

ALPENA HARBOR, MI, United States of America

Annual Climatic Design Data (2005–2019)

Latitude	Longitude	Elevation m	Standard Station Pressure kPa	Winter Temperature °C	Summer Temperature °C	Extreme Wind Speed m/s	Extreme Wind Direction
45.0630N	83.4286W	179	99.19	-18.8	30.0	9.8	SE

Monthly Winds (2005–2019)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
%CALM	1	2	2	2	3	2	2	2	2	2	1	1

Prevailing Wind #1

DIR	NW	NW	NNW	NNW	SSE	SSE	NW	NW	NNW	NW	NW	NNW
%OCC	13	16	18	11	12	13	11	14	11	14	12	12
AVG m/s	3.8	3.7	3.6	4.0	3.6	3.2	3.1	3.2	2.8	3.5	3.7	3.5
MED m/s	3.4	3.1	3.1	3.8	2.9	2.8	2.8	2.8	2.4	3.0	3.4	3.0

Prevailing Wind #2

DIR	NNW	NNW	NW	NW	SE	S	NNW	NNW	NW	WNW	WNW	NW
%OCC	12	16	13	10	9	10	11	11	11	10	10	12
AVG m/s	3.4	3.2	3.7	4.4	4.6	3.2	2.7	2.7	2.9	3.6	3.6	3.5
MED m/s	2.9	2.7	3.1	4.1	3.9	2.8	2.4	2.4	2.6	3.0	3.1	3.0

Prevailing Wind #3

DIR	WNW	WNW	N	SSE	NNW	N	SSE	SSE	N	NNW	SSW	WNW
%OCC	12	10	10	10	9	10	10	11	10	10	10	11
AVG m/s	3.7	3.9	3.4	4.0	3.2	2.8	3.3	3.6	2.7	3.0	4.1	3.5
MED m/s	3.1	3.2	3.0	3.5	2.9	2.4	2.9	3.1	2.4	2.6	4.1	3.1

Prevailing Wind #4

DIR	W	N	SSE	N	N	NNW	S	S	SSE	N	NNW	W
%OCC	10	8	9	9	9	10	10	9	10	7	9	8
AVG m/s	3.2	3.4	3.7	3.7	3.3	2.9	3.3	3.7	3.5	2.9	3.7	3.0
MED m/s	2.8	3.0	3.1	3.4	3.0	2.6	2.9	3.3	2.9	2.4	3.5	2.7