

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 781 ft. Lat: 41.4057° N Lon: -81.8520° W
Station: CLEVELAND HOPKINS INTERNATIONAL AIRPORT, OH US
USW00014820

Summary of Monthly Normals
1981-2010

Generated on 02/28/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

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	34.4	21.7	28.1	5.4	5.6	5.4	1	-7777	-7777	0	0	0	836	898	990	1145	0.0	0.0	3.4	13.1	25.0	1.4
02	37.5	23.6	30.5	4.3	4.2	4.2	1	1	-7777	-7777	0	0	686	741	825	965	0.0	0.0	3.9	9.2	22.1	0.5
03	46.6	30.2	38.4	4.1	3.2	3.5	13	9	5	1	-7777	-7777	528	586	674	826	0.0	0.0	11.2	3.6	18.9	-7777
04	59.1	40.4	49.8	3.0	2.4	2.6	62	46	28	10	2	1	220	264	336	468	0.0	0.0	23.1	0.2	5.6	0.0
05	69.5	50.1	59.8	3.9	3.4	3.5	194	155	106	48	16	9	45	68	113	209	0.0	0.2	30.5	0.0	0.2	0.0
06	78.6	59.8	69.2	2.5	2.4	2.4	428	370	288	168	78	52	2	4	12	42	-7777	2.1	30.0	0.0	0.0	0.0
07	82.6	64.3	73.5	2.6	2.1	2.3	572	510	417	265	135	94	-7777	-7777	-7777	4	0.0	3.8	31.0	0.0	0.0	0.0
08	80.8	63.1	72.0	2.6	2.5	2.5	525	464	371	223	103	68	-7777	-7777	1	8	0.0	2.3	31.0	0.0	0.0	0.0
09	73.9	56.0	65.0	2.5	1.6	1.9	308	256	183	89	32	19	10	17	35	91	0.0	0.6	30.0	0.0	0.0	0.0
10	62.3	45.4	53.8	2.8	2.8	2.7	88	64	37	12	2	1	124	162	228	357	0.0	0.0	28.0	0.0	0.9	0.0
11	50.8	36.9	43.9	3.9	2.7	3.1	17	10	4	1	-7777	0	351	405	489	635	0.0	0.0	15.5	0.9	9.4	0.0
12	38.3	26.4	32.4	5.4	5.0	5.1	3	2	1	-7777	-7777	0	705	766	858	1012	0.0	0.0	4.6	8.7	22.2	0.5
Summary	59.5	43.2	51.4	3.6	3.2	3.3	2212	1887	1440	817	368	244	3507	3911	4561	5762	0.0	9.0	242.2	35.7	104.3	2.4

-7777: a non-zero value that would round to zero
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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	2.72	17.1	7.5	1.1	0.2	1.78	2.30	3.32
02	2.34	13.9	6.4	1.0	0.1	1.64	2.40	2.75
03	2.93	14.2	7.8	1.6	0.2	1.72	3.16	3.77
04	3.49	14.4	8.1	2.3	0.6	2.46	3.69	4.22
05	3.66	13.2	8.3	2.3	0.7	2.08	3.65	4.54
06	3.43	11.1	6.7	2.2	0.7	2.66	3.35	4.69
07	3.46	10.3	6.5	2.4	0.8	2.58	3.21	4.16
08	3.51	9.8	6.0	2.0	0.9	2.00	3.23	4.72
09	3.81	10.0	6.7	2.8	1.0	2.12	3.35	4.61
10	3.07	11.4	6.9	1.9	0.4	2.34	2.74	3.66
11	3.62	13.5	8.2	2.2	0.7	2.59	3.49	4.07
12	3.10	16.0	8.1	1.6	0.4	2.42	2.88	3.69
Summary	39.14	154.9	87.2	23.4	6.7	26.39	37.45	48.20

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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	18.7	13.5	5.8	1.8	0.8	0.0	17.4	10.7	7.2	1.6	10.6	16.9	25.5
02	14.9	10.1	4.4	1.4	0.6	0.1	13.3	7.3	4.6	1.2	8.4	13.9	18.9
03	12.6	7.5	3.6	1.5	0.6	-7777	7.4	4.0	2.3	0.7	5.3	10.6	19.4
04	3.3	2.3	1.0	0.3	0.1	0.0	1.3	0.6	0.3	-7777	0.1	1.5	4.4
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	0.2	0.2	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	4.3	3.3	1.5	0.3	0.1	0.0	2.4	0.5	0.2	0.0	1.0	2.9	7.1
12	14.1	10.0	4.2	1.4	0.4	0.1	11.7	5.3	2.6	0.5	7.1	10.6	22.0
Summary	68.1	46.9	20.6	6.7	2.6	0.2	53.5	28.4	17.2	4.0	32.5	56.4	97.3

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	25	28	110	313	614	876	1037	990	748	432	178	41
45	10	12	62	201	460	726	882	835	598	290	98	18
50	3	4	30	118	316	576	727	680	450	172	47	8
55	1	1	13	62	194	428	572	525	308	88	17	3
60	-7777	-7777	5	28	106	288	417	371	183	37	4	1
Growing Degree Units for Corn (Monthly)												
50/86	10	14	64	172	355	572	709	670	461	222	79	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	25	53	163	476	1090	1966	3003	3993	4741	5173	5351	5392
45	10	22	84	285	745	1471	2353	3188	3786	4076	4174	4192
50	3	7	37	155	471	1047	1774	2454	2904	3076	3123	3131
55	1	2	15	77	271	699	1271	1796	2104	2192	2209	2212
60	0	0	5	33	139	427	844	1215	1398	1435	1439	1440
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	10	24	88	260	615	1187	1896	2566	3027	3249	3328	3345

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