.15%	95.32%	91.85%	99.49%	98.22%
HIB	92.87%	93.58%	94.50%	94.46%	94.82%	98.01%	99.39%	97.03%	99.67%	99.84%	99.65%
HZX					59.54%	99.43%	98.88%	98.47%	98.49%		

SFC Data Avail

%

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ILL											
INL	97.09%	97.37%	97.45%	97.01%	97.32%	97.42%	98.58%	99.78%	99.42%	99.78%	99.85%
JKJ					59.34%	98.69%	99.11%	98.84%	98.52%	99.43%	99.20%
JMR	87.03%	73.77%	95.51%	98.15%	99.09%	99.59%	99.21%	98.03%	97.94%		
LJF	87.78%	87.20%	96.08%	85.05%	96.23%	98.86%	98.58%	97.63%	98.20%		
LSE	97.31%	95.43%	96.83%	96.20%	96.65%	96.29%	99.50%	99.63%	99.78%	99.76%	99.95%
LVN	99.09%	79.98%	96.04%	98.55%	99.10%	99.60%	98.85%	98.44%	98.02%		
LXL	93.09%	72.15%	91.29%	96.92%	98.91%	99.44%	98.97%	98.72%	98.03%		
LYV						89.08%	99.06%	98.64%	98.96%		
MIC	96.63%	85.42%	95.55%	95.81%	96.27%	96.84%	99.46%	99.54%	99.90%	99.75%	99.93%
MJQ	91.50%	86.02%	97.56%	98.70%	98.60%	99.47%	99.10%	98.77%	97.58%	98.32%	99.05%
MKT	98.28%	92.63%	97.75%	98.56%	98.50%	93.58%	97.72%	86.32%	97.15%	99.38%	96.66%
MML	97.94%	92.28%	97.03%	97.50%	97.70%	98.52%	92.65%	95.01%	98.70%	98.25%	98.65%
MOX	80.64%	83.53%	96.53%	98.08%	99.09%	99.67%	99.16%	97.82%	94.68%	98.14%	98.84%
MSP	99.85%	99.46%	99.77%	99.74%	99.89%	96.76%	99.52%	99.81%	99.94%	99.87%	99.98%
MVE	89.88%	91.44%	97.23%	98.52%	98.77%	99.35%	99.18%	98.80%	96.70%	98.38%	
MWM	97.04%	88.79%	95.72%	98.44%	96.35%	99.57%	98.90%	98.66%	98.33%	98.26%	
MZH		23.85%	88.05%	92.52%	99.03%	99.62%	97.88%	98.76%	98.57%		
ONA	92.91%	69.92%	96.08%	98.88%	97.46%	97.88%	99.06%	95.99%	98.09%		
ORB	83.57%	73.53%	92.79%	95.37%	99.00%	99.65%	99.09%	98.30%	97.34%		
OTG	96.15%	94.79%	85.16%	88.16%	95.38%	94.57%	96.42%	85.48%	97.88%		
OVL					59.81%	99.66%	98.95%	98.65%	96.73%	98.54%	96.39%
OWA	93.24%	89.73%	93.04%	95.56%	96.58%	98.62%	98.09%	97.43%	96.43%		
PEX						13.03%	94.10%	98.86%	98.83%		
PKD	95.47%	92.35%	94.76%	94.01%	96.31%	96.93%	99.26%	99.08%	99.95%	99.69%	99.59%
PQN	83.91%	87.12%	95.97%	97.89%	98.96%	98.32%	98.80%	89.67%	93.80%		
PWC	92.05%	79.98%	94.78%	98.53%	99.09%	97.75%	98.88%	98.49%	98.34%		
RGK	84.11%	81.20%	94.46%	97.93%	98.98%	98.68%	99.10%	98.78%	97.77%		
ROS		24.58%	85.14%	93.46%	99.09%	99.30%	98.90%	98.92%	95.75%		
ROX	77.46%	89.09%	96.66%	96.50%	97.18%	99.58%	97.51%	98.82%	97.22%		
RRT	95.77%	90.08%	94.47%	96.92%	98.88%	99.29%	99.16%	97.80%	97.10%	99.42%	
RST	98.90%	98.97%	98.08%	98.47%	98.74%	98.71%	99.77%	99.75%	99.93%	99.85%	99.92%
RWF	95.74%	96.78%	97.41%	96.36%	96.81%	97.41%	98.97%	99.76%	99.86%	99.81%	99.92%
SAZ	92.16%	84.04%	95.79%	97.99%	99.02%	99.52%	99.16%	98.53%	98.42%		
SGS	92.04%	78.47%	93.50%	97.21%	97.72%	99.46%	94.74%	98.80%	98.35%		
STC	96.82%	98.03%	97.71%	97.24%	97.37%	97.42%	99.58%	99.65%	99.70%	99.83%	99.95%
STP	95.21%	65.87%	92.67%	95.49%	96.13%	99.59%	98.22%	99.41%	99.90%	99.78%	99.67%
SUW							99.19%	96.78%	98.80%	97.90%	98.05%
TVF	98.12%	93.15%	97.19%	94.74%	90.98%	97.93%	96.32%	93.11%	95.78%	98.64%	
ULM	80.70%	86.80%	96.82%	97.36%	98.94%	99.21%	98.14%	98.84%	97.88%		
VVV	76.35%	90.48%	96.19%	97.95%	97.81%	99.17%	98.88%	97.97%	97.24%	98.11%	
XVG		25.26%	93.18%	97.76%	98.82%	98.89%	95.50%	97.55%	98.14%		
Average	91.72%	83.68%	94.34%	96.46%	95.06%	95.78%	98.08%	97.67%	97.82%	98.94%	

Missing Data

%

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ABR	1.45%	1.05%	1.53%	1.51%	2.03%	1.61%	2.13%	2.72%	2.77%	1.80%	
ADC			33.39%	1.58%	1.17%	0.76%	1.44%	2.69%	1.71%		
AEL	4.03%	11.87%	3.40%	1.91%	1.62%	0.81%	2.27%	2.04%	3.10%	6.27%	
AIT	4.43%	20.33%	4.52%	1.66%	1.90%	0.54%	1.74%	3.04%	2.21%		
ANE	6.31%	17.77%	6.07%	3.71%	2.15%	4.20%	8.81%	9.14%	5.33%		
ATY	1.84%	1.83%	1.20%	1.52%	2.37%	1.36%	2.80%	4.19%	3.29%	2.69%	
AXN	1.29%	1.18%	2.79%	1.82%	1.96%	1.36%	2.21%	1.29%	0.43%	0.29%	1.79%
BBB	6.93%	11.22%	3.41%	2.11%	1.06%	1.68%	1.20%	2.12%	1.83%		
BDE	7.97%	17.23%	13.47%	13.07%	10.68%	11.05%	12.80%	8.47%	7.42%		
BDH											
BFW	5.50%	29.98%	5.88%	3.28%	1.17%	0.78%	0.95%	1.42%	1.71%		
BJI	2.06%	8.62%	2.82%	1.56%	2.50%	0.90%	3.90%	1.88%	1.28%	0.49%	
BRD	19.13%	26.12%	10.83%	8.06%	3.47%	4.34%	0.57%	0.86%	0.27%	0.46%	0.37%
CBG	8.77%	22.71%	4.33%	1.48%	0.93%	0.49%	2.77%	1.30%	2.14%		
CKC	7.93%	10.49%	4.82%	1.76%	1.02%	0.48%	4.29%	2.35%	3.01%		
CKN	13.46%	8.68%	3.84%	1.78%	2.48%	0.98%	1.45%	1.24%	2.48%	0.90%	
COQ	8.15%	12.65%	3.53%	1.26%	0.98%	0.42%	0.89%	1.30%	3.02%		
CQM	11.25%	27.69%	11.14%	7.04%	2.21%	5.06%	0.96%	1.20%	3.75%		
DLH	1.37%	2.00%	1.21%	1.45%	1.10%	1.06%	0.24%	0.27%	0.38%	0.14%	0.14%
DTL	12.27%	14.83%	5.80%	1.92%	0.92%	0.38%	0.79%	1.15%	1.29%	1.13%	1.88%
DVP						86.53%	6.82%	1.80%	1.17%		
DYT							1.74%	2.00%	2.87%	4.03%	2.12%
EAU	1.65%	2.49%	2.80%	3.23%	2.62%	3.04%	0.48%	0.66%	0.30%	0.15%	0.26%
ELO	10.18%	26.14%	6.13%	2.36%	0.93%	0.45%	1.00%	2.67%	2.49%		
EVM	11.92%	19.61%	3.87%	1.32%	0.92%	0.34%	0.84%	1.44%	1.71%		
FAR	1.45%	1.07%	1.37%	1.40%	1.50%	1.67%	0.31%	0.23%	0.16%	0.18%	0.25%
FBL	5.84%	12.07%	3.57%	1.70%	0.91%	24.55%	2.37%	2.27%	1.95%		
FCM	4.10%	8.69%	4.09%	4.39%	3.39%	2.99%	0.53%	0.88%	0.46%	0.16%	0.14%
FFM	2.66%	7.99%	3.14%	1.56%	1.09%	3.15%	3.69%	1.91%	2.49%	2.11%	1.10%
FGN	61.67%	12.67%	7.04%	3.79%	1.91%	0.79%	1.72%	2.28%	9.81%	3.30%	
FKA					40.21%	0.59%	0.80%	1.72%	3.77%	1.10%	
FOZ	12.78%	24.82%	5.22%	2.61%	0.93%	0.51%	0.87%	1.22%	2.06%		
FRM	1.86%	8.03%	4.89%	6.30%	1.07%	0.78%	7.42%	5.22%	2.38%	1.22%	2.33%
FSD	2.55%	2.07%	1.86%	2.36%	2.20%	2.41%	0.30%	0.35%	0.20%	0.15%	0.03%
FSE	12.92%	10.74%	3.78%	2.17%	0.89%	0.61%	0.87%	1.21%	1.98%		
GDB					55.73%	0.75%	0.88%	3.70%	1.23%	0.62%	
GFK	1.68%	1.20%	1.86%	1.34%	0.82%	0.75%	0.27%	0.34%	0.15%	0.15%	0.03%
GHW	6.90%	6.52%	2.55%	1.79%	0.91%	0.46%	0.88%	1.64%	2.06%	0.64%	
GNA	18.89%	34.33%	38.66%	19.58%	23.18%	18.66%	2.63%	2.04%	1.49%	0.37%	0.84%
GPZ	5.29%	17.59%	3.46%	1.24%	4.67%	0.65%	2.18%	3.95%	1.83%	0.68%	1.71%
GYL		71.66%	12.85%	9.67%	1.68%	0.40%	0.95%	1.15%	2.05%		
HCD	7.54%	14.62%	4.82%	5.78%	1.25%	1.60%	0.90%	1.27%	4.87%		
HCO	12.27%	11.92%	3.26%	2.15%	0.94%	0.95%	1.85%	4.68%	8.15%	0.51%	1.78%
HIB	7.13%	6.42%	5.50%	5.54%	5.18%	1.99%	0.61%	2.97%	0.33%	0.16%	0.35%
HZX					40.46%	0.57%	1.12%	1.53%	1.51%		



Missing Data

%

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ILL											
INL	2.91%	2.63%	2.55%	2.99%	2.68%	2.58%	1.42%	0.22%	0.58%	0.22%	0.15%
JKJ					40.66%	1.31%	0.89%	1.16%	1.48%	0.57%	0.80%
JMR	12.97%	26.23%	4.49%	1.85%	0.91%	0.41%	0.79%	1.97%	2.06%		
LJF	12.22%	12.80%	3.92%	14.95%	3.77%	1.14%	1.42%	2.37%	1.80%		
LSE	2.69%	4.57%	3.17%	3.80%	3.35%	3.71%	0.50%	0.37%	0.22%	0.24%	0.05%
LVN	0.91%	20.02%	3.96%	1.45%	0.90%	0.40%	1.15%	1.56%	1.98%		
LXL	6.91%	27.85%	8.71%	3.08%	1.09%	0.56%	1.03%	1.28%	1.97%		
LYV						10.92%	0.94%	1.36%	1.04%		
MIC	3.37%	14.58%	4.45%	4.19%	3.73%	3.16%	0.54%	0.46%	0.10%	0.25%	0.07%
MJQ	8.50%	13.98%	2.44%	1.30%	1.40%	0.53%	0.90%	1.23%	2.42%	1.68%	0.95%
MKT	1.72%	7.37%	2.25%	1.44%	1.50%	6.42%	2.28%	13.68%	2.85%	0.62%	3.34%
MML	2.06%	7.72%	2.97%	2.50%	2.30%	1.48%	7.35%	4.99%	1.30%	1.75%	1.35%
MOX	19.36%	16.47%	3.47%	1.92%	0.91%	0.33%	0.84%	2.18%	5.32%	1.86%	1.16%
MSP	0.15%	0.54%	0.23%	0.26%	0.11%	3.24%	0.48%	0.19%	0.06%	0.13%	0.02%
MVE	10.12%	8.56%	2.77%	1.48%	1.23%	0.65%	0.82%	1.20%	3.30%	1.62%	
MWM	2.96%	11.21%	4.28%	1.56%	3.65%	0.43%	1.10%	1.34%	1.67%	1.74%	
MZH		76.15%	11.95%	7.48%	0.97%	0.38%	2.12%	1.24%	1.43%		
ONA	7.09%	30.08%	3.92%	1.12%	2.54%	2.12%	0.94%	4.01%	1.91%		
ORB	16.43%	26.47%	7.21%	4.63%	1.00%	0.35%	0.91%	1.70%	2.66%		
OTG	3.85%	5.21%	14.84%	11.84%	4.62%	5.43%	3.58%	14.52%	2.12%		
OVL					40.19%	0.34%	1.05%	1.35%	3.27%	1.46%	3.61%
OWA	6.76%	10.27%	6.96%	4.44%	3.42%	1.38%	1.91%	2.57%	3.57%		
PEX						86.97%	5.90%	1.14%	1.17%		
PKD	4.53%	7.65%	5.24%	5.99%	3.69%	3.07%	0.74%	0.92%	0.05%	0.31%	0.41%
PQN	16.09%	12.88%	4.03%	2.11%	1.04%	1.68%	1.20%	10.33%	6.20%		
PWC	7.95%	20.02%	5.22%	1.47%	0.91%	2.25%	1.12%	1.51%	1.66%		
RGK	15.89%	18.80%	5.54%	2.07%	1.02%	1.32%	0.90%	1.22%	2.23%		
ROS		75.42%	14.86%	6.54%	0.91%	0.70%	1.10%	1.08%	4.25%		
ROX	22.54%	10.91%	3.34%	3.50%	2.82%	0.42%	2.49%	1.18%	2.78%		
RRT	4.23%	9.92%	5.53%	3.08%	1.12%	0.71%	0.84%	2.20%	2.90%	0.58%	
RST	1.10%	1.03%	1.92%	1.53%	1.26%	1.29%	0.23%	0.25%	0.07%	0.15%	0.08%
RWF	4.26%	3.22%	2.59%	3.64%	3.19%	2.59%	1.03%	0.24%	0.14%	0.19%	0.08%
SAZ	7.84%	15.96%	4.21%	2.01%	0.98%	0.48%	0.84%	1.47%	1.58%		
SGS	7.96%	21.53%	6.50%	2.79%	2.28%	0.54%	5.26%	1.20%	1.65%		
STC	3.18%	1.97%	2.29%	2.76%	2.63%	2.58%	0.42%	0.35%	0.30%	0.17%	0.05%
STP	4.79%	34.13%	7.33%	4.51%	3.87%	0.41%	1.78%	0.59%	0.10%	0.22%	0.33%
SUW							0.81%	3.22%	1.20%	2.10%	1.95%
TVF	1.88%	6.85%	2.81%	5.26%	9.02%	2.07%	3.68%	6.89%	4.22%	1.36%	
ULM	19.30%	13.20%	3.18%	2.64%	1.06%	0.79%	1.86%	1.16%	2.12%		
VVV	23.65%	9.52%	3.81%	2.05%	2.19%	0.83%	1.12%	2.03%	2.76%	1.89%	
XVG		74.74%	6.82%	2.24%	1.18%	1.11%	4.50%	2.45%	1.86%		
Average	8.28%	16.32%	5.66%	3.54%	4.94%	4.22%	1.92%	2.33%	2.18%	1.06%	

Calm Hours

%

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ABR	6.61%	5.72%	5.45%	5.30%	5.76%	6.87%	7.91%	7.01%	8.54%	8.14%	
ADC			15.66%	15.10%	16.07%	17.51%	16.16%	14.04%	16.21%		
AEL	13.62%	4.05%	12.30%	14.52%	14.23%	14.96%	14.44%	13.75%	15.38%	16.94%	
AIT	31.61%	10.36%	21.50%	25.28%	24.64%	28.82%	25.05%	22.77%	28.30%		
ANE	15.88%	5.01%	15.88%	16.36%	15.57%	16.62%	16.11%	15.10%	15.89%		
ATY	7.01%	7.06%	5.98%	6.73%	6.41%	7.50%	9.96%	8.46%	10.12%	10.02%	
AXN	4.26%	4.55%	4.44%	3.94%	4.12%	5.05%	0.48%	0.26%	0.66%	0.71%	0.70%
BBB	18.19%	4.94%	11.84%	12.86%	11.91%	16.05%	16.74%	17.72%	31.25%		
BDE	13.33%	6.48%	11.03%	11.98%	11.74%	15.46%	14.60%	17.14%	18.04%		
BDH											
BFW	35.55%	13.58%	32.42%	35.49%	36.03%	38.37%	35.55%	34.89%	37.06%		
BJI	12.38%	3.86%	8.96%	9.65%	9.97%	12.19%	10.77%	10.77%	14.30%	15.13%	
BRD	26.89%	8.73%	14.03%	15.79%	14.73%	14.86%	1.77%	1.12%	2.05%	2.28%	2.71%
CBG	28.06%	10.53%	25.70%	27.22%	26.42%	29.30%	27.49%	29.86%	35.62%		
CKC	15.57%	4.50%	12.45%	14.00%	14.12%	13.86%	16.94%	13.12%	14.04%		
CKN	13.85%	2.56%	7.26%	7.54%	7.74%	10.11%	8.71%	7.33%	8.86%	9.43%	
COQ	22.78%	4.10%	14.38%	16.17%	16.08%	17.04%	14.54%	15.12%	15.96%		
CQM	36.40%	13.88%	30.81%	33.08%	30.63%	41.54%	33.54%	29.82%	34.61%		
DLH	5.52%	5.47%	4.54%	5.58%	4.64%	5.22%	1.55%	0.87%	0.85%	0.34%	0.56%
DTL	10.42%	4.62%	10.09%	11.13%	10.67%	11.52%	12.37%	10.87%	12.57%	13.42%	14.33%
DVP						11.44%	8.23%	7.54%	7.88%		
DYT							13.89%	14.70%	12.93%	14.27%	14.82%
EAU	14.99%	15.27%	13.41%	14.57%	13.58%	15.36%	5.49%	1.84%	2.03%	1.37%	1.59%
ELO	33.65%	14.48%	26.67%	30.27%	29.21%	32.13%	28.87%	25.23%	26.99%		
EVM	24.53%	9.71%	21.46%	25.29%	23.66%	26.20%	23.42%	21.74%	24.72%		
FAR	5.76%	4.79%	4.26%	4.50%	4.54%	5.60%	0.56%	0.33%	0.59%	0.19%	0.29%
FBL	14.50%	4.74%	12.73%	16.11%	14.38%	14.93%	16.91%	15.28%	17.17%		
FCM	6.15%	1.90%	6.03%	6.75%	6.93%	6.88%	2.01%	0.82%	0.88%	0.32%	0.41%
FFM	9.20%	3.71%	7.45%	9.56%	8.20%	9.43%	10.05%	10.22%	11.52%	12.39%	12.21%
FGN	12.86%	7.27%	10.02%	12.24%	12.01%	13.01%	14.30%	13.36%	12.09%	12.38%	
FKA					8.34%	8.52%	5.62%	7.28%	6.78%	9.30%	
FOZ	34.34%	13.29%	23.98%	28.71%	29.28%	31.90%	27.69%	26.74%	29.18%		
FRM	10.88%	3.05%	5.88%	6.10%	7.10%	6.65%	6.00%	5.87%	6.76%	6.28%	6.60%
FSD	10.57%	10.60%	10.26%	10.42%	9.31%	9.67%	2.31%	1.07%	1.71%	0.90%	0.79%
FSE	14.08%	4.45%	10.33%	21.56%	14.39%	16.18%	13.23%	13.01%	16.49%		
GDB					8.00%	8.58%	9.86%	6.69%	8.29%	9.81%	
GFK	4.28%	4.92%	4.20%	5.26%	6.06%	7.03%	0.55%	0.37%	0.27%	0.16%	0.23%
GHW	5.75%	2.49%	5.70%	5.01%	5.61%	10.28%	6.70%	5.21%	6.37%	7.12%	
GNA	21.09%	7.20%	23.92%	22.70%	23.74%	32.65%	12.37%	3.71%	2.25%	0.91%	1.71%
GPZ	14.27%	4.35%	11.23%	13.79%	12.68%	14.79%	12.75%	12.43%	16.03%	16.44%	19.63%
GYL		0.00%	12.97%	20.80%	15.49%	16.99%	16.57%	16.23%	17.68%		
HCD	13.44%	4.91%	12.68%	14.48%	14.07%	14.85%	15.42%	12.59%	14.50%		
HCO	8.38%	3.21%	6.97%	7.10%	8.32%	8.30%	8.73%	7.98%	8.69%	10.75%	11.30%
HIB	19.34%	21.14%	19.44%	19.87%	18.89%	7.00%	3.52%	2.36%	3.20%	2.72%	2.97%
HZX					20.23%	21.45%	18.66%	18.22%	20.04%		

Calm Hours

%

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ILL											
INL	11.89%	12.53%	10.94%	11.79%	10.60%	11.58%	4.03%	1.47%	2.16%	2.13%	2.49%
JKJ					27.44%	16.55%	10.33%	8.85%	12.10%	10.67%	13.81%
JMR	28.59%	11.50%	29.26%	32.05%	31.40%	29.80%	25.67%	24.36%	28.64%		
LJF	36.13%	8.81%	14.20%	15.92%	15.78%	17.75%	16.36%	14.48%	17.96%		
LSE	6.32%	9.90%	7.92%	9.68%	9.65%	10.87%	2.15%	0.61%	0.83%	0.45%	0.82%
LVN	18.10%	7.52%	23.26%	26.69%	19.60%	22.37%	21.80%	28.46%	28.07%		
LXL	27.46%	11.28%	26.15%	27.21%	26.13%	28.47%	27.42%	25.12%	29.01%		
LYV						16.35%	16.86%	16.48%	18.72%		
MIC	12.46%	3.49%	10.91%	13.21%	12.77%	13.29%	6.84%	2.24%	1.80%	1.93%	2.80%
MJQ	5.30%	1.53%	5.83%	6.60%	7.10%	6.98%	7.77%	6.30%	7.83%	8.03%	8.58%
MKT	17.29%	2.63%	5.79%	6.95%	5.36%	6.18%	4.85%	4.13%	5.59%	5.98%	8.65%
MML	6.75%	2.63%	4.45%	5.05%	5.22%	6.12%	4.87%	4.97%	5.70%	6.61%	7.73%
MOX	7.38%	5.48%	6.69%	6.01%	7.30%	7.56%	7.37%	6.27%	8.22%	7.56%	9.76%
MSP	1.37%	3.89%	1.84%	1.46%	1.63%	6.37%	1.60%	0.47%	0.55%	0.27%	0.29%
MVE	9.44%	3.32%	8.18%	8.22%	8.69%	8.90%	9.00%	7.33%	9.81%	25.34%	
MWM	10.02%	2.58%	9.59%	9.47%	9.32%	9.54%	10.50%	9.05%	16.77%	11.64%	
MZH		0.00%	30.61%	28.55%	25.66%	28.35%	25.82%	30.84%	34.33%		
ONA	25.65%	10.37%	24.03%	28.23%	27.57%	29.40%	29.25%	27.08%	28.84%		
ORB	34.49%	13.38%	26.85%	30.27%	28.21%	32.87%	30.99%	26.70%	30.87%		
OTG	3.91%	2.05%	4.84%	4.20%	4.82%	4.74%	5.42%	4.94%	4.79%		
OVL					12.24%	9.68%	9.58%	6.83%	9.35%	11.94%	12.85%
OWA	14.52%	3.50%	13.77%	27.99%	13.14%	15.73%	15.61%	13.98%	14.43%		
PEX						19.19%	14.40%	12.61%	15.56%		
PKD	10.09%	4.59%	8.26%	8.99%	8.74%	11.86%	4.82%	1.13%	1.35%	0.72%	1.24%
PQN	17.01%	9.32%	12.42%	19.30%	10.01%	14.75%	26.61%	8.75%	20.79%		
PWC	28.88%	11.02%	23.79%	25.21%	23.97%	27.53%	23.90%	28.63%	39.56%		
RGK	23.21%	8.80%	22.94%	23.73%	22.96%	24.34%	22.29%	21.76%	23.64%		
ROS		0.00%	16.68%	17.30%	17.70%	19.51%	18.86%	18.34%	20.83%		
ROX	12.05%	14.01%	9.01%	10.93%	13.67%	15.53%	13.33%	11.29%	12.14%		
RRT	10.47%	4.17%	9.34%	11.50%	11.01%	11.36%	11.31%	11.92%	11.80%	13.08%	
RST	2.22%	2.10%	2.35%	2.08%	3.55%	3.01%	0.56%	0.73%	0.07%	0.06%	0.16%
RWF	8.93%	6.13%	5.34%	5.50%	5.29%	6.19%	0.49%	0.25%	0.20%	0.21%	0.18%
SAZ	20.77%	6.28%	16.53%	18.16%	17.20%	20.08%	19.56%	16.53%	20.09%		
SGS	24.11%	8.95%	28.71%	24.85%	22.83%	25.38%	23.15%	18.44%	20.55%		
STC	11.59%	11.12%	11.15%	11.69%	11.19%	12.39%	3.41%	1.03%	1.34%	1.02%	1.02%
STP	12.27%	4.18%	12.15%	13.09%	12.81%	4.67%	7.17%	0.79%	1.20%	1.27%	1.93%
SUW							19.41%	19.52%	20.32%	20.02%	21.88%
TVF	8.23%	2.41%	6.89%	7.59%	6.04%	5.49%	5.59%	6.13%	6.38%	7.45%	
ULM	9.28%	4.08%	8.50%	9.51%	8.89%	16.96%	13.35%	10.66%	12.72%		
VVV	10.62%	4.52%	8.78%	17.79%	9.92%	11.88%	10.32%	8.68%	11.59%	10.83%	
XVG		0.00%	28.18%	31.10%	29.82%	35.99%	34.21%	30.81%	33.94%		
Average	15.47%	6.48%	13.47%	15.21%	14.26%	15.64%	13.36%	12.00%	13.95%	7.15%	

Missing+Calm

%

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ABR	8.06%	6.77%	6.98%	6.81%	7.79%	8.48%	10.04%	9.73%	11.31%	9.94%	
ADC			49.05%	16.68%	17.24%	18.27%	17.60%	16.73%	17.92%		
AEL	17.65%	15.92%	15.70%	16.43%	15.85%	15.77%	16.71%	15.79%	18.48%	23.21%	
AIT	36.04%	30.69%	26.02%	26.94%	26.54%	29.36%	26.79%	25.81%	30.51%		
ANE	22.19%	22.78%	21.95%	20.07%	17.72%	20.82%	24.92%	24.24%	21.22%		
ATY	8.85%	8.89%	7.18%	8.25%	8.78%	8.86%	12.76%	12.65%	13.41%	12.71%	
AXN	5.55%	5.73%	7.23%	5.76%	6.08%	6.41%	2.69%	1.55%	1.09%	1.00%	2.49%
BBB	25.12%	16.16%	15.25%	14.97%	12.97%	17.73%	17.94%	19.84%	33.08%		
BDE	21.30%	23.71%	24.50%	25.05%	22.42%	26.51%	27.40%	25.61%	25.46%		
BDH											
BFW	41.05%	43.56%	38.30%	38.77%	37.20%	39.15%	36.50%	36.31%	38.77%		
BJI	14.44%	12.48%	11.78%	11.21%	12.47%	13.09%	14.67%	12.65%	15.58%	15.62%	
BRD	46.02%	34.85%	24.86%	23.85%	18.20%	19.20%	2.34%	1.98%	2.32%	2.74%	3.08%
CBG	36.83%	33.24%	30.03%	28.70%	27.35%	29.79%	30.26%	31.16%	37.76%		
CKC	23.50%	14.99%	17.27%	15.76%	15.14%	14.34%	21.23%	15.47%	17.05%		
CKN	27.31%	11.24%	11.10%	9.32%	10.22%	11.09%	10.16%	8.57%	11.34%	10.33%	
COQ	30.93%	16.75%	17.91%	17.43%	17.06%	17.46%	15.43%	16.42%	18.98%		
CQM	47.65%	41.57%	41.95%	40.12%	32.84%	46.60%	34.50%	31.02%	38.36%		
DLH	6.89%	7.47%	5.75%	7.03%	5.74%	6.28%	1.79%	1.14%	1.23%	0.48%	0.70%
DTL	22.69%	19.45%	15.89%	13.05%	11.59%	11.90%	13.16%	12.02%	13.86%	14.55%	16.21%
DVP						97.97%	15.05%	9.34%	9.05%		
DYT							15.63%	16.70%	15.80%	18.30%	16.94%
EAU	16.64%	17.76%	16.21%	17.80%	16.20%	18.40%	5.97%	2.50%	2.33%	1.52%	1.85%
ELO	43.83%	40.62%	32.80%	32.63%	30.14%	32.58%	29.87%	27.90%	29.48%		
EVM	36.45%	29.32%	25.33%	26.61%	24.58%	26.54%	24.26%	23.18%	26.43%		
FAR	7.21%	5.86%	5.63%	5.90%	6.04%	7.27%	0.87%	0.56%	0.75%	0.37%	0.54%
FBL	20.34%	16.81%	16.30%	17.81%	15.29%	39.48%	19.28%	17.55%	19.12%		
FCM	10.25%	10.59%	10.12%	11.14%	10.32%	9.87%	2.54%	1.70%	1.34%	0.48%	0.55%
FFM	11.86%	11.70%	10.59%	11.12%	9.29%	12.58%	13.74%	12.13%	14.01%	14.50%	13.31%
FGN	74.53%	19.94%	17.06%	16.03%	13.92%	13.80%	16.02%	15.64%	21.90%	15.68%	
FKA					48.55%	9.11%	6.42%	9.00%	10.55%	10.40%	
FOZ	47.12%	38.11%	29.20%	31.32%	30.21%	32.41%	28.56%	27.96%	31.24%		
FRM	12.74%	11.08%	10.77%	12.40%	8.17%	7.43%	13.42%	11.09%	9.14%	7.50%	8.93%
FSD	13.12%	12.67%	12.12%	12.78%	11.51%	12.08%	2.61%	1.42%	1.91%	1.05%	0.82%
FSE	27.00%	15.19%	14.11%	23.73%	15.28%	16.79%	14.10%	14.22%	18.47%		
GDB					63.73%	9.33%	10.74%	10.39%	9.52%	10.43%	
GFK	5.96%	6.12%	6.06%	6.60%	6.88%	7.78%	0.82%	0.71%	0.42%	0.31%	0.26%
GHW	12.65%	9.01%	8.25%	6.80%	6.52%	10.74%	7.58%	6.85%	8.43%	7.76%	
GNA	39.98%	41.53%	62.58%	42.28%	46.92%	51.31%	15.00%	5.75%	3.74%	1.28%	2.55%
GPZ	19.56%	21.94%	14.69%	15.03%	17.35%	15.44%	14.93%	16.38%	17.86%	17.12%	21.34%
GYL		71.66%	25.82%	30.47%	17.17%	17.39%	17.52%	17.38%	19.73%		
HCD	20.98%	19.53%	17.50%	20.26%	15.32%	16.45%	16.32%	13.86%	19.37%		
HCO	20.65%	15.13%	10.23%	9.25%	9.26%	9.25%	10.58%	12.66%	16.84%	11.26%	13.08%
HIB	26.47%	27.56%	24.94%	25.41%	24.07%	8.99%	4.13%	5.33%	3.53%	2.88%	3.32%
HZX					60.69%	22.02%	19.78%	19.75%	21.55%		

Missing+Calm

%

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ILL											
INL	14.80%	15.16%	13.49%	14.78%	13.28%	14.16%	5.45%	1.69%	2.74%	2.35%	2.64%
JKJ					68.10%	17.86%	11.22%	10.01%	13.58%	11.24%	14.61%
JMR	41.56%	37.73%	33.75%	33.90%	32.31%	30.21%	26.46%	26.33%	30.70%		
LJF	48.35%	21.61%	18.12%	30.87%	19.55%	18.89%	17.78%	16.85%	19.76%		
LSE	9.01%	14.47%	11.09%	13.48%	13.00%	14.58%	2.65%	0.98%	1.05%	0.69%	0.87%
LVN	19.01%	27.54%	27.22%	28.14%	20.50%	22.77%	22.95%	30.02%	30.05%		
LXL	34.37%	39.13%	34.86%	30.29%	27.22%	29.03%	28.45%	26.40%	30.98%		
LYV						27.27%	17.80%	17.84%	19.76%		
MIC	15.83%	18.07%	15.36%	17.40%	16.50%	16.45%	7.38%	2.70%	1.90%	2.18%	2.87%
MJQ	13.80%	15.51%	8.27%	7.90%	8.50%	7.51%	8.67%	7.53%	10.25%	9.71%	9.53%
MKT	19.01%	10.00%	8.04%	8.39%	6.86%	12.60%	7.13%	17.81%	8.44%	6.60%	11.99%
MML	8.81%	10.35%	7.42%	7.55%	7.52%	7.60%	12.22%	9.96%	7.00%	8.36%	9.08%
MOX	26.74%	21.95%	10.16%	7.93%	8.21%	7.89%	8.21%	8.45%	13.54%	9.42%	10.92%
MSP	1.52%	4.43%	2.07%	1.72%	1.74%	9.61%	2.08%	0.66%	0.61%	0.40%	0.31%
MVE	19.56%	11.88%	10.95%	9.70%	9.92%	9.55%	9.82%	8.53%	13.11%	26.96%	
MWM	12.98%	13.79%	13.87%	11.03%	12.97%	9.97%	11.60%	10.39%	18.44%	13.38%	
MZH		76.15%	42.56%	36.03%	26.63%	28.73%	27.94%	32.08%	35.76%		
ONA	32.74%	40.45%	27.95%	29.35%	30.11%	31.52%	30.19%	31.09%	30.75%		
ORB	50.92%	39.85%	34.06%	34.90%	29.21%	33.22%	31.90%	28.40%	33.53%		
OTG	7.76%	7.26%	19.68%	16.04%	9.44%	10.17%	9.00%	19.46%	6.91%		
OVL					52.43%	10.02%	10.63%	8.18%	12.62%	13.40%	16.46%
OWA	21.28%	13.77%	20.73%	32.43%	16.56%	17.11%	17.52%	16.55%	18.00%		
PEX						106.16%	20.30%	13.75%	16.73%		
PKD	14.62%	12.24%	13.50%	14.98%	12.43%	14.93%	5.56%	2.05%	1.40%	1.03%	1.65%
PQN	33.10%	22.20%	16.45%	21.41%	11.05%	16.43%	27.81%	19.08%	26.99%		
PWC	36.83%	31.04%	29.01%	26.68%	24.88%	29.78%	25.02%	30.14%	41.22%		
RGK	39.10%	27.60%	28.48%	25.80%	23.98%	25.66%	23.19%	22.98%	25.87%		
ROS		75.42%	31.54%	23.84%	18.61%	20.21%	19.96%	19.42%	25.08%		
ROX	34.59%	24.92%	12.35%	14.43%	16.49%	15.95%	15.82%	12.47%	14.92%		
RRT	14.70%	14.09%	14.87%	14.58%	12.13%	12.07%	12.15%	14.12%	14.70%	13.66%	
RST	3.32%	3.13%	4.27%	3.61%	4.81%	4.30%	0.79%	0.98%	0.14%	0.21%	0.24%
RWF	13.19%	9.35%	7.93%	9.14%	8.48%	8.78%	1.52%	0.49%	0.34%	0.40%	0.26%
SAZ	28.61%	22.24%	20.74%	20.17%	18.18%	20.56%	20.40%	18.00%	21.67%		
SGS	32.07%	30.48%	35.21%	27.64%	25.11%	25.92%	28.41%	19.64%	22.20%		
STC	14.77%	13.09%	13.44%	14.45%	13.82%	14.97%	3.83%	1.38%	1.64%	1.19%	1.07%
STP	17.06%	38.31%	19.48%	17.60%	16.68%	5.08%	8.95%	1.38%	1.30%	1.49%	2.26%
SUW							20.22%	22.74%	21.52%	22.12%	23.83%
TVF	10.11%	9.26%	9.70%	12.85%	15.06%	7.56%	9.27%	13.02%	10.60%	8.81%	
ULM	28.58%	17.28%	11.68%	12.15%	9.95%	17.75%	15.21%	11.82%	14.84%		
VVV	34.27%	14.04%	12.59%	19.84%	12.11%	12.71%	11.44%	10.71%	14.35%	12.72%	
XVG		74.74%	35.00%	33.34%	31.00%	37.10%	38.71%	33.26%	35.80%		
Average	23.75%	22.80%	19.13%	18.75%	19.20%	19.86%	15.27%	14.33%	16.13%	8.21%	

Ave. Wind Speed	Knots										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ABR	9.27	9.22	9.66	9.41	9.40	9.41	8.72	8.98	8.98	8.54	8.54
ADC			6.74	6.80	6.73	6.45	6.32	6.92	6.80		
AEL	7.13	7.75	7.30	7.12	7.17	6.72	6.93	6.98	6.95	6.77	6.77
AIT	4.64	5.94	5.27	5.05	5.09	4.69	4.90	5.29	4.87		
ANE	6.67	7.49	6.84	6.73	6.88	6.56	6.72	7.21	6.98		
ATY	9.59	9.46	9.88	9.63	9.70	9.58	8.94	9.13	9.16	8.70	8.70
AXN	9.16	9.22	9.51	9.36	9.50	9.16	9.37	9.84	9.44	9.04	9.04
BBB	7.09	8.19	7.87	7.66	7.89	7.39	7.33	7.68	6.97		
BDE	6.83	7.70	7.26	7.08	7.46	6.78	6.60	6.61	6.29		
BDH											
BFW	4.12	5.54	4.25	4.23	4.20	3.92	3.97	4.29	3.90		
BJI	7.49	8.42	8.13	7.75	7.94	7.53	7.59	7.76	7.16	6.77	6.77
BRD	5.31	6.73	6.45	6.62	7.10	6.93	7.13	7.46	7.21	6.85	6.85
CBG	4.69	5.88	4.91	4.79	4.86	4.57	4.68	4.72	4.18		
CKC	6.46	7.42	6.69	6.75	6.60	6.21	5.86	6.55	6.17		
CKN	8.55	9.55	9.03	9.02	9.30	8.82	8.75	9.29	9.09	8.45	8.45
COQ	5.79	7.02	6.37	6.32	6.31	5.92	6.19	6.58	6.29		
CQM	3.80	5.44	4.54	4.27	4.48	3.65	4.03	4.56	4.06		
DLH	8.50	8.74	8.86	8.84	8.96	8.52	9.10	9.45	8.88	8.57	8.56
DTL	7.67	8.20	7.85	7.67	7.96	7.71	7.47	7.90	7.73	7.36	7.25
DVP						7.74	9.17	9.72	9.59		
DYT							8.04	8.08	8.25	7.88	7.96
EAU	6.80	6.59	6.94	6.80	6.91	6.48	7.27	7.33	6.80	6.71	6.44
ELO	3.90	5.11	4.56	4.63	4.83	4.45	4.78	5.34	5.12		
EVM	5.37	6.37	5.72	5.39	5.60	5.09	5.30	5.74	5.45		
FAR	9.57	9.78	9.90	9.87	10.11	9.83	9.83	9.82	9.74	9.46	9.30
FBL	7.11	7.77	7.33	7.01	7.09	6.90	6.52	6.85	6.59		
FCM	7.63	7.90	7.76	7.60	7.70	7.31	7.97	8.02	7.50	7.38	7.16
FFM	8.74	9.23	8.98	8.80	9.03	8.71	8.41	8.56	8.45	7.79	8.33
FGN	8.49	9.08	8.49	8.29	8.69	8.37	7.67	8.20	8.76	8.00	
FKA					7.46	7.46	7.98	8.25	8.04	7.63	
FOZ	4.30	5.78	5.01	4.66	4.80	4.48	4.60	4.95	4.70		
FRM	9.53	10.82	10.55	10.53	10.60	10.25	10.27	10.45	10.40	9.67	9.59
FSD	8.85	8.79	9.13	8.91	8.90	8.95	9.08	9.03	8.94	8.56	8.46
FSE	7.33	8.30	7.86	7.05	7.78	7.32	7.36	7.77	7.42		
GDB					8.19	8.19	7.89	8.75	8.67	8.10	
GFK	9.07	9.08	9.21	8.98	9.15	8.84	9.15	9.60	9.65	9.13	8.99
GHW	8.86	9.13	9.14	8.92	9.07	8.60	8.88	9.50	9.07	8.58	
GNA	6.08	6.93	5.66	6.01	5.96	5.31	5.83	6.47	5.79	5.92	5.90
GPZ	6.53	7.51	7.13	6.98	7.21	6.67	6.77	7.17	6.73	6.57	6.12
GYL		7.96	6.98	6.39	6.48	6.05	6.17	6.51	6.26		
HCD	7.18	7.80	7.31	7.09	7.18	6.83	6.90	7.44	7.21		
HCO	8.99	9.71	9.29	9.17	9.38	9.40	8.93	9.42	9.12	8.55	8.44
HIB	6.88	6.50	6.74	6.82	6.97	6.49	6.48	6.76	6.54	6.26	6.11
HZX					5.68	5.48	5.71	6.03	5.74		

Ave. Wind Speed      Knots

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ILL											
INL	6.70	6.83	6.97	6.84	7.22	6.99	7.36	7.41	6.83	6.37	6.29
JKJ					7.03	8.11	8.29	8.62	8.37	8.16	7.91
JMR	4.75	5.82	4.71	4.52	4.68	4.57	4.94	5.31	4.83		
LJF	5.52	6.98	6.69	6.55	6.49	6.09	6.30	6.66	6.36		
LSE	8.05	7.28	7.66	7.30	7.37	6.94	7.59	7.54	7.20	7.19	6.91
LVN	6.44	7.18	5.93	5.62	6.21	5.51	5.57	5.23	5.21		
LXL	4.94	5.99	5.00	4.92	5.01	4.79	4.90	5.29	4.92		
LYV						7.69	7.60	7.74	7.55		
MIC	7.17	7.90	7.44	7.21	7.29	6.99	7.59	7.83	7.43	7.21	6.84
MJQ	9.46	9.62	9.52	9.25	9.30	8.87	8.88	9.40	9.07	8.71	8.75
MKT	8.16	9.03	9.04	8.74	9.32	8.96	9.38	9.49	9.28	8.89	8.34
MML	10.12	10.72	10.65	10.18	10.37	10.01	10.01	10.48	10.17	9.42	9.39
MOX	9.25	9.59	9.41	9.46	9.52	9.21	9.18	9.70	9.49	9.08	8.85
MSP	8.83	8.52	8.78	8.62	8.75	7.97	8.46	8.50	8.19	8.04	7.74
MVE	7.88	8.16	8.11	7.85	8.07	7.77	7.78	8.25	8.16	6.46	
MWM	9.15	9.85	9.26	9.44	9.75	9.19	9.11	9.32	8.84	8.61	
MZH		6.77	4.88	4.90	4.89	4.47	4.59	4.47	4.13		
ONA	5.02	5.81	5.17	4.76	4.82	4.46	4.61	4.95	4.63		
ORB	4.11	5.89	5.18	4.77	5.19	4.50	4.52	5.04	4.58		
OTG	10.78	10.99	10.59	10.13	10.78	10.19	10.30	10.15	10.72		
OVL					7.44	8.04	8.04	8.62	8.39	7.79	7.62
OWA	8.10	9.11	8.40	7.34	8.34	7.67	7.88	8.26	8.22		
PEX						5.85	6.81	7.21	6.87		
PKD	7.64	8.42	8.27	8.00	8.24	7.76	8.26	8.43	8.15	7.78	7.61
PQN	7.69	8.42	8.30	7.67	8.44	7.98	7.19	8.72	7.86		
PWC	4.84	6.19	5.42	5.29	5.46	5.08	5.36	5.16	4.41		
RGK	5.55	6.43	5.56	5.33	5.52	5.14	5.40	5.69	5.37		
ROS		7.32	5.92	5.65	5.58	5.17	5.33	5.63	5.25		
ROX	7.41	7.11	7.55	7.20	7.53	7.18	6.92	7.63	7.39		
RRT	7.00	7.55	7.10	6.70	7.22	7.05	6.88	7.24	6.93	6.57	
RST	10.12	10.16	10.28	10.42	10.00	9.82	10.44	10.70	9.94	9.81	9.50
RWF	8.50	8.65	8.95	8.81	8.88	8.59	8.68	9.28	8.91	8.48	8.46
SAZ	6.03	7.21	6.55	6.37	6.48	6.09	6.04	6.60	6.29		
SGS	5.07	5.93	4.89	5.00	5.16	4.78	5.16	5.88	5.52		
STC	7.32	7.55	7.67	7.70	7.69	7.24	7.68	7.99	7.72	7.31	7.16
STP	7.42	7.91	7.37	7.48	7.55	7.56	7.56	7.93	7.72	7.68	7.19
SUW							5.92	6.12	6.01	5.91	5.68
TVF	8.16	8.82	8.51	8.62	9.69	9.32	9.24	9.35	9.21	8.55	
ULM	8.37	8.76	8.42	8.29	8.44	7.54	7.60	8.29	7.90		
VVV	8.17	8.50	8.25	7.57	8.18	7.81	7.96	8.29	8.13	7.94	
XVG		6.28	4.49	4.29	4.36	3.93	3.90	4.40	4.16		
Average	7.25	7.86	7.44	7.25	7.43	7.09	7.21	7.55	7.27	7.90	

1st Wind Direc.

Degrees

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ABR	180	180	180	180	180	180	180	180	180	180	
ADC			270	315	315	300	300	315	315		
AEL	150	150	150	150	150	150	150	150	150	150	
AIT	150	180	180	150	315	150	150	150	315		
ANE	150	150	150	150	150	150	150	150	150		
ATY	150	150	150	150	150	150	150	150	150	150	
AXN	315	315	300	315	315	315	315	315	300	315	300
BBB	330	330	330	0	0	180	0	0	0		
BDE	330	315	315	330	330	135	330	315	315		
BDH											
BFW	60	60	60	60	60	60	60	60	60		
BJI	315	315	315	315	315	135	300	300	300	300	
BRD	210	210	180	180	180	180	180	180	180	180	180
CBG	270	150	270	150	150	150	150	150	150		
CKC	0	0	315	315	330	330	0	330	330		
CKN	330	180	330	180	180	330	330	180	180	180	
COQ	90	315	270	315	315	90	90	300	300		
CQM	300	300	300	270	300	180	300	270	300		
DLH	315	315	315	315	315	90	90	315	315	315	315
DTL	135	315	315	150	330	150	315	315	150	315	135
DVP						210	315	180	150		
DYT							45	225	45	45	45
EAU	180	225	225	270	180	225	150	180	270	240	225
ELO	225	225	225	300	300	270	315	300	300		
EVM	315	300	300	300	315	300	315	300	300		
FAR	150	150	150	150	150	150	150	150	150	150	150
FBL	180	180	180	180	180	180	180	180	150		
FCM	315	210	210	315	330	210	330	210	300	315	330
FFM	135	135	135	150	150	150	150	150	150	150	135
FGN	150	150	150	150	150	150	150	150	150	150	
FKA					180	315	315	315	315	315	
FOZ	150	180	150	180	180	150	150	180	150		
FRM	330	330	330	330	330	330	330	330	330	330	315
FSD	180	180	180	180	180	150	315	180	180	315	180
FSE	180	180	180	180	180	180	180	180	180		
GDB					315	315	315	315	315	300	
GFK	180	180	180	180	180	180	330	180	180	330	180
GHW	300	300	270	315	315	300	300	300	300	300	
GNA	60	60	60	60	60	60	60	60	240	60	60
GPZ	150	315	315	150	315	150	315	315	315	315	315
GYL		300	315	315	300	300	300	180	300		
HCD	300	300	300	315	315	135	300	300	300		
HCO	150	150	150	150	330	150	150	150	150	330	180
HIB	330	315	315	315	315	315	330	330	330	315	330
HZX					315	315	315	315	315		



1st Wind Direc.

Degrees

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ILL											
INL	180	300	300	300	300	270	300	300	300	270	270
JKJ					180	150	150	180	180	150	150
JMR	330	315	315	315	315	315	315	315	315		
LJF	315	315	300	315	315	150	315	300	315		
LSE	180	180	180	180	180	180	180	180	180	180	180
LVN	300	300	300	300	180	270	270	180	270		
LXL	315	300	135	300	300	135	300	300	300		
LYV						180	180	180	180		
MIC	315	300	150	300	315	150	150	180	150	150	315
MJQ	180	180	180	315	180	315	315	180	315	315	315
MKT	315	180	180	315	315	180	315	180	315	315	315
MML	330	330	330	330	330	315	315	315	300	315	315
MOX	315	315	135	315	315	135	315	315	315	315	135
MSP	315	315	300	315	315	135	315	315	315	315	315
MVE	315	315	315	315	0	180	0	0	0	0	
MWM	315	315	180	315	315	315	315	315	315	315	
MZH		210	225	60	315	60	60	210	315		
ONA	315	300	300	315	315	315	315	315	315		
ORB	315	315	315	315	315	315	315	315	315		
OTG	180	180	210	210	180	180	180	180	150		
OVL					150	315	315	315	315	315	315
OWA	150	150	180	150	150	150	150	150	150		
PEX						135	135	300	135		
PKD	135	315	300	300	315	135	300	315	315	315	300
PQN	150	180	180	210	180	180	180	210	180		
PWC	135	150	150	150	150	150	315	150	150		
RGK	300	135	300	300	135	135	135	135	135		
ROS		45	270	150	150	150	150	150	150		
ROX	180	180	270	180	180	300	300	300	300		
RRT	210	225	240	315	315	225	315	225	225	300	
RST	210	315	180	300	180	180	315	180	180	315	315
RWF	315	315	315	315	315	315	315	315	315	315	315
SAZ	300	300	300	300	315	300	300	300	300		
SGS	135	150	150	150	150	135	150	150	150		
STC	315	315	315	315	315	315	315	315	315	315	315
STP	150	150	150	150	150	150	150	150	150	135	135
SUW							60	225	225	225	45
TVF	210	210	210	315	315	315	315	315	315	315	
ULM	315	150	315	315	315	315	315	315	315		
VVV	315	315	135	315	330	135	135	330	135	330	
XVG		300	300	300	300	300	300	300	300		
Average	229.9	231.9	235.0	241.8	241.7	206.9	229.8	231.5	234.4	251.4	

2nd Wind Direc.

