

CENTRAL OHIO RAINGAGE NETWORK

Precipitation Report for July 2023

Prepared by Bob Davis

DAILY PRECIPITATION DATA (in inches) for July 2023

OBSV TIME	1800	0730	0700	2400		2100		1200	OBSV TIME
GAGE	4	5	9	11		19		31	GAGE
SECT	NW	NW	SE	NE		SW		SE	SECT
DATE									DATE
1	0.00	0.00	0.00	0.08		0.03		0.00	1
2	1.10	0.60	0.68	1.73		0.80		0.10	2
3	0.38	0.50	0.25	0.57		0.29		0.60	3
4	0.05	0.00	0.30	T		0.00		0.10	4
5	0.20	0.00	0.00	0.00		0.00		0.10	5
6	0.00	0.38	0.00	0.10		0.89		0.00	6
7	0.00	T	0.29	0.00		0.00		0.30	7
8	0.21	0.00	0.00	0.11		0.17		0.00	8
9	0.00	0.20	0.79	0.00		0.00		0.10	9
10	0.00	0.00	0.00	0.00		0.00		0.00	10
11	0.00	0.00	0.00	0.00		0.00		0.00	11
12	0.00	0.00	0.00	0.00		0.00		0.00	12
13	0.00	0.00	0.00	0.00		0.00		0.00	13
14	0.00	0.00	0.00	0.00		0.00		0.00	14
15	0.05	0.00	0.00	0.19		0.22		0.00	15
16	0.00	0.35	0.13	0.03		0.00		0.10	16
17	0.00	0.40	0.00	0.22		0.10		0.00	17
18	0.22	0.00	0.51	0.49		0.30		0.40	18
19	0.00	0.40	0.00	0.00		0.09		0.00	19
20	0.00	0.40	0.00	1.05		0.00		0.00	20
21	0.75	1.10	0.78	0.00		0.25		0.50	21
22	0.00	0.00	0.00	0.00		0.00		0.00	22
23	0.55	T	0.00	0.36		1.02		0.00	23
24	0.10	0.00	0.00	1.18		0.00		0.10	24
25	0.95	1.50	2.82	0.00		0.11		0.60	25
26	0.00	0.00	0.00	T		0.00		0.00	26
27	0.00	0.00	0.21	T		0.02		0.00	27
28	0.10	0.00	0.00	0.02		0.64		0.00	28
29	0.60	0.35	0.05	0.27		0.20		0.10	29
30	0.02	T	0.00	0.00		0.00		0.00	30
31	0.00	T	0.05	0.00		1.20		0.10	31
TOTAL	5.28	6.18	6.86	6.40		6.33		3.20	TOTAL
2023	26.35	28.86	28.51	27.95		24.89		27.20	2023

OBSERVERS AND LOCATIONS

Gage	Station ID	Observer	County	Community
4	Whetstone Park of Roses 1NW	Charleen & Diane Ehrbar	Franklin	Columbus
5	Powell 2NE	Debra Keller	Delaware	Liberty Township
9	Carroll 3SE	Janet Nungesser	Fairfield	Greenfield Township
11	Port Columbus Airport	National Weather Service	Franklin	Columbus
19	Shadeville 1W	Julie Allman	Franklin	Grove City
31	Lithopolis	Randall Solt	Fairfield	Lithopolis

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DAILY PRECIPITATION DATA (in inches) for July 2023

OBSV TIME		0700			1930	0900		1800	OBSV TIME
GAGE		40			50	55		60	GAGE
SECT		NE			NE	NW		NE	SECT
DATE									DATE
1		0.00			0.05	*		*	1
2		0.00			1.25	2.60		*	2
3		0.60			1.60	0.00		2.30a	3
4		0.00			0.00	0.00		0.00	4
5		0.00			0.00	0.20		0.00	5
6		0.25			0.60	0.00		0.00	6
7		0.00			0.00	0.00		0.00	7
8		0.00			0.10	0.15		0.00	8
9		0.20			0.00	0.00		0.00	9
10		0.00			0.00	0.00		0.00	10
11		0.00			0.00	0.00		0.00	11
12		0.00			0.00	0.00		0.00	12
13		0.00			0.00	0.00		0.00	13
14		0.00			0.00	0.00		0.00	14
15		0.00			0.20	0.15		0.08a	15
16		0.15			0.00	0.20		0.00	16
17		0.00			0.30	0.10		*	17
18		1.05			0.60	0.00		0.22	18
19		0.00			0.00	0.00		0.00	19
20		0.00			0.00	0.60		0.00	20
21		0.30			1.10	0.00		0.29	21
22		0.00			0.00	0.00		0.00	22
23		0.00			1.20	0.00		0.00	23
24		0.45			1.85	0.80		*	24
25		0.00			0.00	0.10		0.03	25
26		0.00			0.00	0.00		*	26
27		0.00			0.00	0.00		0.20	27
28		0.00			0.10	0.00		*	28
29		0.00			0.20	0.00		0.24	29
30		0.20			0.00	0.60		0.00	30
31		0.00			0.00	0.00		0.00	31
TOTAL		3.20			9.15	5.50		3.36	TOTAL
2023		M			29.82	M		M	2023

