

## Summary of Monthly Normals 1981-2010

Generated on 07/20/2024

Current Location: Elev: 380 ft. Lat: 39.4161° N Lon: 77.4389° W  
 Station: **FREDERICK POLICE BAR, MD US USC00183348**

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (above)									
Month	Daily Max	Daily Min	Mean	Long Term Max Std Dev	Long Term Min Std Dev	Long Term Avg Std Dev	55	57	60	65	70	72	55	57	60	65	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
01	42.1	25.8	33.9	5.0	4.5	4.7	3	2	1	-7777	0	0	655	716	808	963	0.0	0.0	7.0	5.3	22.0	0.4
02	46.5	28.2	37.4	4.0	3.1	3.4	2	1	-7777	-7777	0	0	496	551	635	774	0.0	0.0	9.6	1.5	18.8	0.0
03	55.7	34.5	45.1	3.6	2.4	2.9	26	18	10	3	-7777	-7777	333	387	472	620	0.0	0.0	20.8	0.4	12.4	0.0
04	67.7	44.7	56.2	2.9	1.8	2.2	124	94	59	23	7	4	88	118	174	287	0.0	0.6	29.1	0.0	2.1	0.0
05	76.6	54.0	65.3	3.2	3.0	2.9	327	272	196	100	39	24	8	14	32	90	0.0	1.6	31.0	0.0	0.0	0.0
06	85.0	63.1	74.0	2.4	1.4	1.7	571	512	423	281	156	113	-7777	-7777	1	10	-7777	7.1	30.0	0.0	0.0	0.0
07	88.9	67.9	78.4	2.5	2.2	2.2	725	663	570	415	263	205	0	0	0	-7777	0.5	13.5	31.0	0.0	0.0	0.0
08	86.6	66.3	76.5	2.5	2.1	2.2	665	603	510	356	209	156	0	-7777	-7777	1	0.3	7.7	31.0	0.0	0.0	0.0
09	79.9	58.9	69.4	2.5	1.9	1.9	433	375	291	169	79	52	1	3	9	37	0.0	2.3	30.0	0.0	0.0	0.0
10	68.2	47.3	57.7	3.1	2.9	2.7	146	111	68	25	6	3	61	87	138	249	0.0	0.0	30.6	0.0	0.8	0.0
11	56.5	38.5	47.5	3.9	2.4	3.0	28	17	7	1	-7777	0	253	302	382	526	0.0	0.0	21.7	-7777	7.0	0.0
12	45.1	30.1	37.6	5.3	4.1	4.7	5	3	1	-7777	0	0	544	604	695	849	0.0	0.0	9.6	3.1	18.4	-7777
Summary	66.6	46.6	56.6	3.4	2.6	2.9	3055	2671	2136	1373	759	557	2439	2782	3346	4406	0.8	32.8	281.4	10.3	81.5	0.4

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Precipitation (in.)									
	Totals	Mean Number of Days				Precipitation Probabilities Probability that precipitation will be equal to or less than the indicated amount			
	Means	Daily Precipitation				Monthly Precipitation vs. Probability Levels			
Month	Mean	>= 0.01	>= 0.10	>= 0.50	>= 1.00	0.25	0.50	0.75	
01	2.79	8.1	5.8	2.1	0.6	1.86	2.59	3.30	
02	2.71	7.8	5.9	1.7	0.4	1.88	2.28	3.37	
03	3.64	10.2	7.2	3.0	0.7	2.31	3.52	4.65	
04	3.54	10.2	6.8	2.5	0.7	2.06	3.69	4.35	
05	4.12	11.0	7.8	2.7	1.0	2.37	3.92	5.28	
06	3.53	9.7	6.6	2.2	0.6	2.20	3.05	4.78	
07	4.23	9.0	6.9	2.6	1.2	2.50	4.43	5.15	
08	3.09	8.5	5.6	2.0	0.7	2.24	2.98	3.93	
09	3.93	8.5	6.1	2.6	1.0	1.93	3.26	4.73	
10	2.87	6.8	5.0	2.0	0.6	1.69	2.61	3.80	
11	3.15	8.6	6.1	2.4	0.8	2.27	2.94	4.04	
12	3.41	8.9	6.4	2.2	0.6	2.26	3.05	4.69	
Summary	41.01	107.3	76.2	28.0	8.9	25.57	38.32	52.07	

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Snow (in.)													
	Totals	Mean Number of Days									Snow Probabilities Probability that snow will be equal to or less than the indicated amount		
	Means	Snowfall >= Thresholds					Snow Depth >= Thresholds				Monthly Snow vs. Probability Levels Values derived from the incomplete gamma distribution.		
Month	Snowfall Mean	0.01	1.0	3.0	5.00	10.00	1	3	5	10	.25	.50	.75
01	7.2	2.2	1.9	0.9	0.6	0.2	6.9	3.7	2.7	1.2	1.0	4.0	9.0
02	4.8	1.5	1.4	0.7	0.2	0.1	4.6	2.2	1.0	0.4	0.0	1.0	8.0
03	2.5	0.7	0.7	0.3	0.1	-7777	1.4	0.7	0.4	0.2	0.0	0.0	2.0
04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.1	0.1	-7777	0.0	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
12	1.7	0.5	0.5	0.2	0.1	0.0	1.9	0.7	0.2	0.0	0.0	0.0	3.5
Summary	16.5	5.0	4.6	2.1	1.0	0.3	15.0	7.3	4.3	1.8	1.0	5.0	22.5

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	62	208	487	784	1021	1190	1130	882	550	251	81
45	19	25	118	346	629	871	1035	975	732	399	147	36
50	7	8	59	220	475	721	880	820	582	259	73	14
55	3	2	26	124	327	571	725	665	433	146	28	5
60	1	-7777	10	59	196	423	570	510	291	68	7	1
Growing Degree Units for Corn (Monthly)												
50/86	25	35	125	286	490	690	818	781	579	318	127	35

Growing Degree Units (Accumulated Monthly)												
40	49	111	319	806	1590	2611	3801	4931	5813	6363	6614	6695
45	19	44	162	508	1137	2008	3043	4018	4750	5149	5296	5332
50	7	15	74	294	769	1490	2370	3190	3772	4031	4104	4118
55	3	5	31	155	482	1053	1778	2443	2876	3022	3050	3055
60	1	1	11	70	266	689	1259	1769	2060	2128	2135	2136
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	25	60	185	471	961	1651	2469	3250	3829	4147	4274	4309

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.

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