

## 2017 Precipitation Data

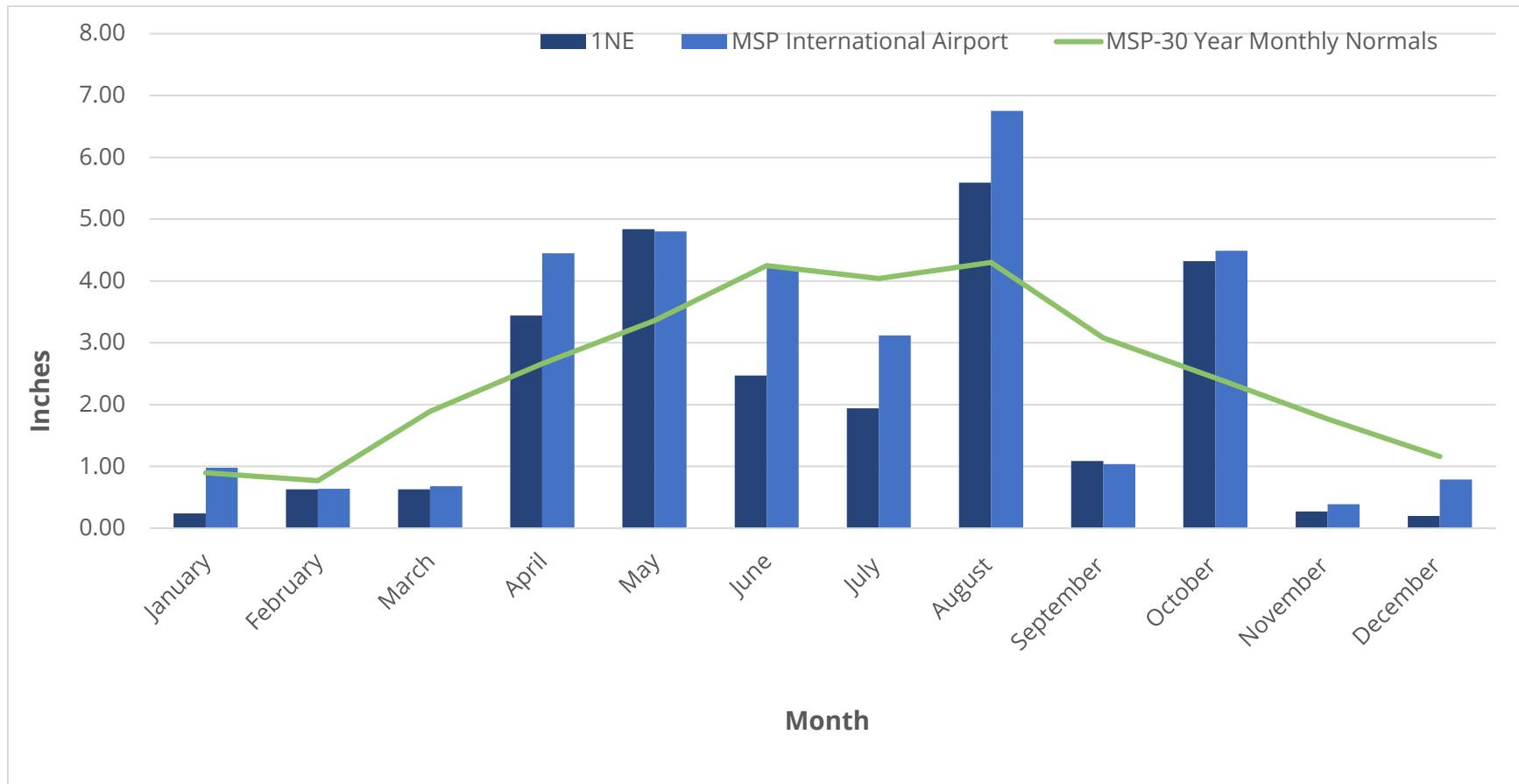


Figure 1. 2017 monthly precipitation totals at the 1NE rain gauge compared to 2017 monthly totals and 30-year monthly precipitation normals at the Minneapolis St. Paul International Airport.

Table 1. 2017 monthly precipitation (inches) at several locations in the MWMO precipitation monitoring network.

<b>Month</b>	<b>1NE<sup>1</sup></b>	<b>10SA<sup>2</sup></b>	<b>11CHF<sup>3</sup></b>	<b>Edison High School<sup>4</sup></b>	<b>Columbia Golf Course<sup>5</sup></b>	<b>Waite Park Elementary School<sup>6</sup></b>	<b>6<sup>th</sup> ST NE<sup>7</sup></b>	<b>MWMO Weather Station<sup>8</sup></b>
<b>January</b>	0.24	0.44	0.19	0.41	0.42	0.43	0.77	0.284
<b>February</b>	0.63	0.63	0.64	0.78	0.80	0.77	0.61	0.672
<b>March</b>	0.63	0.51	0.4	0.50	0.34	0.47	0.67	1.615
<b>April</b>	3.44	3.64	3.23	3.87	3.72	3.60	3.15	3.748
<b>May</b>	4.84	5.24	4.79	5.91	5.22	5.69	5.28	4.449
<b>June</b>	2.47	2.78	2.87	3.03	0.99	3.31	3.01	2.742
<b>July</b>	1.94	2.33	1.63	2.82	2.75	2.57	1.82	2.509
<b>August</b>	5.59	6.58	5.68	6.43	0.00	7.19	4.86	5.578
<b>September</b>	1.09	1.13	1.07	1.13	1.26	1.15	1.14	1.414
<b>October</b>	4.32	4.94	4.08	5.56	5.74	5.40	4.88	4.446
<b>November</b>	0.27	0.38	0.19	0.33	0.39	0.45	0.44	0.256
<b>December</b>	0.20	0.34	0.19	0.55	0.44	0.44	0.78	0.320
<b>Totals (inches)</b>	25.66	28.94	24.96	31.32	22.07	31.47	27.41	28.033

<sup>1</sup> Location: Latitude 45.023 Longitude -93.277, Source: MWMO data, 1NE

<sup>2</sup> Location: Latitude 45.012 Longitude -93.220, Source: MWMO data, 10SA

<sup>3</sup> Location: Latitude 45.050 Longitude -93.274, Source: MWMO data, 11CHF

<sup>4</sup> Location: Latitude 45.012 Longitude -93.22, Source: MWMO Data, Edison High School

<sup>5</sup> Location: Latitude 45.027 Longitude -93.255, Source: MWMO Data, Columbia Golf Course

<sup>6</sup> Location: Latitude 45.030 Longitude -93.234, Source: MWMO Data, Waite Park Elementary School

<sup>7</sup> Location: Latitude 45.053 Longitude -93.259, Source: Citizen Volunteer, Minneapolis MN

<sup>8</sup> Location: Latitude 45.013 Longitude -93.272, Source: MWMO Data, MWMO Weather Station

Table 2. 2017 monthly precipitation (inches) at several locations in the Upper Mississippi River basin.

Month	St. Cloud <sup>1</sup>	Becker <sup>2</sup>	Elk River <sup>3</sup>	New Hope <sup>4</sup>	SAFL <sup>5</sup>	Lower St Anthony Falls Lock and Dam <sup>6</sup>	Chanhassen <sup>7</sup>	Minneapolis St. Paul International Airport <sup>8</sup>	MSP 30 YR MO Normal <sup>9</sup>
<b>January</b>	0.54	0.90	0.76	0.77	0.34	0.96	0.88	0.98	0.90
<b>February</b>	0.78	0.57	0.72	0.78	0.68	0.81	0.72	0.64	0.77
<b>March</b>	0.67	1.22	0.54	0.85	0.37	0.76	0.74	0.68	1.89
<b>April</b>	3.27	3.07	3.89	4.37	3.36	3.75	4.96	4.45	2.66
<b>May</b>	4.44	4.96	5.50	6.45	4.74	6.40	5.12	4.80	3.36
<b>June</b>	3.58	3.59	4.23	3.33	2.54	3.32	5.32	4.23	4.25
<b>July</b>	2.38	2.18	2.14	3.72	1.95	2.54	4.20	3.12	4.04
<b>August</b>	5.27	4.33	4.80	6.88	5.08	6.82	7.60	6.75	4.30
<b>September</b>	2.93	1.73	1.77	1.89	0.95	1.24	2.18	1.04	3.08
<b>October</b>	5.08	5.66	6.81	5.75	4.30	5.73	5.26	4.49	2.43
<b>November</b>	0.82	0.79	0.62	0.51	0.30	0.43	0.24	0.39	1.77
<b>December</b>	0.44	0.31	0.46	0.77	0.34	0.72	0.65	0.79	1.16
<b>Totals (inches)</b>	30.20	29.31	32.24	36.07	24.96	33.48	37.87	32.36	30.61

<sup>1</sup> Location: Latitude 45.5441 Longitude -94.0708, Source: [http://www.dnr.state.mn.us/climate/historical/acis\\_stn\\_meta.html](http://www.dnr.state.mn.us/climate/historical/acis_stn_meta.html)

<sup>2</sup> Location: Latitude 45.4206 Longitude -93.9333, Source: [http://climate.umn.edu/hidradius/radius\\_new.asp](http://climate.umn.edu/hidradius/radius_new.asp)

<sup>3</sup> Location: Latitude 45.5272 Longitude -93.7110, Source: [http://www.dnr.state.mn.us/climate/historical/acis\\_stn\\_meta.html](http://www.dnr.state.mn.us/climate/historical/acis_stn_meta.html)

<sup>4</sup> Location: Latitude 45.0167 Longitude -93.3667, Source: [http://www.dnr.state.mn.us/climate/historical/acis\\_stn\\_meta.html](http://www.dnr.state.mn.us/climate/historical/acis_stn_meta.html)

<sup>5</sup> Location: Latitude 44.9823 Longitude -93.2549, Source: C Ellis, Saint Anthony Falls Laboratory (SAFL)

<sup>6</sup> Location: Latitude 44.9149 Longitude -93.2549, Source: <http://www.mvp-wc.usace.army.mil/projects/Lock1.shtml>

<sup>7</sup> Location: Latitude 44.8514 Longitude -93.5650, Source: [http://www.dnr.state.mn.us/climate/historical/acis\\_stn\\_meta.html](http://www.dnr.state.mn.us/climate/historical/acis_stn_meta.html)

<sup>8</sup> Location: Latitude 44.8830 Longitude: -93.2288, Source: [http://www.dnr.state.mn.us/climate/historical/acis\\_stn\\_meta.html](http://www.dnr.state.mn.us/climate/historical/acis_stn_meta.html)

<sup>9</sup> Location: Latitude 44.8830 Longitude: -93.2288, Source: [http://www.ncdc.noaa.gov/cdo-web/datasets/NORMAL\\_MLY/stations/GHCND:USW00014922/detail](http://www.ncdc.noaa.gov/cdo-web/datasets/NORMAL_MLY/stations/GHCND:USW00014922/detail)