OBSERVERS AND LOCATIONS

Gage	Station ID	Observer	County	Community
40	Galena 3SW	James Jett	Delaware	Genoa Township
50	Blacklick Woods 2NNE	Richard Tennant	Franklin	Reynoldsburg
55	Scioto Country Club 1ESE	Matthew Schirner	Franklin	Upper Arlington
60	Newark-Heath Airport 2NNE	Cathy Peterfish	Licking	Newark

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DAILY PRECIPITATION DATA (in inches) for July 2023

OBSV TIME	2200	0800	2100	0530	2100	1900			OBSV TIME
GAGE	66	71	76	78	79	81			GAGE
SECT	SE	NW	NE	NE	NW	NE			SECT
DATE									DATE
1	0.36	0.09	0.00	T	0.10	0.80			1
2	0.25	0.25	1.14	1.09f	1.34	0.80			2
3	0.17	0.32	0.36	0.66g	1.18	0.80			3
4	0.00	0.00	0.00	0.30	0.00	0.00			4
5	0.00	0.00	0.00	0.00	0.00	0.00			5
6	0.12	0.73	0.00	0.00	0.44	0.00			6
7	0.00	0.00	0.00	0.66	0.00	0.00			7
8	0.22	0.25	0.00	0.00	0.18	T			8
9	0.00	0.00	0.00	0.16	0.00	0.00			9
10	0.00	0.00	0.00	0.00	0.00	0.00			10
11	0.00	0.00	0.00	0.00	0.00	0.00			11
12	0.00	0.00	0.00	0.00	0.00	0.00			12
13	0.07	0.02	0.00	0.00	0.00	0.00			13
14	0.00	0.00	0.00	0.00	0.00	0.00			14
15	0.21	0.12	0.02	0.00	0.15	T			15
16	0.00	0.02	0.00	0.09	0.00	0.20			16
17	0.28	0.07	0.00	0.09	0.00	0.05			17
18	0.04	0.00	0.52	0.36	0.07	0.40			18
19	0.00	0.00	0.00	0.00	0.00	0.00			19
20	0.86	0.87	0.00	0.00	0.00	0.00			20
21	0.00	0.01	0.47	1.05	0.65	0.40			21
22	0.00	0.00	0.00	0.00	0.00	0.00			22
23	0.18	0.04	0.00	0.00	0.45	*			23
24	2.14	1.39	0.09	0.15	0.55	*			24
25	0.00	0.00	0.00	1.00	0.10	*			25
26	0.00	0.00	0.11	0.00	0.00	*			26
27	0.28	0.00	0.00	0.00	0.00	*			27
28	0.22	0.02	0.00	0.00	0.00	*			28
29	0.00	0.66	0.32	0.78h	0.44	0.75			29
30	0.05	0.00	0.00	0.00	0.00	0.00			30
31	0.00	0.00	0.00	T	0.00	0.00			31
TOTAL	5.45	4.86	3.03	6.39	5.65	4.20			TOTAL
2023	28.72	22.80	22.92	29.57	27.28	27.04			2023

OBSERVERS AND LOCATIONS

Gage	Station ID	Observer	County	Community
66	Sycamore Creek Park 1SW	David Hague	Fairfield	Pickerington
71	Hilliard Municipal Park	John Z. Fargo	Franklin	Hilliard
76	Johnstown 6ENE	Luke Nutter	Licking	Liberty Township
78	New Albany 2NW	Scott Jerzyk	Franklin	Columbus
79	Central Grandview Heights	Jeff Bauer	Franklin	Grandview Heights
81	Utica	Craig & Tina Pargeon	Licking	Utica

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DAILY PRECIPITATION DATA (in inches) for July 2023

