

## Rainfall

Rainfall can be an agriculturalists best friend or worst enemy. In Oklahoma, rain can be nonexistent, sporadic or extensive depending on your location during a storm.

Rain is crucial for all aspects of agriculture and knowing how much rain an area received is a critical planning tool.

## **Tools Available**

The Oklahoma Mesonet provides various rainfall information tools to allow users to monitor rainfall amounts in their area and get updates on Oklahoma's drought conditions.

Each Mesonet tower is outfitted with a rain gauge that measures rainfall down to a .01 of an inch. With 120 rain gauges located throughout the state, users are able to get a good idea on how much rainfall their area received. To view rainfall maps and tables, visit http://mesonet.org. Click on Weather in the top menu bar, and select Rainfall in the side bar.

Scroll down to view Rainfall Accumulation maps for various time intervals, like the one above. When viewing these maps, the color gradient behind the Mesonet data reflects the National Weather Service River Forecast Center radar data. The radar data combined with Mesonet data helps give an overall rainfall picture for the state.

The Monthly Rainfall Table, the right, on shows monthly rainfall totals for a single Mesonet site. The table shown has estimated rainfall values in red and includes monthly Mesonet average and 30-year normal rainfall amounts.

Remove estimate	d values												
Select a site: Pawnee \$			1										
Pawnee (PAWN) rainfall in inches per month													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Total
30-Year Normal	1.35	1.82	3.47	3.75	5.57	4.00	3.11	3.41	4.55	3.29	2.91	1.87	39.10
Mesonet Average	e 1.25	1.59	3.44	3.99	4.69	5.24	3.55	3.53	3.97	3.55	2.20	1.58	38.58
1994	0.12	3.31	2.56	6.89	4.48	1.93	4.60	5.92	1.45	2.22	4.88	1.08	39.44
1995	0.63	1.10	4.00	6.10	6.62	7.30	3.41	3.82	6.70	0.52	0.29	2.03	42.52
1996	0.14	0.11	1.27	1.82	1.02	3.11	3.05	5.31	7.16	2.76	5.71	0.09	31.55
1997	0.37	2.97	1.23	5.01	4.50	4.09	7.41	5.20	4.01	2.08	0.99	4.10	41.96
1998	2.88	0.23	7.29	5.73	3.95	2.33	5.95	0.95	3.05	10.56	3.90	1.41	48.23
1999	2.88	0.94	4.02	7.37	7.39	8.72	2.74	1.48	8.26	2.77	0.26	4.00	50.83
2000	0.71	1.50	4.82	3.20	7.79	4.93	3.08	0.02	0.21	6.71	1.61	0.74	35.32
2001	2.71	2.04	1.52	1.19	6.79	1.43	0.28	0.77	2.91	0.42	4.39	1.13	25.58
2002	2.78	1.04	2.24	5.09	4.50	3.26	3.18	7.71	4.87	2.57	0.26	2.50	40.00
2003	0.06	1.30	3.60	1.93	2.64	5.54	0.15	4.58	3.63	4.07	2.19	1.75	31.44
2004	2.79	1.77	5.98	2.60	2.08	7.44	5.35	3.05	1.35	6.33	3.61	0.89	43.24
2005	3.31	1.62	0.72	0.82	2.00	4.71	2.72	3.83	5.27	2.22	0.10	0.15	27.47
2006	0.58	0.13	2.24	5.28	2.25	2.06	2.10	2.57	1.01	0.94	1.86	2.99	24.01
2007	1.40	0.62	5.43	4.03	8.63	13.33	4.19	1.84	5.28	6.10	0.73	1.60	53.18
2008	0.57	2.46	7.02	5.08	9.37	12.52	3.68	1.69	8.08	2.08	2.25	1.05	55.85
2009	0.15	1.81	5.22	4.78	2.21	2.76	6.64	6.18	2.26	7.21	1.03	0.64	40.89
2010	1.00	2.38	1.83	2.83	4.98	6.44	4.56	5.37	2.82	1.03	2.54	0.31	36.09
2011	0.23	1.99	0.94	2.09	3.30	2.41	0.74	3.29	3.22	3.34	2.99	1.92	26.46
2012	0.50	2.80											

# **Rainfall Amounts Over Time**

The Oklahoma Climatological Survey provides rainfall statistics over different time frames. You can view these rainfall statistics by clicking on Rainfall Summaries (Tables and Maps) from the Rainfall section of the Mesonet Weather tab.

At the top of the page, vou can choose the time period you would like to view. Time periods include



Spring to Date, Warm Growing Season, Year to Date, Water Year, Last 30 Days, Last 60 Days, Last 90 Days, Last 120 Days, Last 180 Days, and Last 365 Days.



Tables of rainfall summaries for each climate division are available. Separate summaries are provided for the differing durations of rainfall.

Scroll down to the bottom of the page to view maps for the period you chose. Options include Total Precipitation, Normal Rainfall, Departure from Normal Rainfall, and Percentage of Normal Rainfall maps.

**Our Story** The Oklahoma Mesonet is a world-class network of environmental monitoring stations. The network was designed and implemented by scientists at the University of Oklahoma (OU) and at Oklahoma State University (OSU).

The Oklahoma Mesonet consists of 120 automated stations covering Oklahoma. There is at least one Mesonet station in each of Oklahoma's 77 counties.

At each site, the environment is measured by a set of instruments located on or near a 10-meter-tall tower. The measurements are packaged into "observations" every 5 minutes, then the observations are transmitted to a central facility every 5 minutes, 24 hours per day year-round.

## For help with this or other Mesonet products, please call 405-325-3231, or email us at operator@mesonet.org.



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