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**CLIMATIC WIND DATA FOR THE UNITED STATES**

The climatic wind data contained in this summary was extracted from the NCDC's Local Climatological Data publication, Navy & Air Force climatic briefs, and other sources. Locations are not all inclusive and wind data may be available for sites not listed in this summary. The total period of this summary is 1930-1996. The period of record (POR) for which wind data is summarized varies for individual sites and may begin and end at any time during the 1930-1996 period. All available wind data is provided regardless of POR or source. Updated data for many sites can be obtained from post 1996 Local Climatological Data annual publications. In the table, prevailing wind directions (DIR) are given in compass points; mean wind speeds (SPD) and peak gust (PGU) are in miles per hour (mph). When peak gust (PGU) wind velocities are not available, fastest-mile or 5-second winds may be substituted. This will be indicated by a \$ for fastest-mile and # for 5-second winds preceding PGU (ie: \$PGU = fastest-mile winds). Wind types may be combined to reflect the highest reported wind. When appropriate wind data is not available, an N/A will appear in lieu of data. Conversion tables of miles per hour to knots and compass points to degrees are provided at the end of this wind table.

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		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b><u>ALABAMA</u></b>														
Birmingham	DIR	N	N	N	N	N	N	N	N	N	N	S	S	S
	SPD	8	9	9	9	7	6	6	6	6	7	6	7	8
	\$PGU	49	59	65	56	65	56	57	50	50	50	43	52	41
Huntsville	DIR	ESE	ESE	ESE	N	N	N	ESE	ESE	ESE	S	S	S	ESE
	SPD	9	10	10	9	8	7	6	6	7	7	8	9	8
	#PGU	43	43	40	48	45	56	64	45	46	55	43	48	64
Mobile	DIR	N	N	N	N	SE	SE	SE	SE	S	S	S	S	S
	SPD	10	11	11	10	9	6	7	7	8	8	9	10	9
	#PGU	45	61	55	46	62	60	64	53	60	59	48	43	64
Montgomery	DIR	NW	NW	NW	NW	NW	NW	S	S	S	S	S	S	WNW
	SPD	8	8	8	7	6	6	6	5	6	6	7	7	7
	PGU	43	66	54	60	60	60	55	59	41	73	56	48	73
Ozark/ Ft Rucker	DIR	NW	N	S	S	S	W	W	E	ENE	E	NNW	NW	E
	SPD	6	6	7	6	5	3	3	3	3	5	5	6	5
	PGU	46	64	74	61	71	60	58	60	82	48	52	44	82
<b><u>ALASKA</u></b>														
Anchorage	DIR	N	N	N	S	SSE	SSE	SSE	SSE	SSE	N	N	N	N
	SPD	6	7	7	7	8	8	7	7	7	7	7	6	7
	PGU	64	61	75	44	43	46	40	44	48	55	55	55	75
Barrow	DIR	ENE	ENE	ENE	ENE	ENE	E	E	E	ENE	ENE	ENE	ENE	ENE
	SPD	12	11	11	12	12	12	12	12	13	13	12	12	12
	PGU	58	74	56	47	41	43	55	47	66	54	53	61	74
Cold Bay	DIR	SSE	SE	SE	NNW	SSE	SSE	SSE	SSE	SSE	NNW	NNW	SSE	SSE
	SPD	18	18	17	17	16	16	16	16	17	17	18	18	17
	PGU	85	83	76	85	72	69	58	81	95	87	75	85	95

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
St. Cloud	DIR	NW	NW	NW	NW	S	S	S	S	S	NW	NW	NW	NW
	SPD	8	8	9	10	9	8	7	7	7	9	9	8	8
	PGU	58	48	46	78	51	74	55	53	45	54	53	53	78

**MISSISSIPPI**

Biloxi/ Keesler AFB	DIR	N	N	SSE	SSE	SSE	SSW	SSW	N	NNE	NNE	N	N	N
	SPD	7	7	7	7	6	6	5	5	5	5	6	7	6
	PGU	69	62	58	70	68	67	64	128	98	59	54	53	128
Jackson	DIR	N	N	N	N	NNW	NNW	NNW	NNW	S	S	S	S	NNW
	SPD	8	8	9	8	7	6	6	5	6	6	7	8	7
	#PGU	40	34	40	54	33	47	41	40	36	34	33	46	54
Meridian	DIR	S	S	S	S	S	S	S	S	N	N	S	S	S
	SPD	7	8	8	7	6	5	5	5	5	5	7	7	6
	#PGU	53	55	64	66	47	64	66	56	38	45	54	68	68
Tupelo	DIR	N	N	N	N	S	S	S	S	S	S	S	S	S
	SPD	7	8	8	8	7	6	6	5	6	6	7	7	7
	#PGU	53	39	39	36	43	40	54	34	43	45	38	31	54

**MISSOURI**

Columbia	DIR	WNW	WNW	WNW	S	S	S	S	S	S	S	S	WNW	S
	SPD	11	11	12	12	9	9	8	8	9	10	11	11	10
	PGU	53	63	66	69	58	95	64	62	54	59	51	55	95
Kansas City	DIR	SSW	SSW	S	S	S	S	S	S	S	S	S	S	S
	SPD	11	11	12	12	10	10	9	9	10	11	11	11	11
	PGU	58	56	63	62	59	67	75	54	63	60	52	55	75
St. Louis	DIR	WNW	WNW	WNW	WNW	S	S	S	S	S	SSE	WNW	WNW	WNW
	SPD	11	11	12	11	9	9	8	7	8	9	10	10	10
	PGU	53	66	66	71	62	60	72	53	49	58	64	55	72
Springfield	DIR	SSE	SSE	SSE	SSE	SSE	S	S	SSE	SSE	SSE	SSE	SSE	SSE
	SPD	12	12	13	12	10	10	9	9	9	10	11	11	11
	PGU	48	52	52	53	49	61	72	59	49	48	53	48	72

**MONTANA**

Billings	DIR	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
	SPD	13	12	11	11	11	10	9	9	10	11	12	13	11
	PGU	59	62	62	59	60	54	71	69	61	64	58	70	71
Glasgow	DIR	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE
	SPD	10	10	11	12	12	11	10	11	11	11	10	10	11
	#PGU	37	51	53	67	48	53	55	55	44	46	49	62	67
Great Falls	DIR	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	SW	SW
	SPD	15	14	13	13	11	11	10	10	11	13	15	15	13
	#PGU	53	48	52	57	39	51	49	47	36	49	54	59	59
Havre	DIR	SW	SW	SW	SW	E	SW	SW	W	E	SW	SW	SW	SW
	SPD	10	10	10	11	10	10	9	9	9	10	10	10	10
	\$PGU	47	58	52	59	54	63	71	59	52	52	54	48	71
Helena	DIR	W	ENE	W	W	W	ENE	W	ENE	W	ENE	W	W	ENE
	SPD	7	7	8	9	9	9	8	7	7	7	7	7	8
	#PGU	48	45	45	40	51	57	53	51	47	54	47	57	57
Kalispell	DIR	S	S	S	S	S	S	S	S	S	S	S	S	S
	SPD	4	5	6	7	7	7	6	6	6	5	5	5	6
	#PGU	39	36	36	40	34	38	32	44	32	40	36	57	57

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Cheyenne	DIR	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW
	SPD	15	15	15	14	13	11	10	10	11	12	14	15	13
	PGU	77	70	75	64	71	84	79	61	62	71	76	74	84
Lander	DIR	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
	SPD	5	5	7	8	8	8	7	7	7	6	6	6	7
	PGU	86	69	63	83	67	63	66	67	64	53	59	66	86
Sheridan	DIR	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
	SPD	8	8	9	10	9	8	7	7	8	8	8	8	8
	PGU	71	69	68	69	63	54	59	58	67	64	73	69	73

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**CONVERSION TABLE OF MILES PER HOUR (MPH) TO KNOTS (KTS)**

MPH	0	1	2	3	4	5	6	7	8	9	
MPH	KTS	KTS	KTS	KTS	KTS	KTS	KTS	KTS	KTS	KTS	KTS
0	0	1	2	3	3	4	5	6	7	8	
10	9	10	10	11	12	13	14	15	16	17	
20	17	18	19	20	21	22	23	23	24	25	
30	26	27	28	29	30	30	31	32	33	34	
40	35	36	36	37	38	39	40	41	42	43	
50	43	44	45	46	47	48	49	50	50	51	
60	52	53	54	55	56	56	57	58	59	60	
70	61	62	63	63	64	65	66	67	68	69	
80	70	70	71	72	73	74	75	76	76	77	
90	78	79	80	81	82	83	83	84	85	86	

(eg: 25 mph = 22 kts)

**CONVERSION TABLE OF COMPASS POINTS (16) TO WHOLE DEGREES**

N = 35-01	E = 08-10	S = 17-19	W = 26-28
NNE = 02-03	ESE = 11-12	SSW = 20-21	WNW = 29-30
NE = 04-05	SE = 13-14	SW = 22-23	NW = 31-32
ENE = 06-07	SSE = 15-16	WSW = 24-25	NNW = 33-34

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