Degrees

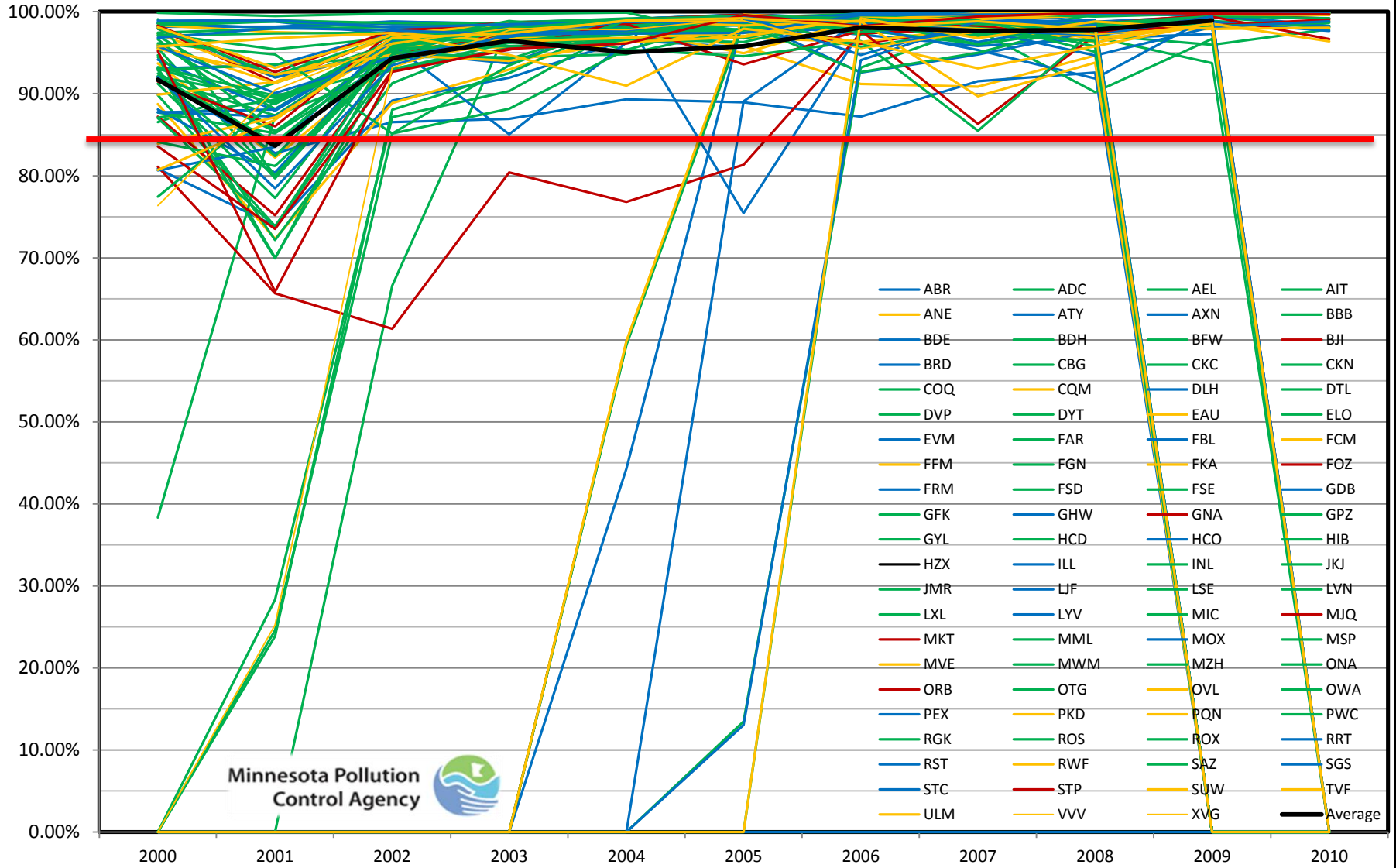
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ABR	150	150	150	150	150	150	150	150	150	150	
ADC			300	300	300	315	315	300	300		
AEL	315	300	300	300	315	315	315	315	315	315	
AIT	180	150	150	315	150	180	315	180	150		
ANE	315	300	270	300	315	300	315	300	300		
ATY	135	135	300	315	180	180	315	180	180	180	
AXN	135	300	180	300	300	135	300	300	315	300	135
BBB	150	180	180	180	180	0	180	180	180		
BDE	210	330	330	315	315	315	315	330	330		
BDH											
BFW	315	315	300	315	315	90	330	330	330		
BJI	300	300	300	300	300	300	270	315	270	270	
BRD	225	180	210	210	330	210	150	210	150	150	330
CBG	150	270	150	300	300	180	135	180	300		
CKC	30	330	300	330	315	315	330	315	315		
CKN	180	330	180	330	0	150	180	0	0	330	
COQ	315	330	330	330	90	120	315	315	315		
CQM	270	270	270	300	270	150	270	180	270		
DLH	120	330	300	300	90	120	315	300	300	300	120
DTL	315	135	135	315	150	135	150	150	315	330	315
DVP						180	150	315	315		
DYT							60	45	225	225	225
EAU	270	180	240	150	150	180	270	225	225	270	240
ELO	315	315	270	270	225	225	300	315	315		
EVM	300	315	270	315	300	315	300	315	315		
FAR	180	180	180	330	330	330	330	330	330	330	330
FBL	210	210	210	300	210	210	150	150	180		
FCM	210	300	225	300	210	135	315	180	315	300	315
FFM	315	315	150	330	330	135	330	330	330	330	150
FGN	315	315	315	315	315	315	315	315	315	315	
FKA					210	180	180	210	180	180	
FOZ	180	210	180	150	150	180	180	210	180		
FRM	180	180	180	180	180	180	180	180	180	180	330
FSD	315	315	300	150	150	180	180	315	315	180	315
FSE	150	150	150	150	315	150	150	210	150		
GDB					135	135	300	300	300	315	
GFK	330	330	0	150	330	0	150	330	330	180	330
GHW	315	315	300	300	300	315	315	315	315	315	
GNA	240	240	240	330	240	240	240	240	60	330	240
GPZ	315	150	150	315	150	135	150	150	150	300	135
GYL		315	300	300	315	180	315	300	315		
HCD	315	315	315	300	330	300	315	135	135		
HCO	315	315	315	330	150	330	330	330	330	150	330
HIB	0	330	330	330	135	135	315	315	315	330	315
HZX					180	90	90	180	300		

2nd Wind Direc.

Degrees

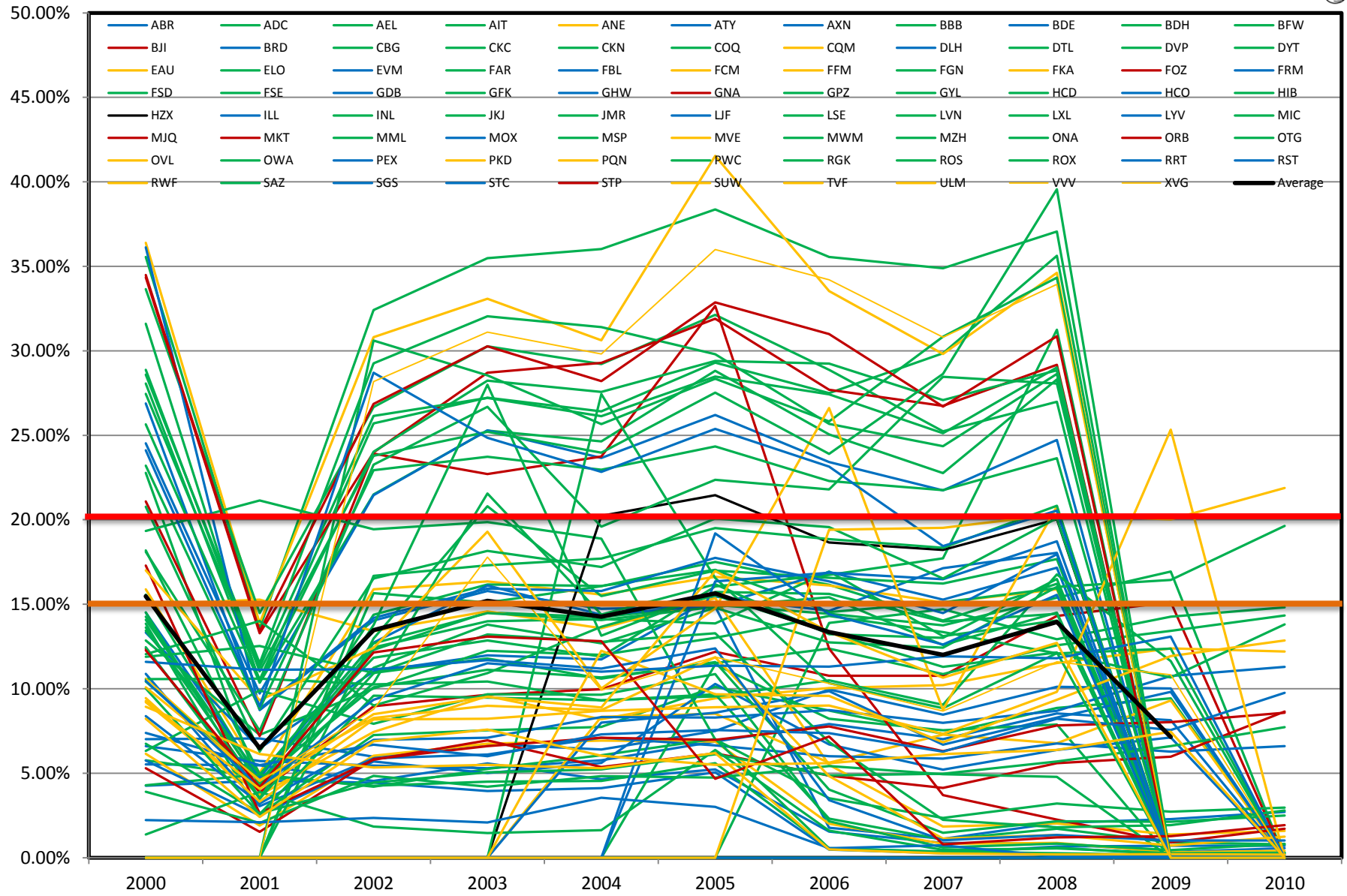
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ILL											
INL	270	270	270	150	180	300	270	270	270	300	300
JKJ					150	180	180	150	150	0	180
JMR	315	300	270	300	330	150	300	150	300		
LJF	300	300	315	150	150	315	150	150	150		
LSE	330	210	210	330	330	330	330	150	150	330	330
LVN	315	270	270	270	270	180	300	270	300		
LXL	135	135	300	135	135	300	135	135	135		
LYV						150	315	150	150		
MIC	150	150	270	315	150	180	300	150	315	300	300
MJQ	315	315	210	180	315	180	330	315	150	330	180
MKT	180	315	315	180	180	135	180	315	180	150	180
MML	315	315	315	315	210	330	330	300	315	300	300
MOX	135	135	315	135	135	315	135	135	135	330	315
MSP	135	135	315	150	135	315	135	300	135	135	135
MVE	135	150	150	180	180	0	330	330	180	330	
MWM	210	180	315	180	180	150	150	180	150	180	
MZH		225	210	315	210	45	45	315	60		
ONA	120	315	315	300	135	135	135	135	135		
ORB	300	300	300	150	150	135	300	300	150		
OTG	210	210	180	225	210	210	330	210	315		
OVL					180	150	150	150	150	330	150
OWA	300	180	150	300	315	135	300	180	135		
PEX						150	300	150	300		
PKD	300	135	315	150	330	150	315	180	330	330	135
PQN	315	150	300	180	210	210	330	180	330		
PWC	315	315	330	315	315	135	150	315	315		
RGK	135	300	270	135	300	120	300	300	300		
ROS		30	180	180	45	180	270	180	270		
ROX	270	270	180	300	300	180	180	270	180		
RRT	225	210	225	225	225	270	270	315	240	225	
RST	315	210	210	315	315	315	180	315	150	180	180
RWF	135	300	300	300	135	135	300	150	150	150	300
SAZ	315	180	270	150	180	150	315	180	315		
SGS	150	135	270	135	135	150	135	315	315		
STC	330	180	150	150	150	150	330	180	150	330	330
STP	315	315	315	315	315	135	315	135	135	150	315
SUW							225	60	60	45	60
TVF	180	315	315	150	180	180	150	210	180	180	
ULM	150	300	150	150	150	150	150	150	150		
VVV	135	135	315	330	135	315	330	135	330	135	
XVG		180	150	150	315	150	150	150	315		
Average	233.4	243.2	246.6	249.2	220.9	192.3	243.5	228.0	233.3	245.5	

# Yearly Averaged % of .SFC Data Availability, Over 11-Year Period from 2000 - 2010



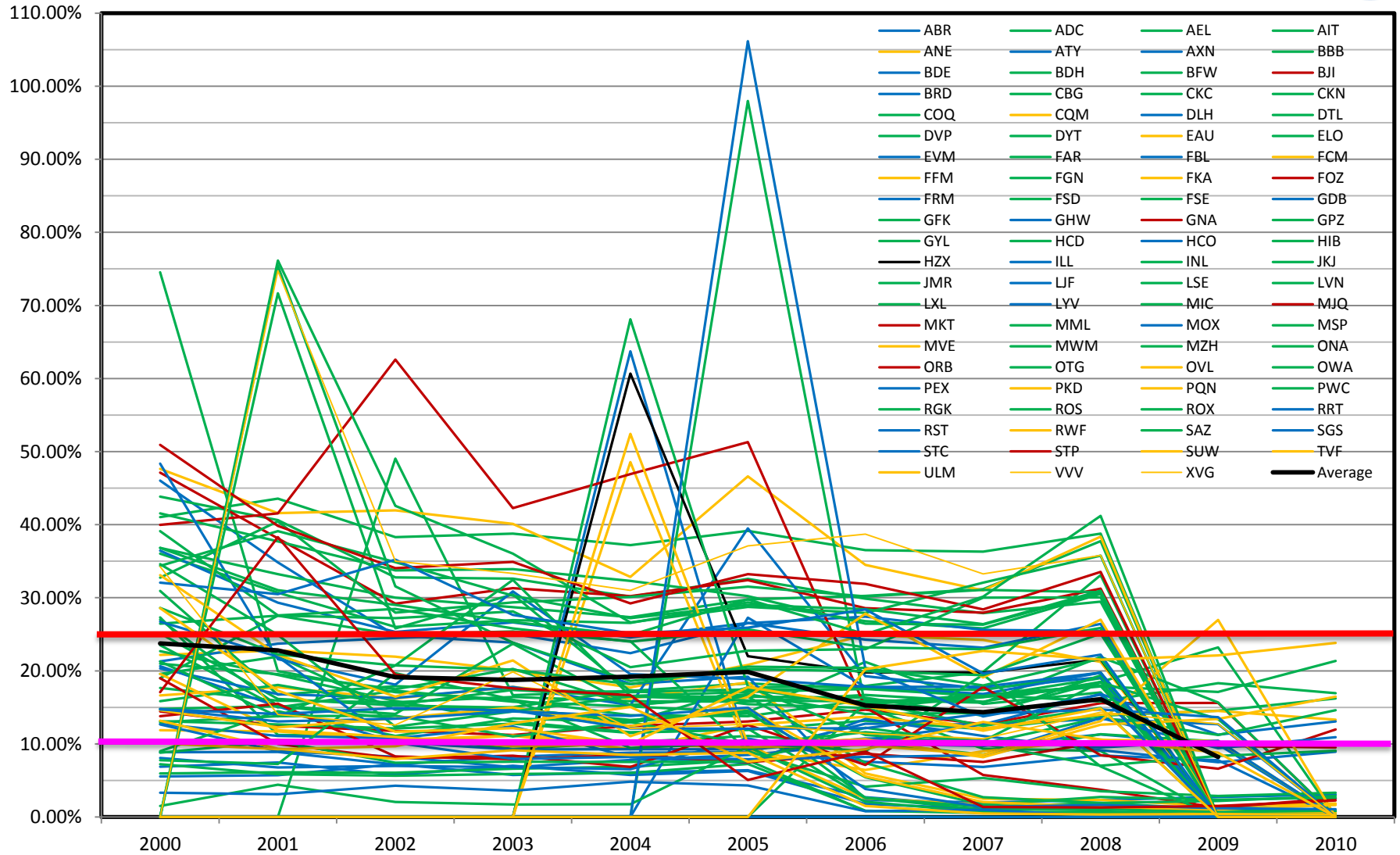


## Yearly Averaged % of Calm Hours, Over 11-Year Period from 2000 - 2010

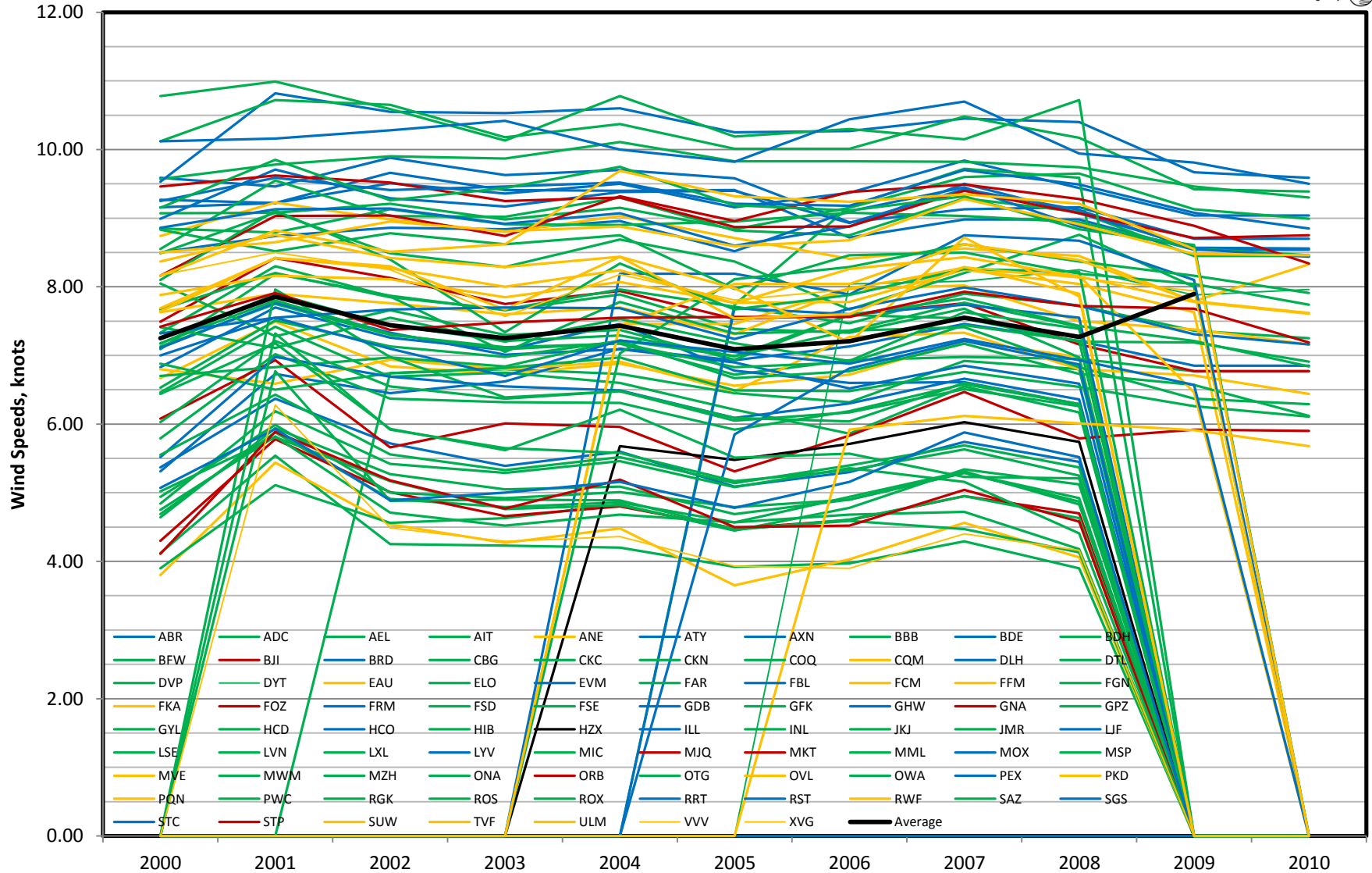


# Yearly Averaged % of Missing Data + Calm Hours, Over 11-Year Period from 2000 - 2010

Minnesota Pollution  
Control Agency



# Yearly Averaged Wind Speeds, Over 11-Year Period from 2000 - 2010



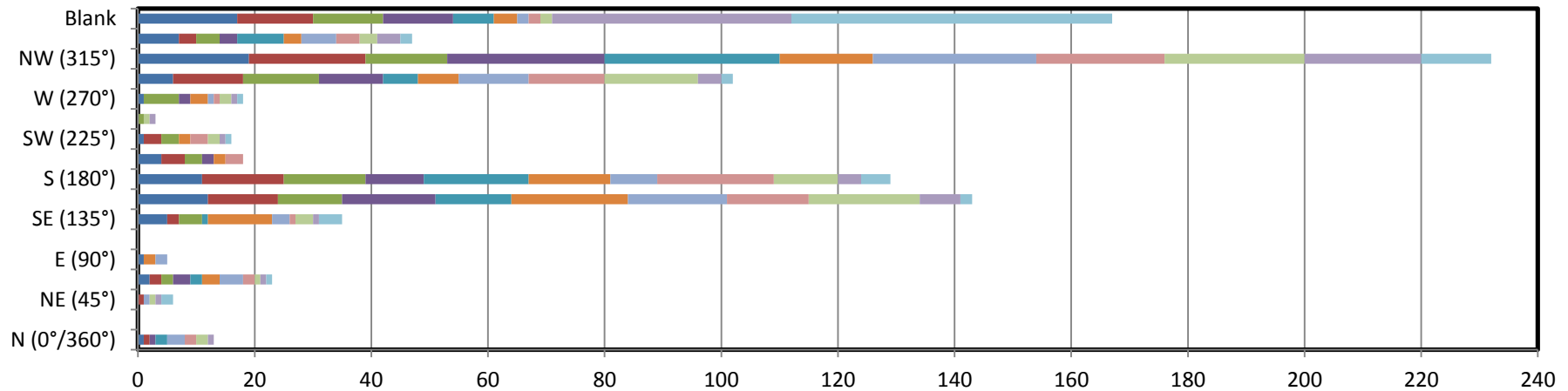


# Frequency of Primary Wind Directions, Over 11-Year Period of 2000 - 2010

Minnesota Pollution Control Agency



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010



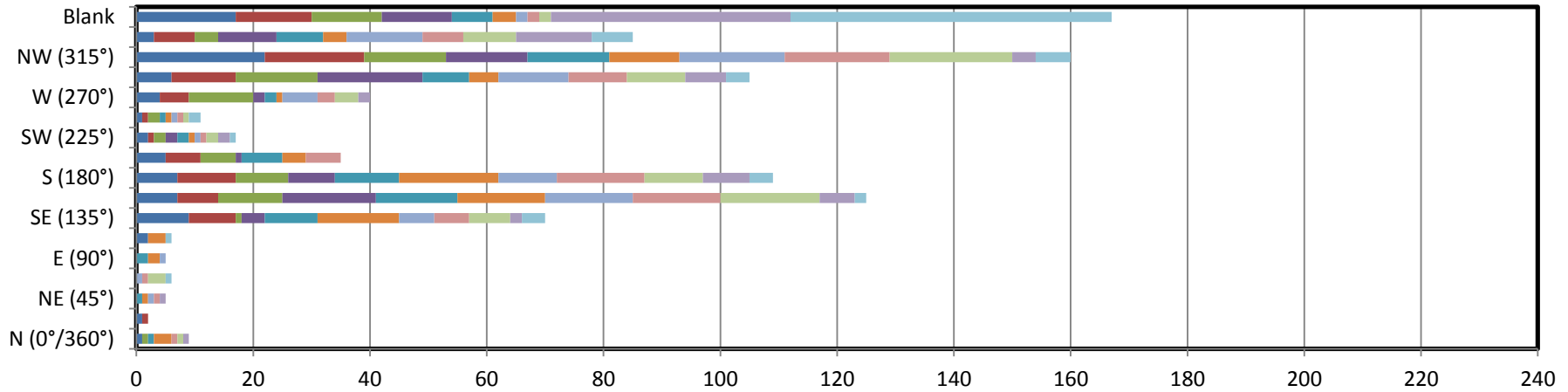
	N (0°/360°)	NNE (30°)	NE (45°)	ENE (60°)	E (90°)	ESE (120°)	SE (135°)	SSE (150°)	S (180°)	SSW (210°)	SW (225°)	WSW (240°)	W (270°)	WNW (300°)	NW (315°)	NNW (330°)	Blank
2000	1	0	0	2	1	0	5	12	11	4	1	0	1	6	19	7	17
2001	1	0	1	2	0	0	2	12	14	4	3	0	0	12	20	3	13
2002	0	0	0	2	0	0	4	11	14	3	3	1	6	13	14	4	12
2003	1	0	0	3	0	0	0	16	10	2	0	0	2	11	27	3	12
2004	2	0	0	2	0	0	1	13	18	0	0	0	0	6	30	8	7
2005	0	0	0	3	2	0	11	20	14	2	2	0	3	7	16	3	4
2006	3	0	1	4	2	0	3	17	8	0	0	0	1	12	28	6	2
2007	2	0	0	2	0	0	1	14	20	3	3	0	1	13	22	4	2
2008	2	0	1	1	0	0	3	19	11	0	2	1	2	16	24	3	2
2009	1	0	1	1	0	0	1	7	4	0	1	1	1	4	20	4	41
2010	0	0	2	1	0	0	4	2	5	0	1	0	1	2	12	2	55

# Frequency of Secondary Wind Directions, Over 11-Year Period of 2000 - 2010

Minnesota Pollution Control Agency



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010



	N (0°/360°)	NNE (30°)	NE (45°)	ENE (60°)	E (90°)	ESE (120°)	SE (135°)	SSE (150°)	S (180°)	SSW (210°)	SW (225°)	WSW (240°)	W (270°)	WNW (300°)	NW (315°)	NNW (330°)	Blank
2000	1	1	0	0	0	2	9	7	7	5	2	1	4	6	22	3	17
2001	0	1	0	0	0	0	8	7	10	6	1	1	5	11	17	7	13
2002	1	0	0	0	0	0	1	11	9	6	2	2	11	14	14	4	12
2003	0	0	0	0	0	0	4	16	8	1	2	0	2	18	14	10	12
2004	1	0	1	0	2	0	9	14	11	7	2	1	2	8	14	8	7
2005	3	0	1	0	2	3	14	15	17	4	1	1	1	5	12	4	4
2006	0	0	1	1	1	0	6	15	10	0	1	1	6	12	18	13	2
2007	1	0	1	1	0	0	6	15	15	6	1	1	3	10	18	7	2
2008	1	0	0	3	0	0	7	17	10	0	2	1	4	10	21	9	2
2009	1	0	1	0	0	0	2	6	8	0	2	0	2	7	4	13	41
2010	0	0	0	1	0	1	4	2	4	0	1	2	0	4	6	7	55



Processed (.SFC)	WMO #	CALL SIGN	NAME OF STATION	USAF #	WBAN #	COUNTY	STATE	STATION TYPE			
		Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000										In Use:	NNE 30°
2001										200# - 200#	NE 45°
2002											ENE 60°
2003										Most Recent	E 90°
2004										Useable:	ESE 120°
2005										Not Useable	SE 135°
2006										NA	SSE 150°
2007										No	S 180°
2008											SSW 210°
2009										Lat. (N)	SW 225°
2010											WSW 240°
2000 - 2010											W 270°
2000 - 2004	NA	NA	NA				NA	NA		Lon. (W)	WNW 300°
2001 - 2005	NA	NA	NA				NA	NA			NW 315°
2002 - 2006	NA	NA	NA				NA	NA			NNW 330°
2003 - 2007	NA	NA	NA				NA	NA		Elev. (m)	
2004 - 2008	NA	NA	NA				NA	NA			
2005 - 2009	NA	NA	NA				NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA				NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	No	No	No	No	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	No	No	No	No	No	No	No		No		
2004	No	No	No	No	No	No	No				
2005	No	No	No	No	No	No	No				
2006	No	No	No	No	No	No	No				
2007	No	No	No	No	No	No	No				
2008	No	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	No	No	No	No	No	No	No	Not Useable			
2003 - 2007	No	No	No	No	No	No	No	Not Useable			
2004 - 2008	No	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

1	72659	ABR	Aberdeen	726590	14929	Brown	SD	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	98.55%	6.61%	9.27	S	SSE	1.45%	8.06%	Average	In Use:	NNE	30°
2001	98.95%	5.72%	9.22	S	SSE	1.05%	6.77%	Average	2000 - 2004	NE	45°
2002	98.47%	5.45%	9.66	S	SSE	1.53%	6.98%	Average	Most Recent	ENE	60°
2003	98.49%	5.30%	9.41	S	SSE	1.51%	6.81%	Average	Useable:	E	90°
2004	97.97%	5.76%	9.40	S	SSE	2.03%	7.79%	Average	Useable:	ESE	120°
2005	98.39%	6.87%	9.41	S	SSE	1.61%	8.48%	Average	2005 - 2009	SE	135°
2006	97.87%	7.91%	8.72	S	SSE	2.13%	10.04%	Average	Need 2010	SSE	150°
2007	97.28%	7.01%	8.98	S	SSE	2.72%	9.73%	Average	Lat. (N)	S	180°
2008	97.23%	8.54%	8.98	S	SSE	2.77%	11.31%	Average	45.444	SSW	210°
2009	98.20%	8.14%	8.54	S	SSE	1.80%	9.94%	Average	Lon. (W)	SW	225°
2010								Average	-98.414	WSW	240°
2000 - 2010	98.14%	6.73%	9.16	S	SSE	1.86%	8.59%		Elev. (m)	W	270°
2000 - 2004	98.49%	5.77%	9.39			1.51%	7.28%		395.0	WNW	300°
2001 - 2005	98.45%	5.82%	9.42			1.55%	7.37%		Last Updated:	NW	315°
2002 - 2006	98.24%	6.26%	9.32			1.76%	8.02%		06/11/2010	NNW	330°
2003 - 2007	98.00%	6.57%	9.18			2.00%	8.57%				
2004 - 2008	97.75%	7.22%	9.10			2.25%	9.47%				
2005 - 2009	97.79%	7.69%	8.93			2.21%	9.90%				
2006 - 2010	NA	NA	NA			NA	NA				

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes		06341
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes	No		
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes	No		
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2010	No	No	No	No	No	No	No		
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

2	0	ADC	Wadena	726561	94997	Otter Tail	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	No Data Available								In Use:	NNE 30°
2001	No Data Available								2004 - 2008	NE 45°
2002	66.61%	15.66%	6.74	W	WNW	33.39%	49.05%			ENE 60°
2003	98.42%	15.10%	6.80	NW	WNW	1.58%	16.68%		Most Recent	E 90°
2004	98.83%	16.07%	6.73	NW	WNW	1.17%	17.24%		Useable:	ESE 120°
2005	99.24%	17.51%	6.45	WNW	NW	0.76%	18.27%		Caution	SE 135°
2006	98.56%	16.16%	6.32	WNW	NW	1.44%	17.60%		2004 - 2008	SSE 150°
2007	97.31%	14.04%	6.92	NW	WNW	2.69%	16.73%		Need 2010	S 180°
2008	98.29%	16.21%	6.80	NW	WNW	1.71%	17.92%			SSW 210°
2009									Lat. (N)	SW 225°
2010									46.452	WSW 240°
2000 - 2010	93.90%	15.84%	6.68	NW	WNW	6.10%	21.94%		Lon. (W)	W 270°
2000 - 2004	NA	NA	NA			NA	NA		-95.210	WNW 300°
2001 - 2005	NA	NA	NA			NA	NA			NW 315°
2002 - 2006	92.33%	16.10%	6.61			7.67%	23.77%		Elev. (m)	NNW 330°
2003 - 2007	98.47%	15.78%	6.64			1.53%	17.30%		414.0	
2004 - 2008	98.45%	16.00%	6.64			1.55%	17.55%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	No	No	No	No	No	No	No		06341	
2001	No	No	No	No	No	No	No			
2002	No	Yes	Yes	No	No	No	No		AERMINUTE?	
2003	Yes	Yes	Yes	No	No	Yes	No		No	
2004	Yes	Yes	Yes	No	No	Yes	No			
2005	Yes	Yes	Yes	No	No	Yes	No			
2006	Yes	Yes	Yes	No	No	Yes	No			
2007	Yes	Yes	Yes	Yes	No	Yes	No			
2008	Yes	Yes	Yes	No	No	Yes	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	No	No	No	No	No	No	Not Useable		
2001 - 2005	No	No	No	No	No	No	No	Not Useable		
2002 - 2006	No	Yes	Yes	No	No	No	No	Not Useable		
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution		
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

3	0	AEL	Albert Lea Mun. Arpt	726589	94968	Freeborn	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	95.97%	13.62%	7.13	SSE	NW	4.03%	17.65%	Wet	In Use:	NNE	30°
2001	88.13%	4.05%	7.75	SSE	WNW	11.87%	15.92%	Wet	2004 - 2008	NE	45°
2002	96.60%	12.30%	7.30	SSE	WNW	3.40%	15.70%	Average	Most Recent	ENE	60°
2003	98.09%	14.52%	7.12	SSE	WNW	1.91%	16.43%	Dry	Useable:	E	90°
2004	98.38%	14.23%	7.17	SSE	NW	1.62%	15.85%	Wet	Useable:	ESE	120°
2005	99.19%	14.96%	6.72	SSE	NW	0.81%	15.77%	Wet	Useable:	SE	135°
2006	97.73%	14.44%	6.93	SSE	NW	2.27%	16.71%	Average	2003 - 2007	SSE	150°
2007	97.96%	13.75%	6.98	SSE	NW	2.04%	15.79%	Wet	Need 2010	S	180°
2008	96.90%	15.38%	6.95	SSE	NW	3.10%	18.48%	Average	Lat. (N)	SSW	210°
2009	93.73%	16.94%	6.77	SSE	NW	6.27%	23.21%	Average	43.682	SW	225°
2010								Wet		WSW	240°
2000 - 2010	96.27%	13.50%	7.08	SSE	NW	3.73%	17.23%		Lon. (W)	W	270°
2000 - 2004	95.43%	11.74%	7.29			4.57%	16.31%		-93.370	WNW	300°
2001 - 2005	96.08%	12.01%	7.21			3.92%	15.93%			NW	315°
2002 - 2006	98.00%	14.09%	7.05			2.00%	16.09%		Elev. (m)	NNW	330°
2003 - 2007	98.27%	14.38%	6.98			1.73%	16.11%		381.0		
2004 - 2008	98.03%	14.55%	6.95			1.97%	16.52%				
2005 - 2009	97.10%	15.09%	6.87			2.90%	17.99%		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	No	Yes	No		06341		
2001	No	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	Yes	No	Yes	No		No		
2004	Yes	Yes	Yes	Yes	No	Yes	No				
2005	Yes	Yes	Yes	Yes	No	Yes	No				
2006	Yes	Yes	Yes	Yes	No	Yes	No				
2007	Yes	Yes	Yes	Yes	No	Yes	No				
2008	Yes	Yes	Yes	No	No	Yes	No				
2009	Yes	Yes	Yes	No	No	Yes	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	Yes	Yes	Yes	No	Yes	No	Not Useable			
2001 - 2005	No	Yes	Yes	Yes	No	Yes	No	Not Useable			
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution			
2005 - 2009	Yes	Yes	Yes	No	No	Yes	No	Caution			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

4	Q	AIT	Aitkin NDB	727504	94999	Aitkin	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	95.57%	31.61%	4.64	SSE	S	4.43%	36.04%		In Use:	NNE 30°
2001	79.67%	10.36%	5.94	S	SSE	20.33%	30.69%		NA	NE 45°
2002	95.48%	21.50%	5.27	S	SSE	4.52%	26.02%			ENE 60°
2003	98.34%	25.28%	5.05	SSE	NW	1.66%	26.94%		Most Recent	E 90°
2004	98.10%	24.64%	5.09	NW	SSE	1.90%	26.54%		Useable:	ESE 120°
2005	99.46%	28.82%	4.69	SSE	S	0.54%	29.36%		Not Useable	SE 135°
2006	98.26%	25.05%	4.90	SSE	NW	1.74%	26.79%		2003 - 2007	SSE 150°
2007	96.96%	22.77%	5.29	SSE	S	3.04%	25.81%		No	S 180°
2008	97.79%	28.30%	4.87	NW	SSE	2.21%	30.51%			SSW 210°
2009									Lat. (N)	SW 225°
2010									46.549	WSW 240°
2000 - 2010	95.52%	24.55%	5.06	SSE	NW	4.48%	29.03%		Lon. (W)	W 270°
2000 - 2004	93.43%	22.68%	5.20			6.57%	29.25%		-93.676	WNW 300°
2001 - 2005	94.21%	22.12%	5.21			5.79%	27.91%			NW 315°
2002 - 2006	97.93%	25.06%	5.00			2.07%	27.13%		Elev. (m)	NNW 330°
2003 - 2007	98.22%	25.31%	5.00			1.78%	27.09%		365.0	
2004 - 2008	98.11%	25.92%	4.97			1.89%	27.80%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	Yes	No	No	No	No	No	No	
2001	No	Yes	Yes	Yes	No	No	No	
2002	Yes	Yes	No	No	No	No	No	
2003	Yes	No	No	No	No	No	No	
2004	Yes	Yes	No	No	No	No	No	
2005	Yes	No	No	No	No	No	No	
2006	Yes	No	No	No	No	No	No	
2007	Yes	Yes	No	No	No	No	No	
2008	Yes	No	No	No	No	No	No	
2009	No	No	No	No	No	No	No	
2010	No	No	No	No	No	No	No	
2000 - 2004	No	No	No	No	No	No	No	Not Useable
2001 - 2005	No	No	No	No	No	No	No	Not Useable
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable
2005 - 2009	No	No	No	No	No	No	No	Not Useable
2006 - 2010	No	No	No	No	No	No	No	Not Useable

AERMET Ver.:  
06341

AERMINUTE?  
No



5	0	ANE	Minneapolis/Blaine	726577	94974	Anoka	MN	AWOS IIIp		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	93.69%	15.88%	6.67	SSE	NW	6.31%	22.19%		In Use:	NNE 30°
2001	82.23%	5.01%	7.49	SSE	WNW	17.77%	22.78%		2004 - 2008	NE 45°
2002	93.93%	15.88%	6.84	SSE	W	6.07%	21.95%			ENE 60°
2003	96.29%	16.36%	6.73	SSE	WNW	3.71%	20.07%		Most Recent	E 90°
2004	97.85%	15.57%	6.88	SSE	NW	2.15%	17.72%		Useable:	ESE 120°
2005	95.80%	16.62%	6.56	SSE	WNW	4.20%	20.82%		Caution	SE 135°
2006	91.19%	16.11%	6.72	SSE	NW	8.81%	24.92%		2004 - 2008	SSE 150°
2007	90.86%	15.10%	7.21	SSE	WNW	9.14%	24.24%		Need 2010	S 180°
2008	94.67%	15.89%	6.98	SSE	WNW	5.33%	21.22%			SSW 210°
2009									Lat. (N)	SW 225°
2010									45.143	WSW 240°
2000 - 2010	92.95%	14.86%	6.89	SSE	WNW	7.05%	21.91%		Lon. (W)	W 270°
2000 - 2004	92.80%	13.74%	6.92			7.20%	20.94%		-93.213	WNW 300°
2001 - 2005	93.22%	13.89%	6.90			6.78%	20.67%			NW 315°
2002 - 2006	95.01%	16.11%	6.75			4.99%	21.10%		Elev. (m)	NNW 330°
2003 - 2007	94.40%	15.95%	6.82			5.60%	21.55%		276.0	
2004 - 2008	94.07%	15.86%	6.87			5.93%	21.78%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	No	No	Yes	No		06341
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	No	No	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	No	No	Yes	No		No
2004	Yes	Yes	Yes	No	No	Yes	No		
2005	Yes	Yes	Yes	No	No	Yes	No		
2006	Yes	Yes	Yes	No	No	Yes	No		
2007	Yes	Yes	Yes	No	No	Yes	No		
2008	Yes	Yes	Yes	No	No	Yes	No		
2009	No	No	No	No	No	No	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	Yes	Yes	No	No	Yes	No	Not Useable	
2001 - 2005	No	Yes	Yes	No	No	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	No	No	Yes	No	Caution	
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution	
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

6	0	ATY	Watertown	726546	14946	Codington	SD	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	98.16%	7.01%	9.59	SSE	SE	1.84%	8.85%	Average	In Use:	NNE	30°
2001	98.17%	7.06%	9.46	SSE	SE	1.83%	8.89%	Average	2000 - 2004	NE	45°
2002	98.80%	5.98%	9.88	SSE	WNW	1.20%	7.18%	Average	Most Recent	ENE	60°
2003	98.48%	6.73%	9.63	SSE	NW	1.52%	8.25%	Average	Useable:	E	90°
2004	97.63%	6.41%	9.70	SSE	S	2.37%	8.78%	Average	Useable:	ESE	120°
2005	98.64%	7.50%	9.58	SSE	S	1.36%	8.86%	Average	Useable:	SE	135°
2006	97.20%	9.96%	8.94	SSE	NW	2.80%	12.76%	Average	2005 - 2009	SSE	150°
2007	95.81%	8.46%	9.13	SSE	S	4.19%	12.65%	Average	Need 2010	S	180°
2008	96.71%	10.12%	9.16	SSE	S	3.29%	13.41%	Average	Lat. (N)	SSW	210°
2009	97.31%	10.02%	8.70	SSE	S	2.69%	12.71%	Average	44.918	SW	225°
2010								Average		WSW	240°
2000 - 2010	97.69%	7.92%	9.38	SSE	NW	2.31%	10.23%		Lon. (W)	W	270°
2000 - 2004	98.25%	6.64%	9.65			1.75%	8.39%		-97.154	WNW	300°
2001 - 2005	98.34%	6.74%	9.65			1.66%	8.39%			NW	315°
2002 - 2006	98.15%	7.32%	9.55			1.85%	9.17%		Elev. (m)	NNW	330°
2003 - 2007	97.55%	7.81%	9.40			2.45%	10.26%		525.0		
2004 - 2008	97.20%	8.49%	9.30			2.80%	11.29%				
2005 - 2009	97.13%	9.21%	9.10			2.87%	12.08%		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes		06341
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes	No		
2007	Yes	Yes	Yes	Yes	Yes	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	Yes	Yes	Yes	Yes	No	Yes	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

7	0	AXN	Alexandria	726557	14910	Douglas	MN	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	98.71%	4.26%	9.16	NW	SE	1.29%	5.55%	Average	In Use:	NNE	30°
2001	98.82%	4.55%	9.22	NW	WNW	1.18%	5.73%	Average	2004 - 2008	NE	45°
2002	97.21%	4.44%	9.51	WNW	S	2.79%	7.23%	Average		ENE	60°
2003	98.18%	3.94%	9.36	NW	WNW	1.82%	5.76%	Average	Most Recent	E	90°
2004	98.04%	4.12%	9.50	NW	WNW	1.96%	6.08%	Average	Useable:	ESE	120°
2005	98.64%	5.05%	9.16	NW	SE	1.36%	6.41%	Wet	Useable:	SE	135°
2006	97.79%	0.48%	9.37	NW	WNW	2.21%	2.69%	Dry	2006 - 2010	SSE	150°
2007	98.71%	0.26%	9.84	NW	WNW	1.29%	1.55%	Average	Yes	S	180°
2008	99.57%	0.66%	9.44	WNW	NW	0.43%	1.09%	Wet		SSW	210°
2009	99.71%	0.71%	9.04	NW	WNW	0.29%	1.00%	Average	Lat. (N)	SW	225°
2010	98.21%	0.70%	8.98	WNW	SE	1.79%	2.49%	Wet	45.868	WSW	240°
2000 - 2010	97.41%	5.16%	9.17	NW	WNW	2.59%	7.75%		Lon. (W)	W	270°
2000 - 2004	98.19%	4.26%	9.35			1.81%	6.07%		-95.394	WNW	300°
2001 - 2005	98.18%	4.42%	9.35			1.82%	6.24%			NW	315°
2002 - 2006	97.97%	3.61%	9.38			2.03%	5.63%		Elev. (m)	NNW	330°
2003 - 2007	98.27%	2.77%	9.45			1.73%	4.50%		432.0		
2004 - 2008	98.55%	2.11%	9.46			1.45%	3.56%				
2005 - 2009	98.88%	1.43%	9.37			1.12%	2.55%		Last Updated:		
2006 - 2010	98.80%	0.56%	9.33			1.20%	1.76%		05/18/2011		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes		11059		
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?		
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes		
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			

8	Q	BBB	Benson	727507	54904	Swift	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	93.07%	18.19%	7.09	NNW	SSE	6.93%	25.12%		In Use:	NNE	30°
2001	88.78%	4.94%	8.19	NNW	S	11.22%	16.16%		2003 - 2007	NE	45°
2002	96.59%	11.84%	7.87	NNW	S	3.41%	15.25%		Most Recent	ENE	60°
2003	97.89%	12.86%	7.66	N	S	2.11%	14.97%		Useable:	E	90°
2004	98.94%	11.91%	7.89	N	S	1.06%	12.97%		Caution	ESE	120°
2005	98.32%	16.05%	7.39	S	N	1.68%	17.73%		2003 - 2007	SE	135°
2006	98.80%	16.74%	7.33	N	S	1.20%	17.94%		No	SSE	150°
2007	97.88%	17.72%	7.68	N	S	2.12%	19.84%		Lat. (N)	S	180°
2008	98.17%	31.25%	6.97	N	S	1.83%	33.08%		45.331	SSW	210°
2009										SW	225°
2010										WSW	240°
2000 - 2010	96.49%	15.83%	7.56	N	S	3.51%	19.34%		Lon. (W)	W	270°
2000 - 2004	95.05%	11.95%	7.74			4.95%	16.89%		-95.647	WNW	300°
2001 - 2005	96.10%	11.52%	7.80			3.90%	15.42%			NW	315°
2002 - 2006	98.11%	13.88%	7.63			1.89%	15.77%		Elev. (m)	NNW	330°
2003 - 2007	98.37%	15.06%	7.59			1.63%	16.69%		315.0		
2004 - 2008	98.42%	18.73%	7.45			1.58%	20.31%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	Yes	No	Yes	No		No		
2004	Yes	Yes	Yes	Yes	No	Yes	No				
2005	Yes	Yes	Yes	No	No	Yes	No				
2006	Yes	Yes	Yes	No	No	Yes	No				
2007	Yes	Yes	Yes	No	No	Yes	No				
2008	Yes	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	Yes	Yes	No	No	No	No	Not Useable			
2001 - 2005	No	Yes	Yes	No	No	Yes	No	Not Useable			
2002 - 2006	Yes	Yes	Yes	No	No	Yes	No	Caution			
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

9	0	BDE	Baudette Intl'l Aprt	727476	94961	Lake of the Woods	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	92.03%	13.33%	6.83	NNW	SSW	7.97%	21.30%	Wet	In Use:	NNE 30°
2001	82.77%	6.48%	7.70	NW	NNW	17.23%	23.71%	Wet	NA	NE 45°
2002	86.53%	11.03%	7.26	NW	NNW	13.47%	24.50%	Wet		ENE 60°
2003	86.93%	11.98%	7.08	NNW	NW	13.07%	25.05%	Average	Most Recent	E 90°
2004	89.32%	11.74%	7.46	NNW	NW	10.68%	22.42%	Wet	Useable:	ESE 120°
2005	88.95%	15.46%	6.78	SE	NW	11.05%	26.51%	Wet	Not Useable	SE 135°
2006	87.20%	14.60%	6.60	NNW	NW	12.80%	27.40%	Dry	NA	SSE 150°
2007	91.53%	17.14%	6.61	NW	NNW	8.47%	25.61%	Wet	No	S 180°
2008	92.58%	18.04%	6.29	NW	NNW	7.42%	25.46%	Wet		SSW 210°
2009								Average	Lat. (N)	SW 225°
2010								Wet	48.726	WSW 240°
2000 - 2010	88.65%	13.41%	6.95	NNW	NW	11.35%	24.76%		Lon. (W)	W 270°
2000 - 2004	87.52%	10.91%	7.27			12.48%	23.40%		-94.604	WNW 300°
2001 - 2005	86.90%	11.34%	7.26			13.10%	24.44%			NW 315°
2002 - 2006	87.79%	12.96%	7.04			12.21%	25.18%		Elev. (m)	NNW 330°
2003 - 2007	88.79%	14.18%	6.91			11.21%	25.40%		327.0	
2004 - 2008	89.92%	15.40%	6.75			10.08%	25.48%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	No	Yes	No		06341
2001	No	Yes	Yes	Yes	Yes	No		
2002	No	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	No	Yes	Yes	Yes	No	No		Yes
2004	No	Yes	Yes	Yes	No	No		
2005	No	Yes	Yes	No	No	No		
2006	No	Yes	Yes	Yes	No	No	Not Useable	
2007	Yes	Yes	Yes	No	No	No	Not Useable	
2008	Yes	Yes	Yes	No	No	No	Not Useable	
2009	No	No	No	No	No	No	Not Useable	
2010	No	No	No	No	No	No	Not Useable	
2000 - 2004	No	Yes	Yes	Yes	No	No	Not Useable	
2001 - 2005	No	Yes	Yes	No	No	No	Not Useable	
2002 - 2006	No	Yes	Yes	No	No	No	Not Useable	
2003 - 2007	No	Yes	Yes	No	No	No	Not Useable	
2004 - 2008	No	Yes	Yes	No	No	No	Not Useable	
2005 - 2009	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	Not Useable	

10	0	BDH	Willmar	720386	14928	Kandivohi	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available								In Use:	NNE	30°
2001	No Data Available								NA	NE	45°
2002	No Data Available									ENE	60°
2003	No Data Available								Most Recent	E	90°
2004	No Data Available								Useable:	ESE	120°
2005	No Data Available								Not Useable	SE	135°
2006	No Data Available								NA	SSE	150°
2007									No	S	180°
2008										SSW	210°
2009									Lat. (N)	SW	225°
2010									45.112	WSW	240°
2000 - 2010										W	270°
2000 - 2004	NA	NA	NA			NA	NA		Lon. (W)	WNW	300°
2001 - 2005	NA	NA	NA			NA	NA		-95.085	NW	315°
2002 - 2006	NA	NA	NA			NA	NA			NNW	330°
2003 - 2007	NA	NA	NA			NA	NA		Elev. (m)		
2004 - 2008	NA	NA	NA			NA	NA		342.0		
2005 - 2009	NA	NA	NA			NA	NA				
2006 - 2010	NA	NA	NA			NA	NA		Last Updated:		
									06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	No	No	No	No	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	No	No	No	No	No	No	No		No		
2004	No	No	No	No	No	No	No				
2005	No	No	No	No	No	No	No				
2006	No	No	No	No	No	No	No				
2007	No	No	No	No	No	No	No				
2008	No	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No			Not Useable	
2001 - 2005	No	No	No	No	No	No	No			Not Useable	
2002 - 2006	No	No	No	No	No	No	No			Not Useable	
2003 - 2007	No	No	No	No	No	No	No			Not Useable	
2004 - 2008	No	No	No	No	No	No	No			Not Useable	
2005 - 2009	No	No	No	No	No	No	No			Not Useable	
2006 - 2010	No	No	No	No	No	No	No			Not Useable	

11	0	BFW	Silver Bay	727556	04905	Lake	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	94.50%	35.55%	4.12	ENE	NW	5.50%	41.05%		In Use:	NNE 30°
2001	70.02%	13.58%	5.54	ENE	NW	29.98%	43.56%		NA	NE 45°
2002	94.12%	32.42%	4.25	ENE	WNW	5.88%	38.30%			ENE 60°
2003	96.72%	35.49%	4.23	ENE	NW	3.28%	38.77%		Most Recent	E 90°
2004	98.83%	36.03%	4.20	ENE	NW	1.17%	37.20%		Useable:	ESE 120°
2005	99.22%	38.37%	3.92	ENE	E	0.78%	39.15%		Not Useable	SE 135°
2006	99.05%	35.55%	3.97	ENE	NNW	0.95%	36.50%		2004 - 2008	SSE 150°
2007	98.58%	34.89%	4.29	ENE	NNW	1.42%	36.31%		No	S 180°
2008	98.29%	37.06%	3.90	ENE	NNW	1.71%	38.77%			SSW 210°
2009									Lat. (N)	SW 225°
2010									47.251	WSW 240°
2000 - 2010	94.37%	33.87%	4.22	ENE	NW	5.63%	39.50%		Lon. (W)	W 270°
2000 - 2004	90.84%	30.61%	4.47			9.16%	39.78%		-91.409	WNW 300°
2001 - 2005	91.78%	31.18%	4.43			8.22%	39.40%			NW 315°
2002 - 2006	97.59%	35.57%	4.11			2.41%	37.98%		Elev. (m)	NNW 330°
2003 - 2007	98.48%	36.07%	4.12			1.52%	37.59%		330.0	
2004 - 2008	98.79%	36.38%	4.06			1.21%	37.59%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	Yes	No	No	No	No	No	No		06341	
2001	No	Yes	Yes	Yes	No	No	No			
2002	Yes	No	No	No	No	No	No		AERMINUTE?	
2003	Yes	No	No	No	No	No	No		No	
2004	Yes	No	No	No	No	No	No			
2005	Yes	No	No	No	No	No	No			
2006	Yes	No	No	No	No	No	No			
2007	Yes	No	No	No	No	No	No			
2008	Yes	No	No	No	No	No	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	No	No	No	No	No	No	Not Useable		
2001 - 2005	No	No	No	No	No	No	No	Not Useable		
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable		
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable		
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

12	72755	BJI	Bemidji	727550	14958	Beltrami	MN	AWOS III		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	97.94%	12.38%	7.49	NW	WNW	2.06%	14.44%	Average	In Use:	NNE 30°
2001	91.38%	3.86%	8.42	NW	WNW	8.62%	12.48%	Average	2003 - 2007	NE 45°
2002	97.18%	8.96%	8.13	NW	WNW	2.82%	11.78%	Average		ENE 60°
2003	98.44%	9.65%	7.75	NW	WNW	1.56%	11.21%	Dry	Most Recent	E 90°
2004	97.50%	9.97%	7.94	NW	WNW	2.50%	12.47%	Average	Useable:	ESE 120°
2005	99.10%	12.19%	7.53	SE	WNW	0.90%	13.09%	Average	Useable	SE 135°
2006	96.10%	10.77%	7.59	WNW	W	3.90%	14.67%	Dry	2004 - 2008	SSE 150°
2007	98.12%	10.77%	7.76	WNW	NW	1.88%	12.65%	Average	Need 2010	S 180°
2008	98.72%	14.30%	7.16	WNW	W	1.28%	15.58%	Average		SSW 210°
2009	99.51%	15.13%	6.77	WNW	W	0.49%	15.62%	Average	Lat. (N)	SW 225°
2010								Wet	47.506	WSW 240°
2000 - 2010	97.40%	10.86%	7.65	NW	WNW	2.60%	13.46%		Lon. (W)	W 270°
2000 - 2004	96.49%	8.96%	7.95			3.51%	12.48%		-94.926	WNW 300°
2001 - 2005	96.72%	8.93%	7.95			3.28%	12.21%			NW 315°
2002 - 2006	97.66%	10.31%	7.79			2.34%	12.64%		Elev. (m)	NNW 330°
2003 - 2007	97.85%	10.67%	7.71			2.15%	12.82%		421.0	
2004 - 2008	97.91%	11.60%	7.60			2.09%	13.69%			
2005 - 2009	98.31%	12.63%	7.36			1.69%	14.32%		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	No	Yes	No		06341
2001	Yes	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	No		No
2004	Yes	Yes	Yes	Yes	Yes	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	Yes	No	Yes	No		
2007	Yes	Yes	Yes	Yes	No	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	Yes	Yes	Yes	No	No	Yes	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	No	No	Yes	No	Caution	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	