OBSV TIME	1700	0700				1800			OBSV TIME
GAGE	87	88				130			GAGE
SECT	NW	NE				NW			SECT
DATE									DATE
1	0.00	0.01				0.10			1
2	0.50	0.74				0.90			2
3	1.50	1.32				0.35			3
4	0.00	0.51				0.05			4
5	0.00	0.00				0.00			5
6	*	0.00				0.70			6
7	*	0.06				0.00			7
8	*	0.00				0.25			8
9	0.60	0.08				0.00			9
10	0.00	0.00				0.00			10
11	0.00	0.00				0.00			11
12	0.00	0.00				0.00			12
13	0.00	0.00				0.00			13
14	0.00	0.00				0.00			14
15	T	0.00				0.05			15
16	0.70	0.09				0.10			16
17	0.60	0.02				0.00			17
18	0.00	0.54				0.05			18
19	0.00	0.00				0.00			19
20	0.00	0.00				0.00			20
21	1.00	0.60				0.75			21
22	0.00	0.00				0.00			22
23	0.00	0.00				0.00			23
24	1.30	0.04				T			24
25	0.00	0.35				0.50			25
26	0.00	0.00				0.00			26
27	0.00	0.01				0.00			27
28	0.50	0.00				0.00			28
29	T	0.32				0.65			29
30	0.00	T				0.00			30
31	0.00	0.04				0.00			31
TOTAL	6.70	4.73				4.45			TOTAL
2023	24.60	26.49				26.50			2023

OBSERVERS AND LOCATIONS

Gage	Station ID	Observer	County	Community
87	New California 3N	Becky Stamm	Union	Mill Creek Township
88	St. Albans Golf Course	David Straub	Licking	Alexandria
130	Heritage Golf Club 1NW	Steve Rath	Franklin	Hilliard

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OHIO SUPPLEMENTAL GAGES: DAILY PRECIPITATION DATA (in inches) for July 2023

OBSV TIME	1700	2100	2400	0700					OBSV TIME
GAGE	201	202	205	207					GAGE
SECT	NE	NW	SE	NE					SECT
DATE									DATE
1	0.15	0.05m	0.04	*					1
2	0.25	0.17n	0.36	*					2
3	0.15	0.04	0.78	*					3
4	0.00	0.00	0.00	*					4
5	0.00	0.00	0.00	*					5
6	0.00	0.00	0.06	*					6
7	0.00	0.00	0.00	3.80k					7
8	0.10	*	0.00	0.03					8
9	0.00	0.07	0.00	*					9
10	0.00	0.00	0.00	0.07					10
11	0.00	0.00	0.00	0.00					11
12	0.00	0.02	0.00	0.00					12
13	0.00	0.00	0.84	0.00					13
14	0.00	0.00	0.06	0.00					14
15	0.00	0.00	0.26	0.00					15
16	0.00	0.82	0.15	*					16
17	0.40	0.00	1.32	*					17
18	0.10	0.00	0.03	0.30					18
19	0.00	0.00	0.00	0.08					19
20	0.00	0.05p	0.86	0.03					20
21	1.50	0.00	0.00	*					21
22	0.00	0.00	0.00	0.25					22
23	0.00	0.00	0.00	0.00					23
24	0.05	0.03	1.15	0.02					24
25	0.00	0.00	0.04	0.23					25
26	0.00	0.61q	0.00	0.00					26
27	0.00	0.19	0.03	0.45					27
28	0.70	0.00	0.22	*					28
29	0.00	1.05	0.04	0.92					29
30	1.40	0.00	0.00	0.20					30
31	0.05	0.00	0.19	0.05					31
TOTAL	4.85	3.10	6.63	11.86j					TOTAL
2023	24.02	19.84	27.35	30.67					2023

OBSERVERS AND LOCATIONS

Gage	Station ID	Observer	County	Community
201	Luna Lake	Chuck Boswell	Summit	Clinton
202	Bryan	Jeff Wetmore	Williams	Bryan
205	Rockbridge 4W	Jim Fry	Hocking	Good Hope Township
207	Dresden 2NW	Amy Crawford	Muskingum	Cass Township

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OUT-OF-STATE GAGES: DAILY PRECIPITATION DATA (in inches) for July 2023