13	0	BRD	Brainerd	726555	94938	Crow Wing	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	80.87%	26.89%	5.31	SSW	SW	19.13%	46.02%	Average	In Use:	NNE 30°
2001	73.88%	8.73%	6.73	SSW	S	26.12%	34.85%	Average	2004 - 2008	NE 45°
2002	89.17%	14.03%	6.45	S	SSW	10.83%	24.86%	Wet		ENE 60°
2003	91.94%	15.79%	6.62	S	SSW	8.06%	23.85%	Average	Most Recent	E 90°
2004	96.53%	14.73%	7.10	S	NNW	3.47%	18.20%	Average	Useable:	ESE 120°
2005	95.66%	14.86%	6.93	S	SSW	4.34%	19.20%	Wet	Useable:	SE 135°
2006	99.43%	1.77%	7.13	S	SSE	0.57%	2.34%	Dry	2006 - 2010	SSE 150°
2007	99.14%	1.12%	7.46	S	SSW	0.86%	1.98%	Average	Yes	S 180°
2008	99.73%	2.05%	7.21	S	SSE	0.27%	2.32%	Average		SSW 210°
2009	99.54%	2.28%	6.85	S	SSE	0.46%	2.74%	Average	Lat. (N)	SW 225°
2010	99.63%	2.71%	6.76	S	NNW	0.37%	3.08%	Average	46.405	WSW 240°
2000 - 2010	90.21%	16.10%	6.59	S	SSW	9.79%	25.89%		Lon. (W)	W 270°
2000 - 2004	86.48%	16.03%	6.44			13.52%	29.56%		-94.130	WNW 300°
2001 - 2005	89.44%	13.63%	6.77			10.56%	24.19%			NW 315°
2002 - 2006	94.55%	12.24%	6.85			5.45%	17.69%		Elev. (m)	NNW 330°
2003 - 2007	96.54%	9.65%	7.05			3.46%	13.11%		372.0	
2004 - 2008	98.10%	6.91%	7.17			1.90%	8.81%			
2005 - 2009	98.70%	4.42%	7.12			1.30%	5.72%		Last Updated:	
2006 - 2010	99.49%	1.99%	7.08			0.51%	2.49%		06/30/2011	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	No	No	No	No	No	No		11059
2001	No	Yes	Yes	Yes	Yes	No	No		
2002	No	Yes	Yes	Yes	No	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	No	No	Yes	No		Yes
2004	Yes	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2000 - 2004	No	No	No	No	No	No	No	Not Useable	
2001 - 2005	No	Yes	Yes	No	No	No	No	Not Useable	
2002 - 2006	No	Yes	Yes	No	No	Yes	No	Not Useable	
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution	
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	

14	0	CBG	Cambridge	727503	04909	Isanti	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	91.23%	28.06%	4.69	W	SSE	8.77%	36.83%		In Use:	NNE	30°
2001	77.29%	10.53%	5.88	SSE	W	22.71%	33.24%		NA	NE	45°
2002	95.67%	25.70%	4.91	W	SSE	4.33%	30.03%			ENE	60°
2003	98.52%	27.22%	4.79	SSE	WNW	1.48%	28.70%		Most Recent	E	90°
2004	99.07%	26.42%	4.86	SSE	WNW	0.93%	27.35%		Useable:	ESE	120°
2005	99.51%	29.30%	4.57	SSE	S	0.49%	29.79%		Not Useable	SE	135°
2006	97.23%	27.49%	4.68	SSE	SE	2.77%	30.26%		2002 - 2006	SSE	150°
2007	98.70%	29.86%	4.72	SSE	S	1.30%	31.16%		No	S	180°
2008	97.86%	35.62%	4.18	SSE	WNW	2.14%	37.76%			SSW	210°
2009									Lat. (N)	SW	225°
2010									45.558	WSW	240°
2000 - 2010	95.01%	27.08%	4.78	SSE	W	4.99%	32.07%		Lon. (W)	W	270°
2000 - 2004	92.36%	23.59%	5.03			7.64%	31.23%		-93.262	WNW	300°
2001 - 2005	94.01%	23.83%	5.00			5.99%	29.82%			NW	315°
2002 - 2006	98.00%	27.23%	4.76			2.00%	29.23%		Elev. (m)	NNW	330°
2003 - 2007	98.61%	28.06%	4.72			1.39%	29.45%		288.0		
2004 - 2008	98.47%	29.74%	4.60			1.53%	31.26%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	No	No	No	No	No	No		06341
2001	No	Yes	Yes	Yes	No	No	No		
2002	Yes	No	No	No	No	No	No		AERMINUTE?
2003	Yes	No	No	No	No	No	No		No
2004	Yes	No	No	No	No	No	No		
2005	Yes	No	No	No	No	No	No		
2006	Yes	No	No	No	No	No	No		
2007	Yes	No	No	No	No	No	No		
2008	Yes	No	No	No	No	No	No		
2009	No	No	No	No	No	No	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	No	No	No	No	No	No	Not Useable	
2001 - 2005	No	No	No	No	No	No	No	Not Useable	
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable	
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable	
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

15	0	CKC	Grand Marais Mun. Arprt	727454	04911	Cook	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	92.07%	15.57%	6.46	N	NNE	7.93%	23.50%		In Use:	NNE 30°
2001	89.51%	4.50%	7.42	N	NNW	10.49%	14.99%		2004 - 2008	NE 45°
2002	95.18%	12.45%	6.69	NW	WNW	4.82%	17.27%			ENE 60°
2003	98.24%	14.00%	6.75	NW	NNW	1.76%	15.76%		Most Recent	E 90°
2004	98.98%	14.12%	6.60	NNW	NW	1.02%	15.14%		Useable:	ESE 120°
2005	99.52%	13.86%	6.21	NNW	NW	0.48%	14.34%		Caution	SE 135°
2006	95.71%	16.94%	5.86	N	NNW	4.29%	21.23%		2004 - 2008	SSE 150°
2007	97.65%	13.12%	6.55	NNW	NW	2.35%	15.47%		Need 2010	S 180°
2008	96.99%	14.04%	6.17	NNW	NW	3.01%	17.05%			SSW 210°
2009									Lat. (N)	SW 225°
2010									47.837	WSW 240°
2000 - 2010	95.98%	13.24%	6.52	NNW	NW	4.02%	17.26%		Lon. (W)	W 270°
2000 - 2004	94.80%	12.13%	6.78			5.20%	17.33%		-90.386	WNW 300°
2001 - 2005	96.29%	11.79%	6.73			3.71%	15.50%			NW 315°
2002 - 2006	97.53%	14.27%	6.42			2.47%	16.75%		Elev. (m)	NNW 330°
2003 - 2007	98.02%	14.41%	6.39			1.98%	16.39%		545.0	
2004 - 2008	97.77%	14.42%	6.28			2.23%	16.65%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	No	No	Yes	No		06341
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	No	Yes	No		No
2004	Yes	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	No	No	Yes	No		
2007	Yes	Yes	Yes	Yes	No	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	No	No	No	No	No	No	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	Yes	Yes	No	No	Yes	No	Not Useable	
2001 - 2005	No	Yes	Yes	Yes	No	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	No	No	Yes	No	Caution	
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution	
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

16	0	CKN	Crookston	727452	04912	Polk	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	86.54%	13.85%	8.55	NNW	S	13.46%	27.31%	Average	In Use:	NNE 30°
2001	91.32%	2.56%	9.55	S	NNW	8.68%	11.24%	Average	2003 - 2007	NE 45°
2002	96.16%	7.26%	9.03	NNW	S	3.84%	11.10%	Wet		ENE 60°
2003	98.22%	7.54%	9.02	S	NNW	1.78%	9.32%	Average	Most Recent	E 90°
2004	97.52%	7.74%	9.30	S	N	2.48%	10.22%	Wet	Useable:	ESE 120°
2005	99.02%	10.11%	8.82	NNW	SSE	0.98%	11.09%	Wet	Useable	SE 135°
2006	98.55%	8.71%	8.75	NNW	S	1.45%	10.16%	Dry	2005 - 2009	SSE 150°
2007	98.76%	7.33%	9.29	S	N	1.24%	8.57%	Average	Need 2010	S 180°
2008	97.52%	8.86%	9.09	S	N	2.48%	11.34%	Average		SSW 210°
2009	99.10%	9.43%	8.45	S	NNW	0.90%	10.33%	Wet	Lat. (N)	SW 225°
2010								Wet	47.840	WSW 240°
2000 - 2010	96.27%	8.32%	8.99	S	NNW	3.73%	12.05%		Lon. (W)	W 270°
2000 - 2004	93.95%	7.79%	9.09			6.05%	13.84%		-96.620	WNW 300°
2001 - 2005	96.45%	7.04%	9.14			3.55%	10.59%			NW 315°
2002 - 2006	97.89%	8.27%	8.98			2.11%	10.38%		Elev. (m)	NNW 330°
2003 - 2007	98.41%	8.29%	9.04			1.59%	9.87%		272.0	
2004 - 2008	98.27%	8.55%	9.05			1.73%	10.28%			
2005 - 2009	98.59%	8.89%	8.88			1.41%	10.30%		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	Yes	Yes	No	No	No		06341
2001	Yes	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		No
2004	Yes	Yes	Yes	Yes	Yes	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	Yes	Yes	Yes	No		
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes	No		
2009	Yes	Yes	Yes	Yes	Yes	Yes	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	Yes	Yes	Yes	No	No	No	Not Useable	
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

17	0	COQ	Cloquet	726558	04914	Carlton	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	91.85%	22.78%	5.79	E	NW	8.15%	30.93%		In Use:	NNE	30°
2001	87.35%	4.10%	7.02	NW	NNW	12.65%	16.75%		2003 - 2007	NE	45°
2002	96.47%	14.38%	6.37	W	NNW	3.53%	17.91%		Most Recent	ENE	60°
2003	98.74%	16.17%	6.32	NW	NNW	1.26%	17.43%		Useable:	E	90°
2004	99.02%	16.08%	6.31	NW	E	0.98%	17.06%		Caution	ESE	120°
2005	99.58%	17.04%	5.92	E	ESE	0.42%	17.46%		2004 - 2008	SE	135°
2006	99.11%	14.54%	6.19	E	NW	0.89%	15.43%		Need 2010	SSE	150°
2007	98.70%	15.12%	6.58	WNW	NW	1.30%	16.42%		Lat. (N)	S	180°
2008	96.98%	15.96%	6.29	WNW	NW	3.02%	18.98%		46.699	SSW	210°
2009										SW	225°
2010										WSW	240°
2000 - 2010	96.42%	15.22%	6.31	NW	WNW	3.58%	18.80%		Lon. (W)	W	270°
2000 - 2004	94.69%	14.70%	6.36			5.31%	20.02%		-92.503	WNW	300°
2001 - 2005	96.23%	13.55%	6.39			3.77%	17.32%			NW	315°
2002 - 2006	98.58%	15.64%	6.22			1.42%	17.06%		Elev. (m)	NNW	330°
2003 - 2007	99.03%	15.79%	6.26			0.97%	16.76%		390.0		
2004 - 2008	98.68%	15.75%	6.26			1.32%	17.07%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	No	No	Yes	No		No		
2004	Yes	Yes	Yes	No	No	Yes	No				
2005	Yes	Yes	Yes	No	No	Yes	No				
2006	Yes	Yes	Yes	Yes	No	Yes	No				
2007	Yes	Yes	Yes	No	No	Yes	No				
2008	Yes	Yes	Yes	No	No	Yes	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	Yes	No	No	No	No	No	Not Useable			
2001 - 2005	No	Yes	Yes	No	No	Yes	No	Not Useable			
2002 - 2006	Yes	Yes	Yes	No	No	Yes	No	Caution			
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution			
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

18	0	CQM	Cook	726549	54905	Saint Louis	MN	AWOS IIIA			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	88.75%	36.40%	3.80	WNW	W	11.25%	47.65%		In Use:	NNE	30°
2001	72.31%	13.88%	5.44	WNW	W	27.69%	41.57%		NA	NE	45°
2002	88.86%	30.81%	4.54	WNW	W	11.14%	41.95%			ENE	60°
2003	92.96%	33.08%	4.27	W	WNW	7.04%	40.12%		Most Recent	E	90°
2004	97.79%	30.63%	4.48	WNW	W	2.21%	32.84%		Useable:	ESE	120°
2005	94.94%	41.54%	3.65	S	SSE	5.06%	46.60%		Not Useable	SE	135°
2006	99.04%	33.54%	4.03	WNW	W	0.96%	34.50%		2004 - 2008	SSE	150°
2007	98.80%	29.82%	4.56	W	S	1.20%	31.02%		No	S	180°
2008	96.25%	34.61%	4.06	WNW	W	3.75%	38.36%			SSW	210°
2009									Lat. (N)	SW	225°
2010									47.821	WSW	240°
2000 - 2010	92.19%	32.04%	4.29	WNW	W	7.81%	39.85%		Lon. (W)	W	270°
2000 - 2004	88.13%	28.96%	4.51			11.87%	40.83%		-92.692	WNW	300°
2001 - 2005	89.37%	29.99%	4.48			10.63%	40.62%			NW	315°
2002 - 2006	94.72%	33.92%	4.19			5.28%	39.20%		Elev. (m)	NNW	330°
2003 - 2007	96.71%	33.72%	4.20			3.29%	37.02%		403.0		
2004 - 2008	97.36%	34.03%	4.16			2.64%	36.66%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	No	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	Yes	No	No	No	No	No	No		No		
2004	Yes	No	No	No	No	No	No				
2005	Yes	No	No	No	No	No	No				
2006	Yes	No	No	No	No	No	No				
2007	Yes	No	No	No	No	No	No				
2008	Yes	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	No	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

19	72745	DLH	Duluth Intl'l Apt	727450	14913	Saint Louis	MN	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	98.63%	5.52%	8.50	NW	ESE	1.37%	6.89%	Average	In Use:	NNE	30°
2001	98.00%	5.47%	8.74	NW	NNW	2.00%	7.47%	Wet	2004 - 2008	NE	45°
2002	98.79%	4.54%	8.86	NW	WNW	1.21%	5.75%	Average		ENE	60°
2003	98.55%	5.58%	8.84	NW	WNW	1.45%	7.03%	Dry	Most Recent	E	90°
2004	98.90%	4.64%	8.96	NW	E	1.10%	5.74%	Average	Useable:	ESE	120°
2005	98.94%	5.22%	8.52	E	ESE	1.06%	6.28%	Wet	Useable:	SE	135°
2006	99.76%	1.55%	9.10	E	NW	0.24%	1.79%	Average	2006 - 2010	SSE	150°
2007	99.73%	0.87%	9.45	NW	WNW	0.27%	1.14%	Wet	Yes	S	180°
2008	99.62%	0.85%	8.88	NW	WNW	0.38%	1.23%	Wet		SSW	210°
2009	99.86%	0.34%	8.57	NW	WNW	0.14%	0.48%	Average	Lat. (N)	SW	225°
2010	99.86%	0.56%	8.56	NW	ESE	0.14%	0.70%	Wet	46.843	WSW	240°
2000 - 2010	98.23%	5.64%	8.66	NW	WNW	1.77%	7.41%		Lon. (W)	W	270°
2000 - 2004	98.57%	5.15%	8.78			1.43%	6.58%		-92.187	WNW	300°
2001 - 2005	98.64%	5.09%	8.78			1.36%	6.45%			NW	315°
2002 - 2006	98.99%	4.31%	8.86			1.01%	5.32%		Elev. (m)	NNW	330°
2003 - 2007	99.18%	3.57%	8.97			0.82%	4.40%		435.0		
2004 - 2008	99.39%	2.63%	8.98			0.61%	3.24%				
2005 - 2009	99.58%	1.77%	8.90			0.42%	2.18%		Last Updated:		
2006 - 2010	99.77%	0.83%	8.91			0.23%	1.07%		05/19/2011		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes		11059		
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?		
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes		
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			

20	0	DTL	Detroit Lakes	727457	94962	Becker	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	87.73%	10.42%	7.67	SE	NW	12.27%	22.69%	Wet	In Use:	NNE	30°
2001	85.17%	4.62%	8.20	NW	SE	14.83%	19.45%	Average	2004 - 2008	NE	45°
2002	94.20%	10.09%	7.85	NW	SE	5.80%	15.89%	Average		ENE	60°
2003	98.08%	11.13%	7.67	SSE	NW	1.92%	13.05%	Dry	Most Recent	E	90°
2004	99.08%	10.67%	7.96	NNW	SSE	0.92%	11.59%	Wet	Useable:	ESE	120°
2005	99.62%	11.52%	7.71	SSE	SE	0.38%	11.90%	Wet	Useable:	SE	135°
2006	99.21%	12.37%	7.47	NW	SSE	0.79%	13.16%	Average	2006 - 2010	SSE	150°
2007	98.85%	10.87%	7.90	NW	SSE	1.15%	12.02%	Average	Yes	S	180°
2008	98.71%	12.57%	7.73	SSE	NW	1.29%	13.86%	Wet		SSW	210°
2009	98.87%	13.42%	7.36	NW	NNW	1.13%	14.55%	Average	Lat. (N)	SW	225°
2010	98.12%	14.33%	7.25	SE	NW	1.88%	16.21%	Wet	46.825	WSW	240°
2000 - 2010	95.95%	10.92%	7.75	NW	SSE	4.05%	14.97%		Lon. (W)	W	270°
2000 - 2004	92.85%	9.39%	7.87			7.15%	16.53%		-95.883	WNW	300°
2001 - 2005	95.23%	9.61%	7.88			4.77%	14.38%			NW	315°
2002 - 2006	98.04%	11.16%	7.73			1.96%	13.12%		Elev. (m)	NNW	330°
2003 - 2007	98.97%	11.31%	7.74			1.03%	12.34%		421.0		
2004 - 2008	99.09%	11.60%	7.75			0.91%	12.51%				
2005 - 2009	99.05%	12.15%	7.63			0.95%	13.10%		Last Updated:		
2006 - 2010	98.75%	12.71%	7.54			1.25%	13.96%		05/18/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	Yes	Yes	No	Yes	No		11059
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	No	Yes	No	AERMINUTE?	
2003	Yes	Yes	Yes	Yes	No	Yes	No	No	
2004	Yes	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	Yes	No	Yes	No		
2007	Yes	Yes	Yes	Yes	No	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	Yes	Yes	Yes	Yes	No	Yes	No		
2010	Yes	Yes	Yes	Yes	No	Yes	No		
2000 - 2004	No	Yes	Yes	Yes	No	Yes	No	Not Useable	
2001 - 2005	No	Yes	Yes	Yes	No	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	No	Yes	No	Useable	



21	0	DVP	Slayton	720368	54924	Murray	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available								In Use:	NNE	30°
2001	No Data Available								NA	NE	45°
2002	No Data Available									ENE	60°
2003	No Data Available								Most Recent	E	90°
2004	No Data Available								Useable:	ESE	120°
2005	13.47%	11.44%	7.74	SSW	S	86.53%	97.97%		Not Useable	SE	135°
2006	93.18%	8.23%	9.17	NW	SSE	6.82%	15.05%		NA	SSE	150°
2007	98.20%	7.54%	9.72	S	NW	1.80%	9.34%		Need 2010	S	180°
2008	98.83%	7.88%	9.59	SSE	NW	1.17%	9.05%			SSW	210°
2009									Lat. (N)	SW	225°
2010									43.991	WSW	240°
2000 - 2010	75.94%	8.04%	9.42	NW	SSE	24.06%	32.10%		Lon. (W)	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-95.783	WNW	300°
2001 - 2005	NA	NA	NA			NA	NA			NW	315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW	330°
2003 - 2007	NA	NA	NA			NA	NA		490.0		
2004 - 2008	NA	NA	NA			NA	NA				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	No	No	No	No	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	No	No	No	No	No	No	No		No		
2004	No	No	No	No	No	No	No				
2005	No	Yes	Yes	Yes	No	No	No				
2006	Yes	Yes	Yes	Yes	Yes	Yes	No				
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No			Not Useable	
2001 - 2005	No	No	No	No	No	No	No			Not Useable	
2002 - 2006	No	No	No	No	No	No	No			Not Useable	
2003 - 2007	No	No	No	No	No	No	No			Not Useable	
2004 - 2008	No	No	No	No	No	No	No			Not Useable	
2005 - 2009	No	No	No	No	No	No	No			Not Useable	
2006 - 2010	No	No	No	No	No	No	No			Not Useable	

22	0	DYT	Duluth Sky Harbor	727456	4919	Saint Louis	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000								Average	In Use:	NNE	30°
2001								Wet	NA	NE	45°
2002								Average		ENE	60°
2003								Average	Most Recent	E	90°
2004								Average	Useable:	ESE	120°
2005								Wet	Useable:	SE	135°
2006	98.26%	13.89%	8.04	NE	ENE	1.74%	15.63%	Average	2006 - 2010	SSE	150°
2007	98.00%	14.70%	8.08	SW	NE	2.00%	16.70%	Average	Yes	S	180°
2008	97.13%	12.93%	8.25	NE	SW	2.87%	15.80%	Wet		SSW	210°
2009	95.97%	14.27%	7.88	NE	SW	4.03%	18.30%	Average	Lat. (N)	SW	225°
2010	97.88%	14.82%	7.96	NE	SW	2.12%	16.94%	Wet	46.725	WSW	240°
2000 - 2010									Lon. (W)	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-92.044	WNW	300°
2001 - 2005	NA	NA	NA			NA	NA			NW	315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW	330°
2003 - 2007	NA	NA	NA			NA	NA		186.0		
2004 - 2008	NA	NA	NA			NA	NA				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	97.45%	14.12%	8.04			2.55%	16.67%		11/03/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	No	No	No	No	No	No		11059
2001	No	No	No	No	No	No	No		
2002	No	No	No	No	No	No	No		AERMINUTE?
2003	No	No	No	No	No	No	No		No
2004	No	No	No	No	No	No	No		
2005	No	No	No	No	No	No	No		
2006	Yes	Yes	Yes	Yes	No	Yes	No		
2007	Yes	Yes	Yes	Yes	No	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	Yes	Yes	Yes	Yes	No	Yes	No		
2010	Yes	Yes	Yes	Yes	No	Yes	No		
2000 - 2004	No	No	No	No	No	No	No	Not Useable	
2001 - 2005	No	No	No	No	No	No	No	Not Useable	
2002 - 2006	No	No	No	No	No	No	No	Not Useable	
2003 - 2007	No	No	No	No	No	No	No	Not Useable	
2004 - 2008	No	No	No	No	No	No	No	Not Useable	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	Yes	Yes	Yes	Yes	No	Yes	No	Useable	

23	0	EAU	Eau Claire	726435	14991	Eau Claire	WI	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	98.35%	14.99%	6.80	S	W	1.65%	16.64%	Average	In Use:	NNE 30°
2001	97.51%	15.27%	6.59	SW	S	2.49%	17.76%	Average	2000 - 2004	NE 45°
2002	97.20%	13.41%	6.94	SW	WSW	2.80%	16.21%	Average		ENE 60°
2003	96.77%	14.57%	6.80	W	SSE	3.23%	17.80%	Average	Most Recent	E 90°
2004	97.38%	13.58%	6.91	S	SSE	2.62%	16.20%	Average	Useable:	ESE 120°
2005	96.96%	15.36%	6.48	SW	S	3.04%	18.40%	Average	Useable:	SE 135°
2006	99.52%	5.49%	7.27	SSE	W	0.48%	5.97%	Average	2006 - 2010	SSE 150°
2007	99.34%	1.84%	7.33	S	SW	0.66%	2.50%	Average	Yes	S 180°
2008	99.70%	2.03%	6.80	W	SW	0.30%	2.33%	Average		SSW 210°
2009	99.85%	1.37%	6.71	WSW	W	0.15%	1.52%	Average	Lat. (N)	SW 225°
2010	99.74%	1.59%	6.44	SW	WSW	0.26%	1.85%	Average	44.867	WSW 240°
2000 - 2010	96.77%	14.95%	6.68	S	W	3.23%	18.18%		Lon. (W)	W 270°
2000 - 2004	97.44%	14.36%	6.81			2.56%	16.92%		-91.488	WNW 300°
2001 - 2005	97.16%	14.44%	6.74			2.84%	17.27%			NW 315°
2002 - 2006	97.57%	12.48%	6.88			2.43%	14.92%		Elev. (m)	NNW 330°
2003 - 2007	97.99%	10.17%	6.96			2.01%	12.17%		269.0	
2004 - 2008	98.58%	7.66%	6.96			1.42%	9.08%			
2005 - 2009	99.07%	5.22%	6.92			0.93%	6.14%		Last Updated:	
2006 - 2010	99.63%	2.46%	6.91			0.37%	2.83%		02/02/2012	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	Yes	Yes	Yes	No	Yes	No	
2001	Yes	Yes	Yes	No	Yes	No	
2002	Yes	Yes	Yes	No	Yes	No	
2003	Yes	Yes	Yes	No	Yes	No	
2004	Yes	Yes	Yes	No	Yes	No	
2005	Yes	Yes	Yes	No	Yes	No	
2006	Yes	Yes	Yes	Yes	Yes	Yes	
2007	Yes	Yes	Yes	Yes	Yes	Yes	
2008	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	Yes	Yes	Yes	No	Yes	No	Caution
2001 - 2005	Yes	Yes	Yes	No	Yes	No	Caution
2002 - 2006	Yes	Yes	Yes	No	Yes	No	Caution
2003 - 2007	Yes	Yes	Yes	No	Yes	No	Caution
2004 - 2008	Yes	Yes	Yes	No	Yes	No	Caution
2005 - 2009	Yes	Yes	Yes	No	Yes	No	Caution
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Useable

AERMET Ver.:  
11059

AERMINUTE?  
Yes

24	0	ELO	Elv	727459	94964	Saint Louis	MN	AWOS IIIIP		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	89.82%	33.65%	3.90	SW	NW	10.18%	43.83%		In Use:	NNE 30°
2001	73.86%	14.48%	5.11	SW	NW	26.14%	40.62%		NA	NE 45°
2002	93.87%	26.67%	4.56	SW	W	6.13%	32.80%			ENE 60°
2003	97.64%	30.27%	4.63	WNW	W	2.36%	32.63%		Most Recent	E 90°
2004	99.07%	29.21%	4.83	WNW	SW	0.93%	30.14%		Useable:	ESE 120°
2005	99.55%	32.13%	4.45	W	SW	0.45%	32.58%		Not Useable	SE 135°
2006	99.00%	28.87%	4.78	NW	WNW	1.00%	29.87%		2004 - 2008	SSE 150°
2007	97.33%	25.23%	5.34	WNW	NW	2.67%	27.90%		No	S 180°
2008	97.51%	26.99%	5.12	WNW	NW	2.49%	29.48%			SSW 210°
2009									Lat. (N)	SW 225°
2010									47.825	WSW 240°
2000 - 2010	94.18%	27.83%	4.74	WNW	SW	5.82%	33.65%		Lon. (W)	W 270°
2000 - 2004	90.85%	26.86%	4.61			9.15%	36.00%		-91.833	WNW 300°
2001 - 2005	92.80%	26.55%	4.72			7.20%	33.75%			NW 315°
2002 - 2006	97.83%	29.43%	4.65			2.17%	31.60%		Elev. (m)	NNW 330°
2003 - 2007	98.52%	29.14%	4.81			1.48%	30.62%		441.0	
2004 - 2008	98.49%	28.49%	4.90			1.51%	29.99%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	No	No	No	No	No	No	No		06341	
2001	No	Yes	Yes	Yes	No	No	No			
2002	Yes	No	No	No	No	No	No		AERMINUTE?	
2003	Yes	No	No	No	No	No	No		No	
2004	Yes	No	No	No	No	No	No			
2005	Yes	No	No	No	No	No	No			
2006	Yes	No	No	No	No	No	No			
2007	Yes	No	No	No	No	No	No			
2008	Yes	No	No	No	No	No	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	No	No	No	No	No	No	Not Useable		
2001 - 2005	No	No	No	No	No	No	No	Not Useable		
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable		
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable		
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

25	0	EVM	Eveleth	727474	04923	Saint Louis	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	88.08%	24.53%	5.37	NW	WNW	11.92%	36.45%		In Use:	NNE 30°
2001	80.39%	9.71%	6.37	WNW	NW	19.61%	29.32%		NA	NE 45°
2002	96.13%	21.46%	5.72	WNW	W	3.87%	25.33%			ENE 60°
2003	98.68%	25.29%	5.39	WNW	NW	1.32%	26.61%		Most Recent	E 90°
2004	99.08%	23.66%	5.60	NW	WNW	0.92%	24.58%		Useable:	ESE 120°
2005	99.66%	26.20%	5.09	WNW	NW	0.34%	26.54%		Not Useable	SE 135°
2006	99.16%	23.42%	5.30	NW	WNW	0.84%	24.26%		2004 - 2008	SSE 150°
2007	98.56%	21.74%	5.74	WNW	NW	1.44%	23.18%		No	S 180°
2008	98.29%	24.72%	5.45	WNW	NW	1.71%	26.43%			SSW 210°
2009									Lat. (N)	SW 225°
2010									47.427	WSW 240°
2000 - 2010	95.34%	22.55%	5.54	WNW	NW	4.66%	27.21%		Lon. (W)	W 270°
2000 - 2004	92.47%	20.93%	5.69			7.53%	28.46%		-92.497	WNW 300°
2001 - 2005	94.79%	21.26%	5.63			5.21%	26.48%			NW 315°
2002 - 2006	98.54%	24.01%	5.42			1.46%	25.46%		Elev. (m)	NNW 330°
2003 - 2007	99.03%	24.06%	5.42			0.97%	25.03%		418.0	
2004 - 2008	98.95%	23.95%	5.44			1.05%	25.00%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	No	No	No	No	No		06341
2001	No	Yes	Yes	Yes	Yes	No	No		
2002	Yes	Yes	No	No	No	No	No		AERMINUTE?
2003	Yes	No	No	No	No	No	No		No
2004	Yes	Yes	No	No	No	Yes	No		
2005	Yes	No	No	No	No	No	No		
2006	Yes	Yes	No	No	No	Yes	No		
2007	Yes	Yes	No	No	No	Yes	No		
2008	Yes	Yes	No	No	No	No	No		
2009	No	No	No	No	No	No	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	No	No	No	No	No	No	Not Useable	
2001 - 2005	No	No	No	No	No	No	No	Not Useable	
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable	
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable	
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

26	72753	FAR	Fargo Int'l Arpt	727530	14914	Cass	ND	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	98.55%	5.76%	9.57	SSE	S	1.45%	7.21%	Average	In Use:	NNE 30°
2001	98.93%	4.79%	9.78	SSE	S	1.07%	5.86%	Average	2000 - 2004	NE 45°
2002	98.63%	4.26%	9.90	SSE	S	1.37%	5.63%	Average		ENE 60°
2003	98.60%	4.50%	9.87	SSE	NNW	1.40%	5.90%	Average	Most Recent	E 90°
2004	98.50%	4.54%	10.11	SSE	NNW	1.50%	6.04%	Average	Useable:	ESE 120°
2005	98.33%	5.60%	9.83	SSE	NNW	1.67%	7.27%	Average	Useable	SE 135°
2006	99.69%	0.56%	9.83	SSE	NNW	0.31%	0.87%	Average	2006 - 2010	SSE 150°
2007	99.77%	0.33%	9.82	SSE	NNW	0.23%	0.56%	Average	Yes	S 180°
2008	99.84%	0.59%	9.74	SSE	NNW	0.16%	0.75%	Average		SSW 210°
2009	99.82%	0.19%	9.46	SSE	NNW	0.18%	0.37%	Average	Lat. (N)	SW 225°
2010	99.75%	0.29%	9.30	SSE	NNW	0.25%	0.54%	Average	46.911	WSW 240°
2000 - 2010	98.22%	5.78%	9.60	SSE	NNW	1.78%	7.56%		Lon. (W)	W 270°
2000 - 2004	98.64%	4.77%	9.85			1.36%	6.13%		-96.815	WNW 300°
2001 - 2005	98.60%	4.74%	9.90			1.40%	6.14%			NW 315°
2002 - 2006	98.75%	3.89%	9.91			1.25%	5.14%		Elev. (m)	NNW 330°
2003 - 2007	98.98%	3.11%	9.89			1.02%	4.13%		272.0	
2004 - 2008	99.23%	2.32%	9.87			0.77%	3.10%			
2005 - 2009	99.49%	1.45%	9.74			0.51%	1.96%		Last Updated:	
2006 - 2010	99.77%	0.39%	9.63			0.23%	0.62%		06/23/2011	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	Yes		11059
2001	Yes	Yes	Yes	Yes	Yes	Yes		
2002	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes		Yes
2004	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes		
2009	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	Yes		
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Useable	

27	0	FBL	Faribault	726563	94969	Rice	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	94.16%	14.50%	7.11	S	SSW	5.84%	20.34%		In Use:	NNE	30°
2001	87.93%	4.74%	7.77	S	SSW	12.07%	16.81%		NA	NE	45°
2002	96.43%	12.73%	7.33	S	SSW	3.57%	16.30%			ENE	60°
2003	98.30%	16.11%	7.01	S	WNW	1.70%	17.81%		Most Recent	E	90°
2004	99.09%	14.38%	7.09	S	SSW	0.91%	15.29%		Useable:	ESE	120°
2005	75.45%	14.93%	6.90	S	SSW	24.55%	39.48%		Not Useable	SE	135°
2006	97.63%	16.91%	6.52	S	SSE	2.37%	19.28%		NA	SSE	150°
2007	97.73%	15.28%	6.85	S	SSE	2.27%	17.55%		Need 2010	S	180°
2008	98.05%	17.17%	6.59	SSE	S	1.95%	19.12%			SSW	210°
2009									Lat. (N)	SW	225°
2010									44.330	WSW	240°
2000 - 2010	93.87%	14.17%	7.02	S	SSW	6.13%	20.30%		Lon. (W)	W	270°
2000 - 2004	95.18%	12.49%	7.26			4.82%	17.31%		-93.312	WNW	300°
2001 - 2005	91.44%	12.58%	7.22			8.56%	21.14%			NW	315°
2002 - 2006	93.38%	15.01%	6.97			6.62%	21.63%		Elev. (m)	NNW	330°
2003 - 2007	93.64%	15.52%	6.87			6.36%	21.88%		318.0		
2004 - 2008	93.59%	15.73%	6.79			6.41%	22.14%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	No	Yes	No		06341		
2001	No	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	No	No	Yes	No		No		
2004	Yes	Yes	Yes	Yes	No	Yes	No				
2005	No	Yes	Yes	Yes	No	No	No				
2006	Yes	Yes	Yes	No	No	Yes	No				
2007	Yes	Yes	Yes	No	No	Yes	No				
2008	Yes	Yes	Yes	No	No	Yes	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	Yes	Yes	No	No	Yes	No	Not Useable			
2001 - 2005	No	Yes	Yes	No	No	No	No	Not Useable			
2002 - 2006	No	Yes	Yes	No	No	No	No	Not Useable			
2003 - 2007	No	Yes	Yes	No	No	No	No	Not Useable			
2004 - 2008	No	Yes	Yes	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

28	0	FCM	Flying Cloud Arprt	726579	94963	Hennepin	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	95.90%	6.15%	7.63	NW	SSW	4.10%	10.25%	Average	In Use:	NNE 30°
2001	91.31%	1.90%	7.90	SSW	WNW	8.69%	10.59%	Wet	2002 - 2006	NE 45°
2002	95.91%	6.03%	7.76	SSW	SW	4.09%	10.12%	Wet		ENE 60°
2003	95.61%	6.75%	7.60	NW	WNW	4.39%	11.14%	Average	Most Recent	E 90°
2004	96.61%	6.93%	7.70	NNW	SSW	3.39%	10.32%	Average	Useable:	ESE 120°
2005	97.01%	6.88%	7.31	SSW	SE	2.99%	9.87%	Wet	Useable:	SE 135°
2006	99.47%	2.01%	7.97	NNW	NW	0.53%	2.54%	Average	2006 - 2010	SSE 150°
2007	99.12%	0.82%	8.02	SSW	S	0.88%	1.70%	Average	Yes	S 180°
2008	99.54%	0.88%	7.50	WNW	NW	0.46%	1.34%	Average		SSW 210°
2009	99.84%	0.32%	7.38	NW	WNW	0.16%	0.48%	Average	Lat. (N)	SW 225°
2010	99.86%	0.41%	7.16	NNW	NW	0.14%	0.55%	Wet	44.827	WSW 240°
2000 - 2010	95.72%	7.24%	7.46	NW	SSW	4.28%	11.52%		Lon. (W)	W 270°
2000 - 2004	95.07%	5.55%	7.72			4.93%	10.48%		-93.464	WNW 300°
2001 - 2005	95.29%	5.70%	7.65			4.71%	10.41%			NW 315°
2002 - 2006	96.92%	5.72%	7.67			3.08%	8.80%		Elev. (m)	NNW 330°
2003 - 2007	97.56%	4.68%	7.72			2.44%	7.11%		276.0	
2004 - 2008	98.35%	3.50%	7.70			1.65%	5.15%			
2005 - 2009	99.00%	2.18%	7.64			1.00%	3.19%		Last Updated:	
2006 - 2010	99.57%	0.89%	7.61			0.43%	1.32%		05/26/2011	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	No		11059
2001	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	No		Yes
2004	Yes	Yes	Yes	Yes	Yes	No		
2005	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes		
2009	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	Yes		
2000 - 2004	Yes	Yes	Yes	Yes	Yes	No	Useable	
2001 - 2005	Yes	Yes	Yes	Yes	Yes	No	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Useable	



29	0	FFM	Fergus Falls	726560	94966	Otter Tail	MN	AWOS IIIIP			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	97.34%	9.20%	8.74	SE	NW	2.66%	11.86%	Average	In Use:	NNE	30°
2001	92.01%	3.71%	9.23	SE	NW	7.99%	11.70%	Wet	2003 - 2007	NE	45°
2002	96.86%	7.45%	8.98	SE	SSE	3.14%	10.59%	Average		ENE	60°
2003	98.44%	9.56%	8.80	SSE	NNW	1.56%	11.12%	Dry	Most Recent	E	90°
2004	98.91%	8.20%	9.03	SSE	NNW	1.09%	9.29%	Wet	Useable:	ESE	120°
2005	96.85%	9.43%	8.71	SSE	SE	3.15%	12.58%	Wet	Useable:	SE	135°
2006	96.31%	10.05%	8.41	SSE	NNW	3.69%	13.74%	Average	2006 - 2010	SSE	150°
2007	98.09%	10.22%	8.56	SSE	NNW	1.91%	12.13%	Average	Yes	S	180°
2008	97.51%	11.52%	8.45	SSE	NNW	2.49%	14.01%	Wet		SSW	210°
2009	97.89%	12.39%	7.79	SSE	NNW	2.11%	14.50%	Wet	Lat. (N)	SW	225°
2010	98.90%	12.21%	8.33	SE	SSE	1.10%	13.31%	Wet	46.286	WSW	240°
2000 - 2010	96.87%	9.29%	8.67	SSE	SE	3.13%	12.42%		Lon. (W)	W	270°
2000 - 2004	96.71%	7.62%	8.96			3.29%	10.91%		-96.153	WNW	300°
2001 - 2005	96.61%	7.67%	8.95			3.39%	11.06%			NW	315°
2002 - 2006	97.47%	8.94%	8.79			2.53%	11.46%		Elev. (m)	NNW	330°
2003 - 2007	97.72%	9.49%	8.70			2.28%	11.77%		361.0		
2004 - 2008	97.53%	9.88%	8.63			2.47%	12.35%				
2005 - 2009	97.33%	10.72%	8.38			2.67%	13.39%		Last Updated:		
2006 - 2010	97.74%	11.28%	8.31			2.26%	13.54%		05/25/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	Yes	Yes	Yes	Yes	Yes	Yes	No	
2001	Yes	Yes	Yes	Yes	Yes	Yes	No	
2002	Yes	Yes	Yes	Yes	Yes	Yes	No	
2003	Yes	Yes	Yes	Yes	Yes	Yes	No	
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2005	Yes	Yes	Yes	Yes	Yes	Yes	No	
2006	Yes	Yes	Yes	Yes	No	Yes	No	
2007	Yes	Yes	Yes	Yes	No	Yes	No	
2008	Yes	Yes	Yes	Yes	No	Yes	No	
2009	Yes	Yes	Yes	Yes	No	Yes	No	
2010	Yes	Yes	Yes	Yes	No	Yes	No	
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2006 - 2010	Yes	Yes	Yes	Yes	No	Yes	No	Useable

AERMET Ver.:  
11059

AERMINUTE?  
Yes

Useable  
Useable  
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30	0	FGN	Flag Island	727467	04926	Lake of the Woods	MN	AWOS IIIIP			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	38.33%	12.86%	8.49	SSE	NW	61.67%	74.53%	Wet	In Use:	NNE	30°
2001	87.33%	7.27%	9.08	SSE	NW	12.67%	19.94%	Wet	2003 - 2007	NE	45°
2002	92.96%	10.02%	8.49	SSE	NW	7.04%	17.06%	Wet		ENE	60°
2003	96.21%	12.24%	8.29	SSE	NW	3.79%	16.03%	Average	Most Recent	E	90°
2004	98.09%	12.01%	8.69	SSE	NW	1.91%	13.92%	Wet	Useable:	ESE	120°
2005	99.21%	13.01%	8.37	SSE	NW	0.79%	13.80%	Average	Useable	SE	135°
2006	98.28%	14.30%	7.67	SSE	NW	1.72%	16.02%	Dry	2005 - 2009	SSE	150°
2007	97.72%	13.36%	8.20	SSE	NW	2.28%	15.64%	Average	Need 2010	S	180°
2008	90.19%	12.09%	8.76	SSE	NW	9.81%	21.90%	Wet		SSW	210°
2009	96.70%	12.38%	8.00	SSE	NW	3.30%	15.68%	Average	Lat. (N)	SW	225°
2010								Wet	49.318	WSW	240°
2000 - 2010	89.49%	11.96%	8.39	SSE	NW	10.51%	22.47%		Lon. (W)	W	270°
2000 - 2004	82.58%	10.88%	8.61			17.42%	28.30%		-94.902	WNW	300°
2001 - 2005	94.76%	10.91%	8.58			5.24%	16.15%			NW	315°
2002 - 2006	96.95%	12.32%	8.30			3.05%	15.37%		Elev. (m)	NNW	330°
2003 - 2007	97.90%	12.98%	8.24			2.10%	15.08%		324.0		
2004 - 2008	96.70%	12.95%	8.34			3.30%	16.26%				
2005 - 2009	96.42%	13.03%	8.20			3.58%	16.61%		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	Yes	Yes	No	No	No		06341
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	No	Yes	No	AERMINUTE?	
2003	Yes	Yes	Yes	Yes	No	Yes	No	No	
2004	Yes	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	Yes	No	Yes	No		
2007	Yes	Yes	Yes	Yes	No	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	Yes	Yes	Yes	Yes	No	Yes	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	Yes	Yes	Yes	No	No	No	Not Useable	
2001 - 2005	No	Yes	Yes	Yes	No	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

31	Q	FKA	Preston	720283	04927	Fillmore	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available								In Use:	NNE	30°
2001	No Data Available								2005 - 2009	NE	45°
2002	No Data Available									ENE	60°
2003	No Data Available								Most Recent	E	90°
2004	59.79%	8.34%	7.46	S	SSW	40.21%	48.55%	Wet	Useable:	ESE	120°
2005	99.41%	8.52%	7.46	NW	S	0.59%	9.11%	Wet	Useable	SE	135°
2006	99.20%	5.62%	7.98	NW	S	0.80%	6.42%	Average	2005 - 2009	SSE	150°
2007	98.28%	7.28%	8.25	NW	SSW	1.72%	9.00%	Wet	Need 2010	S	180°
2008	96.23%	6.78%	8.04	NW	S	3.77%	10.55%	Average		SSW	210°
2009	98.90%	9.30%	7.63	NW	S	1.10%	10.40%	Average	Lat. (N)	SW	225°
2010								Wet	43.677	WSW	240°
2000 - 2010	91.96%	7.59%	7.83	NW	S	8.04%	15.63%		Lon. (W)	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-92.179	WNW	300°
2001 - 2005	NA	NA	NA			NA	NA			NW	315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW	330°
2003 - 2007	NA	NA	NA			NA	NA		389.0		
2004 - 2008	90.58%	7.31%	7.84			9.42%	16.73%				
2005 - 2009	98.40%	7.50%	7.87			1.60%	9.10%		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	No	No	No	No	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	No	No	No	No	No	No	No		No		
2004	No	Yes	Yes	Yes	Yes	No	No				
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2009	Yes	Yes	Yes	Yes	Yes	Yes	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	No	No	No	No	No	No	No	Not Useable			
2003 - 2007	No	No	No	No	No	No	No	Not Useable			
2004 - 2008	No	Yes	Yes	Yes	Yes	No	No	Not Useable			
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

32	0	FOZ	Bigfork	727468	04928	Itasca	MN	AWOS IIIP		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	87.22%	34.34%	4.30	SSE	S	12.78%	47.12%		In Use:	NNE 30°
2001	75.18%	13.29%	5.78	S	SSW	24.82%	38.11%		NA	NE 45°
2002	94.78%	23.98%	5.01	SSE	S	5.22%	29.20%			ENE 60°
2003	97.39%	28.71%	4.66	S	SSE	2.61%	31.32%		Most Recent	E 90°
2004	99.07%	29.28%	4.80	S	SSE	0.93%	30.21%		Useable:	ESE 120°
2005	99.49%	31.90%	4.48	SSE	S	0.51%	32.41%		Not Useable	SE 135°
2006	99.13%	27.69%	4.60	SSE	S	0.87%	28.56%		2004 - 2008	SSE 150°
2007	98.78%	26.74%	4.95	S	SSW	1.22%	27.96%		No	S 180°
2008	97.94%	29.18%	4.70	SSE	S	2.06%	31.24%			SSW 210°
2009									Lat. (N)	SW 225°
2010									47.783	WSW 240°
2000 - 2010	94.33%	27.54%	4.79	S	SSE	5.67%	33.21%		Lon. (W)	W 270°
2000 - 2004	90.73%	25.92%	4.91			9.27%	35.19%		-93.649	WNW 300°
2001 - 2005	93.18%	25.43%	4.95			6.82%	32.25%			NW 315°
2002 - 2006	97.97%	28.31%	4.71			2.03%	30.34%		Elev. (m)	NNW 330°
2003 - 2007	98.77%	28.86%	4.70			1.23%	30.09%		409.0	
2004 - 2008	98.88%	28.96%	4.71			1.12%	30.08%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	No	No	No	No	No	No	No		06341	
2001	No	Yes	Yes	Yes	No	No	No			
2002	Yes	Yes	No	No	No	No	No		AERMINUTE?	
2003	Yes	No	No	No	No	No	No		No	
2004	Yes	No	No	No	No	No	No			
2005	Yes	No	No	No	No	No	No			
2006	Yes	No	No	No	No	No	No			
2007	Yes	No	No	No	No	No	No			
2008	Yes	No	No	No	No	No	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	No	No	No	No	No	No	Not Useable		
2001 - 2005	No	No	No	No	No	No	No	Not Useable		
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable		
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable		
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

33	0	FRM	Fairmont	726586	94948	Martin	MN	AWOS III		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	98.14%	10.88%	9.53	NNW	S	1.86%	12.74%	Average	In Use:	NNE 30°
2001	91.97%	3.05%	10.82	NNW	S	8.03%	11.08%	Average	2004 - 2008	NE 45°
2002	95.11%	5.88%	10.55	NNW	S	4.89%	10.77%	Average		ENE 60°
2003	93.70%	6.10%	10.53	NNW	S	6.30%	12.40%	Dry	Most Recent	E 90°
2004	98.93%	7.10%	10.60	NNW	S	1.07%	8.17%	Wet	Useable:	ESE 120°
2005	99.22%	6.65%	10.25	NNW	S	0.78%	7.43%	Wet	Useable:	SE 135°
2006	92.58%	6.00%	10.27	NNW	S	7.42%	13.42%	Average	2006 - 2010	SSE 150°
2007	94.78%	5.87%	10.45	NNW	S	5.22%	11.09%	Average	Yes	S 180°
2008	97.62%	6.76%	10.40	NNW	S	2.38%	9.14%	Average		SSW 210°
2009	98.78%	6.28%	9.67	NNW	S	1.22%	7.50%	Average	Lat. (N)	SW 225°
2010	97.67%	6.60%	9.59	NW	NNW	2.33%	8.93%	Wet	43.645	WSW 240°
2000 - 2010	95.99%	6.57%	10.31	NNW	S	4.01%	10.58%		Lon. (W)	W 270°
2000 - 2004	95.57%	6.60%	10.41			4.43%	11.03%		-94.417	WNW 300°
2001 - 2005	95.79%	5.76%	10.55			4.21%	9.97%			NW 315°
2002 - 2006	95.91%	6.35%	10.44			4.09%	10.44%		Elev. (m)	NNW 330°
2003 - 2007	95.84%	6.34%	10.42			4.16%	10.50%		352.0	
2004 - 2008	96.63%	6.48%	10.39			3.37%	9.85%			
2005 - 2009	96.60%	6.31%	10.21			3.40%	9.72%		Last Updated:	
2006 - 2010	96.29%	6.30%	10.08			3.71%	10.02%		05/11/2011	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	Yes	Yes	Yes	Yes	No	Yes	No	
2001	Yes	Yes	Yes	Yes	Yes	Yes	No	
2002	Yes	Yes	Yes	Yes	Yes	Yes	No	
2003	Yes	Yes	Yes	Yes	Yes	Yes	No	
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2006	Yes	Yes	Yes	Yes	Yes	Yes	No	
2007	Yes	Yes	Yes	Yes	Yes	Yes	No	
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable

AERMET Ver.:  
11059

AERMINUTE?  
No

34	72651	FSD	Sioux Falls	726510	14944	Minnehaha	SD	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	97.45%	10.57%	8.85	S	NW	2.55%	13.12%	Average	In Use:	NNE	30°
2001	97.93%	10.60%	8.79	S	NW	2.07%	12.67%	Average	2000 - 2004	NE	45°
2002	98.14%	10.26%	9.13	S	WNW	1.86%	12.12%	Average		ENE	60°
2003	97.64%	10.42%	8.91	S	SSE	2.36%	12.78%	Average	Most Recent	E	90°
2004	97.80%	9.31%	8.90	S	SSE	2.20%	11.51%	Average	Useable:	ESE	120°
2005	97.59%	9.67%	8.95	SSE	S	2.41%	12.08%	Average	Useable	SE	135°
2006	99.70%	2.31%	9.08	NW	S	0.30%	2.61%	Average	2006 - 2010	SSE	150°
2007	99.65%	1.07%	9.03	S	NW	0.35%	1.42%	Average	Yes	S	180°
2008	99.80%	1.71%	8.94	S	NW	0.20%	1.91%	Average		SSW	210°
2009	99.85%	0.90%	8.56	NW	S	0.15%	1.05%	Average	Lat. (N)	SW	225°
2010	99.97%	0.79%	8.46	S	NW	0.03%	0.82%	Average	43.576	WSW	240°
2000 - 2010	97.52%	11.34%	8.70	S	NW	2.48%	13.82%		Lon. (W)	W	270°
2000 - 2004	97.79%	10.23%	8.92			2.21%	12.44%		-96.751	WNW	300°
2001 - 2005	97.82%	10.05%	8.94			2.18%	12.23%			NW	315°
2002 - 2006	98.17%	8.39%	8.99			1.83%	10.22%		Elev. (m)	NNW	330°
2003 - 2007	98.48%	6.56%	8.97			1.52%	8.08%		433.0		
2004 - 2008	98.91%	4.81%	8.98			1.09%	5.91%				
2005 - 2009	99.32%	3.13%	8.91			0.68%	3.81%		Last Updated:		
2006 - 2010	99.79%	1.36%	8.81			0.21%	1.56%		09/29/2011		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	No	Yes	No		11059		
2001	Yes	Yes	Yes	Yes	No	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	Yes	No	Yes	No		Yes		
2004	Yes	Yes	Yes	Yes	Yes	Yes	No				
2005	Yes	Yes	Yes	Yes	Yes	Yes	No				
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2000 - 2004	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable			
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable			
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable			

35	0	FSE	Fosston	727505	04929	Polk	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	87.08%	14.08%	7.33	S	SSE	12.92%	27.00%		In Use:	NNE 30°
2001	89.26%	4.45%	8.30	S	SSE	10.74%	15.19%		2004 - 2008	NE 45°
2002	96.22%	10.33%	7.86	S	SSE	3.78%	14.11%			ENE 60°
2003	97.83%	21.56%	7.05	S	SSE	2.17%	23.73%		Most Recent	E 90°
2004	99.11%	14.39%	7.78	S	NW	0.89%	15.28%		Useable:	ESE 120°
2005	99.39%	16.18%	7.32	S	SSE	0.61%	16.79%		Caution	SE 135°
2006	99.13%	13.23%	7.36	S	SSE	0.87%	14.10%		2004 - 2008	SSE 150°
2007	98.79%	13.01%	7.77	S	SSW	1.21%	14.22%		Need 2010	S 180°
2008	98.02%	16.49%	7.42	S	SSE	1.98%	18.47%			SSW 210°
2009									Lat. (N)	SW 225°
2010									47.594	WSW 240°
2000 - 2010	96.09%	13.85%	7.57	S	SSE	3.91%	17.76%		Lon. (W)	W 270°
2000 - 2004	93.90%	12.96%	7.66			6.10%	19.06%		-95.771	WNW 300°
2001 - 2005	96.36%	13.38%	7.66			3.64%	17.02%			NW 315°
2002 - 2006	98.34%	15.14%	7.47			1.66%	16.80%		Elev. (m)	NNW 330°
2003 - 2007	98.85%	15.67%	7.46			1.15%	16.82%		387.0	
2004 - 2008	98.89%	14.66%	7.53			1.11%	15.77%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	Yes	Yes	No	No	No		06341
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?
2003	Yes	Yes	No	No	No	Yes	No		No
2004	Yes	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	Yes	No	Yes	No		
2007	Yes	Yes	Yes	Yes	No	Yes	No		
2008	Yes	Yes	Yes	No	No	Yes	No		
2009	No	No	No	No	No	No	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	Yes	No	No	No	No	No	Not Useable	
2001 - 2005	No	Yes	No	No	No	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	No	No	No	Yes	No	Not Useable	
2003 - 2007	Yes	Yes	No	No	No	Yes	No	Not Useable	
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

36	0	GDB	Granite Falls	722033	04999	Yellow Medicine	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available								In Use:	NNE	30°
2001	No Data Available								2005 - 2009	NE	45°
2002	No Data Available									ENE	60°
2003	No Data Available								Most Recent	E	90°
2004	44.27%	8.00%	8.19	NW	SE	55.73%	63.73%	Average	Useable:	ESE	120°
2005	99.25%	8.58%	8.19	NW	SE	0.75%	9.33%	Wet	Useable	SE	135°
2006	99.12%	9.86%	7.89	NW	WNW	0.88%	10.74%	Average	2005 - 2009	SSE	150°
2007	96.30%	6.69%	8.75	NW	WNW	3.70%	10.39%	Average	Need 2010	S	180°
2008	98.77%	8.29%	8.67	NW	WNW	1.23%	9.52%	Average		SSW	210°
2009	99.38%	9.81%	8.10	WNW	NW	0.62%	10.43%	Average	Lat. (N)	SW	225°
2010								Wet	44.753	WSW	240°
2000 - 2010	89.50%	8.60%	8.31	NW	WNW	10.50%	19.10%		Lon. (W)	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-95.556	WNW	300°
2001 - 2005	NA	NA	NA			NA	NA			NW	315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW	330°
2003 - 2007	NA	NA	NA			NA	NA		316.0		
2004 - 2008	87.54%	8.28%	8.34			12.46%	20.74%				
2005 - 2009	98.56%	8.65%	8.32			1.44%	10.08%		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	No	No	No	No	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	No	No	No	No	No	No	No		No		
2004	No	Yes	Yes	Yes	Yes	No	No				
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2006	Yes	Yes	Yes	Yes	Yes	Yes	No				
2007	Yes	Yes	Yes	Yes	Yes	Yes	No				
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2009	Yes	Yes	Yes	Yes	Yes	Yes	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	No	No	No	No	No	No	No	Not Useable			
2003 - 2007	No	No	No	No	No	No	No	Not Useable			
2004 - 2008	No	Yes	Yes	Yes	Yes	No	No	Not Useable			
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			



37	0	GFK	Grand Forks Int'l Arpt	727576	14916	Grand Forks	ND	ASOS		
Processed (.SFC)	727570									
	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	98.32%	4.28%	9.07	S	NNW	1.68%	5.96%	Average	<u>In Use:</u>	NNE 30°
2001	98.80%	4.92%	9.08	S	NNW	1.20%	6.12%	Average	2000 - 2004	NE 45°
2002	98.14%	4.20%	9.21	S	N	1.86%	6.06%	Average		ENE 60°
2003	98.66%	5.26%	8.98	S	SSE	1.34%	6.60%	Average	<u>Most Recent</u>	E 90°
2004	99.18%	6.06%	9.15	S	NNW	0.82%	6.88%	Average	<u>Useable:</u>	ESE 120°
2005	99.25%	7.03%	8.84	S	N	0.75%	7.78%	Average	<u>Useable:</u>	SE 135°
2006	99.73%	0.55%	9.15	NNW	SSE	0.27%	0.82%	Average	2006 - 2010	SSE 150°
2007	99.66%	0.37%	9.60	S	NNW	0.34%	0.71%	Average	<u>Yes</u>	S 180°
2008	99.85%	0.27%	9.65	S	NNW	0.15%	0.42%	Average		SSW 210°
2009	99.85%	0.16%	9.13	NNW	S	0.15%	0.31%	Average	<u>Lat. (N)</u>	SW 225°
2010	99.97%	0.23%	8.99	S	NNW	0.03%	0.26%	Average	47.947	WSW 240°
2010 (First try)	63.01%	0.17%	8.64	S	NNW	36.99%	37.16%			W 270°
									<u>Lon. (W)</u>	WNW 300°
2000 - 2010	98.26%	5.66%	8.99	S	NNW	1.74%	7.40%		-97.184	NW 315°
2000 - 2004	98.62%	4.94%	9.10			1.38%	6.32%			NNW 330°
2001 - 2005	98.81%	5.49%	9.05			1.19%	6.69%		<u>Elev. (m)</u>	
2002 - 2006	98.99%	4.62%	9.07			1.01%	5.63%		255.0	
2003 - 2007	99.30%	3.85%	9.14			0.70%	4.56%			
2004 - 2008	99.53%	2.86%	9.28			0.47%	3.32%		<u>Last Updated:</u>	
2005 - 2009	99.67%	1.68%	9.27			0.33%	2.01%		09/29/2011	
2006 - 2010	99.81%	0.32%	9.30			0.19%	0.50%			
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	<u>AERMET Ver.:</u>	
2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes		11059	
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes		<u>AERMINUTE?</u>	
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable		
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable		
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable		
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable		
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable		
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable		
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable		

38	0	GHW	Glenwood	726547	04931	Pope	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	93.10%	5.75%	8.86	WNW	NW	6.90%	12.65%	Average	In Use:	NNE	30°
2001	93.48%	2.49%	9.13	WNW	NW	6.52%	9.01%	Average	2000 - 2004	NE	45°
2002	97.45%	5.70%	9.14	W	WNW	2.55%	8.25%	Average		ENE	60°
2003	98.21%	5.01%	8.92	NW	WNW	1.79%	6.80%	Average	Most Recent	E	90°
2004	99.09%	5.61%	9.07	NW	WNW	0.91%	6.52%	Average	Useable:	ESE	120°
2005	99.54%	10.28%	8.60	WNW	NW	0.46%	10.74%	Wet	Useable	SE	135°
2006	99.12%	6.70%	8.88	WNW	NW	0.88%	7.58%	Dry	2005 - 2009	SSE	150°
2007	98.36%	5.21%	9.50	WNW	NW	1.64%	6.85%	Average	Need 2010	S	180°
2008	97.94%	6.37%	9.07	WNW	NW	2.06%	8.43%	Average		SSW	210°
2009	99.36%	7.12%	8.58	WNW	NW	0.64%	7.76%	Average	Lat. (N)	SW	225°
2010								Wet	45.646	WSW	240°
2000 - 2010	97.56%	6.05%	8.97	WNW	NW	2.44%	8.49%		Lon. (W)	W	270°
2000 - 2004	96.27%	4.91%	9.02			3.73%	8.65%		-95.319	WNW	300°
2001 - 2005	97.55%	5.82%	8.97			2.45%	8.26%			NW	315°
2002 - 2006	98.68%	6.66%	8.92			1.32%	7.98%		Elev. (m)	NNW	330°
2003 - 2007	98.86%	6.56%	8.99			1.14%	7.70%		422.0		
2004 - 2008	98.81%	6.83%	9.02			1.19%	8.02%				
2005 - 2009	98.86%	7.14%	8.93			1.14%	8.27%		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	Yes	Yes	No		06341		
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?		
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		No		
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2005	Yes	Yes	Yes	Yes	No	Yes	No				
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2010	No	No	No	No	No	No	No				
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable			
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

39	0	GNA	Grand Marais	727469	94992	Cook	MN	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	81.11%	21.09%	6.08	ENE	WSW	18.89%	39.98%	Wet	In Use:	NNE	30°
2001	65.67%	7.20%	6.93	ENE	WSW	34.33%	41.53%	Wet	NA	NE	45°
2002	61.34%	23.92%	5.66	ENE	WSW	38.66%	62.58%	Dry		ENE	60°
2003	80.42%	22.70%	6.01	ENE	NNW	19.58%	42.28%	Dry	Most Recent	E	90°
2004	76.82%	23.74%	5.96	ENE	WSW	23.18%	46.92%	Average	Useable:	ESE	120°
2005	81.34%	32.65%	5.31	ENE	WSW	18.66%	51.31%	Average	Not Useable	SE	135°
2006	82.02%	23.47%	5.71	ENE	WSW	17.98%	41.45%	Dry	NA	SSE	150°
2007	85.14%	20.50%	6.33	ENE	WSW	14.86%	35.36%	Wet	No	S	180°
2008	87.44%	23.91%	5.44	ENE	WSW	12.56%	36.47%	Wet		SSW	210°
2009	88.29%	25.09%	5.49	ENE	WSW	11.71%	36.80%	Average	Lat. (N)	SW	225°
2010	89.55%	25.79%	5.55	ENE	WSW	10.45%	36.24%	Average	47.747	WSW	240°
2000 - 2010	77.93%	23.87%	5.78	ENE	WSW	22.07%	45.94%		Lon. (W)	W	270°
2000 - 2004	73.07%	19.73%	6.13			26.93%	46.66%		-90.343	WNW	300°
2001 - 2005	73.12%	22.04%	5.97			26.88%	48.92%			NW	315°
2002 - 2006	76.39%	25.30%	5.73			23.61%	48.91%		Elev. (m)	NNW	330°
2003 - 2007	81.15%	24.61%	5.86			18.85%	43.46%		185.0		
2004 - 2008	82.55%	24.85%	5.75			17.45%	42.30%				
2005 - 2009	84.85%	25.12%	5.66			15.15%	40.28%		Last Updated:		
2006 - 2010	86.49%	23.75%	5.70			13.51%	37.26%		05/12/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	No	No	No	No	No		11059
2001	No	Yes	Yes	Yes	Yes	No	No		
2002	No	Yes	No	No	No	No	No		AERMINUTE?
2003	No	Yes	No	No	No	No	No		Yes*
2004	No	Yes	No	No	No	No	No		
2005	No	No	No	No	No	No	No		*1-min files un-useable
2006	No	Yes	No	No	No	No	No		
2007	No	Yes	No	No	No	No	No		
2008	No	Yes	No	No	No	No	No		
2009	No	No	No	No	No	No	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	Yes	No	No	No	No	No	Not Useable	
2001 - 2005	No	No	No	No	No	No	No	Not Useable	
2002 - 2006	No	No	No	No	No	No	No	Not Useable	
2003 - 2007	No	No	No	No	No	No	No	Not Useable	
2004 - 2008	No	No	No	No	No	No	No	Not Useable	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

39	0	GNA	Grand Marais	727469	94992	Cook	MN	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	81.11%	21.09%	6.08	ENE	WSW	18.89%	39.98%	Wet	In Use:	NNE	30°
2001	65.67%	7.20%	6.93	ENE	WSW	34.33%	41.53%	Wet	NA	NE	45°
2002	61.34%	23.92%	5.66	ENE	WSW	38.66%	62.58%	Dry		ENE	60°
2003	80.42%	22.70%	6.01	ENE	NNW	19.58%	42.28%	Dry	Most Recent	E	90°
2004	76.82%	23.74%	5.96	ENE	WSW	23.18%	46.92%	Average	Useable:	ESE	120°
2005	81.34%	32.65%	5.31	ENE	WSW	18.66%	51.31%	Average	Useable	SE	135°
2006	97.37%	12.37%	5.83	ENE	WSW	2.63%	15.00%	Dry	2006 - 2010	SSE	150°
2007	97.96%	3.71%	6.47	ENE	WSW	2.04%	5.75%	Wet	No	S	180°
2008	98.51%	2.25%	5.79	WSW	ENE	1.49%	3.74%	Wet		SSW	210°
2009	99.63%	0.91%	5.92	ENE	NNW	0.37%	1.28%	Average	Lat. (N)	SW	225°
2010	99.16%	1.71%	5.90	ENE	WSW	0.84%	2.55%	Average	47.747	WSW	240°
2000 - 2010	77.93%	23.87%	5.78	ENE	WSW	22.07%	45.94%		Lon. (W)	W	270°
2000 - 2004	73.07%	19.73%	6.13			26.93%	46.66%		-90.343	WNW	300°
2001 - 2005	73.12%	22.04%	5.97			26.88%	48.92%			NW	315°
2002 - 2006	79.46%	23.08%	5.75			20.54%	43.62%		Elev. (m)	NNW	330°
2003 - 2007	86.78%	19.03%	5.92			13.22%	32.25%		185.0		
2004 - 2008	90.40%	14.94%	5.87			9.60%	24.54%				
2005 - 2009	94.96%	10.38%	5.86			5.04%	15.42%		Last Updated:		
2006 - 2010	98.53%	4.19%	5.98			1.47%	5.66%		11/03/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	No	Yes	No	No	No	No	No	
2001	No	Yes	Yes	Yes	Yes	No	No	
2002	No	Yes	No	No	No	No	No	
2003	No	Yes	No	No	No	No	No	
2004	No	Yes	No	No	No	No	No	
2005	No	No	No	No	No	No	No	
2006	Yes	Yes	Yes	Yes	No	Yes	No	
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	No	Yes	No	No	No	No	No	Not Useable
2001 - 2005	No	No	No	No	No	No	No	Not Useable
2002 - 2006	No	No	No	No	No	No	No	Not Useable
2003 - 2007	No	No	No	No	No	No	No	Not Useable
2004 - 2008	No	No	No	No	No	No	No	Not Useable
2005 - 2009	No	No	No	No	No	No	No	Not Useable
2006 - 2010	Yes	Yes	Yes	Yes	No	Yes	No	Useable

AERMET Ver.:  
11059

AERMINUTE?  
Yes

\*Station is useable w/ winds,  
but missing cloud cover causes  
AERMOD not to run.

Not Useable  
Not Useable  
Not Useable  
Not Useable  
Not Useable  
Not Useable  
Useable

40	0	GPZ	Grand Rapids	727458	94919	Itasca	MN	AWOS III			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	94.71%	14.27%	6.53	SSE	NW	5.29%	19.56%	Wet	In Use:	NNE	30°
2001	82.41%	4.35%	7.51	NW	SSE	17.59%	21.94%	Average	2003 - 2007	NE	45°
2002	96.54%	11.23%	7.13	NW	SSE	3.46%	14.69%	Average		ENE	60°
2003	98.76%	13.79%	6.98	SSE	NW	1.24%	15.03%	Dry	Most Recent	E	90°
2004	95.33%	12.68%	7.21	NW	SSE	4.67%	17.35%	Average	Useable:	ESE	120°
2005	99.35%	14.79%	6.67	SSE	SE	0.65%	15.44%	Average	Useable	SE	135°
2006	97.82%	12.75%	6.77	NW	SSE	2.18%	14.93%	Average	2003 - 2007	SSE	150°
2007	96.05%	12.43%	7.17	NW	SSE	3.95%	16.38%	Average	No	S	180°
2008	98.17%	16.03%	6.73	NW	SSE	1.83%	17.86%	Average		SSW	210°
2009	99.32%	16.44%	6.57	NW	WNW	0.68%	17.12%	Average	Lat. (N)	SW	225°
2010	98.29%	19.63%	6.12	NW	SE	1.71%	21.34%	Wet	47.203	WSW	240°
2000 - 2010	95.80%	13.14%	6.92	NW	SSE	4.20%	17.34%		Lon. (W)	W	270°
2000 - 2004	93.55%	11.26%	7.07			6.45%	17.71%		-93.507	WNW	300°
2001 - 2005	94.48%	11.37%	7.10			5.52%	16.89%			NW	315°
2002 - 2006	97.56%	13.05%	6.95			2.44%	15.49%		Elev. (m)	NNW	330°
2003 - 2007	97.46%	13.29%	6.96			2.54%	15.83%		411.0		
2004 - 2008	97.34%	13.74%	6.91			2.66%	16.39%				
2005 - 2009	98.14%	14.49%	6.78			1.86%	16.35%		Last Updated:		
2006 - 2010	97.93%	15.46%	6.67			2.07%	17.53%		09/07/2011		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	No	Yes	No		11059		
2001	No	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	Yes	No	Yes	No		No		
2004	Yes	Yes	Yes	Yes	No	Yes	No				
2005	Yes	Yes	Yes	Yes	No	Yes	No				
2006	Yes	Yes	Yes	Yes	No	Yes	No				
2007	Yes	Yes	Yes	Yes	No	Yes	No				
2008	Yes	Yes	Yes	No	No	Yes	No				
2009	Yes	Yes	Yes	No	No	Yes	No				
2010	Yes	Yes	Yes	No	No	Yes	No				
2000 - 2004	No	Yes	Yes	Yes	No	Yes	No	Not Useable			
2001 - 2005	No	Yes	Yes	Yes	No	Yes	No	Not Useable			
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution			
2005 - 2009	Yes	Yes	Yes	No	No	Yes	No	Caution			
2006 - 2010	Yes	Yes	Yes	No	No	Yes	No	Caution			

41	0	GYL	Glencoe	727517	04932	McLeod	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	No Data Available								In Use:	NNE 30°
2001	28.34%	0.00%	7.96	WNW	NW	71.66%	71.66%		2004 - 2008	NE 45°
2002	87.15%	12.97%	6.98	NW	WNW	12.85%	25.82%			ENE 60°
2003	90.33%	20.80%	6.39	NW	WNW	9.67%	30.47%		Most Recent	E 90°
2004	98.32%	15.49%	6.48	WNW	NW	1.68%	17.17%		Useable:	ESE 120°
2005	99.60%	16.99%	6.05	WNW	S	0.40%	17.39%		Caution	SE 135°
2006	99.05%	16.57%	6.17	WNW	NW	0.95%	17.52%		2004 - 2008	SSE 150°
2007	98.85%	16.23%	6.51	S	WNW	1.15%	17.38%		Need 2010	S 180°
2008	97.95%	17.68%	6.26	WNW	NW	2.05%	19.73%			SSW 210°
2009									Lat. (N)	SW 225°
2010									44.761	WSW 240°
2000 - 2010	87.46%	16.01%	6.46	WNW	NW	12.54%	28.55%		Lon. (W)	W 270°
2000 - 2004	NA	NA	NA			NA	NA		-94.087	WNW 300°
2001 - 2005	80.75%	13.25%	6.77			19.25%	32.50%			NW 315°
2002 - 2006	94.89%	16.56%	6.41			5.11%	21.67%		Elev. (m)	NNW 330°
2003 - 2007	97.23%	17.22%	6.32			2.77%	19.99%		301.0	
2004 - 2008	98.75%	16.59%	6.29			1.25%	17.84%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	No	No	No	No	No	No	No		06341	
2001	No	Yes	Yes	Yes	Yes	No	No			
2002	No	Yes	Yes	Yes	No	No	No		AERMINUTE?	
2003	Yes	Yes	No	No	No	No	No		No	
2004	Yes	Yes	Yes	No	No	Yes	No			
2005	Yes	Yes	Yes	No	No	Yes	No			
2006	Yes	Yes	Yes	No	No	Yes	No			
2007	Yes	Yes	Yes	No	No	Yes	No			
2008	Yes	Yes	Yes	No	No	Yes	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	No	No	No	No	No	No	Not Useable		
2001 - 2005	No	Yes	No	No	No	No	No	Not Useable		
2002 - 2006	No	Yes	No	No	No	No	No	Not Useable		
2003 - 2007	Yes	Yes	No	No	No	No	No	Not Useable		
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

42	0	HCD	Hutchinson	726569	04933	McLeod	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	92.46%	13.44%	7.18	WNW	NW	7.54%	20.98%		In Use:	NNE	30°
2001	85.38%	4.91%	7.80	WNW	NW	14.62%	19.53%		2002 - 2006	NE	45°
2002	95.18%	12.68%	7.31	WNW	NW	4.82%	17.50%		Most Recent	ENE	60°
2003	94.22%	14.48%	7.09	NW	WNW	5.78%	20.26%		Useable:	E	90°
2004	98.75%	14.07%	7.18	NW	NNW	1.25%	15.32%		Caution	ESE	120°
2005	98.40%	14.85%	6.83	SE	WNW	1.60%	16.45%		2004 - 2008	SE	135°
2006	99.10%	15.42%	6.90	WNW	NW	0.90%	16.32%		Need 2010	SSE	150°
2007	98.73%	12.59%	7.44	WNW	SE	1.27%	13.86%		Lat. (N)	S	180°
2008	95.13%	14.50%	7.21	WNW	SE	4.87%	19.37%		44.857	SSW	210°
2009										SW	225°
2010										WSW	240°
2000 - 2010	95.26%	13.10%	7.21	WNW	NW	4.74%	17.84%		Lon. (W)	W	270°
2000 - 2004	93.20%	11.92%	7.31			6.80%	18.72%		-94.383	WNW	300°
2001 - 2005	94.39%	12.20%	7.24			5.61%	17.81%			NW	315°
2002 - 2006	97.13%	14.30%	7.06			2.87%	17.17%		Elev. (m)	NNW	330°
2003 - 2007	97.84%	14.28%	7.09			2.16%	16.44%		319.0		
2004 - 2008	98.02%	14.29%	7.11			1.98%	16.26%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	No	Yes	No		06341		
2001	No	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	Yes	No	Yes	No		No		
2004	Yes	Yes	Yes	Yes	No	Yes	No				
2005	Yes	Yes	Yes	Yes	No	Yes	No				
2006	Yes	Yes	Yes	No	No	Yes	No				
2007	Yes	Yes	Yes	Yes	No	Yes	No				
2008	Yes	Yes	Yes	Yes	No	Yes	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	Yes	Yes	Yes	No	Yes	No	Not Useable			
2001 - 2005	No	Yes	Yes	Yes	No	Yes	No	Not Useable			
2002 - 2006	Yes	Yes	Yes	No	No	Yes	No	Caution			
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution			
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

43	0	HCO	Hallock	727478	04934	Kittson	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	87.73%	8.38%	8.99	SSE	NW	12.27%	20.65%	Wet	In Use:	NNE	30°
2001	88.08%	3.21%	9.71	SSE	NW	11.92%	15.13%	Wet	2003 - 2007	NE	45°
2002	96.74%	6.97%	9.29	SSE	NW	3.26%	10.23%	Average	Most Recent	ENE	60°
2003	97.85%	7.10%	9.17	SSE	NNW	2.15%	9.25%	Average	Useable:	E	90°
2004	99.06%	8.32%	9.38	NNW	SSE	0.94%	9.26%	Wet	Useable:	ESE	120°
2005	99.05%	8.30%	9.40	SSE	NNW	0.95%	9.25%	Wet	Useable:	SE	135°
2006	98.15%	8.73%	8.93	SSE	NNW	1.85%	10.58%	Average	2006 - 2010	SSE	150°
2007	95.32%	7.98%	9.42	SSE	NNW	4.68%	12.66%	Wet	Yes	S	180°
2008	91.85%	8.69%	9.12	SSE	NNW	8.15%	16.84%	Wet		SSW	210°
2009	99.49%	10.75%	8.55	NNW	SSE	0.51%	11.26%	Average	Lat. (N)	SW	225°
2010	98.22%	11.30%	8.44	S	NNW	1.78%	13.08%	Wet	48.756	WSW	240°
2000 - 2010	95.29%	8.02%	9.19	SSE	NNW	4.71%	12.73%		Lon. (W)	W	270°
2000 - 2004	93.89%	6.80%	9.31			6.11%	12.90%		-96.943	WNW	300°
2001 - 2005	96.16%	6.78%	9.39			3.84%	10.62%			NW	315°
2002 - 2006	98.17%	7.88%	9.23			1.83%	9.71%		Elev. (m)	NNW	330°
2003 - 2007	97.89%	8.09%	9.26			2.11%	10.20%		249.0		
2004 - 2008	96.69%	8.40%	9.25			3.31%	11.72%				
2005 - 2009	96.77%	8.89%	9.08			3.23%	12.12%		Last Updated:		
2006 - 2010	96.61%	9.49%	8.89			3.39%	12.88%		11/08/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	Yes	Yes	Yes	Yes	No		11059
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		No
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes	No		
2007	Yes	Yes	Yes	Yes	Yes	Yes	No		
2008	Yes	Yes	Yes	Yes	Yes	Yes	No		
2009	Yes	Yes	Yes	Yes	No	Yes	No		
2010	Yes	Yes	Yes	Yes	No	Yes	No		
2000 - 2004	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2001 - 2005	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	No	Yes	No	Useable	



44	Q	HIB	Hibbing	727455	94931	Saint Louis	MN	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	92.87%	19.34%	6.88	NNW	N	7.13%	26.47%	Average	In Use:	NNE	30°
2001	93.58%	21.14%	6.50	NW	NNW	6.42%	27.56%	Average	2000 - 2004	NE	45°
2002	94.50%	19.44%	6.74	NW	NNW	5.50%	24.94%	Average		ENE	60°
2003	94.46%	19.87%	6.82	NW	NNW	5.54%	25.41%	Average	Most Recent	E	90°
2004	94.82%	18.89%	6.97	NW	SE	5.18%	24.07%	Average	Useable:	ESE	120°
2005	98.01%	7.00%	6.49	NW	SE	1.99%	8.99%	Average	Useable:	SE	135°
2006	99.39%	3.52%	6.48	NNW	NW	0.61%	4.13%	Average	2006 - 2010	SSE	150°
2007	97.03%	2.36%	6.76	NNW	NW	2.97%	5.33%	Wet	Yes	S	180°
2008	99.67%	3.20%	6.54	NNW	NW	0.33%	3.53%	Average		SSW	210°
2009	99.84%	2.72%	6.26	NW	NNW	0.16%	2.88%	Average	Lat. (N)	SW	225°
2010	99.65%	2.97%	6.11	NNW	NW	0.35%	3.32%	Wet	47.380	WSW	240°
2000 - 2010	93.77%	22.18%	6.21	NW	NNW	6.23%	28.41%		Lon. (W)	W	270°
2000 - 2004	94.05%	19.74%	6.78			5.95%	25.69%		-92.832	WNW	300°
2001 - 2005	95.07%	17.27%	6.70			4.93%	22.19%			NW	315°
2002 - 2006	96.24%	13.74%	6.70			3.76%	17.51%		Elev. (m)	NNW	330°
2003 - 2007	96.74%	10.33%	6.70			3.26%	13.59%		408.0		
2004 - 2008	97.78%	6.99%	6.65			2.22%	9.21%				
2005 - 2009	98.79%	3.76%	6.51			1.21%	4.97%		Last Updated:		
2006 - 2010	99.12%	2.95%	6.43			0.88%	3.84%		05/25/2011		

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	No	No	No	No	11059
2001	Yes	Yes	No	No	No	No	No	
2002	Yes	Yes	Yes	No	No	Yes	No	AERMINUTE?
2003	Yes	Yes	Yes	No	No	No	No	Yes
2004	Yes	Yes	Yes	No	No	Yes	No	
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	Yes	Yes	No	No	No	No	No	Not Useable
2001 - 2005	Yes	Yes	No	No	No	No	No	Not Useable
2002 - 2006	Yes	Yes	Yes	No	No	No	No	Not Useable
2003 - 2007	Yes	Yes	Yes	No	No	No	No	Not Useable
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable

45	0	HZX	McGregor	720258	04997	Aitkin	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	No Data Available								In Use:	NNE 30°
2001	No Data Available								NA	NE 45°
2002	No Data Available									ENE 60°
2003	No Data Available								Most Recent	E 90°
2004	59.54%	20.23%	5.68	NW	S	40.46%	60.69%		Useable:	ESE 120°
2005	99.43%	21.45%	5.48	NW	E	0.57%	22.02%		Not Useable	SE 135°
2006	98.88%	18.66%	5.71	NW	E	1.12%	19.78%		NA	SSE 150°
2007	98.47%	18.22%	6.03	NW	S	1.53%	19.75%		Need 2010	S 180°
2008	98.49%	20.04%	5.74	NW	WNW	1.51%	21.55%			SSW 210°
2009									Lat. (N)	SW 225°
2010									46.617	WSW 240°
2000 - 2010	90.95%	19.68%	5.73	NW	WNW	9.05%	28.73%		Lon. (W)	W 270°
2000 - 2004	NA	NA	NA			NA	NA		-93.311	WNW 300°
2001 - 2005	NA	NA	NA			NA	NA			NW 315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW 330°
2003 - 2007	NA	NA	NA			NA	NA		373.0	
2004 - 2008	90.96%	19.72%	5.73			9.04%	28.76%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	No	No	No	No	No	No	No	
2001	No	No	No	No	No	No	No	
2002	No	No	No	No	No	No	No	
2003	No	No	No	No	No	No	No	
2004	No	Yes	No	No	No	No	No	
2005	Yes	Yes	No	No	No	Yes	No	
2006	Yes	Yes	Yes	No	No	Yes	No	
2007	Yes	Yes	Yes	No	No	Yes	No	
2008	Yes	Yes	No	No	No	Yes	No	
2009	No	No	No	No	No	No	No	
2010	No	No	No	No	No	No	No	
2000 - 2004	No	No	No	No	No	No	No	Not Useable
2001 - 2005	No	No	No	No	No	No	No	Not Useable
2002 - 2006	No	No	No	No	No	No	No	Not Useable
2003 - 2007	No	No	No	No	No	No	No	Not Useable
2004 - 2008	No	Yes	No	No	No	No	No	Not Useable
2005 - 2009	No	No	No	No	No	No	No	Not Useable
2006 - 2010	No	No	No	No	No	No	No	Not Useable

AERMET Ver.:  
06341

AERMINUTE?  
No

46	0	ILL	Willmar	726576	0	Kandivohi	MN	0			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available								In Use:	NNE	30°
2001									NA	NE	45°
2002										ENE	60°
2003										E	90°
2004										ESE	120°
2005										SE	135°
2006										SSE	150°
2007										S	180°
2008										SSW	210°
2009										SW	225°
2010										WSW	240°
2000 - 2010									W	270°	
2000 - 2004	NA	NA	NA			NA	NA		WNW	300°	
2001 - 2005	NA	NA	NA			NA	NA		NW	315°	
2002 - 2006	NA	NA	NA			NA	NA		NNW	330°	
2003 - 2007	NA	NA	NA			NA	NA				
2004 - 2008	NA	NA	NA			NA	NA				
2005 - 2009	NA	NA	NA			NA	NA				
2006 - 2010	NA	NA	NA			NA	NA				
									Lat. (N)		
									0.000		
									Lon. (W)		
									0.000		
									Elev. (m)		
									0.0		
									Last Updated:		
									06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	No	No	No	No	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	No	No	No	No	No	No	No		No		
2004	No	No	No	No	No	No	No				
2005	No	No	No	No	No	No	No				
2006	No	No	No	No	No	No	No				
2007	No	No	No	No	No	No	No				
2008	No	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No			Not Useable	
2001 - 2005	No	No	No	No	No	No	No			Not Useable	
2002 - 2006	No	No	No	No	No	No	No			Not Useable	
2003 - 2007	No	No	No	No	No	No	No			Not Useable	
2004 - 2008	No	No	No	No	No	No	No			Not Useable	
2005 - 2009	No	No	No	No	No	No	No			Not Useable	
2006 - 2010	No	No	No	No	No	No	No			Not Useable	

47	72747	INL	International Falls	727470	14918	Koochiching	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	97.09%	11.89%	6.70	S	W	2.91%	14.80%	Average	In Use:	NNE 30°
2001	97.37%	12.53%	6.83	WNW	W	2.63%	15.16%	Wet	2002 - 2006	NE 45°
2002	97.45%	10.94%	6.97	WNW	W	2.55%	13.49%	Average		ENE 60°
2003	97.01%	11.79%	6.84	WNW	SSE	2.99%	14.78%	Dry	Most Recent	E 90°
2004	97.32%	10.60%	7.22	WNW	S	2.68%	13.28%	Wet	Useable:	ESE 120°
2005	97.42%	11.58%	6.99	W	WNW	2.58%	14.16%	Wet	Useable:	SE 135°
2006	98.58%	4.03%	7.36	WNW	W	1.42%	5.45%	Dry	2006 - 2010	SSE 150°
2007	99.78%	1.47%	7.41	WNW	W	0.22%	1.69%	Wet	Yes	S 180°
2008	99.42%	2.16%	6.83	WNW	W	0.58%	2.74%	Average		SSW 210°
2009	99.78%	2.13%	6.37	W	WNW	0.22%	2.35%	Average	Lat. (N)	SW 225°
2010	99.85%	2.49%	6.29	W	WNW	0.15%	2.64%	Wet	48.562	WSW 240°
2000 - 2010	96.61%	13.16%	6.72	WNW	W	3.39%	16.55%		Lon. (W)	W 270°
2000 - 2004	97.25%	11.55%	6.91			2.75%	14.30%		-93.398	WNW 300°
2001 - 2005	97.31%	11.49%	6.97			2.69%	14.17%			NW 315°
2002 - 2006	97.56%	9.79%	7.08			2.44%	12.23%		Elev. (m)	NNW 330°
2003 - 2007	98.02%	7.89%	7.16			1.98%	9.87%		353.0	
2004 - 2008	98.50%	5.97%	7.16			1.50%	7.46%			
2005 - 2009	99.00%	4.27%	6.99			1.00%	5.28%		Last Updated:	
2006 - 2010	99.48%	2.46%	6.85			0.52%	2.97%		05/17/2011	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	No	Yes	No	11059
2001	Yes	Yes	Yes	Yes	No	Yes	No	
2002	Yes	Yes	Yes	Yes	No	Yes	No	AERMINUTE?
2003	Yes	Yes	Yes	Yes	No	Yes	No	Yes
2004	Yes	Yes	Yes	Yes	No	Yes	No	
2005	Yes	Yes	Yes	Yes	No	Yes	No	
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable

48	0	JKJ	Moorhead	722129	04939	Clay	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available							Wet	In Use:	NNE	30°
2001	No Data Available							Average	NA	NE	45°
2002	No Data Available							Average		ENE	60°
2003	No Data Available							Average	Most Recent	E	90°
2004	59.34%	27.44%	7.03	S	SSE	40.66%	68.10%	Wet	Useable:	ESE	120°
2005	98.69%	16.55%	8.11	SSE	S	1.31%	17.86%	Wet	Useable	SE	135°
2006	99.11%	10.33%	8.29	SSE	S	0.89%	11.22%	Dry	2006 - 2010	SSE	150°
2007	98.84%	8.85%	8.62	S	SSE	1.16%	10.01%	Wet	Yes	S	180°
2008	98.52%	12.10%	8.37	S	SSE	1.48%	13.58%	Wet		SSW	210°
2009	99.43%	10.67%	8.16	SSE	N	0.57%	11.24%	Wet	Lat. (N)	SW	225°
2010	99.20%	13.81%	7.91	SSE	S	0.80%	14.61%	Wet	46.839	WSW	240°
2000 - 2010	92.17%	13.48%	8.17	S	SSE	7.83%	21.31%		Lon. (W)	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-96.656	WNW	300°
2001 - 2005	NA	NA	NA			NA	NA			NW	315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW	330°
2003 - 2007	NA	NA	NA			NA	NA		279.0		
2004 - 2008	90.90%	15.05%	8.08			9.10%	24.15%				
2005 - 2009	98.92%	11.70%	8.31			1.08%	12.78%		Last Updated:		
2006 - 2010	99.02%	11.15%	8.27			0.98%	12.13%		06/30/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	No	No	No	No	No	No		11059
2001	No	No	No	No	No	No	No		
2002	No	No	No	No	No	No	No		AERMINUTE?
2003	No	No	No	No	No	No	No		No
2004	No	No	No	No	No	No	No		
2005	Yes	Yes	Yes	No	No	Yes	No		
2006	Yes	Yes	Yes	Yes	No	Yes	No		
2007	Yes	Yes	Yes	Yes	Yes	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	Yes	Yes	Yes	Yes	No	Yes	No		
2010	Yes	Yes	Yes	Yes	No	Yes	No		
2000 - 2004	No	No	No	No	No	No	No	Not Useable	
2001 - 2005	No	No	No	No	No	No	No	Not Useable	
2002 - 2006	No	No	No	No	No	No	No	Not Useable	
2003 - 2007	No	No	No	No	No	No	No	Not Useable	
2004 - 2008	No	No	No	No	No	No	No	Not Useable	
2005 - 2009	Yes	Yes	Yes	No	No	Yes	No	Caution	
2006 - 2010	Yes	Yes	Yes	Yes	No	Yes	No	Useable	

49	0	JMR	Mora	727475	04940	Kanabec	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	87.03%	28.59%	4.75	NNW	NW	12.97%	41.56%		In Use:	NNE 30°
2001	73.77%	11.50%	5.82	NW	WNW	26.23%	37.73%		NA	NE 45°
2002	95.51%	29.26%	4.71	NW	W	4.49%	33.75%			ENE 60°
2003	98.15%	32.05%	4.52	NW	WNW	1.85%	33.90%		Most Recent	E 90°
2004	99.09%	31.40%	4.68	NW	NNW	0.91%	32.31%		Useable:	ESE 120°
2005	99.59%	29.80%	4.57	NW	SSE	0.41%	30.21%		Not Useable	SE 135°
2006	99.21%	25.67%	4.94	NW	WNW	0.79%	26.46%		2004 - 2008	SSE 150°
2007	98.03%	24.36%	5.31	NW	SSE	1.97%	26.33%		No	S 180°
2008	97.94%	28.64%	4.83	NW	WNW	2.06%	30.70%			SSW 210°
2009									Lat. (N)	SW 225°
2010									45.885	WSW 240°
2000 - 2010	94.26%	27.23%	4.88	NW	NNW	5.74%	32.97%		Lon. (W)	W 270°
2000 - 2004	90.71%	26.56%	4.90			9.29%	35.85%		-93.268	WNW 300°
2001 - 2005	93.22%	26.80%	4.86			6.78%	33.58%			NW 315°
2002 - 2006	98.31%	29.64%	4.68			1.69%	31.33%		Elev. (m)	NNW 330°
2003 - 2007	98.81%	28.66%	4.80			1.19%	29.84%		306.0	
2004 - 2008	98.77%	27.97%	4.87			1.23%	29.20%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	No	No	No	No	No	No	No		06341	
2001	No	Yes	Yes	Yes	No	No	No			
2002	Yes	No	No	No	No	No	No		AERMINUTE?	
2003	Yes	No	No	No	No	No	No		No	
2004	Yes	No	No	No	No	No	No			
2005	Yes	No	No	No	No	No	No			
2006	Yes	No	No	No	No	No	No			
2007	Yes	Yes	No	No	No	No	No			
2008	Yes	No	No	No	No	No	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	No	No	No	No	No	No	Not Useable		
2001 - 2005	No	No	No	No	No	No	No	Not Useable		
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable		
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable		
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

50	0	LJF	Litchfield	726583	04941	Meeker	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	87.78%	36.13%	5.52	NW	WNW	12.22%	48.35%		In Use:	NNE 30°
2001	87.20%	8.81%	6.98	NW	WNW	12.80%	21.61%		2004 - 2008	NE 45°
2002	96.08%	14.20%	6.69	WNW	NW	3.92%	18.12%			ENE 60°
2003	85.05%	15.92%	6.55	NW	SSE	14.95%	30.87%		Most Recent	E 90°
2004	96.23%	15.78%	6.49	NW	SSE	3.77%	19.55%		Useable:	ESE 120°
2005	98.86%	17.75%	6.09	SSE	NW	1.14%	18.89%		Caution	SE 135°
2006	98.58%	16.36%	6.30	NW	SSE	1.42%	17.78%		2004 - 2008	SSE 150°
2007	97.63%	14.48%	6.66	WNW	SSE	2.37%	16.85%		Need 2010	S 180°
2008	98.20%	17.96%	6.36	NW	SSE	1.80%	19.76%			SSW 210°
2009									Lat. (N)	SW 225°
2010									45.095	WSW 240°
2000 - 2010	93.96%	17.41%	6.40	NW	SSE	6.04%	23.45%		Lon. (W)	W 270°
2000 - 2004	90.47%	18.17%	6.45			9.53%	27.70%		-94.508	WNW 300°
2001 - 2005	92.68%	14.49%	6.56			7.32%	21.81%			NW 315°
2002 - 2006	94.96%	16.00%	6.42			5.04%	21.04%		Elev. (m)	NNW 330°
2003 - 2007	95.27%	16.06%	6.42			4.73%	20.79%		347.0	
2004 - 2008	97.90%	16.47%	6.38			2.10%	18.57%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	No	No	No	No	No	No	No		06341	
2001	No	Yes	Yes	Yes	Yes	Yes	No			
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?	
2003	No	Yes	Yes	No	No	No	No		No	
2004	Yes	Yes	Yes	No	No	Yes	No			
2005	Yes	Yes	Yes	No	No	Yes	No			
2006	Yes	Yes	Yes	No	No	Yes	No			
2007	Yes	Yes	Yes	Yes	No	Yes	No			
2008	Yes	Yes	Yes	No	No	Yes	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	No	No	No	No	No	No	Not Useable		
2001 - 2005	No	Yes	Yes	No	No	No	No	Not Useable		
2002 - 2006	No	Yes	Yes	No	No	No	No	Not Useable		
2003 - 2007	No	Yes	Yes	No	No	No	No	Not Useable		
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

51	72643	LSE	La Crosse	726430	14920	La Crosse	WI	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	97.31%	6.32%	8.05	S	NNW	2.69%	9.01%	Average	In Use:	NNE 30°
2001	95.43%	9.90%	7.28	S	SSW	4.57%	14.47%	Average	2000 - 2004	NE 45°
2002	96.83%	7.92%	7.66	S	SSW	3.17%	11.09%	Average		ENE 60°
2003	96.20%	9.68%	7.30	S	NNW	3.80%	13.48%	Average	Most Recent	E 90°
2004	96.65%	9.65%	7.37	S	NNW	3.35%	13.00%	Average	Useable:	ESE 120°
2005	96.29%	10.87%	6.94	S	NNW	3.71%	14.58%	Average	Useable:	SE 135°
2006	99.50%	2.15%	7.59	S	NNW	0.50%	2.65%	Average	2006 - 2010	SSE 150°
2007	99.63%	0.61%	7.54	S	SSE	0.37%	0.98%	Average	Yes	S 180°
2008	99.78%	0.83%	7.20	S	SSE	0.22%	1.05%	Average		SSW 210°
2009	99.76%	0.45%	7.19	S	NNW	0.24%	0.69%	Average	Lat. (N)	SW 225°
2010	99.95%	0.82%	6.91	S	NNW	0.05%	0.87%	Average	43.879	WSW 240°
2000 - 2010	96.16%	10.70%	7.18	S	NNW	3.84%	14.54%		Lon. (W)	W 270°
2000 - 2004	96.48%	8.69%	7.53			3.52%	12.21%		-91.253	WNW 300°
2001 - 2005	96.28%	9.60%	7.31			3.72%	13.32%			NW 315°
2002 - 2006	97.09%	8.05%	7.37			2.91%	10.96%		Elev. (m)	NNW 330°
2003 - 2007	97.65%	6.59%	7.35			2.35%	8.94%		198.0	
2004 - 2008	98.37%	4.82%	7.33			1.63%	6.45%			
2005 - 2009	98.99%	2.98%	7.29			1.01%	3.99%		Last Updated:	
2006 - 2010	99.72%	0.97%	7.29			0.28%	1.25%		06/23/2011	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2001	Yes	Yes	Yes	Yes	Yes	Yes	No	
2002	Yes	Yes	Yes	Yes	Yes	Yes	No	
2003	Yes	Yes	Yes	Yes	Yes	Yes	No	
2004	Yes	Yes	Yes	Yes	Yes	Yes	No	
2005	Yes	Yes	Yes	Yes	No	Yes	No	
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable

AERMET Ver.:  
11059

AERMINUTE?  
Yes

Useable  
Useable  
Useable  
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Useable  
Useable



52	0	LVN	Airlake Airport	726562	04943	Dakota	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	99.09%	18.10%	6.44	WNW	NW	0.91%	19.01%		In Use:	NNE 30°
2001	79.98%	7.52%	7.18	WNW	W	20.02%	27.54%		NA	NE 45°
2002	96.04%	23.26%	5.93	WNW	W	3.96%	27.22%			ENE 60°
2003	98.55%	26.69%	5.62	WNW	W	1.45%	28.14%		Most Recent	E 90°
2004	99.10%	19.60%	6.21	S	W	0.90%	20.50%		Useable:	ESE 120°
2005	99.60%	22.37%	5.51	W	S	0.40%	22.77%		Not Useable	SE 135°
2006	98.85%	21.80%	5.57	W	WNW	1.15%	22.95%		2002 - 2006	SSE 150°
2007	98.44%	28.46%	5.23	S	W	1.56%	30.02%		No	S 180°
2008	98.02%	28.07%	5.21	W	WNW	1.98%	30.05%			SSW 210°
2009									Lat. (N)	SW 225°
2010									44.625	WSW 240°
2000 - 2010	96.41%	22.06%	5.85	WNW	W	3.59%	25.65%		Lon. (W)	W 270°
2000 - 2004	94.55%	19.03%	6.28			5.45%	24.48%		-93.227	WNW 300°
2001 - 2005	94.65%	19.89%	6.09			5.35%	25.23%			NW 315°
2002 - 2006	98.43%	22.74%	5.77			1.57%	24.32%		Elev. (m)	NNW 330°
2003 - 2007	98.91%	23.78%	5.63			1.09%	24.88%		292.0	
2004 - 2008	98.80%	24.06%	5.55			1.20%	25.26%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	Yes	Yes	Yes	No	No	Yes	No		06341	
2001	No	Yes	Yes	Yes	Yes	No	No			
2002	Yes	Yes	No	No	No	No	No		AERMINUTE?	
2003	Yes	No	No	No	No	No	No		No	
2004	Yes	Yes	Yes	No	No	Yes	No			
2005	Yes	Yes	No	No	No	Yes	No			
2006	Yes	Yes	No	No	No	Yes	No			
2007	Yes	No	No	No	No	No	No			
2008	Yes	No	No	No	No	No	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	No	No	No	No	No	No	Not Useable		
2001 - 2005	No	No	No	No	No	No	No	Not Useable		
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable		
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable		
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

53	0	LXL	Little Falls	726578	04944	Morrison	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	93.09%	27.46%	4.94	NW	SE	6.91%	34.37%		In Use:	NNE	30°
2001	72.15%	11.28%	5.99	WNW	SE	27.85%	39.13%		NA	NE	45°
2002	91.29%	26.15%	5.00	SE	WNW	8.71%	34.86%			ENE	60°
2003	96.92%	27.21%	4.92	WNW	SE	3.08%	30.29%		Most Recent	E	90°
2004	98.91%	26.13%	5.01	WNW	SE	1.09%	27.22%		Useable:	ESE	120°
2005	99.44%	28.47%	4.79	SE	WNW	0.56%	29.03%		Not Useable	SE	135°
2006	98.97%	27.42%	4.90	WNW	SE	1.03%	28.45%		2003 - 2007	SSE	150°
2007	98.72%	25.12%	5.29	WNW	SE	1.28%	26.40%		No	S	180°
2008	98.03%	29.01%	4.92	WNW	SE	1.97%	30.98%			SSW	210°
2009									Lat. (N)	SW	225°
2010									45.951	WSW	240°
2000 - 2010	94.17%	25.78%	5.06	WNW	SE	5.83%	31.61%		Lon. (W)	W	270°
2000 - 2004	90.47%	23.65%	5.17			9.53%	33.17%		-94.351	WNW	300°
2001 - 2005	91.74%	23.85%	5.14			8.26%	32.11%			NW	315°
2002 - 2006	97.11%	27.08%	4.92			2.89%	29.97%		Elev. (m)	NNW	330°
2003 - 2007	98.59%	26.87%	4.98			1.41%	28.28%		339.0		
2004 - 2008	98.81%	27.23%	4.98			1.19%	28.42%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	No	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	No	No	No				
2002	Yes	No	No	No	No	No	No		AERMINUTE?		
2003	Yes	No	No	No	No	No	No		No		
2004	Yes	No	No	No	No	No	No				
2005	Yes	No	No	No	No	No	No				
2006	Yes	No	No	No	No	No	No				
2007	Yes	No	No	No	No	No	No				
2008	Yes	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

54	0	LYV	Luverne - Quentin Apt.	722006	54926	Rock	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available								In Use:	NNE	30°
2001	No Data Available								NA	NE	45°
2002	No Data Available									ENE	60°
2003	No Data Available								Most Recent	E	90°
2004	No Data Available								Useable:	ESE	120°
2005	89.08%	16.35%	7.69	S	SSE	10.92%	27.27%		Not Useable	SE	135°
2006	99.06%	16.86%	7.60	S	NW	0.94%	17.80%		NA	SSE	150°
2007	98.64%	16.48%	7.74	S	SSE	1.36%	17.84%		Need 2010	S	180°
2008	98.96%	18.72%	7.55	S	SSE	1.04%	19.76%			SSW	210°
2009									Lat. (N)	SW	225°
2010									43.622	WSW	240°
2000 - 2010	96.44%	17.12%	7.64	S	SSE	3.56%	20.68%		Lon. (W)	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-96.215	WNW	300°
2001 - 2005	NA	NA	NA			NA	NA			NW	315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW	330°
2003 - 2007	NA	NA	NA			NA	NA		434.0		
2004 - 2008	NA	NA	NA			NA	NA				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	No	No	No	No	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	No	No	No	No	No	No	No		No		
2004	No	No	No	No	No	No	No				
2005	No	Yes	Yes	No	No	No	No				
2006	Yes	Yes	Yes	No	No	Yes	No				
2007	Yes	Yes	Yes	No	No	Yes	No				
2008	Yes	Yes	Yes	No	No	Yes	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	No	No	No	No	No	No	No	Not Useable			
2003 - 2007	No	No	No	No	No	No	No	Not Useable			
2004 - 2008	No	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

55	0	MIC	Minneapolis/Crystal	726575	94960	Hennepin	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	96.63%	12.46%	7.17	NW	SSE	3.37%	15.83%	Average	In Use:	NNE 30°
2001	85.42%	3.49%	7.90	WNW	SSE	14.58%	18.07%	Wet	2004 - 2008	NE 45°
2002	95.55%	10.91%	7.44	SSE	W	4.45%	15.36%	Wet		ENE 60°
2003	95.81%	13.21%	7.21	WNW	NW	4.19%	17.40%	Average	Most Recent	E 90°
2004	96.27%	12.77%	7.29	NW	SSE	3.73%	16.50%	Average	Useable:	ESE 120°
2005	96.84%	13.29%	6.99	SSE	S	3.16%	16.45%	Wet	Useable	SE 135°
2006	99.46%	6.84%	7.59	SSE	WNW	0.54%	7.38%	Average	2006 - 2010	SSE 150°
2007	99.54%	2.24%	7.83	S	SSE	0.46%	2.70%	Average	Yes	S 180°
2008	99.90%	1.80%	7.43	SSE	NW	0.10%	1.90%	Average		SSW 210°
2009	99.75%	1.93%	7.21	SSE	WNW	0.25%	2.18%	Average	Lat. (N)	SW 225°
2010	99.93%	2.80%	6.84	NW	WNW	0.07%	2.87%	Wet	45.062	WSW 240°
2000 - 2010	95.16%	12.52%	7.18	SSE	NW	4.84%	17.36%		Lon. (W)	W 270°
2000 - 2004	93.94%	10.57%	7.40			6.06%	16.63%		-93.351	WNW 300°
2001 - 2005	93.98%	10.73%	7.37			6.02%	16.76%			NW 315°
2002 - 2006	96.79%	11.40%	7.30			3.21%	14.62%		Elev. (m)	NNW 330°
2003 - 2007	97.58%	9.67%	7.38			2.42%	12.09%		262.0	
2004 - 2008	98.40%	7.39%	7.43			1.60%	8.99%			
2005 - 2009	99.10%	5.22%	7.41			0.90%	6.12%		Last Updated:	
2006 - 2010	99.72%	3.12%	7.38			0.28%	3.41%		08/22/2011	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	No	Yes	No		11059
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	No	Yes	No	AERMINUTE?	
2003	Yes	Yes	Yes	Yes	No	Yes	No	Yes	
2004	Yes	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2000 - 2004	No	Yes	Yes	Yes	No	Yes	No	Not Useable	
2001 - 2005	No	Yes	Yes	Yes	No	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	

56	0	MJQ	Jackson	726593	99999	Jackson	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	91.50%	5.30%	9.46	S	NW	8.50%	13.80%	Average	In Use:	NNE 30°
2001	86.02%	1.53%	9.62	S	NW	13.98%	15.51%	Average	2003 - 2007	NE 45°
2002	97.56%	5.83%	9.52	S	SSW	2.44%	8.27%	Average		ENE 60°
2003	98.70%	6.60%	9.25	NW	S	1.30%	7.90%	Dry	Most Recent	E 90°
2004	98.60%	7.10%	9.30	S	NW	1.40%	8.50%	Wet	Useable:	ESE 120°
2005	99.47%	6.98%	8.87	NW	S	0.53%	7.51%	Wet	Useable:	SE 135°
2006	99.10%	7.77%	8.88	NW	NNW	0.90%	8.67%	Average	2006 - 2010	SSE 150°
2007	98.77%	6.30%	9.40	S	NW	1.23%	7.53%	Wet	Yes	S 180°
2008	97.58%	7.83%	9.07	NW	SSE	2.42%	10.25%	Average		SSW 210°
2009	98.32%	8.03%	8.71	NW	NNW	1.68%	9.71%	Average	Lat. (N)	SW 225°
2010	99.05%	8.58%	8.75	NW	S	0.95%	9.53%	Wet	43.649	WSW 240°
2000 - 2010	96.55%	6.44%	9.20	NW	S	3.45%	9.89%		Lon. (W)	W 270°
2000 - 2004	94.48%	5.27%	9.43			5.52%	10.80%		-94.985	WNW 300°
2001 - 2005	96.07%	5.61%	9.31			3.93%	9.54%			NW 315°
2002 - 2006	98.69%	6.86%	9.16			1.31%	8.17%		Elev. (m)	NNW 330°
2003 - 2007	98.93%	6.95%	9.14			1.07%	8.02%		439.0	
2004 - 2008	98.70%	7.20%	9.10			1.30%	8.49%			
2005 - 2009	98.65%	7.38%	8.99			1.35%	8.73%		Last Updated:	
2006 - 2010	98.56%	7.70%	8.96			1.44%	9.14%		05/25/2011	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	Yes	No		11059
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		No
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes	No		
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2000 - 2004	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2001 - 2005	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	No	Useable	

57	0	MKT	Mankato	726585	14954	Blue Earth	MN	AWOS III			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	98.28%	17.29%	8.16	NW	S	1.72%	19.01%	Average	In Use:	NNE	30°
2001	92.63%	2.63%	9.03	S	NW	7.37%	10.00%	Average	2002 - 2006	NE	45°
2002	97.75%	5.79%	9.04	S	NW	2.25%	8.04%	Average		ENE	60°
2003	98.56%	6.95%	8.74	NW	S	1.44%	8.39%	Dry	Most Recent	E	90°
2004	98.50%	5.36%	9.32	NW	S	1.50%	6.86%	Wet	Useable:	ESE	120°
2005	93.58%	6.18%	8.96	S	SE	6.42%	12.60%	Wet	Useable:	SE	135°
2006	97.72%	4.85%	9.38	NW	S	2.28%	7.13%	Dry	2002 - 2006	SSE	150°
2007	86.32%	4.13%	9.49	S	NW	13.68%	17.81%	Average	No	S	180°
2008	97.15%	5.59%	9.28	NW	S	2.85%	8.44%	Average		SSW	210°
2009	99.38%	5.98%	8.89	NW	SSE	0.62%	6.60%	Average	Lat. (N)	SW	225°
2010	96.66%	8.65%	8.34	NW	S	3.34%	11.99%	Wet	44.218	WSW	240°
2000 - 2010	95.97%	6.62%	9.02	NW	S	4.03%	10.65%		Lon. (W)	W	270°
2000 - 2004	97.14%	7.60%	8.86			2.86%	10.46%		-93.918	WNW	300°
2001 - 2005	96.20%	5.38%	9.02			3.80%	9.18%			NW	315°
2002 - 2006	97.22%	5.83%	9.09			2.78%	8.60%		Elev. (m)	NNW	330°
2003 - 2007	94.94%	5.49%	9.18			5.06%	10.56%		309.0		
2004 - 2008	94.65%	5.22%	9.29			5.35%	10.57%				
2005 - 2009	94.83%	5.35%	9.20			5.17%	10.52%		Last Updated:		
2006 - 2010	95.45%	5.84%	9.08			4.55%	10.39%		10/17/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	No	No	Yes	No		11059
2001	Yes	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes		No
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes	No		
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2007	No	Yes	Yes	Yes	Yes	Yes	No	Caution	
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2010	Yes	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2000 - 2004	Yes	Yes	Yes	No	No	Yes	No	Not Useable	
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2003 - 2007	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2004 - 2008	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2005 - 2009	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2006 - 2010	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	

58	0	MML	Marshall	726559	94976	Lyon	MN	AWOS III		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	97.94%	6.75%	10.12	NNW	NW	2.06%	8.81%	Average	In Use:	NNE 30°
2001	92.28%	2.63%	10.72	NNW	NW	7.72%	10.35%	Wet	2004 - 2008	NE 45°
2002	97.03%	4.45%	10.65	NNW	NW	2.97%	7.42%	Average		ENE 60°
2003	97.50%	5.05%	10.18	NNW	NW	2.50%	7.55%	Average	Most Recent	E 90°
2004	97.70%	5.22%	10.37	NNW	SSW	2.30%	7.52%	Average	Useable:	ESE 120°
2005	98.52%	6.12%	10.01	NW	NNW	1.48%	7.60%	Wet	Useable:	SE 135°
2006	92.65%	4.87%	10.01	NW	NNW	7.35%	12.22%	Average	2006 - 2010	SSE 150°
2007	95.01%	4.97%	10.48	NW	WNW	4.99%	9.96%	Average	Yes	S 180°
2008	98.70%	5.70%	10.17	WNW	NW	1.30%	7.00%	Average		SSW 210°
2009	98.25%	6.61%	9.42	NW	WNW	1.75%	8.36%	Average	Lat. (N)	SW 225°
2010	98.65%	7.73%	9.39	NW	WNW	1.35%	9.08%	Wet	44.450	WSW 240°
2000 - 2010	96.45%	5.34%	10.22	NW	NNW	3.55%	8.89%		Lon. (W)	W 270°
2000 - 2004	96.49%	4.82%	10.41			3.51%	8.33%		-95.822	WNW 300°
2001 - 2005	96.61%	4.69%	10.39			3.39%	8.09%			NW 315°
2002 - 2006	96.68%	5.14%	10.24			3.32%	8.46%		Elev. (m)	NNW 330°
2003 - 2007	96.28%	5.25%	10.21			3.72%	8.97%		359.0	
2004 - 2008	96.52%	5.38%	10.21			3.48%	8.86%			
2005 - 2009	96.63%	5.65%	10.02			3.37%	9.03%		Last Updated:	
2006 - 2010	96.65%	5.98%	9.89			3.35%	9.32%		02/01/2012	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	Yes	Yes	Yes	Yes	Yes	Yes	
2001	Yes	Yes	Yes	Yes	Yes	No	
2002	Yes	Yes	Yes	Yes	Yes	Yes	
2003	Yes	Yes	Yes	Yes	Yes	Yes	
2004	Yes	Yes	Yes	Yes	Yes	Yes	
2005	Yes	Yes	Yes	Yes	Yes	Yes	
2006	Yes	Yes	Yes	Yes	Yes	No	
2007	Yes	Yes	Yes	Yes	Yes	Yes	
2008	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	Yes	Yes	Yes	Yes	Yes	No	Useable
2001 - 2005	Yes	Yes	Yes	Yes	Yes	No	Useable
2002 - 2006	Yes	Yes	Yes	Yes	Yes	No	Useable
2003 - 2007	Yes	Yes	Yes	Yes	Yes	No	Useable
2004 - 2008	Yes	Yes	Yes	Yes	Yes	No	Useable
2005 - 2009	Yes	Yes	Yes	Yes	Yes	No	Useable
2006 - 2010	Yes	Yes	Yes	Yes	Yes	No	Useable

AERMET Ver.:  
11059

AERMINUTE?  
No

59	0	MOX	Morris	726565	04948	Stevens	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	80.64%	7.38%	9.25	NW	SE	19.36%	26.74%	Average	In Use:	NNE	30°
2001	83.53%	5.48%	9.59	NW	SE	16.47%	21.95%	Wet	2003 - 2007	NE	45°
2002	96.53%	6.69%	9.41	SE	NW	3.47%	10.16%	Average		ENE	60°
2003	98.08%	6.01%	9.46	NW	SE	1.92%	7.93%	Average	Most Recent	E	90°
2004	99.09%	7.30%	9.52	NW	SE	0.91%	8.21%	Wet	Useable:	ESE	120°
2005	99.67%	7.56%	9.21	SE	NW	0.33%	7.89%	Wet	Useable:	SE	135°
2006	99.16%	7.37%	9.18	NW	SE	0.84%	8.21%	Dry	2006 - 2010	SSE	150°
2007	97.82%	6.27%	9.70	NW	SE	2.18%	8.45%	Average	Yes	S	180°
2008	94.68%	8.22%	9.49	NW	SE	5.32%	13.54%	Average		SSW	210°
2009	98.14%	7.56%	9.08	NW	NNW	1.86%	9.42%	Average	Lat. (N)	SW	225°
2010	98.84%	9.76%	8.85	SE	NW	1.16%	10.92%	Wet	45.568	WSW	240°
2000 - 2010	94.68%	7.08%	9.39	NW	SE	5.32%	12.40%		Lon. (W)	W	270°
2000 - 2004	91.57%	6.57%	9.45			8.43%	15.00%		-95.966	WNW	300°
2001 - 2005	95.38%	6.61%	9.44			4.62%	11.23%			NW	315°
2002 - 2006	98.51%	6.99%	9.36			1.49%	8.48%		Elev. (m)	NNW	330°
2003 - 2007	98.76%	6.90%	9.41			1.24%	8.14%		344.0		
2004 - 2008	98.08%	7.34%	9.42			1.92%	9.26%				
2005 - 2009	97.89%	7.40%	9.33			2.11%	9.50%		Last Updated:		
2006 - 2010	97.73%	7.84%	9.26			2.27%	10.11%		05/31/2011		

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	Yes	Yes	No	No		11059
2001	No	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes		No
2004	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	No		
2009	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	No		
2000 - 2004	No	Yes	Yes	Yes	No	No	Not Useable	
2001 - 2005	No	Yes	Yes	Yes	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	Yes	No	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	No	Useable	



60	72658	MSP	Minneapolis/St. Paul Int'l Apt	726580	14922	Hennepin	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	99.85%	1.37%	8.83	NW	SE	0.15%	1.52%	Average	In Use:	NNE 30°
2001	99.46%	3.89%	8.52	NW	SE	0.54%	4.43%	Wet	2000 - 2004	NE 45°
2002	99.77%	1.84%	8.78	WNW	NW	0.23%	2.07%	Wet		ENE 60°
2003	99.74%	1.46%	8.62	NW	SSE	0.26%	1.72%	Average	Most Recent	E 90°
2004	99.89%	1.63%	8.75	NW	SE	0.11%	1.74%	Average	Useable:	ESE 120°
2005	96.76%	6.37%	7.97	SE	NW	3.24%	9.61%	Wet	Useable:	SE 135°
2006	99.52%	1.60%	8.46	NW	SE	0.48%	2.08%	Average	2006 - 2010	SSE 150°
2007	99.81%	0.47%	8.50	NW	WNW	0.19%	0.66%	Wet	Yes	S 180°
2008	99.94%	0.55%	8.19	NW	SE	0.06%	0.61%	Average		SSW 210°
2009	99.87%	0.27%	8.04	NW	SE	0.13%	0.40%	Average	Lat. (N)	SW 225°
2010	99.98%	0.29%	7.74	NW	SE	0.02%	0.31%	Wet	44.885	WSW 240°
2000 - 2010	96.85%	7.52%	8.08	NW	SE	3.15%	10.67%		Lon. (W)	W 270°
2000 - 2004	99.74%	2.04%	8.70			0.26%	2.30%		-93.231	WNW 300°
2001 - 2005	99.12%	3.04%	8.53			0.88%	3.91%			NW 315°
2002 - 2006	99.14%	2.58%	8.52			0.86%	3.44%		Elev. (m)	NNW 330°
2003 - 2007	99.14%	2.31%	8.46			0.86%	3.16%		256.0	
2004 - 2008	99.18%	2.12%	8.37			0.82%	2.94%			
2005 - 2009	99.18%	1.85%	8.23			0.82%	2.67%		Last Updated:	
2006 - 2010	99.82%	0.64%	8.19			0.18%	0.81%		07/28/2011	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	Yes		11059
2001	Yes	Yes	Yes	Yes	Yes	Yes		
2002	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes		Yes
2004	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes		
2009	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	Yes		
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Useable	

61	0	MVE	Montevideo	726553	04951	Chippewa	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	89.88%	9.44%	7.88	NW	SE	10.12%	19.56%	Average	In Use:	NNE 30°
2001	91.44%	3.32%	8.16	NW	SSE	8.56%	11.88%	Average	2004 - 2008	NE 45°
2002	97.23%	8.18%	8.11	NW	SSE	2.77%	10.95%	Average		ENE 60°
2003	98.52%	8.22%	7.85	NW	S	1.48%	9.70%	Average	Most Recent	E 90°
2004	98.77%	8.69%	8.07	N	S	1.23%	9.92%	Average	Useable:	ESE 120°
2005	99.35%	8.90%	7.77	S	N	0.65%	9.55%	Wet	Useable:	SE 135°
2006	99.18%	9.00%	7.78	N	NNW	0.82%	9.82%	Average	2004 - 2008	SSE 150°
2007	98.80%	7.33%	8.25	N	NNW	1.20%	8.53%	Average	No	S 180°
2008	96.70%	9.81%	8.16	N	S	3.30%	13.11%	Average		SSW 210°
2009	98.38%	25.34%	6.46	N	NNW	1.62%	26.96%	Average	Lat. (N)	SW 225°
2010								Wet	44.967	WSW 240°
2000 - 2010	96.82%	9.87%	7.85	S	N	3.18%	13.05%		Lon. (W)	W 270°
2000 - 2004	95.17%	7.57%	8.01			4.83%	12.40%		-95.712	WNW 300°
2001 - 2005	97.06%	7.46%	7.99			2.94%	10.40%			NW 315°
2002 - 2006	98.61%	8.60%	7.92			1.39%	9.99%		Elev. (m)	NNW 330°
2003 - 2007	98.92%	8.43%	7.94			1.08%	9.50%		316.0	
2004 - 2008	98.56%	8.75%	8.01			1.44%	10.19%			
2005 - 2009	98.48%	12.08%	7.68			1.52%	13.59%		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	Yes	Yes	Yes	No		06341
2001	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes		No
2004	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	No		
2009	Yes	No	No	No	No	No		
2010	No	No	No	No	No	No		
2000 - 2004	No	Yes	Yes	Yes	Yes	No	Not Useable	
2001 - 2005	Yes	Yes	Yes	Yes	Yes	No	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	No	Useable	
2005 - 2009	Yes	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	Not Useable	

62	0	MWM	Windom	727506	04952	Cottonwood	MN	AWOS IIIIP		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	97.04%	10.02%	9.15	NW	SSW	2.96%	12.98%	Average	In Use:	NNE 30°
2001	88.79%	2.58%	9.85	NW	S	11.21%	13.79%	Wet	2003 - 2007	NE 45°
2002	95.72%	9.59%	9.26	S	NW	4.28%	13.87%	Average		ENE 60°
2003	98.44%	9.47%	9.44	NW	S	1.56%	11.03%	Dry	Most Recent	E 90°
2004	96.35%	9.32%	9.75	NW	S	3.65%	12.97%	Average	Useable:	ESE 120°
2005	99.57%	9.54%	9.19	NW	SSE	0.43%	9.97%	Wet	Useable:	SE 135°
2006	98.90%	10.50%	9.11	NW	SSE	1.10%	11.60%	Average	2003 - 2007	SSE 150°
2007	98.66%	9.05%	9.32	NW	S	1.34%	10.39%	Wet	Need 2010	S 180°
2008	98.33%	16.77%	8.84	NW	SSE	1.67%	18.44%	Average		SSW 210°
2009	98.26%	11.64%	8.61	NW	S	1.74%	13.38%	Average	Lat. (N)	SW 225°
2010								Wet	43.909	WSW 240°
2000 - 2010	97.01%	9.92%	9.24	NW	S	2.99%	12.91%		Lon. (W)	W 270°
2000 - 2004	95.27%	8.20%	9.49			4.73%	12.93%		-95.107	WNW 300°
2001 - 2005	95.77%	8.10%	9.50			4.23%	12.33%			NW 315°
2002 - 2006	97.80%	9.68%	9.35			2.20%	11.89%		Elev. (m)	NNW 330°
2003 - 2007	98.38%	9.58%	9.36			1.62%	11.19%		426.0	
2004 - 2008	98.36%	11.04%	9.24			1.64%	12.67%			
2005 - 2009	98.74%	11.50%	9.01			1.26%	12.76%		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	No	Yes	No		06341
2001	No	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	No		No
2004	Yes	Yes	Yes	Yes	Yes	Yes	No		
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	No	Yes	No	Not Useable	
2007	Yes	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2008	Yes	Yes	Yes	No	No	Yes	No	Useable	
2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2010	No	No	No	No	No	No	No	Caution	
2000 - 2004	No	Yes	Yes	Yes	No	Yes	No	Caution	
2001 - 2005	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution	
2005 - 2009	Yes	Yes	Yes	No	No	Yes	No	Caution	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

63	0	MZH	Moose Lake	727449	04954	Carlton	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available								In Use:	NNE	30°
2001	23.85%	0.00%	6.77	SSW	SW	76.15%	76.15%		NA	NE	45°
2002	88.05%	30.61%	4.88	SW	SSW	11.95%	42.56%			ENE	60°
2003	92.52%	28.55%	4.90	ENE	NW	7.48%	36.03%		Most Recent	E	90°
2004	99.03%	25.66%	4.89	NW	SSW	0.97%	26.63%		Useable:	ESE	120°
2005	99.62%	28.35%	4.47	ENE	NE	0.38%	28.73%		Not Useable	SE	135°
2006	97.88%	25.82%	4.59	ENE	NE	2.12%	27.94%		2004 - 2008	SSE	150°
2007	98.76%	30.84%	4.47	SSW	NW	1.24%	32.08%		No	S	180°
2008	98.57%	34.33%	4.13	NW	ENE	1.43%	35.76%		Lat. (N)	SSW	210°
2009									46.416	SW	225°
2010										WSW	240°
2000 - 2010	87.29%	28.15%	4.69	ENE	SSW	12.71%	40.86%		Lon. (W)	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-92.805	WNW	300°
2001 - 2005	80.61%	22.63%	5.18			19.39%	42.02%			NW	315°
2002 - 2006	95.42%	27.80%	4.75			4.58%	32.38%		Elev. (m)	NNW	330°
2003 - 2007	97.56%	27.84%	4.66			2.44%	30.28%		330.0		
2004 - 2008	98.77%	29.00%	4.51			1.23%	30.23%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	Yes	No	No				
2002	No	No	No	No	No	No	No		AERMINUTE?		
2003	Yes	No	No	No	No	No	No		No		
2004	Yes	No	No	No	No	No	No				
2005	Yes	No	No	No	No	No	No				
2006	Yes	No	No	No	No	No	No				
2007	Yes	No	No	No	No	No	No				
2008	Yes	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	No	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

64	0	ONA	Winona	726588	04956	Winona	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	92.91%	25.65%	5.02	NW	ESE	7.09%	32.74%		In Use:	NNE	30°
2001	69.92%	10.37%	5.81	WNW	NW	30.08%	40.45%		NA	NE	45°
2002	96.08%	24.03%	5.17	WNW	NW	3.92%	27.95%			ENE	60°
2003	98.88%	28.23%	4.76	NW	WNW	1.12%	29.35%		Most Recent	E	90°
2004	97.46%	27.57%	4.82	NW	SE	2.54%	30.11%		Useable:	ESE	120°
2005	97.88%	29.40%	4.46	NW	SE	2.12%	31.52%		Not Useable	SE	135°
2006	99.06%	29.25%	4.61	NW	SE	0.94%	30.19%		2002 - 2006	SSE	150°
2007	95.99%	27.08%	4.95	NW	SE	4.01%	31.09%		No	S	180°
2008	98.09%	28.84%	4.63	NW	SE	1.91%	30.75%			SSW	210°
2009									Lat. (N)	SW	225°
2010									44.076	WSW	240°
2000 - 2010	94.03%	26.11%	4.88	NW	WNW	5.97%	32.08%		Lon. (W)	W	270°
2000 - 2004	91.05%	23.17%	5.12			8.95%	32.12%		-91.706	WNW	300°
2001 - 2005	92.04%	23.92%	5.00			7.96%	31.88%			NW	315°
2002 - 2006	97.87%	27.70%	4.76			2.13%	29.82%		Elev. (m)	NNW	330°
2003 - 2007	97.85%	28.31%	4.72			2.15%	30.45%		198.0		
2004 - 2008	97.70%	28.43%	4.69			2.30%	30.73%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	No	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	No	No	No				
2002	Yes	Yes	No	No	No	No	No		AERMINUTE?		
2003	Yes	No	No	No	No	No	No		No		
2004	Yes	No	No	No	No	No	No				
2005	Yes	No	No	No	No	No	No				
2006	Yes	No	No	No	No	No	No				
2007	Yes	No	No	No	No	No	No				
2008	Yes	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

65	0	ORB	Orr	726544	04958	Saint Louis	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	83.57%	34.49%	4.11	NW	WNW	16.43%	50.92%		In Use:	NNE	30°
2001	73.53%	13.38%	5.89	NW	WNW	26.47%	39.85%		NA	NE	45°
2002	92.79%	26.85%	5.18	NW	WNW	7.21%	34.06%			ENE	60°
2003	95.37%	30.27%	4.77	NW	SSE	4.63%	34.90%		Most Recent	E	90°
2004	99.00%	28.21%	5.19	NW	SSE	1.00%	29.21%		Useable:	ESE	120°
2005	99.65%	32.87%	4.50	NW	SE	0.35%	33.22%		Not Useable	SE	135°
2006	99.09%	30.99%	4.52	NW	WNW	0.91%	31.90%		2004 - 2008	SSE	150°
2007	98.30%	26.70%	5.04	NW	WNW	1.70%	28.40%		No	S	180°
2008	97.34%	30.87%	4.58	NW	SSE	2.66%	33.53%			SSW	210°
2009									Lat. (N)	SW	225°
2010									48.018	WSW	240°
2000 - 2010	93.18%	28.63%	4.84	NW	WNW	6.82%	35.45%		Lon. (W)	W	270°
2000 - 2004	88.85%	26.64%	5.03			11.15%	37.79%		-92.858	WNW	300°
2001 - 2005	92.07%	26.32%	5.11			7.93%	34.25%			NW	315°
2002 - 2006	97.18%	29.84%	4.83			2.82%	32.66%		Elev. (m)	NNW	330°
2003 - 2007	98.28%	29.81%	4.80			1.72%	31.53%		401.0		
2004 - 2008	98.68%	29.93%	4.77			1.32%	31.25%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	No	No	No				
2002	Yes	No	No	No	No	No	No		AERMINUTE?		
2003	Yes	No	No	No	No	No	No		No		
2004	Yes	No	No	No	No	No	No				
2005	Yes	No	No	No	No	No	No				
2006	Yes	No	No	No	No	No	No				
2007	Yes	No	No	No	No	No	No				
2008	Yes	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

66	0	OTG	Worthington	726587	94927	Nobles	MN	AWOS III		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	96.15%	3.91%	10.78	S	SSW	3.85%	7.76%		In Use:	NNE 30°
2001	94.79%	2.05%	10.99	S	SSW	5.21%	7.26%		NA	NE 45°
2002	85.16%	4.84%	10.59	SSW	S	14.84%	19.68%			ENE 60°
2003	88.16%	4.20%	10.13	SSW	SW	11.84%	16.04%		Most Recent	E 90°
2004	95.38%	4.82%	10.78	S	SSW	4.62%	9.44%		Useable:	ESE 120°
2005	94.57%	4.74%	10.19	S	SSW	5.43%	10.17%		Not Useable	SE 135°
2006	96.42%	5.42%	10.30	S	NNW	3.58%	9.00%		NA	SSE 150°
2007	85.48%	4.94%	10.15	S	SSW	14.52%	19.46%		No	S 180°
2008	97.88%	4.79%	10.72	SSE	NW	2.12%	6.91%			SSW 210°
2009									Lat. (N)	SW 225°
2010									43.652	WSW 240°
2000 - 2010	92.67%	4.41%	10.52	S	SSW	7.33%	11.74%		Lon. (W)	W 270°
2000 - 2004	91.93%	3.96%	10.65			8.07%	12.04%		-95.576	WNW 300°
2001 - 2005	91.61%	4.13%	10.54			8.39%	12.52%			NW 315°
2002 - 2006	91.94%	4.80%	10.40			8.06%	12.87%		Elev. (m)	NNW 330°
2003 - 2007	92.00%	4.82%	10.31			8.00%	12.82%		477.0	
2004 - 2008	93.95%	4.94%	10.43			6.05%	11.00%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes		06341	
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2002	No	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?	
2003	No	Yes	Yes	Yes	Yes	Yes	No		No	
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2005	Yes	Yes	Yes	Yes	Yes	Yes	No			
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2007	No	Yes	Yes	Yes	Yes	Yes	No			
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable		
2001 - 2005	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable		
2002 - 2006	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable		
2003 - 2007	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable		
2004 - 2008	No	Yes	Yes	Yes	Yes	Yes	No	Not Useable		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

67	<a href="#">0</a>	<a href="#">OVL</a>	<a href="#">Olivia</a>	<a href="#">722168</a>	<a href="#">04960</a>	<a href="#">Renville</a>	<a href="#">MN</a>	<a href="#">AWOS IIIP/T</a>			
Processed (.SFC)	<u>Data Availability (%)</u>	<u>% Calm Hours</u>	<u>Ave. Wind Speed (knots)</u>	<u>1st Wind Dir.</u>	<u>2nd Wind Dir.</u>	<u>Missing Data (%)</u>	<u>Missing + Calm (%)</u>	<u>Moisture Conditions</u>	<u>Current Years</u>	N	0°/360°
2000	No Data Available							Average	<u>In Use:</u>	NNE	30°
2001	No Data Available							Average	2004 - 2008	NE	45°
2002	No Data Available							Average		ENE	60°
2003	No Data Available							Dry	<u>Most Recent</u>	E	90°
2004	59.81%	12.24%	7.44	SSE	S	40.19%	52.43%	Average	<u>Useable:</u>	ESE	120°
2005	99.66%	9.68%	8.04	NW	SSE	0.34%	10.02%	Wet	<u>Useable</u>	SE	135°
2006	98.95%	9.58%	8.04	NW	SSE	1.05%	10.63%	Average	2006 - 2010	SSE	150°
2007	98.65%	6.83%	8.62	NW	SSE	1.35%	8.18%	Average	Yes	S	180°
2008	96.73%	9.35%	8.39	NW	SSE	3.27%	12.62%	Average		SSW	210°
2009	98.54%	11.94%	7.79	NW	NNW	1.46%	13.40%	Average	<u>Lat. (N)</u>	SW	225°
2010	96.39%	12.85%	7.62	NW	SSE	3.61%	16.46%	Wet	44.779	WSW	240°
2000 - 2010	92.04%	9.90%	8.09	NW	SSE	7.96%	17.86%		<u>Lon. (W)</u>	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-95.030	WNW	300°
2001 - 2005	NA	NA	NA			NA	NA			NW	315°
2002 - 2006	NA	NA	NA			NA	NA		<u>Elev. (m)</u>	NNW	330°
2003 - 2007	NA	NA	NA			NA	NA		329.0		
2004 - 2008	90.76%	9.54%	8.11			9.24%	18.78%				
2005 - 2009	98.51%	9.48%	8.18			1.49%	10.97%		<u>Last Updated:</u>		
2006 - 2010	97.85%	10.11%	8.09			2.15%	12.26%		06/17/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	<u>AERMET Ver.:</u>
2000	No	No	No	No	No	No	No		11059
2001	No	No	No	No	No	No	No		
2002	No	No	No	No	No	No	No		<u>AERMINUTE?</u>
2003	No	No	No	No	No	No	No		No
2004	No	Yes	Yes	Yes	No	No	No		
2005	Yes	Yes	Yes	Yes	Yes	Yes	No		
2006	Yes	Yes	Yes	Yes	Yes	Yes	No		
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes	No		
2009	Yes	Yes	Yes	Yes	No	Yes	No		
2010	Yes	Yes	Yes	Yes	No	Yes	No		
2000 - 2004	No	No	No	No	No	No	No	Not Useable	
2001 - 2005	No	No	No	No	No	No	No	Not Useable	
2002 - 2006	No	No	No	No	No	No	No	Not Useable	
2003 - 2007	No	No	No	No	No	No	No	Not Useable	
2004 - 2008	No	Yes	Yes	Yes	No	No	No	Not Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	No	Yes	No	Useable	



68	0	OWA	Owatonna	726568	04961	Steele	MN	AWOS IIIIP			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	93.24%	14.52%	8.10	SSE	WNW	6.76%	21.28%		In Use:	NNE	30°
2001	89.73%	3.50%	9.11	SSE	S	10.27%	13.77%		2004 - 2008	NE	45°
2002	93.04%	13.77%	8.40	S	SSE	6.96%	20.73%		Most Recent	ENE	60°
2003	95.56%	27.99%	7.34	SSE	WNW	4.44%	32.43%		Useable:	E	90°
2004	96.58%	13.14%	8.34	SSE	NW	3.42%	16.56%		Caution	ESE	120°
2005	98.62%	15.73%	7.67	SSE	SE	1.38%	17.11%		2004 - 2008	SE	135°
2006	98.09%	15.61%	7.88	SSE	WNW	1.91%	17.52%		Need 2010	SSE	150°
2007	97.43%	13.98%	8.26	SSE	S	2.57%	16.55%		Lat. (N)	S	180°
2008	96.43%	14.43%	8.22	SSE	SE	3.57%	18.00%		44.119	SSW	210°
2009										SW	225°
2010										WSW	240°
2000 - 2010	95.41%	14.82%	8.14	SSE	WNW	4.59%	19.41%		Lon. (W)	W	270°
2000 - 2004	93.63%	14.58%	8.26			6.37%	20.95%		-93.257	WNW	300°
2001 - 2005	94.71%	14.83%	8.17			5.29%	20.12%			NW	315°
2002 - 2006	96.38%	17.25%	7.93			3.62%	20.87%		Elev. (m)	NNW	330°
2003 - 2007	97.26%	17.29%	7.90			2.74%	20.03%		344.0		
2004 - 2008	97.43%	14.58%	8.07			2.57%	17.15%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	Yes	Yes	No	Yes	No		06341		
2001	No	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	No	No	No	No	No	No		No		
2004	Yes	Yes	Yes	Yes	No	Yes	No				
2005	Yes	Yes	Yes	No	No	Yes	No				
2006	Yes	Yes	Yes	No	No	Yes	No				
2007	Yes	Yes	Yes	Yes	No	Yes	No				
2008	Yes	Yes	Yes	Yes	No	Yes	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

69	0	PEX	Paynesville	720367	99999	Stearns	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	No Data Available								In Use:	NNE 30°
2001	No Data Available								NA	NE 45°
2002	No Data Available									ENE 60°
2003	No Data Available									E 90°
2004	No Data Available								Most Recent Useable:	ESE 120°
2005	13.03%	19.19%	5.85	SE	SSE	86.97%	106.16%		Not Useable	SE 135°
2006	94.10%	14.40%	6.81	SE	WNW	5.90%	20.30%		NA	SSE 150°
2007	98.86%	12.61%	7.21	WNW	SSE	1.14%	13.75%		Need 2010	S 180°
2008	98.83%	15.56%	6.87	SE	WNW	1.17%	16.73%			SSW 210°
2009									Lat. (N)	SW 225°
2010									45.373	WSW 240°
2000 - 2010	76.22%	14.40%	6.92	WNW	SE	23.78%	38.18%		Lon. (W)	W 270°
2000 - 2004	NA	NA	NA			NA	NA		-94.745	WNW 300°
2001 - 2005	NA	NA	NA			NA	NA			NW 315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW 330°
2003 - 2007	NA	NA	NA			NA	NA		360.0	
2004 - 2008	NA	NA	NA			NA	NA			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	No	No	No	No	No	No	No		06341	
2001	No	No	No	No	No	No	No			
2002	No	No	No	No	No	No	No		AERMINUTE?	
2003	No	No	No	No	No	No	No		No	
2004	No	No	No	No	No	No	No			
2005	No	Yes	Yes	No	No	No	No			
2006	Yes	Yes	Yes	Yes	No	Yes	No			Not Useable
2007	Yes	Yes	Yes	Yes	No	Yes	No			Not Useable
2008	Yes	Yes	Yes	No	No	Yes	No			Not Useable
2009	No	No	No	No	No	No	No			Not Useable
2010	No	No	No	No	No	No	No			Not Useable
2000 - 2004	No	No	No	No	No	No	No			Not Useable
2001 - 2005	No	No	No	No	No	No	No			Not Useable
2002 - 2006	No	No	No	No	No	No	No			Not Useable
2003 - 2007	No	No	No	No	No	No	No			Not Useable
2004 - 2008	No	No	No	No	No	No	No			Not Useable
2005 - 2009	No	No	No	No	No	No	No			Not Useable
2006 - 2010	No	No	No	No	No	No	No			Not Useable

70	0	PKD	Park Rapids	727453	94967	Hubbard	MN	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	95.47%	10.09%	7.64	SE	WNW	4.53%	14.62%	Average	In Use:	NNE	30°
2001	92.35%	4.59%	8.42	NW	SE	7.65%	12.24%	Average	2004 - 2008	NE	45°
2002	94.76%	8.26%	8.27	WNW	NW	5.24%	13.50%	Average		ENE	60°
2003	94.01%	8.99%	8.00	WNW	SSE	5.99%	14.98%	Dry	Most Recent	E	90°
2004	96.31%	8.74%	8.24	NW	NNW	3.69%	12.43%	Average	Useable:	ESE	120°
2005	96.93%	11.86%	7.76	SE	SSE	3.07%	14.93%	Wet	Useable	SE	135°
2006	99.26%	4.82%	8.26	WNW	NW	0.74%	5.56%	Dry	2006 - 2010	SSE	150°
2007	99.08%	1.13%	8.43	NW	S	0.92%	2.05%	Average	Yes	S	180°
2008	99.95%	1.35%	8.15	NW	NNW	0.05%	1.40%	Average		SSW	210°
2009	99.69%	0.72%	7.78	NW	NNW	0.31%	1.03%	Average	Lat. (N)	SW	225°
2010	99.59%	1.24%	7.61	WNW	SE	0.41%	1.65%	Wet	46.898	WSW	240°
2000 - 2010	95.41%	10.04%	7.87	NW	SSE	4.59%	14.63%		Lon. (W)	W	270°
2000 - 2004	94.58%	8.13%	8.11			5.42%	13.55%		-95.071	WNW	300°
2001 - 2005	94.87%	8.49%	8.14			5.13%	13.62%			NW	315°
2002 - 2006	96.25%	8.53%	8.11			3.75%	12.28%		Elev. (m)	NNW	330°
2003 - 2007	97.12%	7.11%	8.14			2.88%	9.99%		439.0		
2004 - 2008	98.31%	5.58%	8.17			1.69%	7.27%				
2005 - 2009	98.98%	3.98%	8.08			1.02%	4.99%		Last Updated:		
2006 - 2010	99.51%	1.85%	8.05			0.49%	2.34%		08/19/2011		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	Yes	Yes	Yes	Yes	No	Yes	No	
2001	Yes	Yes	Yes	Yes	Yes	Yes	No	
2002	Yes	Yes	Yes	Yes	Yes	Yes	No	
2003	Yes	Yes	Yes	Yes	Yes	Yes	No	
2004	Yes	Yes	Yes	Yes	Yes	Yes	No	
2005	Yes	Yes	Yes	Yes	No	Yes	No	
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable

AERMET Ver.:  
11059

AERMINUTE?  
Yes

71	0	PQN	Pipestone	726566	04965	Pipestone	MN	AWOS IIIIP			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	83.91%	17.01%	7.69	SSE	NW	16.09%	33.10%		In Use:	NNE	30°
2001	87.12%	9.32%	8.42	S	SSE	12.88%	22.20%		NA	NE	45°
2002	95.97%	12.42%	8.30	S	WNW	4.03%	16.45%			ENE	60°
2003	97.89%	19.30%	7.67	SSW	S	2.11%	21.41%		Most Recent	E	90°
2004	98.96%	10.01%	8.44	S	SSW	1.04%	11.05%		Useable:	ESE	120°
2005	98.32%	14.75%	7.98	S	SSW	1.68%	16.43%		Not Useable	SE	135°
2006	98.80%	26.61%	7.19	S	NNW	1.20%	27.81%		NA	SSE	150°
2007	89.67%	8.75%	8.72	SSW	S	10.33%	19.08%		No	S	180°
2008	93.80%	20.79%	7.86	S	NNW	6.20%	26.99%			SSW	210°
2009									Lat. (N)	SW	225°
2010									43.983	WSW	240°
2000 - 2010	93.83%	15.54%	8.02	S	SSW	6.17%	21.71%		Lon. (W)	W	270°
2000 - 2004	92.77%	13.61%	8.10			7.23%	20.84%		-96.300	WNW	300°
2001 - 2005	95.65%	13.16%	8.16			4.35%	17.51%			NW	315°
2002 - 2006	97.99%	16.62%	7.92			2.01%	18.63%		Elev. (m)	NNW	330°
2003 - 2007	96.73%	15.88%	8.00			3.27%	19.16%		527.0		
2004 - 2008	95.91%	16.18%	8.04			4.09%	20.27%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	Yes	Yes	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	No	No	Yes	No		No		
2004	Yes	Yes	Yes	Yes	No	Yes	No				
2005	Yes	Yes	Yes	Yes	No	Yes	No				
2006	Yes	No	No	No	No	No	No				
2007	No	Yes	Yes	Yes	Yes	Yes	No				
2008	Yes	Yes	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	Yes	Yes	No	No	No	No	Not Useable			
2001 - 2005	No	Yes	Yes	No	No	Yes	No	Not Useable			
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable			
2003 - 2007	No	No	No	No	No	No	No	Not Useable			
2004 - 2008	No	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

72	0	PWC	Pine River	727508	54915	Cass	MN	AWOS IIIIP			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	92.05%	28.88%	4.84	SE	NW	7.95%	36.83%		In Use:	NNE	30°
2001	79.98%	11.02%	6.19	SSE	NW	20.02%	31.04%		NA	NE	45°
2002	94.78%	23.79%	5.42	SSE	NNW	5.22%	29.01%			ENE	60°
2003	98.53%	25.21%	5.29	SSE	NW	1.47%	26.68%		Most Recent	E	90°
2004	99.09%	23.97%	5.46	SSE	NW	0.91%	24.88%		Useable:	ESE	120°
2005	97.75%	27.53%	5.08	SSE	SE	2.25%	29.78%		Not Useable	SE	135°
2006	98.88%	23.90%	5.36	NW	SSE	1.12%	25.02%		2002 - 2006	SSE	150°
2007	98.49%	28.63%	5.16	SSE	NW	1.51%	30.14%		No	S	180°
2008	98.34%	39.56%	4.41	SSE	NW	1.66%	41.22%			SSW	210°
2009									Lat. (N)	SW	225°
2010									46.725	WSW	240°
2000 - 2010	95.32%	26.13%	5.23	SSE	NW	4.68%	30.81%		Lon. (W)	W	270°
2000 - 2004	92.89%	22.57%	5.44			7.11%	29.69%		-94.383	WNW	300°
2001 - 2005	94.03%	22.30%	5.49			5.97%	28.28%			NW	315°
2002 - 2006	97.81%	24.88%	5.32			2.19%	27.07%		Elev. (m)	NNW	330°
2003 - 2007	98.55%	25.85%	5.27			1.45%	27.30%		394.0		
2004 - 2008	98.51%	28.72%	5.09			1.49%	30.21%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	No	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	No	No	No				
2002	Yes	Yes	No	No	No	No	No		AERMINUTE?		
2003	Yes	No	No	No	No	No	No		No		
2004	Yes	Yes	No	No	No	Yes	No				
2005	Yes	No	No	No	No	No	No				
2006	Yes	Yes	No	No	No	No	No				
2007	Yes	No	No	No	No	No	No				
2008	Yes	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

73	0	RGK	Red Wing	726564	04967	Goodhue (Pierce)	WI	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	84.11%	23.21%	5.55	WNW	SE	15.89%	39.10%	Average	In Use:	NNE 30°
2001	81.20%	8.80%	6.43	SE	WNW	18.80%	27.60%	Average	2004 - 2008	NE 45°
2002	94.46%	22.94%	5.56	WNW	W	5.54%	28.48%	Average		ENE 60°
2003	97.93%	23.73%	5.33	WNW	SE	2.07%	25.80%	Average	Most Recent	E 90°
2004	98.98%	22.96%	5.52	SE	WNW	1.02%	23.98%	Average	Useable:	ESE 120°
2005	98.68%	24.34%	5.14	SE	ESE	1.32%	25.66%	Average	Not Useable	SE 135°
2006	99.10%	22.29%	5.40	SE	WNW	0.90%	23.19%	Average	2003 - 2007	SSE 150°
2007	98.78%	21.76%	5.69	SE	WNW	1.22%	22.98%	Average	No	S 180°
2008	97.77%	23.64%	5.37	SE	WNW	2.23%	25.87%	Average		SSW 210°
2009								Average	Lat. (N)	SW 225°
2010								Average	44.591	WSW 240°
2000 - 2010	84.55%	21.74%	5.54	SE	WNW	15.45%	37.19%		Lon. (W)	W 270°
2000 - 2004	91.34%	20.33%	5.68			8.66%	28.99%		-92.501	WNW 300°
2001 - 2005	94.25%	20.55%	5.60			5.75%	26.30%			NW 315°
2002 - 2006	97.83%	23.25%	5.39			2.17%	25.42%		Elev. (m)	NNW 330°
2003 - 2007	98.69%	23.02%	5.42			1.31%	24.32%		234.0	
2004 - 2008	98.66%	23.00%	5.42			1.34%	24.34%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	No	No	No	No	No		06341
2001	No	Yes	Yes	Yes	Yes	No	No		
2002	Yes	Yes	No	No	No	No	No		AERMINUTE?
2003	Yes	Yes	No	No	No	No	No		No
2004	Yes	Yes	No	No	No	Yes	No		
2005	Yes	Yes	No	No	No	No	No		
2006	Yes	Yes	No	No	No	Yes	No		
2007	Yes	Yes	No	No	No	Yes	No		
2008	Yes	Yes	No	No	No	No	No		
2009	No	No	No	No	No	No	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	Yes	No	No	No	No	No	Not Useable	
2001 - 2005	No	Yes	No	No	No	No	No	Not Useable	
2002 - 2006	Yes	Yes	No	No	No	No	No	Not Useable	
2003 - 2007	Yes	Yes	No	No	No	No	No	Not Useable	
2004 - 2008	Yes	Yes	No	No	No	No	No	Not Useable	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

74	0	ROS	Rush City	726679	04969	Chisago	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	No Data Available								In Use:	NNE 30°
2001	24.58%	0.00%	7.32	NE	NNE	75.42%	75.42%		2004 - 2008	NE 45°
2002	85.14%	16.68%	5.92	W	S	14.86%	31.54%			ENE 60°
2003	93.46%	17.30%	5.65	SSE	S	6.54%	23.84%		Most Recent	E 90°
2004	99.09%	17.70%	5.58	SSE	NE	0.91%	18.61%		Useable:	ESE 120°
2005	99.30%	19.51%	5.17	SSE	S	0.70%	20.21%		Caution	SE 135°
2006	98.90%	18.86%	5.33	SSE	W	1.10%	19.96%		2003 - 2007	SSE 150°
2007	98.92%	18.34%	5.63	SSE	S	1.08%	19.42%		No	S 180°
2008	95.75%	20.83%	5.25	SSE	W	4.25%	25.08%		Lat. (N)	SSW 210°
2009									45.701	SW 225°
2010										WSW 240°
2000 - 2010	86.90%	17.84%	5.56	SSE	S	13.10%	30.94%		Lon. (W)	W 270°
2000 - 2004	NA	NA	NA			NA	NA		-92.952	WNW 300°
2001 - 2005	80.31%	14.24%	5.93			19.69%	33.92%			NW 315°
2002 - 2006	95.18%	18.01%	5.53			4.82%	22.83%		Elev. (m)	NNW 330°
2003 - 2007	97.93%	18.34%	5.47			2.07%	20.41%		282.0	
2004 - 2008	98.39%	19.05%	5.39			1.61%	20.66%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	No	No	No	No	No	No	No	
2001	No	Yes	Yes	Yes	Yes	No	No	
2002	No	Yes	Yes	No	No	No	No	
2003	Yes	Yes	Yes	No	No	Yes	No	
2004	Yes	Yes	Yes	No	No	Yes	No	
2005	Yes	Yes	Yes	No	No	Yes	No	
2006	Yes	Yes	Yes	No	No	Yes	No	
2007	Yes	Yes	Yes	No	No	Yes	No	
2008	Yes	Yes	No	No	No	No	No	
2009	No	No	No	No	No	No	No	
2010	No	No	No	No	No	No	No	
2000 - 2004	No	No	No	No	No	No	No	Not Useable
2001 - 2005	No	Yes	Yes	No	No	No	No	Not Useable
2002 - 2006	No	Yes	Yes	No	No	No	No	Not Useable
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution
2004 - 2008	Yes	Yes	No	No	No	No	No	Not Useable
2005 - 2009	No	No	No	No	No	No	No	Not Useable
2006 - 2010	No	No	No	No	No	No	No	Not Useable

AERMET Ver.:  
06341

AERMINUTE?  
No

75	0	ROX	Roseau	727477	04970	Roseau	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	77.46%	12.05%	7.41	S	W	22.54%	34.59%		In Use:	NNE 30°
2001	89.09%	14.01%	7.11	S	W	10.91%	24.92%		2004 - 2008	NE 45°
2002	96.66%	9.01%	7.55	W	S	3.34%	12.35%			ENE 60°
2003	96.50%	10.93%	7.20	S	WNW	3.50%	14.43%		Most Recent	E 90°
2004	97.18%	13.67%	7.53	S	WNW	2.82%	16.49%		Useable:	ESE 120°
2005	99.58%	15.53%	7.18	WNW	S	0.42%	15.95%		Caution	SE 135°
2006	97.51%	13.33%	6.92	WNW	S	2.49%	15.82%		2004 - 2008	SSE 150°
2007	98.82%	11.29%	7.63	WNW	W	1.18%	12.47%		Need 2010	S 180°
2008	97.22%	12.14%	7.39	WNW	S	2.78%	14.92%			SSW 210°
2009									Lat. (N)	SW 225°
2010									48.856	WSW 240°
2000 - 2010	94.44%	12.45%	7.32	S	W	5.56%	18.01%		Lon. (W)	W 270°
2000 - 2004	91.38%	11.93%	7.36			8.62%	20.56%		-95.695	WNW 300°
2001 - 2005	95.80%	12.63%	7.31			4.20%	16.83%			NW 315°
2002 - 2006	97.49%	12.49%	7.28			2.51%	15.01%		Elev. (m)	NNW 330°
2003 - 2007	97.92%	12.95%	7.29			2.08%	15.03%		320.0	
2004 - 2008	98.06%	13.19%	7.33			1.94%	15.13%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	No	Yes	Yes	Yes	No	No	No		06341
2001	No	Yes	Yes	Yes	No	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	No	Yes	No		No
2004	Yes	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	No	No	Yes	No		
2006	Yes	Yes	Yes	Yes	No	Yes	No		
2007	Yes	Yes	Yes	Yes	No	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	No	No	No	No	No	No	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	No	Yes	Yes	Yes	No	No	No	Not Useable	
2001 - 2005	No	Yes	Yes	No	No	Yes	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	No	No	Yes	No	Caution	
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution	
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution	
2005 - 2009	No	No	No	No	No	No	No	Not Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	



76	0	RRT	Warroad	726548	04971	Roseau	MN	AWOS IIIP/T		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	95.77%	10.47%	7.00	SSW	SW	4.23%	14.70%	Wet	In Use:	NNE 30°
2001	90.08%	4.17%	7.55	SW	SSW	9.92%	14.09%	Wet	2004 - 2008	NE 45°
2002	94.47%	9.34%	7.10	WSW	SW	5.53%	14.87%	Wet		ENE 60°
2003	96.92%	11.50%	6.70	NW	SW	3.08%	14.58%	Average	Most Recent	E 90°
2004	98.88%	11.01%	7.22	NW	SW	1.12%	12.13%	Wet	Useable:	ESE 120°
2005	99.29%	11.36%	7.05	SW	W	0.71%	12.07%	Wet	Useable:	SE 135°
2006	99.16%	11.31%	6.88	NW	W	0.84%	12.15%	Dry	2005 - 2009	SSE 150°
2007	97.80%	11.92%	7.24	SW	NW	2.20%	14.12%	Wet	Need 2010	S 180°
2008	97.10%	11.80%	6.93	SW	WSW	2.90%	14.70%	Wet		SSW 210°
2009	99.42%	13.08%	6.57	WNW	SW	0.58%	13.66%	Wet	Lat. (N)	SW 225°
2010								Wet	48.941	WSW 240°
2000 - 2010	96.89%	10.66%	7.02	SW	NW	3.11%	13.77%		Lon. (W)	W 270°
2000 - 2004	95.22%	9.30%	7.11			4.78%	14.07%		-95.344	WNW 300°
2001 - 2005	95.93%	9.48%	7.12			4.07%	13.55%			NW 315°
2002 - 2006	97.74%	10.90%	6.99			2.26%	13.16%		Elev. (m)	NNW 330°
2003 - 2007	98.41%	11.42%	7.02			1.59%	13.01%		326.0	
2004 - 2008	98.45%	11.48%	7.06			1.55%	13.03%			
2005 - 2009	98.55%	11.89%	6.93			1.45%	13.34%		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	No	Yes	No		06341
2001	Yes	Yes	Yes	Yes	Yes	Yes	No		
2002	Yes	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	Yes	No	Yes	No		No
2004	Yes	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	Yes	No	Yes	No		
2006	Yes	Yes	Yes	Yes	No	Yes	No		
2007	Yes	Yes	Yes	Yes	No	Yes	No		
2008	Yes	Yes	Yes	Yes	No	Yes	No		
2009	Yes	Yes	Yes	Yes	No	Yes	No		
2010	No	No	No	No	No	No	No		
2000 - 2004	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable	
2006 - 2010	No	No	No	No	No	No	No	Not Useable	

77	72644	RST	Rochester	726440	14925	Olmsted	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	98.90%	2.22%	10.12	SSW	NW	1.10%	3.32%	Wet	In Use:	NNE 30°
2001	98.97%	2.10%	10.16	NW	SSW	1.03%	3.13%	Wet	2000 - 2004	NE 45°
2002	98.08%	2.35%	10.28	S	SSW	1.92%	4.27%	Average		ENE 60°
2003	98.47%	2.08%	10.42	WNW	NW	1.53%	3.61%	Dry	Most Recent	E 90°
2004	98.74%	3.55%	10.00	S	NW	1.26%	4.81%	Wet	Useable:	ESE 120°
2005	98.71%	3.01%	9.82	S	NW	1.29%	4.30%	Average	Useable:	SE 135°
2006	99.77%	0.56%	10.44	NW	S	0.23%	0.79%	Average	2006 - 2010	SSE 150°
2007	99.75%	0.73%	10.70	S	NW	0.25%	0.98%	Wet	Yes	S 180°
2008	99.93%	0.07%	9.94	S	SSE	0.07%	0.14%	Average		SSW 210°
2009	99.85%	0.06%	9.81	NW	S	0.15%	0.21%	Average	Lat. (N)	SW 225°
2010	99.92%	0.16%	9.50	NW	S	0.08%	0.24%	Wet	43.904	WSW 240°
2000 - 2010	98.17%	2.91%	10.00	S	NW	1.83%	4.74%		Lon. (W)	W 270°
2000 - 2004	98.63%	2.46%	10.20			1.37%	3.83%		-92.492	WNW 300°
2001 - 2005	98.59%	2.62%	10.14			1.41%	4.02%			NW 315°
2002 - 2006	98.75%	2.31%	10.19			1.25%	3.56%		Elev. (m)	NNW 330°
2003 - 2007	99.09%	1.99%	10.28			0.91%	2.90%		396.0	
2004 - 2008	99.38%	1.58%	10.18			0.62%	2.20%			
2005 - 2009	99.60%	0.89%	10.14			0.40%	1.28%		Last Updated:	
2006 - 2010	99.84%	0.32%	10.08			0.16%	0.47%		05/12/2011	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	11059
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes	AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable

78	0	RWF	Redwood Falls	726556	14992	Redwood	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	95.74%	8.93%	8.50	NW	SE	4.26%	13.19%	Average	In Use:	NNE 30°
2001	96.78%	6.13%	8.65	NW	WNW	3.22%	9.35%	Average	2004 - 2008	NE 45°
2002	97.41%	5.34%	8.95	NW	WNW	2.59%	7.93%	Average		ENE 60°
2003	96.36%	5.50%	8.81	NW	WNW	3.64%	9.14%	Dry	Most Recent	E 90°
2004	96.81%	5.29%	8.88	NW	SE	3.19%	8.48%	Wet	Useable:	ESE 120°
2005	97.41%	6.19%	8.59	NW	SE	2.59%	8.78%	Wet	Useable:	SE 135°
2006	98.97%	0.49%	8.68	NW	WNW	1.03%	1.52%	Average	2006 - 2010	SSE 150°
2007	99.76%	0.25%	9.28	NW	SSE	0.24%	0.49%	Average	Yes	S 180°
2008	99.86%	0.20%	8.91	NW	SSE	0.14%	0.34%	Average		SSW 210°
2009	99.81%	0.21%	8.48	NW	SSE	0.19%	0.40%	Average	Lat. (N)	SW 225°
2010	99.92%	0.18%	8.46	NW	WNW	0.08%	0.26%	Wet	44.548	WSW 240°
2000 - 2010	96.60%	6.74%	8.58	NW	WNW	3.40%	10.14%		Lon. (W)	W 270°
2000 - 2004	96.62%	6.24%	8.76			3.38%	9.62%		-95.080	WNW 300°
2001 - 2005	96.95%	5.69%	8.78			3.05%	8.74%			NW 315°
2002 - 2006	97.39%	4.56%	8.78			2.61%	7.17%		Elev. (m)	NNW 330°
2003 - 2007	97.86%	3.54%	8.85			2.14%	5.68%		311.0	
2004 - 2008	98.56%	2.48%	8.87			1.44%	3.92%			
2005 - 2009	99.16%	1.47%	8.79			0.84%	2.31%		Last Updated:	
2006 - 2010	99.66%	0.27%	8.76			0.34%	0.60%		06/22/2011	

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	No		11059
2001	Yes	Yes	Yes	Yes	Yes	Yes		
2002	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes		Yes
2004	Yes	Yes	Yes	Yes	Yes	Yes		
2005	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes		
2009	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	Yes		
2000 - 2004	Yes	Yes	Yes	Yes	Yes	No	Useable	
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Useable	

79	0	SAZ	Staples	727514	54910	Wadena	MN	AWOS IIIIP		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	92.16%	20.77%	6.03	WNW	NW	7.84%	28.61%		In Use:	NNE 30°
2001	84.04%	6.28%	7.21	WNW	S	15.96%	22.24%		2004 - 2008	NE 45°
2002	95.79%	16.53%	6.55	WNW	W	4.21%	20.74%		Most Recent	ENE 60°
2003	97.99%	18.16%	6.37	WNW	SSE	2.01%	20.17%		Useable:	E 90°
2004	99.02%	17.20%	6.48	NW	S	0.98%	18.18%		Not Useable	ESE 120°
2005	99.52%	20.08%	6.09	WNW	SSE	0.48%	20.56%		2003 - 2007	SE 135°
2006	99.16%	19.56%	6.04	WNW	NW	0.84%	20.40%		Need 2010	SSE 150°
2007	98.53%	16.53%	6.60	WNW	S	1.47%	18.00%			S 180°
2008	98.42%	20.09%	6.29	WNW	NW	1.58%	21.67%		Lat. (N)	SSW 210°
2009									46.382	SW 225°
2010										WSW 240°
2000 - 2010	96.07%	17.41%	6.39	WNW	NW	3.93%	21.34%		Lon. (W)	W 270°
2000 - 2004	93.80%	15.79%	6.53			6.20%	21.99%		-94.801	WNW 300°
2001 - 2005	95.27%	15.65%	6.54			4.73%	20.38%			NW 315°
2002 - 2006	98.30%	18.31%	6.31			1.70%	20.01%		Elev. (m)	NNW 330°
2003 - 2007	98.84%	18.31%	6.32			1.16%	19.46%		391.0	
2004 - 2008	98.93%	18.69%	6.30			1.07%	19.76%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	Yes	Yes	No	No	No	No	No		06341	
2001	No	Yes	Yes	Yes	Yes	Yes	No			
2002	Yes	Yes	Yes	No	No	Yes	No		AERMINUTE?	
2003	Yes	Yes	Yes	No	No	Yes	No		No	
2004	Yes	Yes	Yes	No	No	Yes	No			
2005	Yes	Yes	No	No	No	Yes	No			
2006	Yes	Yes	Yes	No	No	Yes	No			
2007	Yes	Yes	Yes	No	No	Yes	No			
2008	Yes	Yes	No	No	No	Yes	No			
2009	No	No	No	No	No	No	No			
2010	No	No	No	No	No	No	No			
2000 - 2004	No	Yes	No	No	No	No	No	Not Useable		
2001 - 2005	No	Yes	No	No	No	Yes	No	Not Useable		
2002 - 2006	Yes	Yes	No	No	No	Yes	No	Not Useable		
2003 - 2007	Yes	Yes	No	No	No	Yes	No	Not Useable		
2004 - 2008	Yes	Yes	No	No	No	Yes	No	Not Useable		
2005 - 2009	No	No	No	No	No	No	No	Not Useable		
2006 - 2010	No	No	No	No	No	No	No	Not Useable		

80	0	SGS	South St. Paul	726603	04974	Dakota	MN	AWOS IIIP/T			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	92.04%	24.11%	5.07	SE	SSE	7.96%	32.07%		In Use:	NNE	30°
2001	78.47%	8.95%	5.93	SSE	SE	21.53%	30.48%		NA	NE	45°
2002	93.50%	28.71%	4.89	SSE	W	6.50%	35.21%			ENE	60°
2003	97.21%	24.85%	5.00	SSE	SE	2.79%	27.64%		Most Recent	E	90°
2004	97.72%	22.83%	5.16	SSE	SE	2.28%	25.11%		Useable:	ESE	120°
2005	99.46%	25.38%	4.78	SE	SSE	0.54%	25.92%		Not Useable	SE	135°
2006	94.74%	23.15%	5.16	SSE	SE	5.26%	28.41%		2004 - 2008	SSE	150°
2007	98.80%	18.44%	5.88	SSE	NW	1.20%	19.64%		No	S	180°
2008	98.35%	20.55%	5.52	SSE	NW	1.65%	22.20%		Lat. (N)	SSW	210°
2009									44.856	SW	225°
2010										WSW	240°
2000 - 2010	94.48%	22.12%	5.25	SSE	SE	5.52%	27.64%		Lon. (W)	W	270°
2000 - 2004	91.79%	21.89%	5.21			8.21%	30.10%		-93.035	WNW	300°
2001 - 2005	93.27%	22.14%	5.15			6.73%	28.87%			NW	315°
2002 - 2006	96.53%	24.98%	5.00			3.47%	28.46%		Elev. (m)	NNW	330°
2003 - 2007	97.59%	22.93%	5.20			2.41%	25.34%		249.0		
2004 - 2008	97.81%	22.07%	5.30			2.19%	24.26%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	Yes	Yes	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	Yes	No	No				
2002	Yes	No	No	No	No	No	No		AERMINUTE?		
2003	Yes	Yes	No	No	No	No	No		No		
2004	Yes	Yes	No	No	No	No	No				
2005	Yes	No	No	No	No	No	No				
2006	Yes	Yes	No	No	No	No	No				
2007	Yes	Yes	Yes	No	No	Yes	No				
2008	Yes	Yes	No	No	No	Yes	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

81	0	STC	St. Cloud	726550	14926	Sherburne	MN	ASOS		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	96.82%	11.59%	7.32	NW	NNW	3.18%	14.77%	Dry	In Use:	NNE 30°
2001	98.03%	11.12%	7.55	NW	S	1.97%	13.09%	Average	2000 - 2004	NE 45°
2002	97.71%	11.15%	7.67	NW	SSE	2.29%	13.44%	Wet		ENE 60°
2003	97.24%	11.69%	7.70	NW	SSE	2.76%	14.45%	Average	Most Recent	E 90°
2004	97.37%	11.19%	7.69	NW	SSE	2.63%	13.82%	Average	Useable:	ESE 120°
2005	97.42%	12.39%	7.24	NW	SSE	2.58%	14.97%	Wet	Useable:	SE 135°
2006	99.58%	3.41%	7.68	NW	NNW	0.42%	3.83%	Average	2006 - 2010	SSE 150°
2007	99.65%	1.03%	7.99	NW	S	0.35%	1.38%	Average	Yes	S 180°
2008	99.70%	1.34%	7.72	NW	SSE	0.30%	1.64%	Average		SSW 210°
2009	99.83%	1.02%	7.31	NW	NNW	0.17%	1.19%	Average	Lat. (N)	SW 225°
2010	99.95%	1.02%	7.16	NW	NNW	0.05%	1.07%	Wet	45.544	WSW 240°
2000 - 2010	97.12%	12.79%	7.36	NW	SSE	2.88%	15.67%		Lon. (W)	W 270°
2000 - 2004	97.43%	11.35%	7.59			2.57%	13.91%		-94.052	WNW 300°
2001 - 2005	97.55%	11.51%	7.57			2.45%	13.95%			NW 315°
2002 - 2006	97.86%	9.97%	7.60			2.14%	12.10%		Elev. (m)	NNW 330°
2003 - 2007	98.25%	7.94%	7.66			1.75%	9.69%		310.0	
2004 - 2008	98.74%	5.87%	7.66			1.26%	7.13%			
2005 - 2009	99.24%	3.84%	7.59			0.76%	4.60%		Last Updated:	
2006 - 2010	99.74%	1.56%	7.57			0.26%	1.82%		06/22/2011	
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:	
2000	Yes	Yes	Yes	Yes	No	Yes	No		11059	
2001	Yes	Yes	Yes	Yes	No	Yes	No			
2002	Yes	Yes	Yes	Yes	No	Yes	No		AERMINUTE?	
2003	Yes	Yes	Yes	Yes	No	Yes	No		Yes	
2004	Yes	Yes	Yes	Yes	No	Yes	No			
2005	Yes	Yes	Yes	Yes	No	Yes	No			
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2008	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
2000 - 2004	Yes	Yes	Yes	Yes	No	Yes	No	Useable		
2001 - 2005	Yes	Yes	Yes	Yes	No	Yes	No	Useable		
2002 - 2006	Yes	Yes	Yes	Yes	No	Yes	No	Useable		
2003 - 2007	Yes	Yes	Yes	Yes	No	Yes	No	Useable		
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable		
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable		
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Useable		

82	0	STP	Saint Paul Downtown Arpt	726584	14927	Ramsey	MN	ASOS			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	95.21%	12.27%	7.42	SSE	NW	4.79%	17.06%	Average	In Use:	NNE	30°
2001	65.87%	4.18%	7.91	SSE	NW	34.13%	38.31%	Average	2004 - 2008	NE	45°
2002	92.67%	12.15%	7.37	SSE	NW	7.33%	19.48%	Wet		ENE	60°
2003	95.49%	13.09%	7.48	SSE	NW	4.51%	17.60%	Average	Most Recent	E	90°
2004	96.13%	12.81%	7.55	SSE	NW	3.87%	16.68%	Average	Useable:	ESE	120°
2005	99.59%	4.67%	7.56	SSE	SE	0.41%	5.08%	Wet	Useable	SE	135°
2006	98.22%	7.17%	7.56	SSE	NW	1.78%	8.95%	Average	2006 - 2010	SSE	150°
2007	99.41%	0.79%	7.93	SSE	SE	0.59%	1.38%	Average	Yes	S	180°
2008	99.90%	1.20%	7.72	SSE	SE	0.10%	1.30%	Average		SSW	210°
2009	99.78%	1.27%	7.68	SE	SSE	0.22%	1.49%	Average	Lat. (N)	SW	225°
2010	99.67%	1.93%	7.19	SE	NW	0.33%	2.26%	Wet	44.931	WSW	240°
2000 - 2010	92.59%	13.31%	7.32	SSE	NW	7.41%	20.72%		Lon. (W)	W	270°
2000 - 2004	89.07%	10.90%	7.55			10.93%	21.83%		-93.054	WNW	300°
2001 - 2005	89.95%	9.38%	7.57			10.05%	19.43%			NW	315°
2002 - 2006	96.42%	9.98%	7.50			3.58%	13.56%		Elev. (m)	NNW	330°
2003 - 2007	97.77%	7.71%	7.62			2.23%	9.94%		212.0		
2004 - 2008	98.65%	5.33%	7.66			1.35%	6.68%				
2005 - 2009	99.38%	3.02%	7.69			0.62%	3.64%		Last Updated:		
2006 - 2010	99.40%	2.47%	7.62			0.60%	3.08%		05/19/2011		

Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	No	Yes	No		11059
2001	No	Yes	Yes	Yes	No	No		
2002	Yes	Yes	Yes	No	Yes	No		AERMINUTE?
2003	Yes	Yes	Yes	No	Yes	No		Yes
2004	Yes	Yes	Yes	No	Yes	No		
2005	Yes	Yes	Yes	Yes	Yes	Yes		
2006	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes		
2008	Yes	Yes	Yes	Yes	Yes	Yes		
2009	Yes	Yes	Yes	Yes	Yes	Yes		
2010	Yes	Yes	Yes	Yes	Yes	Yes		
2000 - 2004	No	Yes	Yes	No	No	No	Not Useable	
2001 - 2005	No	Yes	Yes	No	No	No	Not Useable	
2002 - 2006	Yes	Yes	Yes	No	Yes	No	Useable	
2003 - 2007	Yes	Yes	Yes	No	Yes	No	Useable	
2004 - 2008	Yes	Yes	Yes	No	Yes	No	Useable	
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	Useable	
2006 - 2010	Yes	Yes	Yes	Yes	Yes	Yes	Useable	

83	0	SUW	Superior	726427	54908	Douglas	WI	AWOS IIIIP		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000								Average	In Use:	NNE 30°
2001								Average	NA	NE 45°
2002								Average		ENE 60°
2003								Average	Most Recent	E 90°
2004								Average	Useable:	ESE 120°
2005								Average	Not Useable	SE 135°
2006	99.19%	19.41%	5.92	ENE	SW	0.81%	20.22%	Average	2006 - 2010	SSE 150°
2007	96.78%	19.52%	6.12	SW	ENE	3.22%	22.74%	Average	No	S 180°
2008	98.80%	20.32%	6.01	SW	ENE	1.20%	21.52%	Average		SSW 210°
2009	97.90%	20.02%	5.91	SW	NE	2.10%	22.12%	Average	Lat. (N)	SW 225°
2010	98.05%	21.88%	5.68	NE	ENE	1.95%	23.83%	Average	46.683	WSW 240°
2000 - 2010									Lon. (W)	W 270°
2000 - 2004	NA	NA	NA			NA	NA		-92.093	WNW 300°
2001 - 2005	NA	NA	NA			NA	NA			NW 315°
2002 - 2006	NA	NA	NA			NA	NA		Elev. (m)	NNW 330°
2003 - 2007	NA	NA	NA			NA	NA		204.0	
2004 - 2008	NA	NA	NA			NA	NA			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	98.14%	20.23%	5.93			1.86%	22.09%		10/19/2011	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	No	No	No	No	No	No	No	AERMET Ver.: 11059
2001	No	No	No	No	No	No	No	
2002	No	No	No	No	No	No	No	AERMINUTE?
2003	No	No	No	No	No	No	No	No
2004	No	No	No	No	No	No	No	
2005	No	No	No	No	No	No	No	
2006	Yes	Yes	Yes	No	No	Yes	No	Not Useable
2007	Yes	Yes	Yes	No	No	Yes	No	Not Useable
2008	Yes	Yes	No	No	No	Yes	No	Not Useable
2009	Yes	Yes	No	No	No	Yes	No	Not Useable
2010	Yes	Yes	No	No	No	Yes	No	Not Useable
2000 - 2004	No	No	No	No	No	No	No	Not Useable
2001 - 2005	No	No	No	No	No	No	No	Not Useable
2002 - 2006	No	No	No	No	No	No	No	Not Useable
2003 - 2007	No	No	No	No	No	No	No	Not Useable
2004 - 2008	No	No	No	No	No	No	No	Not Useable
2005 - 2009	No	No	No	No	No	No	No	Not Useable
2006 - 2010	Yes	Yes	No	No	No	Yes	No	Not Useable



84	0	TVE	Thief River Falls	727555	94956	Pennington	MN	AWOS III			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	98.12%	8.23%	8.16	SSW	S	1.88%	10.11%		In Use:	NNE	30°
2001	93.15%	2.41%	8.82	SSW	NW	6.85%	9.26%		2004 - 2008	NE	45°
2002	97.19%	6.89%	8.51	SSW	NW	2.81%	9.70%			ENE	60°
2003	94.74%	7.59%	8.62	NW	SSE	5.26%	12.85%		Most Recent	E	90°
2004	90.98%	6.04%	9.69	NW	S	9.02%	15.06%		Useable:	ESE	120°
2005	97.93%	5.49%	9.32	NW	S	2.07%	7.56%		Useable	SE	135°
2006	96.32%	5.59%	9.24	NW	SSE	3.68%	9.27%		2005 - 2009	SSE	150°
2007	93.11%	6.13%	9.35	NW	SSW	6.89%	13.02%		No	S	180°
2008	95.78%	6.38%	9.21	NW	S	4.22%	10.60%			SSW	210°
2009	98.64%	7.45%	8.55	NW	S	1.36%	8.81%		Lat. (N)	SW	225°
2010									48.066	WSW	240°
2000 - 2010	95.60%	6.24%	8.94	NW	S	4.40%	10.64%		Lon. (W)	W	270°
2000 - 2004	94.84%	6.23%	8.76			5.16%	11.40%		-96.183	WNW	300°
2001 - 2005	94.80%	5.68%	8.99			5.20%	10.89%			NW	315°
2002 - 2006	95.43%	6.32%	9.08			4.57%	10.89%		Elev. (m)	NNW	330°
2003 - 2007	94.62%	6.17%	9.24			5.38%	11.55%		338.0		
2004 - 2008	94.82%	5.93%	9.36			5.18%	11.10%				
2005 - 2009	96.36%	6.21%	9.13			3.64%	9.85%		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:
2000	Yes	Yes	Yes	Yes	Yes	Yes	No		06341
2001	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2002	Yes	Yes	Yes	Yes	Yes	Yes	Yes		AERMINUTE?
2003	Yes	Yes	Yes	Yes	Yes	Yes	No		No
2004	Yes	Yes	Yes	Yes	Yes	Yes	No		
2005	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Cannot locate station from GIS imagery
2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2007	Yes	Yes	Yes	Yes	Yes	Yes	No		
2008	Yes	Yes	Yes	Yes	Yes	Yes	No		
2009	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
2010	No	No	No	No	No	No	No		
2000 - 2004	Yes	Yes	Yes	Yes	Yes	Yes	No		Useable
2001 - 2005	Yes	Yes	Yes	Yes	Yes	Yes	No		Useable
2002 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	No		Useable
2003 - 2007	Yes	Yes	Yes	Yes	Yes	Yes	No		Useable
2004 - 2008	Yes	Yes	Yes	Yes	Yes	Yes	No		Useable
2005 - 2009	Yes	Yes	Yes	Yes	Yes	Yes	No		Useable
2006 - 2010	No	No	No	No	No	No	No		Not Useable

85	0	ULM	New Ulm Municipal Arprt	726567	04980	Brown	MN	AWOS IIIIP		
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N 0°/360°
2000	80.70%	9.28%	8.37	NW	SSE	19.30%	28.58%		In Use:	NNE 30°
2001	86.80%	4.08%	8.76	SSE	WNW	13.20%	17.28%		2002 - 2006	NE 45°
2002	96.82%	8.50%	8.42	NW	SSE	3.18%	11.68%			ENE 60°
2003	97.36%	9.51%	8.29	NW	SSE	2.64%	12.15%		Most Recent	E 90°
2004	98.94%	8.89%	8.44	NW	SSE	1.06%	9.95%		Useable:	ESE 120°
2005	99.21%	16.96%	7.54	NW	SSE	0.79%	17.75%		Caution	SE 135°
2006	98.14%	13.35%	7.60	NW	SSE	1.86%	15.21%		2004 - 2008	SSE 150°
2007	98.84%	10.66%	8.29	NW	SSE	1.16%	11.82%		Need 2010	S 180°
2008	97.88%	12.72%	7.90	NW	SSE	2.12%	14.84%			SSW 210°
2009									Lat. (N)	SW 225°
2010									44.318	WSW 240°
2000 - 2010	94.96%	10.56%	8.17	NW	SSE	5.04%	15.60%		Lon. (W)	W 270°
2000 - 2004	92.12%	8.05%	8.46			7.88%	15.93%		-94.498	WNW 300°
2001 - 2005	95.83%	9.59%	8.29			4.17%	13.76%			NW 315°
2002 - 2006	98.09%	11.44%	8.06			1.91%	13.35%		Elev. (m)	NNW 330°
2003 - 2007	98.50%	11.87%	8.03			1.50%	13.38%		308.0	
2004 - 2008	98.60%	12.52%	7.95			1.40%	13.91%			
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:	
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010	

	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?
2000	No	Yes	Yes	Yes	Yes	No	No	
2001	No	Yes	Yes	Yes	Yes	Yes	No	
2002	Yes	Yes	Yes	Yes	Yes	Yes	No	
2003	Yes	Yes	Yes	Yes	Yes	Yes	No	
2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2005	Yes	Yes	Yes	No	No	Yes	No	
2006	Yes	Yes	Yes	Yes	No	Yes	No	
2007	Yes	Yes	Yes	Yes	No	Yes	No	
2008	Yes	Yes	Yes	Yes	No	Yes	No	
2009	No	No	No	No	No	No	No	
2010	No	No	No	No	No	No	No	
2000 - 2004	No	Yes	Yes	Yes	Yes	No	No	Not Useable
2001 - 2005	No	Yes	Yes	No	No	Yes	No	Not Useable
2002 - 2006	Yes	Yes	Yes	No	No	Yes	No	Caution
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution
2004 - 2008	Yes	Yes	Yes	No	No	Yes	No	Caution
2005 - 2009	No	No	No	No	No	No	No	Not Useable
2006 - 2010	No	No	No	No	No	No	No	Not Useable

AERMET Ver.:  
06341

AERMINUTE?  
No

86	0	VVV	Ortonville	727515	04982	Big Stone	MN	AWOS IIIA			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	76.35%	10.62%	8.17	NW	SE	23.65%	34.27%		In Use:	NNE	30°
2001	90.48%	4.52%	8.50	NW	SE	9.52%	14.04%		2004 - 2008	NE	45°
2002	96.19%	8.78%	8.25	SE	NW	3.81%	12.59%		Most Recent	ENE	60°
2003	97.95%	17.79%	7.57	NW	NNW	2.05%	19.84%		Useable:	E	90°
2004	97.81%	9.92%	8.18	NNW	SE	2.19%	12.11%		Useable	ESE	120°
2005	99.17%	11.88%	7.81	SE	NW	0.83%	12.71%		2005 - 2009	SE	135°
2006	98.88%	10.32%	7.96	SE	NNW	1.12%	11.44%		No	SSE	150°
2007	97.97%	8.68%	8.29	NNW	SE	2.03%	10.71%		Lat. (N)	S	180°
2008	97.24%	11.59%	8.13	SE	NNW	2.76%	14.35%		45.305	SSW	210°
2009	98.11%	10.83%	7.94	NNW	SE	1.89%	12.72%		Lon. (W)	SW	225°
2010									-96.412	WSW	240°
2000 - 2010	95.01%	10.54%	8.07	SE	NNW	4.99%	15.53%		Elev. (m)	W	270°
2000 - 2004	91.76%	10.33%	8.13			8.24%	18.57%		332.0	WNW	300°
2001 - 2005	96.32%	10.58%	8.06			3.68%	14.26%		Last Updated:	NW	315°
2002 - 2006	98.00%	11.74%	7.95			2.00%	13.74%		06/11/2010	NNW	330°
2003 - 2007	98.36%	11.72%	7.96			1.64%	13.36%				
2004 - 2008	98.21%	10.48%	8.07			1.79%	12.26%				
2005 - 2009	98.27%	10.66%	8.03			1.73%	12.39%				
2006 - 2010	NA	NA	NA			NA	NA				
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	Yes	Yes	Yes	No	No	No		06341		
2001	Yes	Yes	Yes	Yes	Yes	Yes	No				
2002	Yes	Yes	Yes	Yes	Yes	Yes	No		AERMINUTE?		
2003	Yes	Yes	Yes	No	No	Yes	No		No		
2004	Yes	Yes	Yes	Yes	Yes	Yes	No				
2005	Yes	Yes	Yes	Yes	No	Yes	No		Cannot locate station from GIS imagery		
2006	Yes	Yes	Yes	Yes	No	Yes	No				
2007	Yes	Yes	Yes	Yes	Yes	Yes	No				
2008	Yes	Yes	Yes	Yes	No	Yes	No				
2009	Yes	Yes	Yes	Yes	No	Yes	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	Yes	Yes	No	No	No	No	Not Useable			
2001 - 2005	Yes	Yes	Yes	No	No	Yes	No	Caution			
2002 - 2006	Yes	Yes	Yes	No	No	Yes	No	Caution			
2003 - 2007	Yes	Yes	Yes	No	No	Yes	No	Caution			
2004 - 2008	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2005 - 2009	Yes	Yes	Yes	Yes	No	Yes	No	Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

87	0	XVG	Longville	727497	04984	Cass	MN	AWOS IIIIP			
Processed (.SFC)	Data Availability (%)	% Calm Hours	Ave. Wind Speed (knots)	1st Wind Dir.	2nd Wind Dir.	Missing Data (%)	Missing + Calm (%)	Moisture Conditions	Current Years	N	0°/360°
2000	No Data Available								In Use:	NNE	30°
2001	25.26%	0.00%	6.28	WNW	S	74.74%	74.74%		NA	NE	45°
2002	93.18%	28.18%	4.49	WNW	SSE	6.82%	35.00%			ENE	60°
2003	97.76%	31.10%	4.29	WNW	SSE	2.24%	33.34%		Most Recent	E	90°
2004	98.82%	29.82%	4.36	WNW	NW	1.18%	31.00%		Useable:	ESE	120°
2005	98.89%	35.99%	3.93	WNW	SSE	1.11%	37.10%		Not Useable	SE	135°
2006	95.50%	34.21%	3.90	WNW	SSE	4.50%	38.71%		2003 - 2007	SSE	150°
2007	97.55%	30.81%	4.40	WNW	SSE	2.45%	33.26%		No	S	180°
2008	98.14%	33.94%	4.16	WNW	NW	1.86%	35.80%			SSW	210°
2009									Lat. (N)	SW	225°
2010									46.991	WSW	240°
2000 - 2010	88.15%	30.88%	4.29	WNW	SSE	11.85%	42.73%		Lon. (W)	W	270°
2000 - 2004	NA	NA	NA			NA	NA		-94.202	WNW	300°
2001 - 2005	82.78%	25.02%	4.67			17.22%	42.24%			NW	315°
2002 - 2006	96.83%	31.86%	4.19			3.17%	35.03%		Elev. (m)	NNW	330°
2003 - 2007	97.70%	32.39%	4.18			2.30%	34.68%		405.0		
2004 - 2008	97.78%	32.95%	4.15			2.22%	35.17%				
2005 - 2009	NA	NA	NA			NA	NA		Last Updated:		
2006 - 2010	NA	NA	NA			NA	NA		06/11/2010		
	Missing (.SFC)	Calm (≤ 25%)	Calm (<20%)	Calm (≤ 15%)	Calm (≤ 10%)	M + C (≤ 25%)	M + C (≤ 10%)	Classified As?	AERMET Ver.:		
2000	No	No	No	No	No	No	No		06341		
2001	No	Yes	Yes	Yes	Yes	No	No				
2002	Yes	No	No	No	No	No	No		AERMINUTE?		
2003	Yes	No	No	No	No	No	No		No		
2004	Yes	No	No	No	No	No	No				
2005	Yes	No	No	No	No	No	No				
2006	Yes	No	No	No	No	No	No				
2007	Yes	No	No	No	No	No	No				
2008	Yes	No	No	No	No	No	No				
2009	No	No	No	No	No	No	No				
2010	No	No	No	No	No	No	No				
2000 - 2004	No	No	No	No	No	No	No	Not Useable			
2001 - 2005	No	No	No	No	No	No	No	Not Useable			
2002 - 2006	Yes	No	No	No	No	No	No	Not Useable			
2003 - 2007	Yes	No	No	No	No	No	No	Not Useable			
2004 - 2008	Yes	No	No	No	No	No	No	Not Useable			
2005 - 2009	No	No	No	No	No	No	No	Not Useable			
2006 - 2010	No	No	No	No	No	No	No	Not Useable			

CollectedSFCStationsDatabase

03/07/2012

Call Sign	Location	Code	USAF	WBAN	WMO	State	Division	County	NCDC (ASL) Elevation (meters)	NCDC (ASL) Elevation (feet)
ABR	Aberdeen	KABR	726590	14929	72659	SD		Brown	395.3	1297.0
ADC	Wadena	KADC	726561	94997		MN	Central	Otter Tail		
AEL	Albert Lea Mun. Arpt	KAEL	726589	94968		MN	South Central	Freeborn	383.7	1259.0
AIT	Aitkin NDB	KAIT	727504	94999		MN	East Central	Aitkin		
ANE	Minneapolis/Blaine	KANE	726577	94974		MN	East Central	Anoka	278.0	912.0
ATY	Watertown	KATY	726546	14946		SD		Codington	532.8	1748.0
AXN	Alexandria	KAXN	726557	14910		MN	West Central	Douglas	431.6	1416.0
BBB	Benson	KBBB	727507	54904		MN	West Central	Swift		
BDE	Baudette Int'l Arpt	KBDE	727476	94961		MN	North Central	Lake of the Woods	329.8	1082.0
BDH	Willmar	KBDH	720386	14928		MN	Central	Kandiyohi	345.0	1131.9
BFW	Silver Bay	KBFW	727556	04905		MN	Northeast	Lake	331.9	1089.0
BJI	Bemidji	KBJI	727550	14958	72755	MN	North Central	Beltrami	424.3	1392.0
BRD	Brainerd	KBRD	726555	94938		MN	East Central	Crow Wing	372.2	1221.0
CBG	Cambridge	KCBG	727503	04909		MN	East Central	Isanti	288.0	945.0
CKC	Grand Marais Mun. Arpt	KCKC	727454	04911		MN	Northeast	Cook	548.0	1798.0
CKN	Crookston	KCKN	727452	04912		MN	Northwest	Polk	274.0	899.0
COQ	Cloquet	KCOQ	726558	04914		MN	East Central	Carlton		
CQM	Cook	KCQM	726549	54905		MN	Northeast	Saint Louis	404.5	1327.0
DLH	Duluth Int'l Arpt	KDLH	727450	14913	72745	MN	Northeast	Saint Louis	436.8	1433
DTL	Detroit Lakes	KDTL	727457	94962		MN	Northwest	Becker	426.1	1398.0
DVP	Slayton	KDVP	720368	54924		MN	Southwest	Murray		
DYT	Duluth Sky Harbor	KDYT	727456	4919		MN		Saint Louis	185.9	610.0
EAU	Eau Claire	KEAU	726435	14991		WI		Eau Claire	269.7	885
ELO	Ely	KELO	727459	94964		MN	Northeast	Saint Louis	442.9	1453.1
EVM	Eveleth	KEVM	727474	04923		MN	Northeast	Saint Louis	420.9	1380.9
FAR	Fargo Int'l Arpt	KFAR	727530	14914	72753	ND		Cass	274.3	900
FBL	Faribault	KFBL	726563	94969		MN	South Central	Rice		
FCM	Flying Cloud Arpt	KFCM	726579	94963		MN	East Central	Hennepin		
FFM	Fergus Falls	KFFM	726560	94966		MN	West Central	Otter Tail	361.2	1185.0
FGN	Flag Island	KFGN	727467	04926		MN	North Central	Lake of the Woods	329.2	1080.0
FKA	Preston	KFKA	720283	04927		MN	Southeast	Fillmore	388.9	1276.0
FOZ	Bigfork	KFOZ	727468	04928		MN	North Central	Itasca	411.2	1349.0
FRM	Fairmont	KFRM	726586	94948		MN	South Central	Martin	353.9	1161.0
FSD	Sioux Falls	KFSD	726510	14944	72651	SD		Minnehaha	435.3	1428
FSE	Fosston	KFSE	727505	04929		MN	Northwest	Polk	388.0	1273.0
GDB	Granite Falls	KGDB	722033	04999		MN	West Central	Yellow Medicine		
GFK	Grand Forks Int'l Arpt	KGFK	727576	14916		ND		Grand Forks	256.6	842.0
GHW	Glenwood	KGHW	726547	04931		MN	West Central	Pope	424.6	1393.0
GNA	Grand Marais		727469	94992		MN	Northeast	Cook	185.9	610.0
GPZ	Grand Rapids	KGPZ	727458	94919		MN	North Central	Itasca	396.8	1302.0
GYL	Glencoe	KGYL	727517	04932		MN	Central	McLeod	302.4	992.0
HCD	Hutchinson	KHCD	726569	04933		MN	Central	McLeod		
HCO	Hallock	KHCO	727478	04934		MN	Northwest	Kittson	249.6	819.0

Call Sign	Location	Code	USAF	WBAN	WMO	State	Division	County	NCDC (ASL) Elevation (meters)	NCDC (ASL) Elevation (feet)
HIB	Hibbing	KHIB	727455	94931		MN	Northeast	Saint Louis	410.6	1347
HZX	McGregor	KHZX	720258	04997		MN	East Central	Aitkin		
ILL	Willmar	KILL	726576			MN	Central	Kandiyohi		
INL	International Falls	KINL	727470	14918	72747	MN	North Central	Koochiching	360.6	1183
JKJ	Moorhead	KJKJ	722129	04939		MN	Northwest	Clay	279.5	917.0
JMR	Mora	KJMR	727475	04940		MN	East Central	Kanabec	308.5	1012.0
LJF	Litchfield	KLJF	726583	04941		MN	Central	Meeker	347.5	1140.0
LSE	La Crosse	KLSE	726430	14920	72643	WI		La Crosse	198.7	652
LVN	Airlake Airport	KLVN	726562	04943		MN	Southeast	Dakota		
LXL	Little Falls	KLXL	726578	04944		MN	Central	Morrison	342.0	1122.0
LYV	Luverne - Quentin Aprt	KLYV	722006	54926		MN	Southwest	Rock	436.2	1431.1
MIC	Minneapolis/Crystal	KMIC	726575	94960		MN	East Central	Hennepin		
MJQ	Jackson	KMJQ	726593	99999		MN	Southwest	Jackson	440.7	1446.0
MKT	Mankato	KMKT	726585	14954		MN	South Central	Blue Earth	310.9	1020.0
MML	Marshall	KMML	726559	94976		MN	Southwest	Lyon		
MOX	Morris	KMOX	726565	04948		MN	West Central	Stevens	344.4	1130.0
MSP	Minneapolis/St. Paul Int'l Aprt	KMSP	726580	14922	72658	MN	East Central	Hennepin	265.8	872
MVE	Montevideo	KMVE	726553	04951		MN	West Central	Chippewa	315.2	1034.0
MWM	Windom	KMWM	727506	04952		MN	Southwest	Cottonwood	429.8	1410.1
MZH	Moose Lake	KMZH	727449	04954		MN	East Central	Carlton	328.0	1076.0
ONA	Winona	KONA	726588	04956		MN	Southeast	Winona	199.9	656.0
ORB	Orr	KORB	726544	04958		MN	Northeast	Saint Louis	399.6	1311.0
OTG	Worthington	KOTG	726587	94927		MN	Southwest	Nobles	478.5	1570.0
OVL	Olivia	KOVL	722168	04960		MN	Central	Renville		
OWA	Owatonna	KOWA	726568	04961		MN	South Central	Steele		
PEX	Paynesville	KPEX	720367	99999		MN	Central	Stearns		
PKD	Park Rapids	KPKD	727453	94967		MN	North Central	Hubbard	437.1	1434.0
PQN	Pipestone	KPQN	726566	04965		MN	Southwest	Pipestone	529.1	1736.0
PWC	Pine River	KPWC	727508	54915		MN	North Central	Cass		
RGK	Red Wing	KRGK	726564	04967		WI	Southeast	Goodhue (Pierce)	237.7	780.0
ROS	Rush City	KROS	726679	04969		MN	East Central	Chisago	281.3	923.0
ROX	Roseau	KROX	727477	04970		MN	Northwest	Roseau	322.8	1059.0
RRT	Warroad	KRRT	726548	04971		MN	Northwest	Roseau	327.4	1074.0
RST	Rochester	KRST	726440	14925	72644	MN	Southeast	Olmsted	397.5	1304
RWF	Redwood Falls	KRWF	726556	14992		MN	Southwest	Redwood	312.4	1025.0
SAZ	Staples	KSAZ	727514	54910		MN	Central	Wadena		
SGS	South St. Paul	KSGS	726603	04974		MN	Southeast	Dakota		
STC	St. Cloud	KSTC	726550	14926		MN	Central	Sherburne	310.3	1018.0
STP	Saint Paul Downtown Arpt	KSTP	726584	14927		MN	East Central	Ramsey		
SUW	Superior	KSUW	726427	54908		WI		Douglas		
TVF	Thief River Falls	KTVF	727555	94956		MN	Northwest	Pennington	339.9	1115.0
ULM	New Ulm Municipal Arpt	KULM	726567	04980		MN	South Central	Brown	308.2	1011.0
VVV	Ortonville	KVVV	727515	04982		MN	West Central	Big Stone	335.3	1100.0
XVG	Longville	KXVG	727497	04984		MN	North Central	Cass	406.6	1334.0

CollectedSFCStationsDatabase

03/07/2012

Location	NCDC DegMin Lat. (N)	NCDC DegMin Lon. (W)	NCDC DecDeg Lat. (N)	NCDC DecDeg Lon. (W)	NCDC ISHD Lat. (N)	NCDC ISHD Lon. (W)
Aberdeen	45°27'	98°25'	45.450000	-98.416667	45.4500	-98.4210
Wadena					46.4470	-95.2010
Albert Lea Mun. Arpt	43°41'	93°22'	43.683333	-93.366667	43.6810	-93.3670
Aitkin NDB					46.5480	-93.6680
Minneapolis/Blaine	45°09'	93°13'	45.150000	-93.216667	45.1450	-93.2010
Watertown	44°54'	97°09'	44.900000	-97.150000	44.9310	-97.1540
Alexandria	45°52'	95°24'	45.866667	-95.400000	45.8830	-95.3930
Benson					45.3320	-95.6510
Baudette Int'l Arpt	48°43'	94°36'	48.716667	-94.600000	48.7280	-94.6100
Willmar	45°07'	95°05'	45.116667	-95.083333	45.1170	-95.1330
Silver Bay	47°15'	91°25'	47.250000	-91.416667	47.2490	-91.4010
Bemidji	47°30'	94°56'	47.500000	-94.933333	47.5090	-94.9330
Brainerd	46°24'	94°08'	46.400000	-94.133333	46.4050	-94.1310
Cambridge	45°34'	93°16'	45.566667	-93.266667	45.5590	-93.2510
Grand Marais Mun. Arpt	47°50'	90°23'	47.833333	-90.383333	47.8380	-90.3680
Crookston	47°51'	96°37'	47.850000	-96.616667	47.8420	-96.6170
Cloquet					46.7030	-92.5000
Cook	47°49'	92°41'	47.816667	-92.683333	47.8220	-92.6890
Duluth Int'l Arpt	46°50'	92°11'	46.833333	-92.183333	46.8440	-92.1940
Detroit Lakes	46°50'	95°53'	46.833333	-95.883333	46.8250	-95.8830
Slayton					43.9830	-95.7830
Duluth Sky Harbor	46°43'	92°03'	46.716667	-92.050000	46.7220	-92.0340
Eau Claire	44°52'	91°29'	44.866667	-91.483333	44.8650	-91.4850
Ely	47°49'	91°50'	47.816667	-91.833333	47.8220	-91.8180
Eveleth	47°25'	92°30'	47.416667	-92.500000	47.4240	-92.4850
Fargo Int'l Arpt	46°56'	96°49'	46.933333	-96.816667	46.9250	-96.8110
Faribault					44.3250	-93.3010
Flying Cloud Arpt					44.8320	-93.4700
Fergus Falls	46°17'	96°09'	46.283333	-96.150000	46.2890	-96.1510
Flag Island	49°19'	94°54'	49.316667	-94.900000	49.3180	-94.9000
Preston	43°41'	92°11'	43.683333	-92.183333	43.6770	-92.1680
Bigfork	47°47'	93°39'	47.783333	-93.650000	47.7830	-93.6500
Fairmont	43°39'	94°25'	43.650000	-94.416667	43.6460	-94.4170
Sioux Falls	43°35'	96°45'	43.583333	-96.750000	43.5770	-96.7540
Fosston	47°36'	95°47'	47.600000	-95.783333	47.5930	-95.7680
Granite Falls					45.6500	-95.3830
Grand Forks Int'l Arpt	47°57'	97°11'	47.950000	-97.183333	47.9490	-97.1760
Glenwood	45°39'	95°19'	45.650000	-95.316667	45.6440	-95.3170
Grand Marais	47°45'	90°21'	47.750000	-90.350000	47.7470	-90.3440
Grand Rapids	47°13'	93°31'	47.216667	-93.516667	47.1640	-93.4840
Glencoe	44°45'	94°05'	44.750000	-94.083333	44.7560	-94.0680
Hutchinson					44.8590	-94.3680
Hallock	48°45'	96°57'	48.750000	-96.950000	48.7830	-96.9500

CollectedSFCStationsDatabase

03/07/2012

Location	NCDC DegMin Lat. (N)	NCDC DegMin Lon. (W)	NCDC DecDeg Lat. (N)	NCDC DecDeg Lon. (W)	NCDC ISHD Lat. (N)	NCDC ISHD Lon. (W)
Hibbing	47°23'	92°50'	47.383333	-92.833333	47.3870	-92.8390
McGregor					46.6190	-93.3100
Willmar						
International Falls	48°34'	93°24'	48.566667	-93.400000	48.5660	-93.4030
Moorhead	46°50'	96°40'	46.833333	-96.666667	46.8390	-96.6510
Mora	45°53'	93°16'	45.883333	-93.266667	45.8860	-93.2670
Litchfield	48°09'	94°30'	45.150000	-94.500000	45.1470	-94.5010
La Crosse	43°53'	91°15'	43.883333	-91.250000	43.7540	-91.2560
Airlake Airport					44.6280	-93.2180
Little Falls	45°57'	94°21'	45.950000	-94.350000	45.9490	-94.3340
Luverne - Quentin Aprt	43°37'	96°13'	43.616667	-96.216667	43.6210	-96.2160
Minneapolis/Crystal					45.0630	-93.3510
Jackson	43°39'	94°59'	43.650000	-94.983333	43.6500	-94.9830
Mankato	44°13'	93°55'	43.216667	-93.916667	44.2210	-93.9170
Marshall					44.4500	-95.8170
Morris	45°34'	95°58'	45.566667	-95.966667	45.5660	-95.9670
Minneapolis/St. Paul Int'l Aprt	44°53'	93°14'	44.883333	-93.233333	44.8830	-93.2290
Montevideo	44°58'	95°43'	44.966667	-95.716667	44.9690	-95.7010
Windom	43°55'	95°07'	43.916667	-95.116667	43.9130	-95.1010
Moose Lake	46°25'	92°48'	46.416667	-92.800000	46.4190	-92.8000
Winona	44°05'	91°42'	44.083333	-91.700000	44.0770	-91.7010
Orr	48°01'	92°51'	48.016667	-92.850000	48.0160	-92.8510
Worthington	43°39'	95°35'	43.650000	-95.583333	43.6550	-95.5680
Olivia					44.7790	-95.0180
Owatonna					44.1230	-93.2510
Paynesville					45.3670	-94.7500
Park Rapids	46°54'	95°04'	46.900000	-95.066667	46.9010	-95.0680
Pipestone	43°59'	96°18'	43.983333	-96.300000	43.9830	-96.3000
Pine River					46.7170	-94.3830
Red Wing	44°35'	92°29'	44.583333	-92.483333	44.5890	-92.4830
Rush City	45°42'	92°57'	45.700000	-92.950000	45.6980	-92.9500
Roseau	48°51'	95°42'	48.850000	-95.700000	48.8560	-95.6840
Warroad	48°56'	95°21'	48.933333	-95.350000	48.9410	-95.3350
Rochester	43°54'	92°30'	43.900000	-92.500000	43.9040	-92.4920
Redwood Falls	44°33'	95°05'	44.550000	-95.083333	44.5470	-95.0820
Staples					46.3810	-94.8060
South St. Paul					44.8570	-93.0180
St. Cloud	45°33'	94°03'	45.550000	-94.050000	45.5450	-94.0520
Saint Paul Downtown Arpt					44.9300	-93.0480
Superior					46.6830	-92.1000
Thief River Falls	48°04'	96°11'	48.066667	-96.183333	48.0650	-96.1830
New Ulm Municipal Arpt	44°19'	94°30'	44.316667	-94.500000	44.3190	-94.5000
Ortonville	45°18'	96°25'	45.300000	-96.416667	45.3060	-96.4170
Longville	46°59'	94°12'	46.983333	-94.200000	46.9900	-94.2000



<u>Location</u>	<u>NCDC ISHD Elevation (meters)</u>	<u>NCDC ISHD Elevation (feet)</u>	<u>FAA Lat. (N)</u>	<u>FAA Lon. (W)</u>	<u>Actual Local Lat. (N)</u>	<u>Actual Local Lon. (W)</u>	<u>Actual Local (meters)</u>
Aberdeen	396.2	1299.9	45.44900	-98.42200	45.444	-98.414	395.0
Wadena	417.6	1370.1	46.45030	-95.21100	46.452	-95.210	414.0
Albert Lea Mun. Arpt	383.7	1258.9	43.68150	-93.36720	43.682	-93.370	381.0
Aitkin NDB	367.0	1204.1	46.54840	-93.67680	46.549	-93.676	365.0
Minneapolis/Blaine	278.0	912.1	45.14500	-93.21140	45.143	-93.213	276.0
Watertown	530.4	1740.2	44.91400	-97.15500	44.918	-97.154	525.0
Alexandria	436.2	1431.1	45.86600	-95.39500	45.868	-95.394	432.0
Benson	316.7	1039.0	45.33190	-95.65060	45.331	-95.647	315.0
Baudette Int'l Arpt	330.4	1084.0	48.72900	-94.61200	48.726	-94.604	327.0
Willmar	247.0	810.4	45.11830	-95.13050	45.112	-95.085	342.0
Silver Bay	331.9	1088.9	47.24900	-91.41560	47.251	-91.409	330.0
Bemidji	423.7	1390.1	47.50942	-94.93372	47.506	-94.926	421.0
Brainerd	373.7	1226.0	46.39800	-94.13800	46.405	-94.130	372.0
Cambridge	288.0	944.9	45.55750	-93.26420	45.558	-93.262	288.0
Grand Marais Mun. Arpt	548.0	1797.9	47.83830	-90.38290	47.837	-90.386	545.0
Crookston	274.0	899.0	47.84170	-96.62160	47.840	-96.620	272.0
Cloquet	390.1	1279.9	46.70110	-92.50380	46.699	-92.503	390.0
Cook	404.5	1327.1	47.82190	-92.68940	47.821	-92.692	403.0
Duluth Int'l Arpt	431.9	1417.0	46.84200	-92.19400	46.843	-92.187	435.0
Detroit Lakes	425.5	1396.0	46.82520	-95.88560	46.825	-95.883	421.0
Slayton	495.0	1624.0	43.98680	-95.78260	43.991	-95.783	490.0
Duluth Sky Harbor	185.9	609.9	46.72190	-92.04340	46.725	-92.044	186.0
Eau Claire	272.8	895.0	44.86600	-91.48400	44.867	-91.488	269.0
Ely	443.5	1455.1	47.82450	-91.83070	47.825	-91.833	441.0
Eveleth			47.42510	-92.49850	47.427	-92.497	418.0
Fargo Int'l Arpt	274.0	899.0	46.92100	-96.81600	46.911	-96.815	272.0
Faribault	321.9	1056.1	44.32470	-93.31080	44.330	-93.312	318.0
Flying Cloud Arpt	287.7	943.9	44.82700	-93.45700	44.827	-93.464	276.0
Fergus Falls	360.9	1184.1	46.28440	-96.15670	46.286	-96.153	361.0
Flag Island	329.2	1080.1	49.31830	-94.90280	49.318	-94.902	324.0
Preston	388.9	1275.9	43.67680	-92.17970	43.677	-92.179	389.0
Bigfork	411.2	1349.1	47.78280	-93.65020	47.783	-93.649	409.0
Fairmont	353.9	1161.1	43.64394	-94.41560	43.645	-94.417	352.0
Sioux Falls	434.9	1426.8	43.58200	-96.74200	43.576	-96.751	433.0
Fosston	388.0	1273.0	47.59280	-95.77350	47.594	-95.771	387.0
Granite Falls	423.0	1387.8	44.75330	-95.55600	44.753	-95.556	316.0
Grand Forks Int'l Arpt	253.6	832.0	47.94900	-97.17600	47.947	-97.184	255.0
Glenwood	424.6	1393.0	45.64390	-95.32040	45.646	-95.319	422.0
Grand Marais	185.9	609.9			47.747	-90.343	185.0
Grand Rapids	413.0	1355.0	47.21110	-93.50984	47.203	-93.507	411.0
Glencoe	302.4	992.1	44.75600	-94.08120	44.761	-94.087	301.0
Hutchinson	323.1	1060.0	44.85990	-94.38250	44.857	-94.383	319.0
Hallock	250.0	820.2	48.75270	-96.94300	48.756	-96.943	249.0



<u>Location</u>	<u>NCDC ISHD Elevation (meters)</u>	<u>NCDC ISHD Elevation (feet)</u>	<u>FAA Lat. (N)</u>	<u>FAA Lon. (W)</u>	<u>Actual Local Lat. (N)</u>	<u>Actual Local Lon. (W)</u>	<u>Actual Local (meters)</u>
Hibbing	413.6	1357.0	47.38700	-92.83900	47.380	-92.832	408.0
McGregor	374.3	1228.0			46.617	-93.311	373.0
Willmar							
International Falls	360.6	1183.1	48.56600	-93.40300	48.562	-93.398	353.0
Moorhead	279.5	917.0	46.83930	-96.66370	46.839	-96.656	279.0
Mora	308.5	1012.1	45.88610	-93.27180	45.885	-93.268	306.0
Litchfield	347.5	1140.1	45.09710	-94.50730	45.095	-94.508	347.0
La Crosse	199.9	655.8	43.87900	-91.25700	43.879	-91.253	198.0
Airlake Airport	292.6	960.0	44.62790	-93.22810	44.625	-93.227	292.0
Little Falls	342.0	1122.0	45.94970	-94.34740	45.951	-94.351	339.0
Luverne - Quentin Aprt	436.2	1431.1	43.62120	-96.21580	43.622	-96.215	434.0
Minneapolis/Crystal	264.9	869.1	45.06200	-93.35400	45.062	-93.351	262.0
Jackson	441.0	1446.9	43.65000	-94.98650	43.649	-94.985	439.0
Mankato	310.9	1020.0	44.22165	-93.91874	44.218	-93.918	309.0
Marshall	359.7	1180.1	44.45053	-95.82186	44.450	-95.822	359.0
Morris	344.4	1129.9	45.56600	-95.96720	45.568	-95.966	344.0
Minneapolis/St. Paul Int'l Aprt	255.4	837.9	44.88300	-93.21700	44.885	-93.231	256.0
Montevideo	315.2	1034.1	44.96910	-95.71030	44.967	-95.712	316.0
Windom	429.8	1410.1	43.91340	-95.10940	43.909	-95.107	426.0
Moose Lake	328.0	1076.1	46.41880	-92.80470	46.416	-92.805	330.0
Winona	199.9	655.8	44.07720	-91.70830	44.076	-91.706	198.0
Orr	399.6	1311.0	48.01590	-92.85610	48.018	-92.858	401.0
Worthington	479.8	1574.1	43.65507	-95.57921	43.652	-95.576	477.0
Olivia	328.0	1076.1	44.77860	-95.03280	44.779	-95.030	329.0
Owatonna	349.3	1146.0	44.12340	-93.26060	44.119	-93.257	344.0
Paynesville	360.0	1181.1	45.37230	-94.74660	45.373	-94.745	360.0
Park Rapids	439.8	1442.9	46.90100	-95.07300	46.898	-95.071	439.0
Pipestone	529.1	1735.9	43.98330	-96.30030	43.983	-96.300	527.0
Pine River	395.0	1295.9	46.72480	-94.38170	46.725	-94.383	394.0
Red Wing	237.7	779.9	44.58940	-92.48500	44.591	-92.501	234.0
Rush City	281.3	922.9	45.69800	-92.95300	45.701	-92.952	282.0
Roseau	322.8	1059.1	48.85600	-95.69700	48.856	-95.695	320.0
Warroad	327.4	1074.1	48.94140	-95.34840	48.941	-95.344	326.0
Rochester	402.3	1319.9	43.90700	-92.49900	43.904	-92.492	396.0
Redwood Falls	313.9	1029.9	44.54700	-95.08200	44.548	-95.080	311.0
Staples	392.3	1287.1	46.38090	-94.80660	46.382	-94.801	391.0
South St. Paul	67.1	220.1	44.85710	-93.03290	44.856	-93.035	249.0
St. Cloud	312.1	1024.0	45.54700	-94.06000	45.544	-94.052	310.0
Saint Paul Downtown Arpt	216.7	711.0	44.93500	-93.06000	44.931	-93.054	212.0
Superior	206.0	675.9	46.68970	-92.09470	46.683	-92.093	204.0
Thief River Falls	340.2	1116.1	48.06568	-96.18499	48.066	-96.183	338.0
New Ulm Municipal Arpt	308.2	1011.2	44.31960	-94.50230	44.318	-94.498	308.0
Ortonville	335.3	1100.1	45.30570	-96.42440	45.305	-96.412	332.0
Longville	406.6	1334.0	46.99020	-94.20400	46.991	-94.202	405.0



CollectedSFCStationsDatabase

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Location	FAA's Station Telephone #	FAA Station Type	AERMINUTE	DistanceToABR	DistanceToINL	DistanceToMPX	ClosestUPA
Aberdeen	605-229-4512	ASOS	Yes	0.011881	5.905536	4.884825	ABR
Wadena	218-631-7774	AWOS IIIIP/T	No	3.354883	2.780682	2.296371	MPX
Albert Lea Mun. Arpt	507-377-1583	AWOS IIIIP/T	No	5.346398	4.879168	1.183356	MPX
Aitkin NDB	218-927-2101	AWOS IIIIP/T	No	4.862185	2.031539	1.703097	MPX
Minneapolis/Blaine	763-780-9025	AWOS IIIIP	No	5.210021	3.423927	0.458293	MPX
Watertown	605-882-0578	ASOS	Yes	1.369026	5.233159	3.589973	ABR
Alexandria	320-763-7174	ASOS	Yes	3.047453	3.352238	2.093409	MPX
Benson	320-843-3242	AWOS IIIIP/T	No	2.769219	3.936092	2.136834	MPX
Baudette Int'l Arpt	218-634-3080	ASOS	Yes	5.020804	1.216776	4.013235	INL
Willmar	320-235-8287	AWOS IIIIP/T	No	3.346300	3.839318	1.542206	MPX
Silver Bay	218-226-3537	AWOS IIIIP/T	No	7.230566	2.382143	3.226971	INL
Bemidji	218-759-2501	AWOS III	No	4.045939	1.856508	2.984819	INL
Brainerd	218-828-3314	ASOS	Yes	4.386943	2.277516	1.654915	MPX
Cambridge	763-689-9562	AWOS IIIIP/T	No	5.152242	3.006834	0.770306	MPX
Grand Marais Mun. Arpt	218-387-1971	AWOS IIIIP/T	No	8.373413	3.098352	4.362717	INL
Crookston	218-281-3018	AWOS IIIIP/T	No	2.983746	3.301859	4.275610	ABR
Cloquet	218-879-0783	AWOS IIIIP/T	No	6.039235	2.066636	2.132183	INL
Cook	218-666-2539	AWOS IIIIP	No	6.191752	1.023236	3.097751	INL
Duluth Int'l Arpt	218-723-8340	ASOS	Yes	6.379569	2.102329	2.424027	INL
Detroit Lakes	218-847-8626	AWOS IIIIP/T	No	2.877316	3.031275	3.045744	ABR
Slayton	507-836-6128	AWOS IIIIP/T	No	3.010759	5.154709	2.377754	MPX
Duluth Sky Harbor	218-720-4886	AWOS IIIIP/T	No	6.494078	2.281897	2.414105	INL
Eau Claire	715-832-7990	ASOS	Yes	6.950453	4.159581	2.077227	MPX
Ely	218-365-3814	AWOS IIIIP	No	6.993918	1.729975	3.442711	INL
Eveleth	218-744-2369	AWOS IIIIP/T	No	6.236084	1.448417	2.790306	INL
Fargo Int'l Arpt	701-298-3877	ASOS	Yes	2.162088	3.794199	3.848442	ABR
Faribault	507-332-2505	AWOS IIIIP/T	No	5.224307	4.232474	0.578056	MPX
Flying Cloud Arpt	952-941-4156	ASOS	Yes	4.988757	3.735032	0.103190	MPX
Fergus Falls	218-736-7216	AWOS IIIIP	Yes	2.407630	3.573440	2.960317	ABR
Flag Island	218-223-4023	AWOS IIIIP	No	5.220267	1.683586	4.664619	INL
Preston	507-765-2182	AWOS IIIIP/T	No	6.483591	5.034656	1.815955	MPX
Bigfork	218-743-3289	AWOS IIIIP	No	5.302351	0.818127	2.934462	INL
Fairmont	507-238-1562	AWOS III	No	4.387331	5.020402	1.474804	MPX
Sioux Falls	605-331-7833	ASOS	Yes	2.508635	6.007821	3.431158	ABR
Fosston	218-435-6448	AWOS IIIIP/T	No	3.399212	2.562388	3.520655	INL
Granite Falls	320-564-9388	AWOS IIIIP/T	No	2.942434	4.377253	1.993279	MPX
Grand Forks Int'l Arpt	701-772-3486	ASOS	Yes	2.778802	3.835017	4.763643	ABR
Glenwood	320-634-5660	AWOS IIIIP/T	No	3.100400	3.491459	1.926027	MPX
Grand Marais		ASOS	Yes	8.389203	3.161615	4.333248	INL
Grand Rapids	218-326-8337	AWOS III	No	5.208224	1.363001	2.354056	INL
Glencoe	320-864-5830	AWOS IIIIP/T	No	4.382185	3.862691	0.529068	MPX
Hutchinson	320-587-3343	AWOS IIIIP/T	No	4.074354	3.833235	0.818179	MPX
Hallock	218-843-2415	AWOS IIIIP/T	No	3.613211	3.550344	5.164647	INL

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Location	FAA's Station Telephone #	FAA Station Type	AERMINUTE	DistanceToABR	DistanceToINL	DistanceToMPX	ClosestUPA
Hibbing	218-263-8384	ASOS	Yes	5.903601	1.309608	2.634844	INL
McGregor	218-768-2593	AWOS IIIP/T	No	5.232421	1.946630	1.785405	MPX
Willmar			No	108.403812	105.268444	103.758829	MPX
International Falls	218-285-2996	ASOS	Yes	5.899097	0.000050	3.715780	INL
Moorhead	218-287-5049	AWOS IIIP/T	No	2.236984	3.684691	3.675475	ABR
Mora	320-679-1629	AWOS IIIP/T	No	5.162901	2.679858	1.076968	MPX
Litchfield	320-693-6456	AWOS IIIP/T	No	3.921606	3.640014	0.974702	MPX
La Crosse	608-781-9067	ASOS	Yes	7.331602	5.150217	2.507210	MPX
Airlake Airport	952-469-5850	AWOS IIIP/T	No	5.252111	3.939981	0.405451	MPX
Little Falls	320-632-6791	AWOS IIIP/T	No	4.092246	2.778910	1.353370	MPX
Luverne - Quentin Aprt	507-283-5027	AWOS IIIP/T	No	2.862616	5.686677	2.920867	ABR
Minneapolis/Crystal	763-531-2343	ASOS	Yes	5.077594	3.499583	0.301776	MPX
Jackson	507-847-5810	AWOS IIIP/T	No	3.875370	5.161816	1.858760	MPX
Mankato	507-625-3726	AWOS III	No	4.662475	4.374039	0.723039	MPX
Marshall	507-532-5269	AWOS III	No	2.779881	4.772081	2.291457	MPX
Morris	320-589-1303	AWOS IIIP/T	No	2.449893	3.944089	2.506126	ABR
Minneapolis/St. Paul Int'l Aprt	612-725-0939	ASOS	Yes	5.213337	3.680050	0.335664	MPX
Montevideo	320-269-5830	AWOS IIIP/T	No	2.745485	4.274151	2.149769	MPX
Windom	507-831-1833	AWOS IIIP	No	3.649692	4.956319	1.806381	MPX
Moose Lake	218-485-5199	AWOS IIIP/T	No	5.690161	2.225601	1.741574	MPX
Winona	507-453-2991	AWOS IIIP/T	No	6.847967	4.793983	2.013721	MPX
Orr	218-757-3169	AWOS IIIP/T	No	6.118004	0.765958	3.246842	INL
Worthington	507-376-9441	AWOS III	No	3.361913	5.370330	2.340098	MPX
Olivia	320-523-5924	AWOS IIIP/T	No	3.449977	4.119358	1.466931	MPX
Owatonna	507-455-0642	AWOS IIIP	No	5.326829	4.444662	0.792767	MPX
Paynesville	320-243-4538	AWOS IIIP/T	No	3.668997	3.461727	1.290971	MPX
Park Rapids	218-732-0920	ASOS	Yes	3.640567	2.358863	2.542556	INL
Pipestone	507-825-6895	AWOS IIIP	No	2.575383	5.420634	2.869190	ABR
Pine River	218-587-3420	AWOS IIIP	No	4.225514	2.084069	2.045870	MPX
Red Wing	715-594-3763	AWOS IIIP/T	No	5.975146	4.070430	1.094916	MPX
Rush City	320-358-3339	AWOS IIIP/T	No	5.466541	2.895313	1.048824	MPX
Roseau	218-463-1803	AWOS IIIP/T	No	4.353492	2.315575	4.537468	INL
Warroad	218-386-1813	AWOS IIIP/T	No	4.644103	1.982946	4.461826	INL
Rochester	507-285-0298	ASOS	Yes	6.121133	4.744790	1.430086	MPX
Redwood Falls	507-644-3564	ASOS	Yes	3.454223	4.351446	1.544960	MPX
Staples	218-894-3666	AWOS IIIP	No	3.729246	2.591697	1.969110	MPX
South St. Paul	651-457-8120	AWOS IIIP/T	No	5.411969	3.723054	0.530435	MPX
St. Cloud	320-240-8781	ASOS	Yes	4.362633	3.087247	0.848134	MPX
Saint Paul Downtown Arprt	651-298-1410	ASOS	Yes	5.384702	3.647009	0.517194	MPX
Superior	715-394-0283	AWOS IIIP	No	6.438966	2.287313	2.351937	INL
Thief River Falls	218-681-1918	AWOS III	No	3.433356	2.828955	4.147648	INL
New Ulm Municipal Arprt	507-359-1656	AWOS IIIP	No	4.077214	4.383621	1.073689	MPX
Ortonville	320-839-2363	AWOS IIIP	No	2.006602	4.437284	2.883557	ABR
Longville	218-363-3347	AWOS IIIP	No	4.482326	1.764554	2.233971	INL

CollectedSFCStationsDatabas (2)

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#	X	Y	ElevationMeters	ID	SFCStation	State	USAF	WBAN	WMOID	County
1	-98.414	45.444	395.0	ABR	Aberdeen	SD	726590	14929	72659	Brown
2	-95.210	46.452	414.0	ADC	Wadena	MN	726561	94997	0	Otter Tail
3	-93.370	43.682	381.0	AEL	Albert Lea Mun. Arpt	MN	726589	94968	0	Freeborn
4	-93.676	46.549	365.0	AIT	Aitkin NDB	MN	727504	94999	0	Aitkin
5	-93.213	45.143	276.0	ANE	Minneapolis/Blaine	MN	726577	94974	0	Anoka
6	-97.154	44.918	525.0	ATY	Watertown	SD	726546	14946	0	Codington
7	-95.394	45.868	432.0	AXN	Alexandria	MN	726557	14910	0	Douglas
8	-95.647	45.331	315.0	BBB	Benson	MN	727507	54904	0	Swift
9	-94.604	48.726	327.0	BDE	Baudette Intl'l Aprt	MN	727476	94961	0	Lake of the Woods
10	-95.085	45.112	342.0	BDH	Willmar	MN	720386	14928	0	Kandiyohi
11	-91.409	47.251	330.0	BFW	Silver Bay	MN	727556	04905	0	Lake
12	-94.926	47.506	421.0	BJI	Bemidji	MN	727550	14958	72755	Beltrami
13	-94.130	46.405	372.0	BRD	Brainerd	MN	726555	94938	0	Crow Wing
14	-93.262	45.558	288.0	CBG	Cambridge	MN	727503	04909	0	Isanti
15	-90.386	47.837	545.0	CKC	Grand Marais Mun. Arpt	MN	727454	04911	0	Cook
16	-96.620	47.840	272.0	CKN	Crookston	MN	727452	04912	0	Polk
17	-92.503	46.699	390.0	COQ	Cloquet	MN	726558	04914	0	Carlton
18	-92.692	47.821	403.0	CQM	Cook	MN	726549	54905	0	Saint Louis
19	-92.187	46.843	435.0	DLH	Duluth Intl'l Aprt	MN	727450	14913	72745	Saint Louis
20	-95.883	46.825	421.0	DTL	Detroit Lakes	MN	727457	94962	0	Becker
21	-95.783	43.991	490.0	DVP	Slayton	MN	720368	54924	0	Murray
22	-92.044	46.725	186.0	DYT	Duluth Sky Harbor	MN	727456	4919	0	Saint Louis
23	-91.488	44.867	269.0	EAU	Eau Claire	WI	726435	14991	0	Eau Claire
24	-91.833	47.825	441.0	ELO	Ely	MN	727459	94964	0	Saint Louis
25	-92.497	47.427	418.0	EVM	Eveleth	MN	727474	04923	0	Saint Louis
26	-96.815	46.911	272.0	FAR	Fargo Int'l Arpt	ND	727530	14914	72753	Cass
27	-93.312	44.330	318.0	FBL	Faribault	MN	726563	94969	0	Rice
28	-93.464	44.827	276.0	FCM	Flying Cloud Arpt	MN	726579	94963	0	Hennepin
29	-96.153	46.286	361.0	FFM	Fergus Falls	MN	726560	94966	0	Otter Tail
30	-94.902	49.318	324.0	FGN	Flag Island	MN	727467	04926	0	Lake of the Woods
31	-92.179	43.677	389.0	FKA	Preston	MN	720283	04927	0	Fillmore
32	-93.649	47.783	409.0	FOZ	Bigfork	MN	727468	04928	0	Itasca
33	-94.417	43.645	352.0	FRM	Fairmont	MN	726586	94948	0	Martin
34	-96.751	43.576	433.0	FSD	Sioux Falls	SD	726510	14944	72651	Minnehaha
35	-95.771	47.594	387.0	FSE	Fosston	MN	727505	04929	0	Polk
36	-95.556	44.753	316.0	GDB	Granite Falls	MN	722033	04999	0	Yellow Medicine
37	-97.184	47.947	255.0	GFK	Grand Forks Int'l Arpt	ND	727576	14916	0	Grand Forks
38	-95.319	45.646	422.0	GHW	Glenwood	MN	726547	04931	0	Pope
39	-90.343	47.747	185.0	GNA	Grand Marais	MN	727469	94992	0	Cook
40	-93.507	47.203	411.0	GPZ	Grand Rapids	MN	727458	94919	0	Itasca
41	-94.087	44.761	301.0	GYL	Glencoe	MN	727517	04932	0	McLeod
42	-94.383	44.857	319.0	HCD	Hutchinson	MN	726569	04933	0	McLeod
43	-96.943	48.756	249.0	HCO	Hallock	MN	727478	04934	0	Kittson

CollectedSFCStationsDatabas (2)

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#	X	Y	ElevationMeters	ID	SFCStation	State	USAF	WBAN	WMOID	County
44	-92.832	47.380	408.0	HIB	Hibbing	MN	727455	94931	0	Saint Louis
45	-93.311	46.617	373.0	HZX	McGregor	MN	720258	04997	0	Aitkin
46	0.000	0.000	0.0	ILL	Willmar	MN	726576	0	0	Kandiyohi
47	-93.398	48.562	353.0	INL	International Falls	MN	727470	14918	72747	Koochiching
48	-96.656	46.839	279.0	JKJ	Moorhead	MN	722129	04939	0	Clay
49	-93.268	45.885	306.0	JMR	Mora	MN	727475	04940	0	Kanabec
50	-94.508	45.095	347.0	LJF	Litchfield	MN	726583	04941	0	Meeker
51	-91.253	43.879	198.0	LSE	La Crosse	WI	726430	14920	72643	La Crosse
52	-93.227	44.625	292.0	LVN	Airlake Airport	MN	726562	04943	0	Dakota
53	-94.351	45.951	339.0	LXL	Little Falls	MN	726578	04944	0	Morrison
54	-96.215	43.622	434.0	LYV	Luverne - Quentin Aprt	MN	722006	54926	0	Rock
55	-93.351	45.062	262.0	MIC	Minneapolis/Crystal	MN	726575	94960	0	Hennepin
56	-94.985	43.649	439.0	MJQ	Jackson	MN	726593	99999	0	Jackson
57	-93.918	44.218	309.0	MKT	Mankato	MN	726585	14954	0	Blue Earth
58	-95.822	44.450	359.0	MML	Marshall	MN	726559	94976	0	Lyon
59	-95.966	45.568	344.0	MOX	Morris	MN	726565	04948	0	Stevens
60	-93.231	44.885	256.0	MSP	Minneapolis/St. Paul Int'l Aprt	MN	726580	14922	72658	Hennepin
61	-95.712	44.967	316.0	MVE	Montevideo	MN	726553	04951	0	Chippewa
62	-95.107	43.909	426.0	MWM	Windom	MN	727506	04952	0	Cottonwood
63	-92.805	46.416	330.0	MZH	Moose Lake	MN	727449	04954	0	Carlton
64	-91.706	44.076	198.0	ONA	Winona	MN	726588	04956	0	Winona
65	-92.858	48.018	401.0	ORB	Orr	MN	726544	04958	0	Saint Louis
66	-95.576	43.652	477.0	OTG	Worthington	MN	726587	94927	0	Nobles
67	-95.030	44.779	329.0	OVL	Olivia	MN	722168	04960	0	Renville
68	-93.257	44.119	344.0	OWA	Owatonna	MN	726568	04961	0	Steele
69	-94.745	45.373	360.0	PEX	Paynesville	MN	720367	99999	0	Stearns
70	-95.071	46.898	439.0	PKD	Park Rapids	MN	727453	94967	0	Hubbard
71	-96.300	43.983	527.0	PQN	Pipestone	MN	726566	04965	0	Pipestone
72	-94.383	46.725	394.0	PWC	Pine River	MN	727508	54915	0	Cass
73	-92.501	44.591	234.0	RGK	Red Wing	WI	726564	04967	0	Goodhue (Pierce)
74	-92.952	45.701	282.0	ROS	Rush City	MN	726679	04969	0	Chisago
75	-95.695	48.856	320.0	ROX	Roseau	MN	727477	04970	0	Roseau
76	-95.344	48.941	326.0	RRT	Warroad	MN	726548	04971	0	Roseau
77	-92.492	43.904	396.0	RST	Rochester	MN	726440	14925	72644	Olmsted
78	-95.080	44.548	311.0	RWF	Redwood Falls	MN	726556	14992	0	Redwood
79	-94.801	46.382	391.0	SAZ	Staples	MN	727514	54910	0	Wadena
80	-93.035	44.856	249.0	SGS	South St. Paul	MN	726603	04974	0	Dakota
81	-94.052	45.544	310.0	STC	St. Cloud	MN	726550	14926	0	Sherburne
82	-93.054	44.931	212.0	STP	Saint Paul Downtown Arprt	MN	726584	14927	0	Ramsey
83	-92.093	46.683	204.0	SUW	Superior	WI	726427	54908	0	Douglas
84	-96.183	48.066	338.0	TVF	Thief River Falls	MN	727555	94956	0	Pennington
85	-94.498	44.318	308.0	ULM	New Ulm Municipal Arprt	MN	726567	04980	0	Brown
86	-96.412	45.305	332.0	VVV	Ortonville	MN	727515	04982	0	Big Stone
87	-94.202	46.991	405.0	XVG	Longville	MN	727497	04984	0	Cass

CollectedSFCStationsDatabas (2)

03/07/2012

ID	StationType	AERMINUTE	FinalStation	Useable	YearsSelected	ClosestUPA	DistanceToABR	DistanceToINL	DistanceToMPX
ABR	ASOS	Yes	Need 2010	Useable	2005 - 2009	ABR	0.011881	5.905536	4.884825
ADC	AWOS IIIP/T	No	Need 2010	Caution	2004 - 2008	MPX	3.354883	2.780682	2.296371
AEL	AWOS IIIP/T	No	Need 2010	Useable	2003 - 2007	MPX	5.346398	4.879168	1.183356
AIT	AWOS IIIP/T	No	No	Not Useable	2003 - 2007	MPX	4.862185	2.031539	1.703097
ANE	AWOS IIIP	No	Need 2010	Caution	2004 - 2008	MPX	5.210021	3.423927	0.458293
ATY	ASOS	Yes	Need 2010	Useable	2005 - 2009	ABR	1.369026	5.233159	3.589973
AXN	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	3.047453	3.352238	2.093409
BBB	AWOS IIIP/T	No	No	Caution	2003 - 2007	MPX	2.769219	3.936092	2.136834
BDE	ASOS	Yes	No	Not Useable	NA	INL	5.020804	1.216776	4.013235
BDH	AWOS IIIP/T	No	No	Not Useable	NA	MPX	3.346300	3.839318	1.542206
BFW	AWOS IIIP/T	No	No	Not Useable	2004 - 2008	INL	7.230566	2.382143	3.226971
BJI	AWOS III	No	Need 2010	Useable	2004 - 2008	INL	4.045939	1.856508	2.984819
BRD	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	4.386943	2.277516	1.654915
CBG	AWOS IIIP/T	No	No	Not Useable	2002 - 2006	MPX	5.152242	3.006834	0.770306
CKC	AWOS IIIP/T	No	Need 2010	Caution	2004 - 2008	INL	8.373413	3.098352	4.362717
KCN	AWOS IIIP/T	No	Need 2010	Useable	2005 - 2009	ABR	2.983746	3.301859	4.275610
COQ	AWOS IIIP/T	No	Need 2010	Caution	2004 - 2008	INL	6.039235	2.066636	2.132183
CQM	AWOS IIIP	No	No	Not Useable	2004 - 2008	INL	6.191752	1.023236	3.097751
DLH	ASOS	Yes	Yes	Useable	2006 - 2010	INL	6.379569	2.102329	2.424027
DTL	AWOS IIIP/T	No	Yes	Useable	2006 - 2010	ABR	2.877316	3.031275	3.045744
DVP	AWOS IIIP/T	No	Need 2010	Not Useable	NA	MPX	3.010759	5.154709	2.377754
DYT	AWOS IIIP/T	No	Yes	Useable	2006 - 2010	INL	6.494078	2.281897	2.414105
EAU	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	6.950453	4.159581	2.077227
ELO	AWOS IIIP	No	No	Not Useable	2004 - 2008	INL	6.993918	1.729975	3.442711
EVM	AWOS IIIP/T	No	No	Not Useable	2004 - 2008	INL	6.236084	1.448417	2.790306
FAR	ASOS	Yes	Yes	Useable	2006 - 2010	ABR	2.162088	3.794199	3.848442
FBL	AWOS IIIP/T	No	Need 2010	Not Useable	NA	MPX	5.224307	4.232474	0.578056
FCM	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	4.988757	3.735032	0.103190
FFM	AWOS IIIP	Yes	Yes	Useable	2006 - 2010	ABR	2.407630	3.573440	2.960317
FGN	AWOS IIIP	No	Need 2010	Useable	2005 - 2009	INL	5.220267	1.683586	4.664619
FKA	AWOS IIIP/T	No	Need 2010	Useable	2005 - 2009	MPX	6.483591	5.034656	1.815955
FOZ	AWOS IIIP	No	No	Not Useable	2004 - 2008	INL	5.302351	0.818127	2.934462
FRM	AWOS III	No	Yes	Useable	2006 - 2010	MPX	4.387331	5.020402	1.474804
FSD	ASOS	Yes	Yes	Useable	2006 - 2010	ABR	2.508635	6.007821	3.431158
FSE	AWOS IIIP/T	No	Need 2010	Caution	2004 - 2008	INL	3.399212	2.562388	3.520655
GDB	AWOS IIIP/T	No	Need 2010	Useable	2005 - 2009	MPX	2.942434	4.377253	1.993279
GFK	ASOS	Yes	Yes	Useable	2006 - 2010	ABR	2.778802	3.835017	4.763643
GHW	AWOS IIIP/T	No	Need 2010	Useable	2005 - 2009	MPX	3.100400	3.491459	1.926027
GNA	ASOS	Yes	No	Useable	2006 - 2010	INL	8.389203	3.161615	4.333248
GPZ	AWOS III	No	No	Useable	2003 - 2007	INL	5.208224	1.363001	2.354056
GYL	AWOS IIIP/T	No	Need 2010	Caution	2004 - 2008	MPX	4.382185	3.862691	0.529068
HCD	AWOS IIIP/T	No	Need 2010	Caution	2004 - 2008	MPX	4.074354	3.833235	0.818179
HCO	AWOS IIIP/T	No	Yes	Useable	2006 - 2010	INL	3.613211	3.550344	5.164647

CollectedSFCStationsDatabas (2)

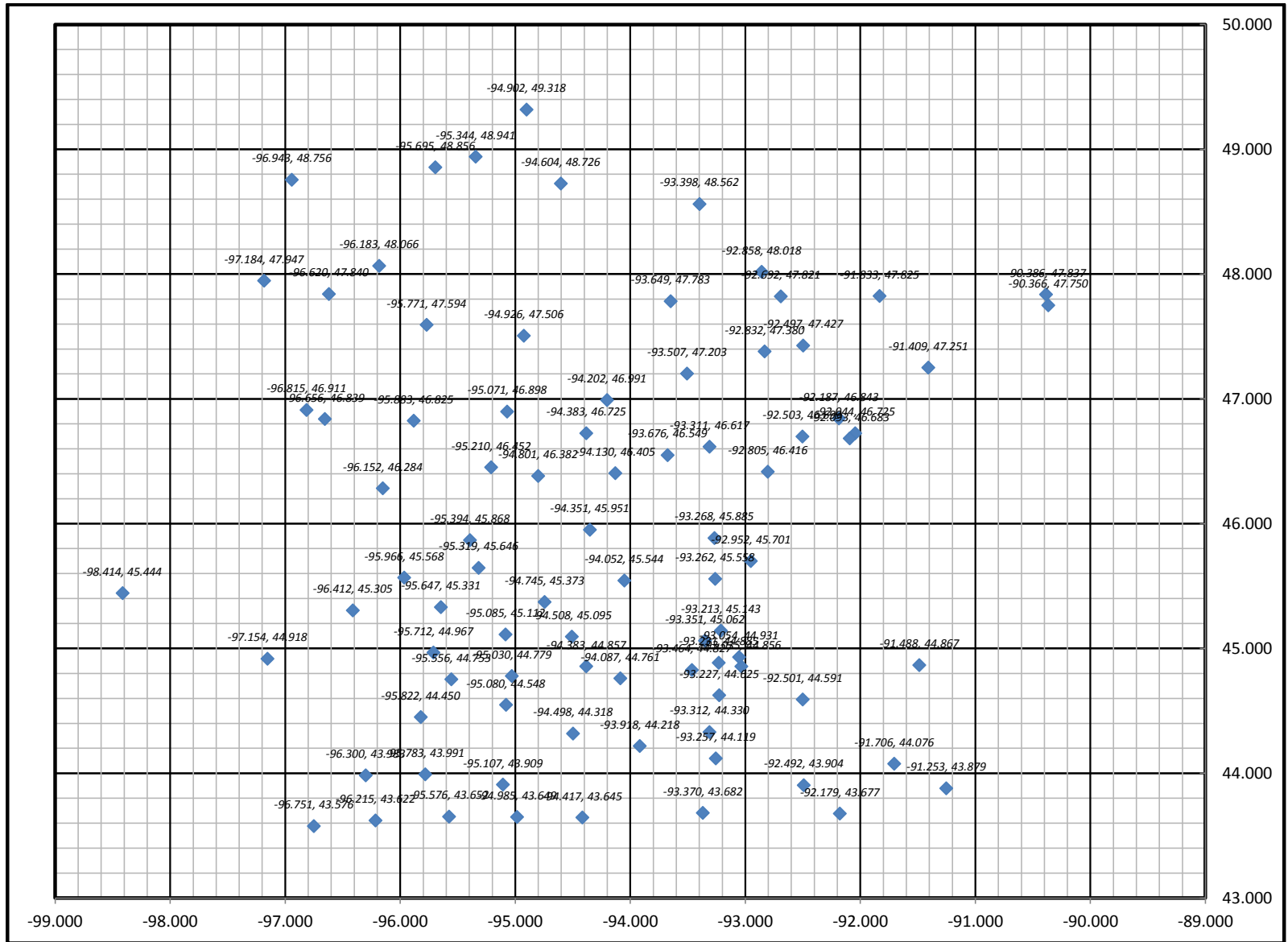
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ID	StationType	AERMINUTE	FinalStation	Useable	YearsSelected	ClosestUPA	DistanceToABR	DistanceToINL	DistanceToMPX
HIB	ASOS	Yes	Yes	Useable	2006 - 2010	INL	5.903601	1.309608	2.634844
HZX	AWOS IIIP/T	No	Need 2010	Not Useable	NA	MPX	5.232421	1.946630	1.785405
ILL		0 No	No	Not Useable	NA	MPX	108.403812	105.268444	103.758829
INL	ASOS	Yes	Yes	Useable	2006 - 2010	INL	5.899097	0.000050	3.715780
JKJ	AWOS IIIP/T	No	Yes	Useable	2006 - 2010	ABR	2.236984	3.684691	3.675475
JMR	AWOS IIIP/T	No	No	Not Useable	2004 - 2008	MPX	5.162901	2.679858	1.076968
LJF	AWOS IIIP/T	No	Need 2010	Caution	2004 - 2008	MPX	3.921606	3.640014	0.974702
LSE	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	7.331602	5.150217	2.507210
LVN	AWOS IIIP/T	No	No	Not Useable	2002 - 2006	MPX	5.252111	3.939981	0.405451
LXL	AWOS IIIP/T	No	No	Not Useable	2003 - 2007	MPX	4.092246	2.778910	1.353370
LVV	AWOS IIIP/T	No	Need 2010	Not Useable	NA	ABR	2.862616	5.686677	2.920867
MIC	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	5.077594	3.499583	0.301776
MJQ	AWOS IIIP/T	No	Yes	Useable	2006 - 2010	MPX	3.875370	5.161816	1.858760
MKT	AWOS III	No	No	Useable	2002 - 2006	MPX	4.662475	4.374039	0.723039
MML	AWOS III	No	Yes	Useable	2006 - 2010	MPX	2.779881	4.772081	2.291457
MOX	AWOS IIIP/T	No	Yes	Useable	2006 - 2010	ABR	2.449893	3.944089	2.506126
MSP	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	5.213337	3.680050	0.335664
MVE	AWOS IIIP/T	No	No	Useable	2004 - 2008	MPX	2.745485	4.274151	2.149769
MWM	AWOS IIIP	No	Need 2010	Useable	2003 - 2007	MPX	3.649692	4.956319	1.806381
MZH	AWOS IIIP/T	No	No	Not Useable	2004 - 2008	MPX	5.690161	2.225601	1.741574
ONA	AWOS IIIP/T	No	No	Not Useable	2002 - 2006	MPX	6.847967	4.793983	2.013721
ORB	AWOS IIIP/T	No	No	Not Useable	2004 - 2008	INL	6.118004	0.765958	3.246842
OTG	AWOS III	No	No	Not Useable	NA	MPX	3.361913	5.370330	2.340098
OVL	AWOS IIIP/T	No	Yes	Useable	2006 - 2010	MPX	3.449977	4.119358	1.466931
OWA	AWOS IIIP	No	Need 2010	Caution	2004 - 2008	MPX	5.326829	4.444662	0.792767
PEX	AWOS IIIP/T	No	Need 2010	Not Useable	NA	MPX	3.668997	3.461727	1.290971
PKD	ASOS	Yes	Yes	Useable	2006 - 2010	INL	3.640567	2.358863	2.542556
PQN	AWOS IIIP	No	No	Not Useable	NA	ABR	2.575383	5.420634	2.869190
PWC	AWOS IIIP	No	No	Not Useable	2002 - 2006	MPX	4.225514	2.084069	2.045870
RGK	AWOS IIIP/T	No	No	Not Useable	2003 - 2007	MPX	5.975146	4.070430	1.094916
ROS	AWOS IIIP/T	No	No	Caution	2003 - 2007	MPX	5.466541	2.895313	1.048824
ROX	AWOS IIIP/T	No	Need 2010	Caution	2004 - 2008	INL	4.353492	2.315575	4.537468
RRT	AWOS IIIP/T	No	Need 2010	Useable	2005 - 2009	INL	4.644103	1.982946	4.461826
RST	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	6.121133	4.744790	1.430086
RWF	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	3.454223	4.351446	1.544960
SAZ	AWOS IIIP	No	Need 2010	Not Useable	2003 - 2007	MPX	3.729246	2.591697	1.969110
SGS	AWOS IIIP/T	No	No	Not Useable	2004 - 2008	MPX	5.411969	3.723054	0.530435
STC	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	4.362633	3.087247	0.848134
STP	ASOS	Yes	Yes	Useable	2006 - 2010	MPX	5.384702	3.647009	0.517194
SUW	AWOS IIIP	No	No	Not Useable	2006 - 2010	INL	6.438966	2.287313	2.351937
TVF	AWOS III	No	No	Useable	2005 - 2009	INL	3.433356	2.828955	4.147648
ULM	AWOS IIIP	No	Need 2010	Caution	2004 - 2008	MPX	4.077214	4.383621	1.073689
VVV	AWOS IIIP	No	No	Useable	2005 - 2009	ABR	2.006602	4.437284	2.883557
XVG	AWOS IIIP	No	No	Not Useable	2003 - 2007	INL	4.482326	1.764554	2.233971



ID	Lon. (W)	Lat. (N)
ABR	-98.414	45.444
ADC	-95.210	46.452
AEL	-93.370	43.682
AIT	-93.676	46.549
ANE	-93.213	45.143
ATY	-97.154	44.918
AXN	-95.394	45.868
BBB	-95.647	45.331
BDE	-94.604	48.726
BDH	-95.085	45.112
BFW	-91.409	47.251
BJI	-94.926	47.506
BRD	-94.130	46.405
CBG	-93.262	45.558
CKC	-90.386	47.837
CKN	-96.620	47.840
COQ	-92.503	46.699
CQM	-92.692	47.821
DLH	-92.187	46.843
DTL	-95.883	46.825
DVP	-95.783	43.991
DYT	-92.044	46.725
EAU	-91.488	44.867
ELO	-91.833	47.825
EVM	-92.497	47.427
FAR	-96.815	46.911
FBL	-93.312	44.330
FCM	-93.464	44.827
FFM	-96.152	46.284
FGN	-94.902	49.318
FKA	-92.179	43.677
FOZ	-93.649	47.783
FRM	-94.417	43.645
FSD	-96.751	43.576
FSE	-95.771	47.594
GDB	-95.556	44.753
GFK	-97.184	47.947
GHW	-95.319	45.646
GNA	-90.366	47.750
GPZ	-93.507	47.203
GYL	-94.087	44.761
HCD	-94.383	44.857
HCO	-96.943	48.756
HIB	-92.832	47.380
HZX	-93.311	46.617
HL		
INL	-93.398	48.562
JKJ	-96.656	46.839
JMR	-93.268	45.885
LJF	-94.508	45.095

LSE	-91.253	43.879
LVN	-93.227	44.625
LXL	-94.351	45.951
LYV	-96.215	43.622
MIC	-93.351	45.062
MJQ	-94.985	43.649
MKT	-93.918	44.218
MML	-95.822	44.450
MOX	-95.966	45.568
MSP	-93.231	44.885
MVE	-95.712	44.967
MWM	-95.107	43.909
MZH	-92.805	46.416
ONA	-91.706	44.076
ORB	-92.858	48.018
OTG	-95.576	43.652
OVL	-95.030	44.779
OWA	-93.257	44.119
PEX	-94.745	45.373
PKD	-95.071	46.898
PQN	-96.300	43.983
PWC	-94.383	46.725
RGK	-92.501	44.591
ROS	-92.952	45.701
ROX	-95.695	48.856
RRT	-95.344	48.941
RST	-92.492	43.904
RWF	-95.080	44.548
SAZ	-94.801	46.382
SGS	-93.035	44.856
STC	-94.052	45.544
STP	-93.054	44.931
SUW	-92.093	46.683
TVF	<del>-96.183</del>	<del>48.066</del>
ULM	-94.498	44.318
VVV	<del>-96.412</del>	<del>45.305</del>
XVG	-94.202	46.991





Location	ID	Call Sign	WBAN	WMO	State	County	Elevation		NDC Location (Degrees, Minutes)		NDC Location (Decimal Degrees)		FAA Location	
							(meters)	(feet)	Lat. (N)	Lon. (W)	Lat. (N)2	Lon. (W)3	Lat. (N)4	Lon. (W)5
Duluth	DLH	KDLH	14913	72745	MN	Saint Louis	436.8	1433	46°50'	92°11'	46.833333	-92.183333	46.842000	-92.194000
Eau Claire	EAU	KEAU	14991	N/A	WI	Chippewa	269.7	885	44°52'	91°29'	44.866667	-91.483333	44.866000	-91.484000
Fargo	FAR	KFAR	14914	72753	ND	Cass	274.3	900	46°56'	96°49'	46.933333	-96.816667	46.921000	-96.816000
Hibbing	HIB	KHIB	94931	N/A	MN	Saint Louis	410.6	1347	47°23'	92°50'	47.383333	-92.833333	47.387000	-92.839000
International Falls	INL	KINL	14918	72747	MN	Koochiching	360.6	1183	48°34'	93°24'	48.566667	-93.400000	48.566000	-93.403000
La Crosse	LSE	KLSE	14920	72643	WI	La Crosse	198.7	652	43°53'	91°15'	43.883333	-91.250000	43.879000	-91.257000
Minneapolis	MSP	KMSP	14922	72658	MN	Hennepin	265.8	872	44°53'	93°14'	44.883333	-93.233333	44.883000	-93.217000
Rochester	RST	KRST	14925	72644	MN	Olmstead	397.5	1304	43°54'	92°30'	43.900000	-92.500000	43.907000	-92.499000
Sioux Falls	FSD	KFSD	14944	72651	SD	Minnehaha	435.3	1428	43°35'	96°45'	43.583333	-96.750000	43.582000	-96.742000

<u>Location</u>	<u>Actual Location</u>		<u>NWS Location (Optional)</u>		<u>Available Time Periods</u>			<u>FAA</u>		
	<u>Lat. (N)6</u>	<u>Lon. (W)7</u>	<u>Lat. (N)8</u>	<u>Lon. (W)9</u>	<u>Starting Date</u>	<u>Ending Date</u>	<u>Column10</u>	<u>Telephone #</u>	<u>Type</u>	<u>Available as DS3505 on NCDC?</u>
Duluth	46.843400	-92.186600			1998	Present	*After Dec. 29, 2004, Station Elevation changes	(218) 723-8340	ASOS	Yes
Eau Claire	44.866500	-91.487900			2000	Present		(715) 832-7990	ASOS	Yes
Fargo	46.911100	-96.814700			1996	Present		(701) 298-3877	ASOS	Yes
Hibbing	47.380400	-92.832400			2000	Present		(218) 263-8384	ASOS	Yes
International Falls	48.561500	-93.398200			1997	Present	*After Oct. 1, 2005, Station elevation changed	(218) 285-2996	ASOS	Yes
La Crosse	43.879200	-91.253200	43.822300	-91.191800	2000	Present	*After Sep. 11, 2002, Station elevation changed	(608) 781-9067	ASOS	Yes
Minneapolis	44.885200	-93.231300			1996	Present		(612) 725-0939	ASOS	Yes
Rochester	43.904000	-92.492100			1996	Present	*After Apr. 26, 2005, Station Elevation changes	(507) 285-0298	ASOS	Yes
Sioux Falls	43.576400	-96.751300			1998	Present		(605) 331-7899	ASOS	Yes

UPA Stations

03/07/2012

<u>Location</u>	<u>ID</u>	<u>WBAN</u>	<u>WMO</u>	<u>State</u>	<u>County</u>	<u>Elevation</u>		<u>NCDC Location</u>		<u>FAA Location</u>		<u>Actual Location</u>	
						<i>(meters)</i>	<i>(feet)</i>	<i>(Degrees, Minutes)</i>	<i>(Decimal Degrees)</i>	<i>(N)</i>	<i>(W)</i>	<i>(N)</i>	<i>(W)</i>
Minneapolis	MPX	94983	72649	MN	Hennepin	287		44.83	-93.55			44.849468	-93.565057
International Falls	INL	14918	72747	MN	Koochiching	359		48.57	-93.38			48.561462	-93.398232
Aberdeen	ABR	14929	72659	SD	Brown	397		45.45	-98.42			45.455448	-98.413356

MN Stations

03/07/2012

USAF	WBAN	STATION NAME	CTRY	FIPS	STATE	CALL	LAT	LON	ELEV(.1M)	Column1	LAT2	LON3	ELEV(M)
999999	04994	AGASSIZ NATIONAL WILDLIFE REF	US	US	MN	21D6	48306	-95874	3505		48.306	-95.874	350.5
726573	99999	AIRLAKE	US	US	MN	KY12	44633	-93233	2920		44.633	-93.233	292.0
726562	04943	AIRLAKE ARPT	US	US	MN	KLVN	44628	-93218	2926		44.628	-93.218	292.6
726562	99999	AIRLAKE ARPT	US	US	MN	KLVN	44617	-93217	2930		44.617	-93.217	293.0
727504	94999	AITKIN NDB(AWOS)	US	US	MN	KAIT	46548	-93668	3670		46.548	-93.668	367.0
727504	99999	AITKIN NDB(AWOS)	US	US	MN	KAIT	46550	-93683	3670		46.550	-93.683	367.0
726589	94968	ALBERT LEA (AWOS)	US	US	MN	KAEL	43681	-93367	3837		43.681	-93.367	383.7
726589	99999	ALBERT LEA (AWOS)	US	US	MN	KAEL	43683	-93367	3830		43.683	-93.367	383.0
726557	14910	ALEXANDRIA MUNICIPAL AP	US	US	MN	KAXN	45883	-95393	4362		45.883	-95.393	436.2
999999	14910	ALEXANDRIA MUNICIPAL AP	US	US	MN	KAXN	45883	-95393	4362		45.883	-95.393	436.2
727566	04902	AUSTIN MUNI	US	US	MN	KAUM	43665	-92933	3758		43.665	-92.933	375.8
727566	99999	AUSTIN MUNI	US	US	MN	KAUM	43667	-92933	3750		43.667	-92.933	375.0
727476	94961	BAUDETTE INTERNATIONAL AP	US	US	MN	KBDE	48728	-94610	3304		48.728	-94.610	330.4
727550	14958	BEMIDJI MUNICIPAL	US	US	MN	KBJI	47509	-94933	4237		47.509	-94.933	423.7
727550	99999	BEMIDJI MUNICIPAL	US	US	MN	KBJI	47500	-94933	4200		47.500	-94.933	420.0
727507	54904	BENSON MUNI	US	US	MN	KBBB	45332	-95651	3167		45.332	-95.651	316.7
727507	99999	BENSON MUNI	US	US	MN	KBBB	45317	-95650	3170		45.317	-95.650	317.0
727468	04928	BIGFORK	US	US	MN	KFOZ	47783	-93650	4112		47.783	-93.650	411.2
727468	99999	BIGFORK	US	US	MN	KFOZ	47783	-93650	4110		47.783	-93.650	411.0
726555	94938	BRAINERD/WIELAND	US	US	MN	KBRD	46405	-94131	3737		46.405	-94.131	373.7
726555	99999	BRAINERD/WIELAND	US	US	MN	KBRD	46400	-94133	3740		46.400	-94.133	374.0
722114	99999	BUFFALO MUNICIPAL	US	US	MN	KCFE	45150	-93833	2950		45.150	-93.833	295.0
999999	54901	BUFFALO MUNICIPAL AIRPORT	US	US	MN	K8Y2	45159	-93843	2947		45.159	-93.843	294.7
727503	04909	CAMBRIDGE MUNI	US	US	MN	KCBG	45559	-93251	2880		45.559	-93.251	288.0
727503	99999	CAMBRIDGE MUNI	US	US	MN	KCBG	45567	-93267	2870		45.567	-93.267	287.0
726490	99999	CHANHASSEN	US	US	MN		44850	-93567	2870		44.850	-93.567	287.0
726558	04914	CLOQUET (AWOS)	US	US	MN	KCOQ	46703	-92500	3901		46.703	-92.500	390.1
726558	99999	CLOQUET (AWOS)	US	US	MN	KCOQ	46700	-92500	3900		46.700	-92.500	390.0
726549	54905	COOK MUNI ARPT	US	US	MN	KCQM	47822	-92689	4045		47.822	-92.689	404.5
726549	99999	COOK MUNI ARPT	US	US	MN	KCQM	47817	-92700	4020		47.817	-92.700	402.0
727473	94977	CRANE LAKE (AWOS)	US	US	MN	KCDD	48266	-92483	0		48.266	-92.483	0.0
727473	99999	CRANE LAKE (AWOS)	US	US	MN	KCDD	46267	-92567	3500		46.267	-92.567	350.0
720125	99999	CRANE LAKE(AWS)	US	US	MN	K8Y8	46267	-92567	3500		46.267	-92.567	350.0
727452	04912	CROOKSTON MUNI FLD	US	US	MN	KCKN	47842	-96617	2740		47.842	-96.617	274.0
727452	99999	CROOKSTON MUNI FLD	US	US	MN	KCKN	47850	-96617	2730		47.850	-96.617	273.0
727457	94962	DETROIT LAKES(AWOS)	US	US	MN	KDTL	46825	-95883	4255		46.825	-95.883	425.5
727457	99999	DETROIT LAKES(AWOS)	US	US	MN	KDTL	46833	-95883	4260		46.833	-95.883	426.0
727464	99999	DODGE CENTER	US	US	MN	K87D	44017	-92833	3980		44.017	-92.833	398.0
726596	04978	DODGE CENTER AIRPOR	US	US	MN	KTOB	44018	-92818	3978		44.018	-92.818	397.8
726596	99999	DODGE CENTER AIRPOR	US	US	MN	KTOB	44017	-92817	3980		44.017	-92.817	398.0
997269	99999	DULUTH	US	US	MN	DULM5	46783	-95100	1950		46.783	-95.100	195.0





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727456	04919	DULUTH HARBOR (CGS)	US	US	MN	KDYT	46722	-92034	1859		46.722	-92.034	185.9
727456	99999	DULUTH HARBOR (CGS)	US	US	MN	KDYT	46767	-92083	1860		46.767	-92.083	186.0
720043	99999	DULUTH HARBOR(USCG)	US	US	MN	K30Y	46767	-92083	1860		46.767	-92.083	186.0
727450	14913	DULUTH INTERNATIONAL ARPT	US	US	MN	KDLH	46844	-92194	4319		46.844	-92.194	431.9
999999	14913	DULUTH WILLIAMSN-JOHN SN MUNI	US	US	MN	KDLH	46844	-92194	4319		46.844	-92.194	431.9
720142	99999	DULUTH/SKY HARBOR	US	US	MN	KD36	46717	-92050	1860		46.717	-92.050	186.0
727459	94964	ELY MUNI	US	US	MN	KELO	47822	-91818	4435		47.822	-91.818	443.5
727459	99999	ELY MUNI	US	US	MN	KELO	47817	-91833	4550		47.817	-91.833	455.0
727474	04923	EVELETH MUNI (AWOS)	US	US	MN	KEVM	47424	-92485	0		47.424	-92.485	0.0
727474	99999	EVELETH MUNI (AWOS)	US	US	MN	KEVM	47400	-92500	4210		47.400	-92.500	421.0
726586	94948	FAIRMONT MUNI(AWOS)	US	US	MN	KFRM	43646	-94417	3539		43.646	-94.417	353.9
726586	99999	FAIRMONT MUNI(AWOS)	US	US	MN	KFRM	43650	-94417	3540		43.650	-94.417	354.0
726563	94969	FARIBAULT MUNI AWOS	US	US	MN	KFBL	44325	-93301	3219		44.325	-93.301	321.9
726563	99999	FARIBAULT MUNI AWOS	US	US	MN	KFBL	44333	-93317	3220		44.333	-93.317	322.0
726560	94966	FERGUS FALLS(AWOS)	US	US	MN	KFFM	46289	-96151	3609		46.289	-96.151	360.9
726560	99999	FERGUS FALLS(AWOS)	US	US	MN	KFFM	46283	-96150	3610		46.283	-96.150	361.0
727467	04926	FLAG ISLAND	US	US	MN	KFGN	49318	-94900	3292		49.318	-94.900	329.2
727467	99999	FLAG ISLAND	US	US	MN	KFGN	49317	-94900	3280		49.317	-94.900	328.0
726579	94963	FLYING CLOUD	US	US	MN	KFCM	44832	-93470	2877		44.832	-93.470	287.7
726579	99999	FLYING CLOUD	US	US	MN	KFCM	44817	-93450	2830		44.817	-93.450	283.0
727505	04929	FOSSTON(AWOS)	US	US	MN	KFSE	47593	-95768	3880		47.593	-95.768	388.0
727505	99999	FOSSTON(AWOS)	US	US	MN	KFSE	47583	-95767	3880		47.583	-95.767	388.0
727516	99999	GLENCOE	US	US	MN	KY29	44750	-94083	3020		44.750	-94.083	302.0
727517	04932	GLENCOE MUNI	US	US	MN	KGYL	44756	-94068	3024		44.756	-94.068	302.4
727517	99999	GLENCOE MUNI	US	US	MN	KGYL	44750	-94067	3020		44.750	-94.067	302.0
726543	99999	GLENWOOD	US	US	MN	K53D	45650	-95383	4230		45.650	-95.383	423.0
726547	04931	GLENWOOD (ASOS)	US	US	MN	KGHW	45644	-95317	4246		45.644	-95.317	424.6
726547	99999	GLENWOOD (ASOS)	US	US	MN	KGHW	45650	-95317	4250		45.650	-95.317	425.0
997259	99999	GRAND MARAIS	US	US	MN	GDMM5	47750	-90333	1950		47.750	-90.333	195.0
727454	04911	GRAND MARAIS MUNI	US	US	MN	KCKC	47838	-90368	5480		47.838	-90.368	548.0
727454	99999	GRAND MARAIS MUNI	US	US	MN	KCKC	47833	-90383	5480		47.833	-90.383	548.0
727469	94992	GRAND MARIAS	US	US	MN	KGNA	47747	-90344	1859		47.747	-90.344	185.9
727469	99999	GRAND MARIAS	US	US	MN	KGNA	47750	-90367	1860		47.750	-90.367	186.0
727458	94919	GRAND RAPIDS(AWOS)	US	US	MN	KGPZ	47164	-93484	4130		47.164	-93.484	413.0
727458	99999	GRAND RAPIDS(AWOS)	US	US	MN	KGPZ	47217	-93517	4130		47.217	-93.517	413.0
722033	04999	GRANITE FALLS	US	US	MN	KGDB	44753	-95556	3191		44.753	-95.556	319.1
722033	99999	GRANITE FALLS	US	US	MN	K1G2	44750	-95550	3190		44.750	-95.550	319.0
727478	04934	HALLOCK	US	US	MN	KHCO	48753	-96934	2496		48.753	-96.934	249.6
727478	99999	HALLOCK	US	US	MN	KHCO	48783	-96950	2500		48.783	-96.950	250.0
720002	99999	HALLOCK(AWS)	US	US	MN	K03Y	48783	-96950	2500		48.783	-96.950	250.0
727455	94931	HIBBING CHISHOLM-HIBBING AP	US	US	MN	KHIB	47387	-92839	4136		47.387	-92.839	413.6



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999999	94931	HIBBING CHISHOLM-HIBBING AP	US	US	MN	KHIB	47387	-92839	4136		47.387	-92.839	413.6
726569	04933	HUTCHINSON (AWOS)	US	US	MN	KHCD	44859	-94368	3231		44.859	-94.368	323.1
726569	99999	HUTCHINSON (AWOS)	US	US	MN	KHCD	44867	-94383	3230		44.867	-94.383	323.0
727470	14918	INTERNATIONAL FALLS INTL AP	US	US	MN	KINL	48566	-93403	3606		48.566	-93.403	360.6
999999	14918	INTERNATIONAL FALLS INTL AP	US	US	MN	KINL	48566	-93403	3606		48.566	-93.403	360.6
726593	04946	JACKSON MUNI	US	US	MN	KMJQ	43650	-94984	4407		43.650	-94.984	440.7
726593	99999	JACKSON MUNI	US	US	MN	KMJQ	43650	-94983	4410		43.650	-94.983	441.0
726583	04941	LITCHFIELD MUNI	US	US	MN	KLJF	45147	-94501	3475		45.147	-94.501	347.5
726583	99999	LITCHFIELD MUNI	US	US	MN	KLJF	45100	-94500	3470		45.100	-94.500	347.0
720063	99999	LITCHFIELD(AWS)	US	US	MN	K43F	45100	-94500	3470		45.100	-94.500	347.0
726578	04944	LITTLE FALLS (AWOS)	US	US	MN	KLXL	45949	-94334	3420		45.949	-94.334	342.0
726578	99999	LITTLE FALLS (AWOS)	US	US	MN	KLXL	45950	-94350	3420		45.950	-94.350	342.0
727465	99999	LONGVILLE	US	US	MN	KD33	47000	-94200	4070		47.000	-94.200	407.0
727497	04984	LONGVILLE MUNI AIRP	US	US	MN	KXVG	46990	-94200	4066		46.990	-94.200	406.6
727497	99999	LONGVILLE MUNI AIRP	US	US	MN	KXVG	46983	-94183	4070		46.983	-94.183	407.0
722006	54926	LUVERNE	US	US	MN	KLYV	43621	-96216	4362		43.621	-96.216	436.2
722006	99999	LUVERNE	US	US	MN	KLYV	43617	-96217	4360		43.617	-96.217	436.0
727466	04918	MADISON	US	US	MN	KDXX	44986	-96168	3298		44.986	-96.168	329.8
727466	99999	MADISON	US	US	MN	KDXX	44983	-96183	3300		44.983	-96.183	330.0
726585	14954	MANKATO(AWOS)	US	US	MN	KMKKT	44221	-93917	3109		44.221	-93.917	310.9
726585	99999	MANKATO(AWOS)	US	US	MN	KMKKT	44217	-93917	3110		44.217	-93.917	311.0
720228	99999	MAPLE LAKE	US	US	MN	KY33	45233	-93983	3130		45.233	-93.983	313.0
722144	04945	MAPLE LAKE	US	US	MN	KMGG	45236	-93983	3133		45.236	-93.983	313.3
722144	99999	MAPLE LAKE	US	US	MN	KMGG	45233	-93983	3130		45.233	-93.983	313.0
726559	94976	MARSHALL/RYAN(AWOS)	US	US	MN	KMML	44450	-95817	3597		44.450	-95.817	359.7
726559	99999	MARSHALL/RYAN(AWOS)	US	US	MN	KMML	44450	-95817	3590		44.450	-95.817	359.0
720258	04997	MCGREGOR	US	US	MN	KHZX	46619	-93310	3743		46.619	-93.310	374.3
720258	99999	MCGREGOR	US	US	MN	KHZX	46617	-93317	3740		46.617	-93.317	374.0
999999	14947	MINNEAPOLIS NAS	US	US	MN	MSP	44883	-93217	2551		44.883	-93.217	255.1
720310	99999	MINNEAPOLIS(WFO)	US	US	MN	KMPX	44850	-93567	2900		44.850	-93.567	290.0
726577	94974	MINNEAPOLIS/BLAINE	US	US	MN	KANE	45145	-93201	2780		45.145	-93.201	278.0
726577	99999	MINNEAPOLIS/BLAINE	US	US	MN	KANE	45150	-93217	2780		45.150	-93.217	278.0
726575	94960	MINNEAPOLIS/CRYSTAL	US	US	MN	KMIC	45063	-93351	2649		45.063	-93.351	264.9
726575	99999	MINNEAPOLIS/CRYSTAL	US	US	MN	KMIC	45067	-93350	2650		45.067	-93.350	265.0
726580	14922	MINNEAPOLIS-ST PAUL INT'L ARP	US	US	MN	KMSP	44883	-93229	2554		44.883	-93.229	255.4
999999	14922	MINNEAPOLIS-ST PAUL WOLD-CHAM	US	US	MN	KMSP	44883	-93229	2554		44.883	-93.229	255.4
726553	04951	MONTEVIDEO (AWOS)	US	US	MN	KMVE	44969	-95701	3152		44.969	-95.701	315.2
726553	99999	MONTEVIDEO (AWOS)	US	US	MN	KMVE	44967	-95717	3150		44.967	-95.717	315.0
722129	04939	MOORHEAD	US	US	MN	KJKJ	46839	-96651	2795		46.839	-96.651	279.5
722129	99999	MOORHEAD	US	US	MN	KJKJ	46833	-96667	2800		46.833	-96.667	280.0
720127	99999	MOORHEAD(AWS)	US	US	MN	K99M	46833	-96667	2800		46.833	-96.667	280.0



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727449	04954	MOOSE LAKE CO ARPT	US	US	MN	KMZH	46419	-92800	3280		46.419	-92.800	328.0
727449	99999	MOOSE LAKE CO ARPT	US	US	MN	KMZH	46417	-92800	3280		46.417	-92.800	328.0
727475	04940	MORA MUNI (AWOS)	US	US	MN	KJMR	45886	-93267	3085		45.886	-93.267	308.5
727475	99999	MORA MUNI (AWOS)	US	US	MN	KJMR	45883	-93267	3090		45.883	-93.267	309.0
720018	99999	MORA(AWS)	US	US	MN	K19D	45883	-93267	3090		45.883	-93.267	309.0
746500	99999	MORRIS	US	US	MN		45717	-95867	3470		45.717	-95.867	347.0
726565	04948	MORRIS MUNI (AWOS)	US	US	MN	KMOX	45566	-95967	3444		45.566	-95.967	344.4
726565	99999	MORRIS MUNI (AWOS)	US	US	MN	KMOX	45717	-95967	3470		45.717	-95.967	347.0
722252	54923	MYERS FIELD	US	US	MN	KCNB	44729	-96266	3636		44.729	-96.266	363.6
722252	99999	MYERS FIELD	US	US	MN	KCNB	44733	-96267	3640		44.733	-96.267	364.0
726567	04980	NEW ULM MUNI (AWOS)	US	US	MN	KULM	44319	-94500	3082		44.319	-94.500	308.2
726567	99999	NEW ULM MUNI (AWOS)	US	US	MN	KULM	44317	-94500	3080		44.317	-94.500	308.0
722168	04960	OLIVIA	US	US	MN	KOVL	44779	-95018	3280		44.779	-95.018	328.0
722168	99999	OLIVIA	US	US	MN	KOVL	44783	-95033	3280		44.783	-95.033	328.0
720229	99999	OLIVIA(AWS)	US	US	MN	KY39	44783	-95033	3280		44.783	-95.033	328.0
726544	04958	ORR	US	US	MN	KORB	48016	-92851	3996		48.016	-92.851	399.6
726544	99999	ORR	US	US	MN	KORB	48017	-92867	3970		48.017	-92.867	397.0
727515	04982	ORTONVILLE	US	US	MN	KVVV	45306	-96417	3353		45.306	-96.417	335.3
727515	99999	ORTONVILLE	US	US	MN	KVVV	45300	-96417	3350		45.300	-96.417	335.0
726568	04961	OWATONNA (AWOS)	US	US	MN	KOWA	44123	-93251	3493		44.123	-93.251	349.3
726568	99999	OWATONNA (AWOS)	US	US	MN	KOWA	44117	-93250	3500		44.117	-93.250	350.0
727453	94967	PARK RAPIDS MUNICIPAL AP	US	US	MN	KPKD	46901	-95068	4398		46.901	-95.068	439.8
720367	99999	PAYNESVILLE MUNI	US	US	MN	KPEX	45367	-94750	3600		45.367	-94.750	360.0
727500	99999	PEQUOT LAKE (AMOS)	US	US	MN	KP39	46600	-94317	3900		46.600	-94.317	390.0
727508	54915	PINE RIVER	US	US	MN	KPWC	46725	-94382	3947		46.725	-94.382	394.7
727508	99999	PINE RIVER	US	US	MN	KPWC	46717	-94383	3950		46.717	-94.383	395.0
726566	04965	PIPESTONE (AWOS)	US	US	MN	KPQN	43983	-96300	5291		43.983	-96.300	529.1
726566	99999	PIPESTONE (AWOS)	US	US	MN	KPQN	43983	-96317	5290		43.983	-96.317	529.0
720283	04927	PRESTON	US	US	MN	KFKA	43677	-92168	3889		43.677	-92.168	388.9
720283	99999	PRESTON	US	US	MN	KFKA	43683	-92183	3890		43.683	-92.183	389.0
720072	99999	PRESTON AIRPORT	US	US	MN	K49Y	43683	-92183	3890		43.683	-92.183	389.0
726682	54914	PRINCETON MUNI	US	US	MN	KPNM	45560	-93608	2984		45.560	-93.608	298.4
726682	99999	PRINCETON MUNI	US	US	MN	KPNM	45550	-93600	3060		45.550	-93.600	306.0
744667	99999	RAY S MILLER AAF	US	US	MN	KRYM	46083	-94350	3510		46.083	-94.350	351.0
726564	04967	RED WING	US	US	MN	KRGK	44589	-92483	2377		44.589	-92.483	237.7
726564	99999	RED WING	US	US	MN	KRGK	44583	-92483	2390		44.583	-92.483	239.0
726556	14992	REDWOOD FALLS MUNI	US	US	MN	KRWF	44547	-95082	3139		44.547	-95.082	313.9
726556	99999	REDWOOD FALLS MUNI	US	US	MN	KRWF	44550	-95083	3120		44.550	-95.083	312.0
726440	14925	ROCHESTER INTERNATIONAL ARPT	US	US	MN	KRST	43904	-92492	4023		43.904	-92.492	402.3
999999	14925	ROCHESTER MUNICIPAL ARPT	US	US	MN	KRST	43904	-92492	4023		43.904	-92.492	402.3
727477	04970	ROSEAU MUNI (AWOS)	US	US	MN	KROX	48856	-95684	3228		48.856	-95.684	322.8



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727477	99999	ROSEAU MUNI (AWOS)	US	US	MN	KROX	48850	-95700	3230		48.850	-95.700	323.0
720078	99999	RUSH CITY	US	US	MN	K54Y	45700	-92950	2810		45.700	-92.950	281.0
726679	04969	RUSH CITY RGNL ARPT	US	US	MN	KROS	45698	-92950	2813		45.698	-92.950	281.3
726679	99999	RUSH CITY RGNL ARPT	US	US	MN	KROS	45683	-92950	2810		45.683	-92.950	281.0
720143	99999	SAINT JAMES	US	US	MN	KD40	43983	-94550	3250		43.983	-94.550	325.0
726584	99999	SAINT PAUL DOWNTOWN	US	US	MN	KSTP	44950	-93067	2198		44.950	-93.067	219.8
727556	04905	SILVER BAY	US	US	MN	KBFW	47249	-91401	3319		47.249	-91.401	331.9
727556	99999	SILVER BAY	US	US	MN	KBFW	47200	-91400	3310		47.200	-91.400	331.0
997737	99999	SILVER BAY	US	US	MN	SLVM5	47267	-91083	1980		47.267	-91.083	198.0
720368	99999	SLAYTON MUNI	US	US	MN	KDVP	43983	-95783	4950		43.983	-95.783	495.0
999999	54924	SLAYTON MUNICIPAL AIRPORT	US	US	MN	KDVP	43987	-95783	4947		43.987	-95.783	494.7
720146	99999	SOUTH SAINT PAUL(AW	US	US	MN	KD97	44850	-93150	2500		44.850	-93.150	250.0
726603	04974	SOUTH ST PAUL MUNI	US	US	MN	KSGS	44857	-93018	671		44.857	-93.018	67.1
726603	99999	SOUTH ST PAUL MUNI	US	US	MN	KSGS	44850	-93150	2500		44.850	-93.150	250.0
999999	14926	ST CLOUD MUNICIPAL ARPT	US	US	MN	KSTC	45545	-94052	3121		45.545	-94.052	312.1
726550	14926	ST CLOUD REGIONAL ARPT	US	US	MN	KSTC	45545	-94052	3121		45.545	-94.052	312.1
726554	54906	ST JAMES MUNI ARPT	US	US	MN	KJYG	43986	-94558	3252		43.986	-94.558	325.2
726554	99999	ST JAMES MUNI ARPT	US	US	MN	KJYG	43983	-94550	3250		43.983	-94.550	325.0
726584	14927	ST PAUL DOWNTOWN AP	US	US	MN	KSTP	44930	-93048	2167		44.930	-93.048	216.7
999999	14927	ST PAUL DOWNTOWN AP	US	US	MN	KSTP	44930	-93048	2167		44.930	-93.048	216.7
722003	54930	STANTON	US	US	MN	KSYN	44476	-93016	2804		44.476	-93.016	280.4
722003	99999	STANTON	US	US	MN	KSYN	44467	-93017	2800		44.467	-93.017	280.0
727514	54910	STAPLES	US	US	MN	KSAZ	46381	-94806	3923		46.381	-94.806	392.3
727514	99999	STAPLES	US	US	MN	KSAZ	46383	-94800	3920		46.383	-94.800	392.0
727555	94956	THIEF RIVER(AWOS)	US	US	MN	KTVF	48065	-96183	3402		48.065	-96.183	340.2
727555	99999	THIEF RIVER(AWOS)	US	US	MN	KTVF	48067	-96183	3400		48.067	-96.183	340.0
727554	99999	TOFTE (RAMOS)	US	US	MN	KP61	47583	-90833	2410		47.583	-90.833	241.0
722342	54931	TRACY	US	US	MN	KTKC	44249	-95607	4084		44.249	-95.607	408.4
722342	99999	TRACY	US	US	MN	KTKC	44250	-95600	4080		44.250	-95.600	408.0
720104	99999	TWO HARBORS	US	US	MN	K62Y	47100	-91750	3280		47.100	-91.750	328.0
727444	04979	TWO HARBORS	US	US	MN	KTWM	47049	-91734	3292		47.049	-91.734	329.2
727444	99999	TWO HARBORS	US	US	MN	KTWM	47050	-91750	3280		47.050	-91.750	328.0
727446	99999	TWO HARBORS(AWOS)	US	US	MN	62Y	47100	-91750	3280		47.100	-91.750	328.0
726561	94997	WADENA	US	US	MN	KADC	46447	-95201	4176		46.447	-95.201	417.6
726561	99999	WADENA	US	US	MN	KADC	46450	-95217	4180		46.450	-95.217	418.0
720017	99999	WADENA WADENA(AWS)	US	US	MN	K17W	46450	-95217	4180		46.450	-95.217	418.0
726548	04971	WARROAD INTL	US	US	MN	KRRT	48941	-95335	3274		48.941	-95.335	327.4
726548	99999	WARROAD INTL	US	US	MN	KRRT	48933	-95333	3270		48.933	-95.333	327.0
727564	99999	WARROAD(AWOS)	US	US	MN	RAD	48933	-95333	3250		48.933	-95.333	325.0
720144	99999	WARROAD(AWS)	US	US	MN	KD45	48933	-95350	3280		48.933	-95.350	328.0
727560	99999	WARROAD(AWS)	US	US	MN		48933	-95350	3280		48.933	-95.350	328.0



MN Stations

03/07/2012

USAF	WBAN	STATION NAME	CTRY	FIPS	STATE	CALL	LAT	LON	ELEV(.1M)	Column1	LAT2	LON3	ELEV(M)
722032	54916	WASECA AIRPORT	US	US	MN	KACQ	44074	-93553	3432		44.074	-93.553	343.2
722032	99999	WASECA AIRPORT	US	US	MN	KACQ	44067	-93550	3430		44.067	-93.550	343.0
727486	04983	WASKISH MUNI AIRPT	US	US	MN	KVWU	48154	-94517	3600		48.154	-94.517	360.0
727486	99999	WASKISH MUNI AIRPT	US	US	MN	KVWU	48150	-94517	3600		48.150	-94.517	360.0
727533	04922	WHEATON NDB (AWOS)	US	US	MN	KETH	45780	-96534	3130		45.780	-96.534	313.0
727533	99999	WHEATON NDB (AWOS)	US	US	MN	KETH	45700	-96500	3130		45.700	-96.500	313.0
726576	14928	WILLMAR	US	US	MN	KILL	45116	-95084	3441		45.116	-95.084	344.1
999999	14928	WILLMAR	US	US	MN	KILL	45116	-95084	3441		45.116	-95.084	344.1
720386	99999	WILLMAR MUNI	US	US	MN	KBDH	45117	-95133	2470		45.117	-95.133	247.0
726576	99999	WILLMAR/RICE (AWOS)	US	US	MN	KILL	45117	-95083	3450		45.117	-95.083	345.0
727506	04952	WINDOM	US	US	MN	KMWM	43913	-95101	4298		43.913	-95.101	429.8
727506	99999	WINDOM	US	US	MN	KMWM	43917	-95117	4100		43.917	-95.117	410.0
726588	04956	WINONA MUNI (AWOS)	US	US	MN	KONA	44077	-91701	1999		44.077	-91.701	199.9
726588	99999	WINONA MUNI (AWOS)	US	US	MN	KONA	44083	-91700	2000		44.083	-91.700	200.0
743410	99999	WOOD LAKE	US	US	MN		44667	-95450	3190		44.667	-95.450	319.0
726587	94927	WORTHINGTON (AWOS)	US	US	MN	KOTG	43655	-95568	4798		43.655	-95.568	479.8
726587	99999	WORTHINGTON (AWOS)	US	US	MN	KOTG	43650	-95583	4800		43.650	-95.583	480.0

WI Stations

03/07/2012

USAF	WBAN	STATION NAME	CTRY	FIPS	STATE	CALL	LAT	LON	ELEV(.1M)
994972	99999	ALGOMA CITY MARINA	US	US	WI	AGMW3	+44600	-087433	+01850
726626	04864	ANTIGO\LANG(AWOS)	US	US	WI	KAIG	+45154	-089101	+04639
726626	99999	ANTIGO\LANG(AWOS)	US	US	WI	KAIG	+45150	-087150	+04640
726466	54917	APPLETON MUNI ARPT	US	US	WI	KAQP	+45228	-096007	+03109
726466	99999	APPLETON MUNI ARPT	US	US	WI	KAQP	+45217	-096000	+03100
726457	04825	APPLETON/OUTAGAMIE	US	US	WI	KATW	+44257	-088517	+02798
726457	99999	APPLETON/OUTAGAMIE	US	US	WI	KATW	+44250	-088517	+02800
726419	94929	ASHLAND KENNEDY ME	US	US	WI	KASX	+46549	-090919	+02518
726419	99999	ASHLAND KENNEDY ME	US	US	WI	KASX	+46550	-090917	+02510
743570	99999	BLUE RIVER	US	US	WI		+43217	-090533	+02260
720067	99999	BOSCOBEL	US	US	WI	K47C	+43167	-090683	+02030
726438	94994	BOSCOBEL AIRPORT	US	US	WI	KOVS	+43156	-090678	+02045
726438	99999	BOSCOBEL AIRPORT	US	US	WI	KOVS	+43150	-090667	+02050
722059	04866	BURLINGTON AIRPORT	US	US	WI	KBUU	+42690	-088300	+02374
722059	99999	BURLINGTON AIRPORT	US	US	WI	KBUU	+42683	-088300	+02370
720139	99999	BURLINGTON(AWS)	US	US	WI	KC52	+42683	-088300	+02370
726502	54832	CLINTONVILLE MUNI	US	US	WI	KCLI	+44614	-088731	+02688
726502	99999	CLINTONVILLE MUNI	US	US	WI	KCLI	+44617	-088733	+02510
994190	99999	DEVILS ISLAND	US	US	WI	DISW3	+47083	-090733	+02110
727416	99999	DEVILS ISLAND (LS)	US	US	WI	K29Y	+47083	-090733	+01920
726504	54838	EAGLE RIVER UNION	US	US	WI	KEGV	+45932	-089269	+05005
726504	99999	EAGLE RIVER UNION	US	US	WI	KEGV	+45933	-089267	+05000
726435	14991	EAU CLAIRE COUNTY AP	US	US	WI	KEAU	+44865	-091485	+02728
999999	14991	EAU CLAIRE MUNICIPAL AP	US	US	WI	KEAU	+44865	-091485	+02728
726506	04840	FOND DU LAC CO.	US	US	WI	KFLD	+43770	-088486	+02460
726506	99999	FOND DU LAC CO.	US	US	WI	KFLD	+43767	-088483	+02460
994976	99999	GB ENTRANCE LIGHT	US	US	WI	GBLW3	+44650	-087900	+02010
999999	14995	GRANTSBURG	US	US	WI		+45767	-092667	+02749
999999	14831	GREEN BAY	US	US	WI		+44517	-087967	+01820
999999	14898	GREEN BAY AUSTIN STRAUBEL FIE	US	US	WI	KGRB	+44513	-088120	+02140
726450	14898	GREEN BAY AUSTIN STRAUBEL INT	US	US	WI	KGRB	+44513	-088120	+02140
726508	94973	HAYWARD MUNI ARPT	US	US	WI	KHYR	+46026	-091444	+03703
726508	99999	HAYWARD MUNI ARPT	US	US	WI	KHYR	+46033	-091450	+03700
726415	94854	JANESVILLE/ROCK CO.	US	US	WI	KJVL	+42619	-089040	+02463
726415	99999	JANESVILLE/ROCK CO.	US	US	WI	KJVL	+42617	-089033	+02460
726509	04898	JUNEAU\DODGE CO	US	US	WI	KUNU	+43426	-088700	+02853
726509	99999	JUNEAU\DODGE CO	US	US	WI	KUNU	+43433	-088700	+02850
997340	99999	KENOSHA	US	US	WI	KNSW3	+42583	-087800	+01960
726406	99999	KENOSHA (CGS)	US	US	WI	K16C	+42583	-087750	+02230
726505	04845	KENOSHA RGNL	US	US	WI	KENW	+42595	-087938	+02265
726505	99999	KENOSHA RGNL	US	US	WI	KENW	+42583	-087917	+02320

WI Stations

03/07/2012

USAF	WBAN	STATION NAME	CTRY	FIPS	STATE	CALL	LAT	LON	ELEV(.1M)
997741	99999	KEWAUNEE	US	US	WI	KWNW3	+44450	-087483	+01780
999999	14920	LA CROSSE MUNI AP	US	US	WI	KLSE	+43754	-091256	+01999
726430	14920	LA CROSSE MUNICIPAL ARPT	US	US	WI	KLSE	+43754	-091256	+01999
726433	99999	LA CROSSE NEXRAD	US	US	WI	ARX	+43817	-091200	+04140
726226	99999	LA CROSSE(WFO)	US	US	WI	KARX	+43817	-091200	+02000
723758	54828	LADYSMITH	US	US	WI	KCFS	+43459	-083446	+02137
723758	54928	LADYSMITH	US	US	WI	KRCX	+45497	-091001	+03773
723758	99999	LADYSMITH	US	US	WI	KRCX	+45483	-091000	+03770
723123	14886	LAND O LAKES	US	US	WI	KLNL	+46154	-089212	+03274
723123	99999	LAND O LAKES	US	US	WI	KLNL	+46150	-089217	+05200
726416	14921	LONE ROCK FAA AP	US	US	WI	KLNR	+43212	-090181	+02198
999999	14921	LONE ROCK FAA AP	US	US	WI	KLNR	+43212	-090181	+02198
726416	99999	LONE ROCK REGIONAL	US	US	WI	KLNR	+43217	-090183	+02192
726410	14837	MADISON DANE CO REGIONAL ARPT	US	US	WI	KMSN	+43141	-089345	+02640
999999	14837	MADISON TRUAX FIELD	US	US	WI	KMSN	+43141	-089345	+02640
726455	94897	MANITOWAC MUNI AWOS	US	US	WI	KMTW	+44129	-087668	+01984
726455	99999	MANITOWAC MUNI AWOS	US	US	WI	KMTW	+44133	-087683	+01980
726574	94985	MARSHFIELD MUNI	US	US	WI	KMFI	+44637	-090189	+03892
726574	99999	MARSHFIELD MUNI	US	US	WI	KMFI	+44633	-090183	+03890
726437	94940	MCCOY (USA-AF)	US	US	WI	KCMY	+43958	-090734	+02551
726437	99999	MCCOY (USA-AF)	US	US	WI	KCMY	+43967	-090733	+02560
726417	54911	MEDFORD	US	US	WI	KMDZ	+45101	-090303	+04481
726417	99999	MEDFORD	US	US	WI	KMDZ	+45100	-090300	+04480
720327	04995	MENOMONIE AFLD	US	US	WI	KLUM	+44892	-091868	+02728
720327	99999	MENOMONIE AFLD	US	US	WI	KLUM	+44883	-091867	+02730
726449	04891	MERRILL MUNI ARPT	US	US	WI	KRRL	+45199	-089701	+04014
726449	99999	MERRILL MUNI ARPT	US	US	WI	KRRL	+45183	-089700	+04010
997342	99999	MILWAUKEE	US	US	WI	MLWW3	+43050	-087883	+01880
726407	99999	MILWAUKEE (CGLS)	US	US	WI	K15C	+43017	-087950	+01790
726403	99999	MILWAUKEE (NEXRAD)	US	US	WI	KMKX	+42967	-088550	+03120
726400	14839	MILWAUKEE MITCHELL INTL AP	US	US	WI	KMKE	+42947	-087897	+02112
999999	14839	MILWAUKEE NB SIDE PO	US	US	WI	KMKE	+42947	-087897	+02112
726405	94869	MILWAUKEE TIMMERMAN	US	US	WI	KMWC	+43110	-088034	+02271
999999	94869	MILWAUKEE TIMMERMAN	US	US	WI	KMWC	+43110	-088034	+02271
726405	99999	MILWAUKEE/TIMMERMAN	US	US	WI	KMWC	+43117	-088033	+02240
726507	54907	MINERAL POINT	US	US	WI	KMRJ	+42887	-090236	+03569
726507	99999	MINERAL POINT	US	US	WI	KMRJ	+42883	-090233	+03590
726404	04865	MINOCQUA/WOODRUFF	US	US	WI	KARV	+45928	-089718	+04968
726404	99999	MINOCQUA/WOODRUFF	US	US	WI	KARV	+45933	-089733	+04960
726414	04873	MONROE MUNICIPAL AI	US	US	WI	KEFT	+42615	-089584	+03307
726414	99999	MONROE MUNICIPAL AI	US	US	WI	KEFT	+42600	-089583	+03310

WI Stations

03/07/2012

USAF	WBAN	STATION NAME	CTRY	FIPS	STATE	CALL	LAT	LON	ELEV(.1M)
726465	94890	MOSINEE/CENTRAL WI	US	US	WI	KCWA	+44778	-089667	+03892
726465	99999	MOSINEE/CENTRAL WI	US	US	WI	KCWA	+44783	-089667	+03890
994973	99999	N PIER DEATHS DOOR	US	US	WI	NPDW3	+45283	-086983	+01880
999999	54903	NECEDAH NATIONAL WILDLIFE REF	US	US	WI	2.30E+03	+44060	-090174	+02844
726453	99999	NEENAH	US	US	WI	KEEW	+44217	-088550	+02750
722179	04968	NEW RICHMOND	US	US	WI	KRNH	+45148	-092534	+03036
722179	99999	NEW RICHMOND	US	US	WI	KRNH	+45150	-092533	+03040
726418	54912	OSCEOLA	US	US	WI	KOEO	+45308	-092690	+02752
726418	99999	OSCEOLA	US	US	WI	KOEO	+45317	-092683	+02750
727410	99999	PARK FALLS MUNI	US	US	WI	KPKF	+45933	-090450	+04690
726468	54913	PHILLIPS/PRICE CO.	US	US	WI	KPBH	+45709	-090402	+04563
726468	99999	PHILLIPS/PRICE CO.	US	US	WI	KPBH	+45700	-090400	+04490
997736	99999	PORT WASHINGTON	US	US	WI	PWAW3	+43383	-087867	+01800
726444	04963	PRAIRIE DU CHIEN	US	US	WI	KPDC	+43019	-091117	+02015
726444	99999	PRAIRIE DU CHIEN	US	US	WI	KPDC	+43017	-091117	+02010
726424	94818	RACINE	US	US	WI	KRAC	+42761	-087814	+02054
726424	99999	RACINE	US	US	WI	KRAC	+42767	-087817	+02050
727415	04803	RHINELANDER ONEIDA	US	US	WI	KRHI	+45631	-089465	+04950
727415	99999	RHINELANDER ONEIDA	US	US	WI	KRHI	+45633	-089467	+05070
726467	54909	RICE LAKE MUNICIPAL	US	US	WI	KRPD	+45419	-091773	+03368
726467	99999	RICE LAKE MUNICIPAL	US	US	WI	KRPD	+45483	-091717	+03470
997738	99999	SAXON HARBOR	US	US	WI	SXHW3	+46567	-090433	+01860
726425	04841	SHEBOYGAN	US	US	WI	KSBM	+43769	-087851	+02283
726425	99999	SHEBOYGAN	US	US	WI	KSBM	+43783	-087850	+02280
994330	99999	SHEBOYGAN	US	US	WI	SGNW3	+43750	-087683	+01890
726408	99999	SHEBOYGAN (CGS)	US	US	WI	K21C	+43767	-087850	+01780
722183	04972	SIREN	US	US	WI	KRZN	+45823	-092367	+03014
722183	99999	SIREN	US	US	WI	KRZN	+45817	-092367	+03010
726426	04895	STEVENS POINT	US	US	WI	KSTE	+44545	-089518	+03383
726426	99999	STEVENS POINT	US	US	WI	KSTE	+44550	-089533	+03380
726458	04824	STURGEON BAY	US	US	WI	KSUE	+44844	-087417	+02207
726458	99999	STURGEON BAY	US	US	WI	KSUE	+44850	-087417	+02210
726459	99999	STURGEON BAY	US	US	WI	KOY2	+44783	-087317	+01760
726427	54908	SUPERIOR	US	US	WI	KSUW	+46689	-092094	+02054
726427	99999	SUPERIOR	US	US	WI	KSUW	+46683	-092100	+02060
722332	54953	TOMAHAWK	US	US	WI	KTKV	+45469	-089806	+04529
722332	99999	TOMAHAWK	US	US	WI	KTKV	+45467	-089800	+04530
726454	99999	TWO RIVERS (CGS)	US	US	WI	KC58	+44133	-087550	+01760
726436	94930	VOLK FIELD ANG	US	US	WI	KVOK	+43938	-090268	+02774
726436	99999	VOLK/CAMP DOUGLAS	US	US	WI	KVOK	+43933	-090267	+02801
726464	54834	WATERTOWN	US	US	WI	KRYV	+43169	-088723	+02539



WI Stations

03/07/2012

USAF	WBAN	STATION NAME	CTRY	FIPS	STATE	CALL	LAT	LON	ELEV(.1M)
726464	99999	WATERTOWN	US	US	WI	KRYV	+43167	-088717	+02540
726409	04897	WAUKESHA	US	US	WI	KUES	+43041	-088234	+02777
726409	99999	WAUKESHA	US	US	WI	KUES	+43033	-088233	+02840
720343	54852	WAUPACA MUNICIPAL	US	US	WI	KPCZ	+44333	-089020	+02518
720343	99999	WAUPACA MUNICIPAL	US	US	WI	KPCZ	+44333	-089017	+02520
726460	14897	WAUSAU MUNICIPAL ARPT	US	US	WI	KAUW	+44929	-089627	+03645
726461	14897	WAUSAU MUNICIPAL ARPT	US	US	WI	KAUW	+44929	-089627	+03645
726463	14897	WAUSAU MUNICIPAL ARPT	US	US	WI	KAUW	+44929	-089627	+03645
999999	14897	WAUSAU MUNICIPAL ARPT	US	US	WI	KAUW	+44929	-089627	+03645
720398	99999	WAUTOMA MUNI	US	US	WI	KY50	+44033	-089300	+02610
726413	04875	WEST BEND MUNI	US	US	WI	KETB	+43422	-088118	+02704
726413	99999	WEST BEND MUNI	US	US	WI	KETB	+43417	-088133	+02700
726503	54833	WISCONSIN DELLS	US	US	WI	KDLL	+43522	-089771	+02975
726503	99999	WISCONSIN DELLS	US	US	WI	KDLL	+43517	-089767	+02980
726452	04826	WISCONSIN RAPIDS	US	US	WI	KISW	+44359	-089837	+03112
726452	99999	WISCONSIN RAPIDS	US	US	WI	KISW	+44350	-089833	+03080
726456	94855	WITTMAN RGNL	US	US	WI	KOSH	+43984	-088557	+02557
726456	99999	WITTMAN RGNL	US	US	WI	KOSH	+43983	-088550	+02530
994974	99999	YACHT WORKS SISTER	US	US	WI	SYWW3	+45200	-087117	+01810

ND Stations

03/07/2012

USAF	WBAN	STATION NAME	CTRY	FIPS	STATE	CALL	LAT	LON	ELEV(.1M)
727640	24011	BISMARCK MUNICIPAL ARPT	US	US	ND	KBIS	+46774	-100748	+05060
999999	24011	BISMARCK MUNICIPAL ARPT	US	US	ND	KBIS	+46774	-100748	+05060
725296	99999	BOWMAN MUNI	US	US	ND	KBPP	+46183	-103433	+09010
727580	99999	DEVILS LAKE (AMOS)	US	US	ND	KP11	+48100	-098867	+04430
727570	99999	DEVILS LAKE AUTO	US	US	ND		+48100	-098867	+04429
727572	99999	DEVILS LAKE(AWOS)	US	US	ND		+48117	-098900	+04430
727573	94928	DEVILS LAKE(AWOS)	US	US	ND	KDVL	+48113	-098901	+04429
727573	99999	DEVILS LAKE(AWOS)	US	US	ND	KDVL	+48117	-098917	+04430
727645	24012	DICKINSON MUNICIPAL AP	US	US	ND	KDIK	+46797	-102802	+07873
999999	24012	DICKINSON MUNICIPAL AP	US	US	ND	KDIK	+46797	-102802	+07873
999999	14914	FARGO HECTOR ARPT	US	US	ND	KFAR	+46925	-096811	+02740
727530	14914	FARGO HECTOR INTERNATIONAL AP	US	US	ND	KFAR	+46925	-096811	+02740
725062	99999	FARGO/GRAND FORKS	US	US	ND	KMVX	+47533	-097333	+03010
727677	94041	GARRISON (AMOS)	US	US	ND	KN60	+47663	-101439	+05828
727677	99999	GARRISON (AMOS)	US	US	ND	KN60	+47650	-101433	+05870
727575	94925	GRAND FORKS AF	US	US	ND	KRDR	+47961	-097401	+02777
999999	94925	GRAND FORKS AF	US	US	ND	KRDR	+47961	-097401	+02777
727575	99999	GRAND FORKS AFB	US	US	ND	KRDR	+47967	-097400	+02761
727576	14916	GRAND FORKS INTERNATIONAL AP	US	US	ND	KGFK	+47949	-097176	+02536
999999	14916	GRAND FORKS INTERNATIONAL AP	US	US	ND	KGFK	+47949	-097176	+02536
727577	99999	GRAND FORKS NEXRAD	US	US	ND	MVX	+47533	-097333	+03290
727584	94038	HETTINGER	US	US	ND	KHEI	+46014	-102655	+08245
727584	99999	HETTINGER	US	US	ND	KHEI	+46017	-102650	+08240
727535	14919	JAMESTOWN MUNICIPAL ARPT	US	US	ND	KJMS	+46930	-098678	+04554
999999	14919	JAMESTOWN MUNICIPAL ARPT	US	US	ND	KJMS	+46930	-098678	+04554
727534	99999	LIDGERWOOD (RAMOS)	US	US	ND	KP67	+46100	-097150	+03510
727675	94011	MINOT AFB	US	US	ND	KMIB	+48432	-101358	+05084
727675	99999	MINOT AFB	US	US	ND	KMIB	+48417	-101350	+04971
727676	24013	MINOT FAA AP	US	US	ND	KMOT	+48259	-101281	+05224
999999	24013	MINOT FAA AP	US	US	ND	KMOT	+48259	-101281	+05224
999999	14924	PEMBINA	US	US	ND		+48967	-097233	+02408
727650	99999	ROSEGLEN (AMOS)	US	US	ND	KP24	+47750	-101833	+06240
999999	94080	THEODORE ROOSEVELT NATIONAL P	US	US	ND	C2EA	+46895	-103377	+08446
722004	54922	WAHPETON	US	US	ND	KBWP	+46244	-096607	+02950
722004	99999	WAHPETON	US	US	ND	KBWP	+46233	-096600	+02950
999999	24014	WILLISTON	US	US	ND		+48150	-103617	+05779
999999	94014	WILLISTON SLOULIN FIELD INTL	US	US	ND	KISN	+48195	-103642	+05806
727670	94014	WILLISTON SLOULIN INTL AP	US	US	ND	KISN	+48195	-103642	+05806

SD Stations

03/07/2012

USAF	WBAN	STATION NAME	CTRY	FIPS	STATE	CALL	LAT	LON	ELEV(.1M)
999999	14929	ABERDEEN MUNICIPAL ARPT	US	US	SD	KABR	+45450	-098421	+03962
726590	14929	ABERDEEN REGIONAL ARPT	US	US	SD	KABR	+45450	-098421	+03962
726606	99999	BELLE FOURCHE	US	US	SD	KEFC	+44733	-103867	+00820
726515	94902	BROOKINGS (AWOS)	US	US	SD	KBKX	+44303	-096801	+05020
726515	99999	BROOKINGS (AWOS)	US	US	SD	KBKX	+44300	-096817	+05020
726627	94037	BUFFALO (AMOS)	US	US	SD	K2WX	+45604	-103546	+09153
726627	99999	BUFFALO (AMOS)	US	US	SD	K2WX	+45567	-103517	+08810
726530	94943	CHAMBERLAIN (AMOS)	US	US	SD	K9V9	+43767	-099318	+05166
726530	99999	CHAMBERLAIN (AMOS)	US	US	SD	K9V9	+43800	-099317	+05300
726525	94911	CHAN GURNEY MUNI	US	US	SD	KYKN	+42917	-097383	+03981
726525	99999	CHAN GURNEY MUNI	US	US	SD	KYKN	+42917	-097383	+04080
726514	94032	CUSTER (RAMOS)	US	US	SD	KCUT	+43731	-103628	+16962
726514	99999	CUSTER (RAMOS)	US	US	SD	KCUT	+43733	-103617	+17070
720008	99999	CUSTER(AWS)	US	US	SD	KOV1	+43733	-103617	+17110
726625	24006	ELLSWORTH AFB	US	US	SD	KRCA	+44145	-103104	+09994
726625	99999	ELLSWORTH AFB	US	US	SD	KRCA	+44150	-103100	+09799
999999	04990	EROS DATA CENTER	US	US	SD	11B8	+43735	-096622	+04859
726539	94056	FAITH	US	US	SD	KD07	+45032	-102019	+07846
726539	99999	FAITH	US	US	SD	KD07	+45033	-102017	+07870
720332	99999	HAROLD DAVIDSON FLD	US	US	SD	KVMR	+42767	-096933	+03500
999999	14936	HURON MUNICIPAL ARPT	US	US	SD	KHON	+44385	-098229	+03929
726540	14936	HURON REGIONAL ARPT	US	US	SD	KHON	+44385	-098229	+03929
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726695	99999	LEMMON	US	US	SD	KY22	+45933	-102167	+07810
726545	94950	MITCHELL (AWOS)	US	US	SD	KMHE	+43777	-098038	+03972
726545	99999	MITCHELL (AWOS)	US	US	SD	KMHE	+43767	-098033	+03970
726680	99999	MOBRIDGE	US	US	SD		+45550	-100417	+05220
726681	99999	MOBRIDGE	US	US	SD	Y26	+45533	-100433	+05080
726685	94052	MOBRIDGE	US	US	SD	KMBG	+45546	-100408	+05072
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720227	99999	MOBRIDGE(AWS)	US	US	SD	KY26	+45533	-100433	+05080
720196	99999	PHILIP	US	US	SD	KP05	+44067	-101650	+06830
999999	24024	PHILIP 1 S	US	US	SD	KPHP	+44051	-101601	+06742
726516	24024	PHILIP ARPT	US	US	SD	KPHP	+44051	-101601	+06742
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726520	99999	PICKSTOWN	US	US	SD		+43067	-098533	+04530
726686	24025	PIERRE MUNICIPAL AP	US	US	SD	KPIR	+44383	-100286	+05261
999999	24025	PIERRE MUNICIPAL AP	US	US	SD	KPIR	+44383	-100286	+05261
720108	99999	PINE RIDGE	US	US	SD	K6V2	+43033	-102517	+09980
726517	94039	PINE RIDGE	US	US	SD	KIEN	+43021	-102518	+10153
726517	99999	PINE RIDGE	US	US	SD	KIEN	+43033	-102517	+10150

SD Stations

03/07/2012

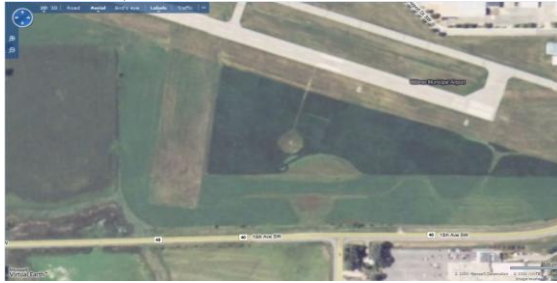
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999999	24026	RAPID CITY	US	US	SD		+44150	-103100	+09812
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999999	24090	RAPID CITY REGIONAL ARPT	US	US	SD	KRAP	+44046	-103054	+09656
723121	99999	RAPID CITY(NEXRAD)	US	US	SD	KUDX	+44133	-102833	+09190
726610	99999	REDIG	US	US	SD		+45267	-103533	+09250
999999	94081	SDSU ANTELOPE RESEARCH STATIO	US	US	SD	D19C	+45516	-103302	+08787
726510	14944	SIOUX FALLS FOSS FIELD	US	US	SD	KFSD	+43577	-096754	+04349
999999	14944	SIOUX FALLS FOSS FLD	US	US	SD	KFSD	+43577	-096754	+04349
726513	99999	SIOUX FALLS NEXRAD	US	US	SD	UDX	+44133	-102833	+09540
726519	94993	SISSETON MUNI ARPT	US	US	SD	K8D3	+45669	-096991	+03542
726519	99999	SISSETON MUNI ARPT	US	US	SD	K8D3	+45667	-096983	+03540
726605	99999	SPEARFISH/CLYDE ICE	US	US	SD	KSPF	+44483	-103783	+11880
726546	14946	WATERTOWN MUNICIPAL AP	US	US	SD	KATY	+44931	-097154	+05304
726518	94990	WINNER	US	US	SD	KICR	+43390	-099842	+06194
726518	99999	WINNER	US	US	SD	KSFD	+43383	-099850	+06220

Example: Willmar, KBDH

Aerial, Google Earth



Aerial, Live Search Maps



Bird's eye view, Live Search Maps



Example: Minneapolis/St. Paul, KMSP

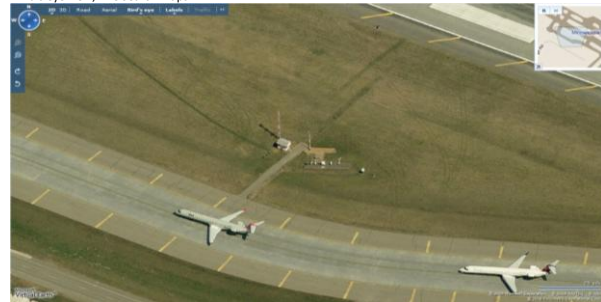
Aerial, Google Earth



Aerial, Live Search Maps



Bird's eye view, Live Search Maps

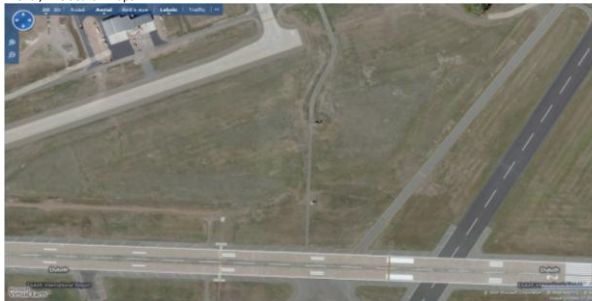


Example: Duluth, KDLH

Aerial, Google Earth



Aerial, Live Search Maps



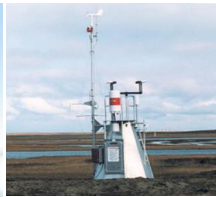
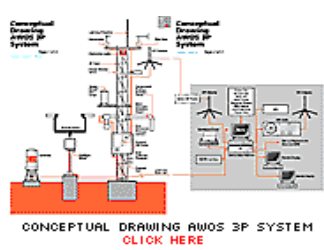
Bird's eye view, Live Search Maps





<http://search.live.com/images/results.aspx?q=AWOS&FORM=BIRE#>

**Automated Weather Observing System (AWOS)**



AWI's series 900 AWOS automatically measures meteorological parameters, reduces and analyzes the data via a powerful computer, and broadcasts aviation weather reports which can be received by aircraft operating up to 10,000 feet above ground level and 25 nautical miles from the AWOS. Pilots can use the aviation weather information provided by the AWOS to partially fulfill the requirements of various FARs. For example, at airports with instrument approaches, an AWOS weather report eliminates the remote altimeter penalty and, thereby, allows use of the published minimum decent altitude.

The AWOS is a modular system utilizing a central processor that receives input from multiple sensors. The standard sensor configurations are defined below:

- AWOS A:** Dual-pressure sensor measures pressure and reports altimeter setting
- AWOS I:** Wind Speed, Wind Gust, Wind Direction, Variable Wind Direction, Temperature, Dew Point, Altimeter Setting, Density Altitude
- AWOS II:** Same as AWOS I + Visibility, Variable Visibility, Precipitation, Day/Night
- AWOS III:** Same as AWOS II + Cloud Height & Sky Condition
- AWOS III-P:** Same as AWOS III + Present Weather Identification Sensor
- AWOS III-PT:** Same as AWOS III + Present Weather & Lightning Detection
- AWOS III-PTZ:** Same as AWOS III + Present Weather & Lightning Detection, Freezing Rain Detection

An Ultrasonic wind sensor can be used in place of the standard anemometer and wind vane in any of the above configurations. Ultrasonic configurations are indicated by a **U** at the end of the model number (for example, **AWOS III-PTU**)

All series 900 sensors are built with the same high quality you would expect from AWI All sensors meet or exceed the requirements of the FAA as well as the requirements of the international governing bodies, ICAO and WMO.

**AWOS Weather Information Output**

Data from the AWOS is voice synthesized to provide a weather report that can be transmitted via VHF radio, NDB, or VOR ensuring that pilots on approach have up-to-date airport weather conditions. The transmission can be continuous or a 3-minute continuous broadcast triggered by three clicks of a pilot's microphone on the AWOS broadcast frequency.

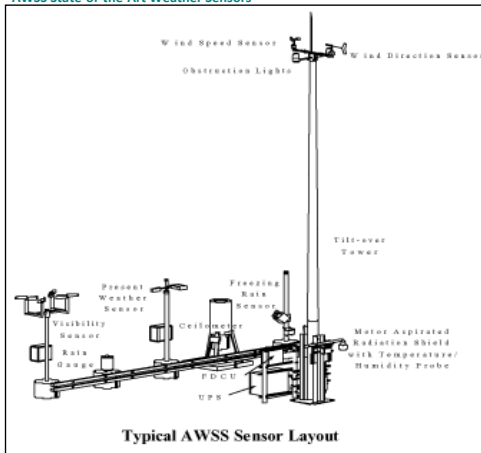
This voice data report is also available by telephone, so that current conditions can be obtained from any location.

The series 900 AWOS III (or greater) provides an optional system connection to the National Airspace Data Interchange Network, NADIN, and the AWOS Data Acquisition System, ADAS, operated by the FAA to provide information to the Weather Message Switching Service (WMSC). These services provide weather data to Flight Service Stations and commercial airports for pilot briefings, National Weather Service forecasting, and other weather services.

### Automated Weather Sensor System (AWSS)

Over the years, AWI has developed a reputation for accuracy and reliability. As a result, the company is the leading supplier of FAA sponsored weather systems. The **Automated Weather Sensor System (AWSS)**, a follow-on to the FAA's Federal AWOS program, is a surface weather observing system that provides minute-by-minute weather observations. The AWSS features a flexible, modular design that is capable of operating at different geographical locations with a variety of advanced weather sensor configurations.

#### AWSS State-of-the-Art Weather Sensors



The AWSS collects, processes, and ensures the quality of crucial weather measurements. A wide range of precision sensor options is available:

**Forward Scatter Visibility Sensor:** an active, electro-optical instrument that determines visibility by measuring the optical extinction coefficient of a beam of light as it passes through a known volume of air; advanced four-head, dual beam design measures fog, dust, rain, snow, haze, smoke, and sand.

**Ceilometer:** a GaAs laser diode emits a laser pulse that is partially reflected from the cloud; the time when a pulse leaves the transmitter to when the reflected portion reaches the receiver varies with cloud height.

**Present Weather Sensor:** measures precipitation by detecting the optical irregularities induced by particles falling through a beam of partially coherent infrared light.

**Wind Speed Sensor:** a low-threshold, three-cup anemometer mounted to the top of the tower that measures wind speed.

**Wind Direction Sensor:** a highly sensitive vane mounted to the top of the tower that measures wind direction.

**Freezing Rain Sensor:** detects an occurrence of freezing rain by the change in the probe tip's oscillating frequency caused by ice accretion.

**Tipping Bucket Rain Gauge:** precision sensor used to measure rainfall volume or rate.

**Motor Aspirated Radiation Shield with Temperature & Relative Humidity Sensor:** precision temperature/humidity sensor housed in a Motor Aspirated Radiation Shield; designed for ventilation, and shielding from direct and reflected solar radiation and from direct moisture contact.

#### AWSS Comprehensive Reporting

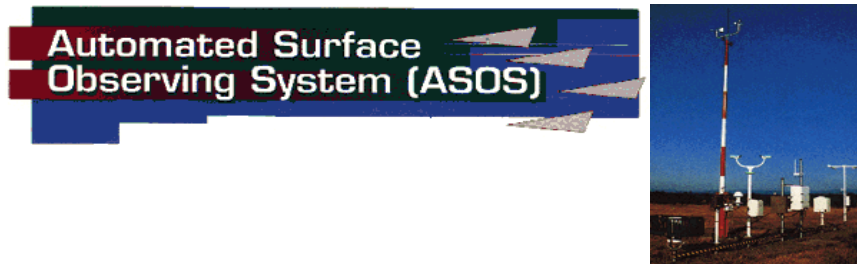
The AWSS issues weather reports using predefined formats and communications protocols. Weather observation data can be made available to both local and remote users.

The password-protected user interface accommodates a variety of users. Weather observers may edit automatically generated weather data and daily and monthly summary reports, and manually generate special weather reports (SPECIs). Air traffic control specialists can perform limited editing functions and control the manual recording of voice messages to be used with automated voice weather report outputs. Technicians can change the system's configuration and execute system diagnostics and tests. System managers may change and assign passwords and the remote access code, and can access all technician user level functions.

#### AWSS Data Collection Units

The AWSS is a comprehensive system of meteorological sensors whose data is gathered by a Field Data Collection Unit (FDCU). The data is checked for errors then transmitted via a UHF or land line data link to a Terminal Data Acquisition Unit (TDAU). At the TDAU, the data is processed, logged, and disseminated by various means, including an ADAS connection to the internationally accessible National Airspace Data Interchange Network (NADIN), dial-up telephone line, CRT displays, and VHF ground-to-air radio transmitter.

The AWSS operational software collects, processes, and reports the weather data. It also provides an interface for observers and technicians, and communicates with the Field Data Collection Unit and the system's communications interface.



The Automated Surface Observing Systems (ASOS) program is a joint effort of the National Weather Service (NWS), the Federal Aviation Administration (FAA), and the Department of Defense (DOD). The ASOS systems serves as the nation's primary surface weather observing network. ASOS is designed to support weather forecast activities and aviation operations and, at the same time, support the needs of the meteorological, hydrological, and climatological research communities.

With the largest and most modern complement of weather sensors, ASOS has significantly expanded the information available to forecasters and the aviation community. The ASOS network has more than doubled the number of full-time surface weather observing locations. ASOS works non-stop, updating observations every minute, 24 hours a day, every day of the year.

Getting more information on the atmosphere, more frequently and from more locations is the key to improving forecasts and warnings. Thus, ASOS information will help the NWS to increase the accuracy and timeliness of its forecasts and warnings--the overriding goal of the NWS modernization.

The primary concern of the aviation community is safety, and weather conditions often threaten that safety. A basic strength of ASOS is that critical aviation weather parameters are measured where they are needed most: airport runway touchdown zone(s).

ASOS detects significant changes, disseminating hourly and special observations via the networks. Additionally, ASOS routinely and automatically provides computer-generated voice observations directly to aircraft in the vicinity of airports, using FAA ground-to-air radio. These messages are also available via a telephone dial-in port. ASOS observes, formats, archives and transmits observations automatically. ASOS transmits a special report when conditions exceed preselected weather element thresholds, e.g., the visibility decreases to less than 3 miles.

**Reports basic weather elements:**

Sky condition: cloud height and amount (clear, scattered, broken, overcast) up to 12,000 feet

Visibility (to at least 10 statute miles)

Basic present weather information: type and intensity for rain, snow, and freezing rain

Obstructions to vision: fog, haze

Pressure: sea-level pressure, altimeter setting

Ambient temperature, dew point temperature

Wind: direction, speed and character (gusts, squalls)

Precipitation accumulation

Selected significant remarks including- variable cloud height, variable visibility, precipitation beginning/ending times, rapid pressure changes, pressure change tendency, wind shift, peak wind.