OBSV TIME	2400	2400	1700	2400	1200				OBSV TIME
GAGE	301	303	306	307	308				GAGE
DATE									DATE
1	0.00	0.00	0.00	0.00	T				1
2	0.00	0.00	0.00	0.00	0.00				2
3	0.00	0.20	0.00	0.03	0.00				3
4	0.00	0.00	0.00	1.38	0.00				4
5	0.00	0.20	1.12	1.95	0.00				5
6	0.00	0.00	0.62	T	0.00				6
7	1.42	0.00	0.40b	0.05	0.00				7
8	0.06	0.00	0.08c	0.82	0.00				8
9	0.06	0.10	0.00	0.00	0.00				9
10	0.00	0.00	0.72	1.32	0.00				10
11	0.00	0.00	0.00	0.00	0.00				11
12	0.58	0.00	0.00	0.00	0.15				12
13	0.00	0.00	0.20	0.04	0.00				13
14	0.21	0.00	0.00	0.00	0.00				14
15	0.00	0.75	0.00	0.00	0.00				15
16	0.08	0.65	0.00	0.00	0.00				16
17	0.34	0.00	0.00	0.00	0.00				17
18	0.00	0.00	0.00	0.00	0.00				18
19	0.00	0.20	0.00	T	0.00				19
20	0.00	0.60	0.02	0.12	0.00				20
21	0.00	0.00	0.10	T	0.00				21
22	0.00	0.00	0.00	0.00	0.01				22
23	0.00	0.00	0.00d	3.68	0.00				23
24	0.09	0.00	0.78	0.00	0.00				24
25	0.31	0.00	0.00	T	0.00				25
26	0.00	0.00	0.00	0.55	T				26
27	0.00	0.00	0.02	T	0.00				27
28	0.07	0.00	0.19	1.02	0.00				28
29	0.00	0.10	0.60	0.17	T				29
30	0.03	0.00	0.53	T	0.15				30
31	0.04	0.00	0.00	0.08	0.00				31
TOTAL	3.29	2.80	5.38	11.21	0.31				TOTAL
2023	M	27.15	27.64	30.55	7.18				2023

OBSERVERS AND LOCATIONS

Gage	Station ID	Observer	Community
301	The Villages	Bob Long	The Villages, Florida
303	Estelle Park in Asheville, NC	Bern Sroka	Asheville, North Carolina
306	The Ponds of Summerville, SC	Bob Davis	Dorchester County, South Carolina
307	Charleston International Airport, SC	National Weather Service	North Charleston, South Carolina
308	Spanish Cay in Edgewood, NM	Melissa Seeley	Edgewood, New Mexico

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ODNR and NATIONAL WEATHER SERVICE COOPERATIVE OBSERVER STATIONS – Available Precipitation Totals for July 2023

Gage	Station I.D.	County	Monthly Total (in.)	Annual Total (in.)	Gage	Station I.D.	County	Monthly Total (in.)	Annual Total (in.)
12	Parsons Avenue Water Plant	Franklin	5.89	24.78					
13	Morse Road Water Plant	Franklin	6.17	27.95	107	Buckeye Lake 1N	Licking	3.89	25.77
20	Westerville Water Plant	Franklin	5.44	24.95	108	Newark Water Works	Licking	3.16	24.76
22	Minerva Park 1W	Franklin	6.50	25.81	110	Marysville	Union	5.24	25.63
28	London Fish Hatchery	Madison	7.14	29.69	111	Mt. Gilead	Morrow	2.76	20.89
					113	Marion 2N	Marion		M
					115	WCMH-TV	Franklin	5.70	26.90
104	Circleville	Pickaway	3.33	20.99	116	Washington Court House	Fayette	6.95	24.84
105	Lancaster 2NW	Fairfield		M	208	Martinsburg 1SE	Knox	4.91	25.48

ABBREVIATIONS AND NOTES

T	Trace, an amount too small to measure	a	Reading taken at 11:00 p.m.
M	Missed reading; no data available	b	Reading taken at 5:30 p.m.
*	Missed reading; amount included in following measurement	c	Reading taken at 6:30 p.m.
e	Estimated amount, based on data from nearby gauges	d	Reading taken at 4:30 p.m.
?	Questionable value, based on data from nearby gauges	f	Reading taken at 7:30 a.m.
NW	Northwest sector of network	g	Reading taken at 8:15 a.m.
NE	Northeast sector of network	h	Reading taken at 8:00 a.m.
SE	Southeast sector of network	j	Accumulated total June + July
SW	Southwest sector of network	k	Accumulated total from June 26
SECT	Geographic sector of network, based on direction of gauge from U.S. Route 23 (or Rt. 4 north of Marion), and US. Route 40.	m	Reading taken at 10:00 a.m.
		n	Reading taken at 3:00 p.m.
		p	Reading taken at 10:00 p.m.
NWS	National Weather Service	q	Reading taken at 4:00 p.m.
s	Estimated amount of water equivalent from a measured amount of snowfall.		

Notes:

- Most of our volunteers who report daily precipitation totals submit their data directly to Bob Davis. Data for gages with monthly totals only have been obtained from Scott Kirk at ODNR / Division of Soil and Water Resources or from NWS websites. Daily totals for Port Columbus and Charleston, SC Airports are obtained from NWS websites.
- The Central Ohio Raingage Network is a group of volunteer precipitation observers who typically report precipitation measurements taken from plastic rain gauges of at least 5-inch capacity.
- "Station I.D." nomenclature is adapted from National Weather Service (NWS) procedure for naming Cooperative Observer stations. The station is identified either by the nearest community or well-known landmark, along with a distance in miles, and direction from that community or landmark, if it exceeds approximately 1 mile. For example, Marion 2N represents a site that is approximately 2 miles north of the City of Marion. If no distance or direction is included with the station I.D., the station is located within the community, or less than 1 mile from the identified landmark.
- Gage ID numbers from 201-209 and 301-308 represent volunteers whose gages are located outside of the 10-county area officially designated by the NWS as the "Central Ohio" climatic section. The "Central Ohio" area consists of Marion, Morrow, Union, Delaware, Licking, Madison, Franklin, Fairfield, Fayette and Pickaway Counties.
- The intent of the precipitation tables in this report is to provide liquid equivalent amounts of precipitation that occurred in the 24 hours prior to the observation time on the date indicated in the table at each gauge site. Since the principal author of this report currently resides outside of the Central Ohio area, and does not personally experience the reported storms, it is not possible to positively confirm the dates of the storms as presented in this report. For future reference purposes, minor allowances may need to be made at times for defining actual dates of historical CORN rainfall amounts.
- Copies of past CORN reports can be obtained from the CORN website, www.centralohiorain.com, or by contacting CORN Administrative staff.
- Data for Gages 31, 105, and 113 were not available at the time of publication.
- Report has been updated 08/19 to include Daily precipitation data for Gauge #31 plus corrections to the Abbreviations and Notes table. Sector averages have not been updated from initial report.

CORN Administrative Staff	E-mail Contact Information
Bob Davis, Founder and Director, Member Emeritus of American Meteorological Society (AMS) Emily Davis, Website Designer and Manager <i>Thanks also to CORN storm spotters Cathy Peterfish, Becky Stamm, Diane Ehrbar, and Jeff Bauer, who send alerts during significant storm events.</i>	therainquy@yahoo.com em.davis00@gmail.com

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SUMMARY INFORMATION for July 2023

PRECIPITATION FOR MONTH:	PRECIPITATION FOR CALENDAR YEAR:
Overall Central Ohio precipitation: Averaged above normal over all 4 sectors of the network.	Overall Central Ohio precipitation: Averaging near normal over all 4 sectors of the network.
Range of monthly precipitation totals in Central Ohio: Low: 2.76" @ Mt. Gilead (Morrow Co.) High: 9.15" @ Blacklick Woods 2NNE (Franklin Co.)	Range of annual precipitation totals in Central Ohio: Low: 20.89" @ Mt. Gilead (Morrow Co.), and 20.99" @ Circleville (Pickaway Co.) High: 29.82" @ Blacklick Woods 2NNE (Franklin Co.), and 29.62" @ London Fish Hatchery (Madison Co.)
Significant precipitation totals outside Central Ohio area: In Ohio: In other States: 0.31" @ Edgewood, NM; 11.21" @ Charleston, SC International Airport.	Significant precipitation totals outside Central Ohio area: In Ohio: 19.84" @ Bryan (Williams Co.) In other States: 7.18" @ Edgewood, NM

Central Ohio Sector Data	Average Precipitation for Month	Average Precipitation for Year
	(in.)	(in.)
NW Sector	5.51	26.12
NE Sector	4.96	26.20
SE Sector	5.52	26.95
SW Sector	5.94	25.10
Overall 4-sector	5.48	26.09
Normal precipitation at Port Columbus	4.67	25.87

<p>Central Ohio Significant Storm Information for Month: <u>July 1-3</u>: Scattered showers and thunderstorms over this 3-day period produced 1-3" of total rainfall over a large portion of the central Ohio area. The heaviest rains fell generally on the 2nd, including 1.36" of rain within an hour at Delaware Municipal Airport.</p>
Miscellaneous: