Kay County Climate Summary

Temperature

Average Annual:	57.55°F
Average Maximum:	69.45°F
Average Minimum:	45.6°F
Record High:	117°F
Record Lowest:	-27°F
Number of Days greater than 90°:	56
Number of Days High less than 32°:	15

Precipitation

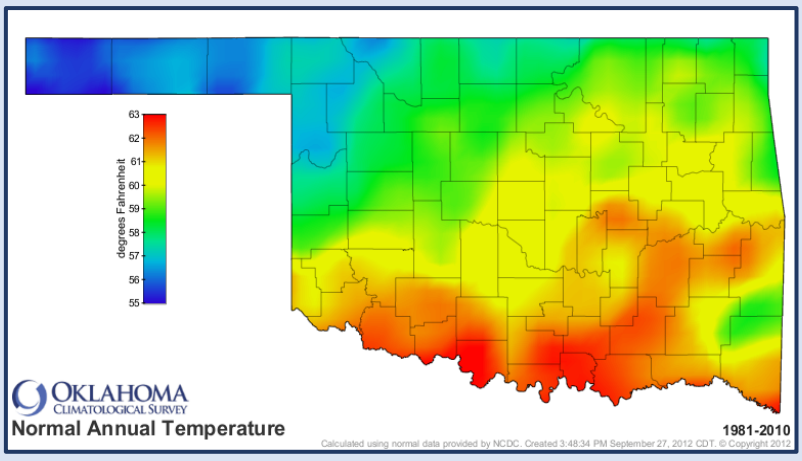
Average Annual:	38.37in
Number of Days with Precipitation:	76
Wettest Year:	59.63in (1986)
Driest Year:	14.40in (1910)
Greatest Daily Rainfall:	11.11in (11/20/79)

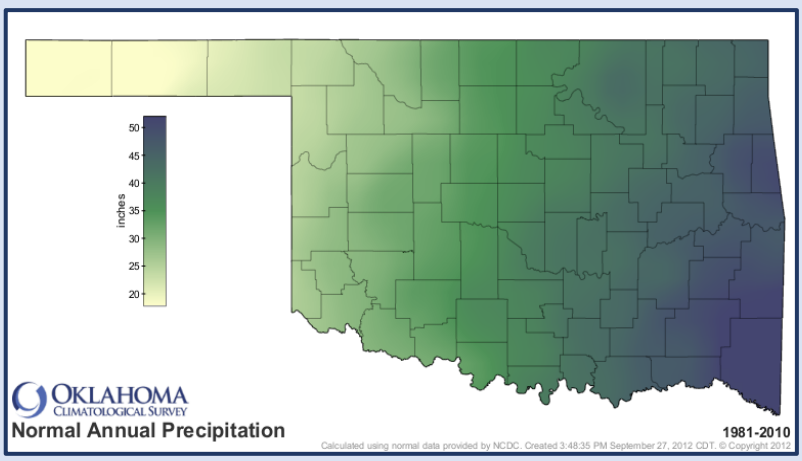
Winter Weather

Average Annual Snowfall:	8.5in
Days with snow on the Ground:	9
Greatest Seasonal Snowfall:	41.0in (1987-1988)
Greatest Daily Snowfall:	15in (2/24/2003)
Date of Average Last Freeze in Spring:	April 10
Date of Average First Freeze in Fall:	Oct. 29
Length of Growing Season:	202

Other Facts

Average Wind Speed:	9mph
Sunshine:	55-80%
Average Humidity:	70%
Thunderstorm Days:	52
Hail Events (1950-2016):	532
Number of Tornadoes (1950-2016):	96



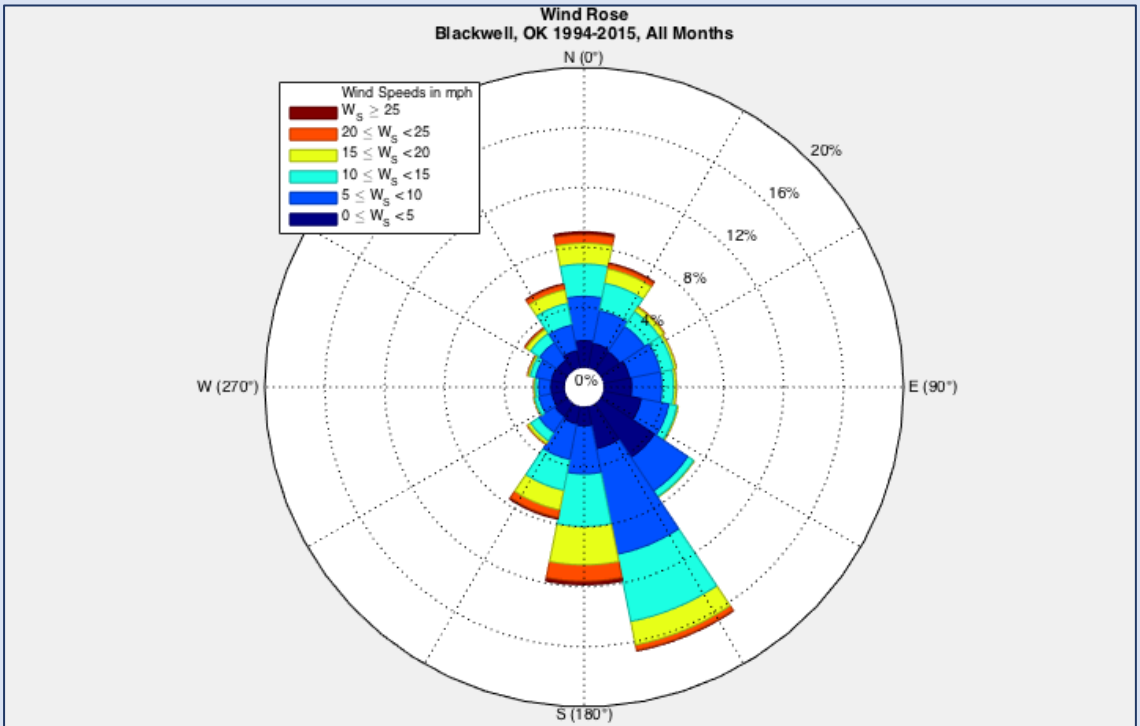


WINDS 1994-2015

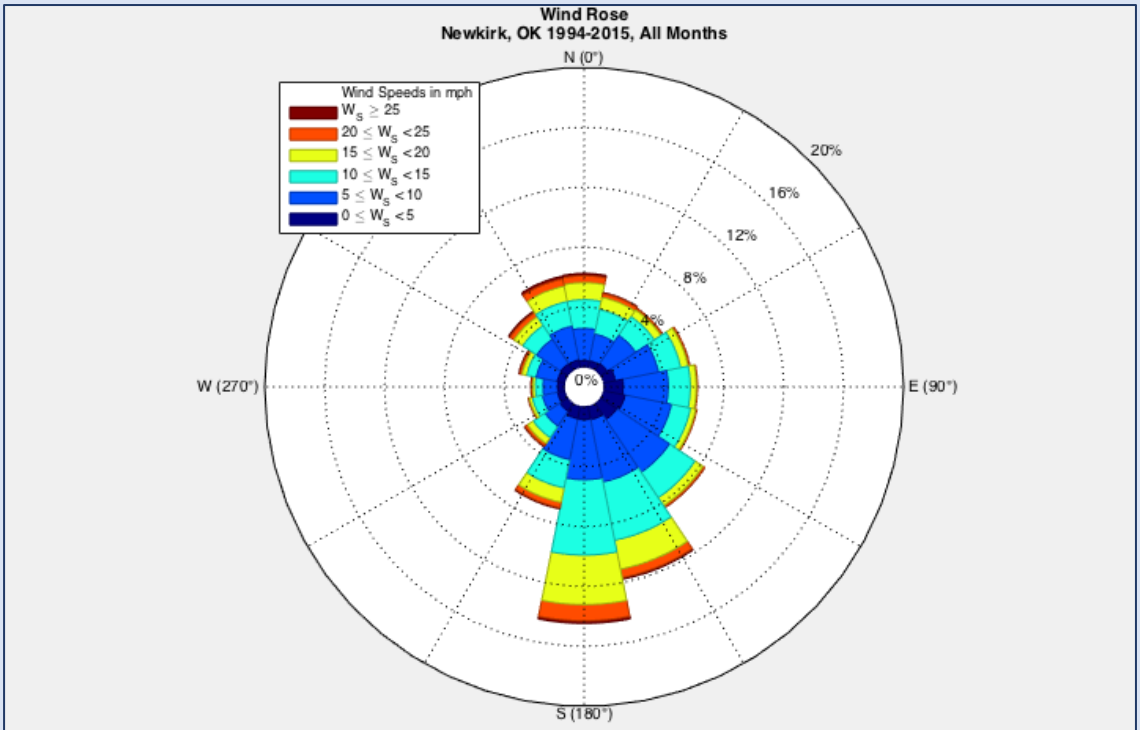
Sites: Blackwell Mesonet Site (BLAC)

Newkirk Mesonet Site (NEWK)

Wind Roses show the prevailing direction from which the wind is blowing. North is up in the image. The circles show the percentage of time from which the wind is blowing in that direction, as well as the percentage of time for different wind speed ranges. The wind speed ranges are represented by different shades of color. For example, Blackwell records a south wind about 12% of the time, with winds blowing between 5 and 10mph about 3% (~5%-2%) of the time from that direction. The table below shows the percentage of time the wind is blowing from each of the 16-point compass headings, and the percent of time the prevailing wind is recorded in each speed bin.



Dir Range	Avg Dir	0-5 mph	5-10 mph	10-15 mph	15-20 mph	20-25 mph	25+ mph	Total
348.75 to 11.25	0	1.77	2.95	2.15	1.40	0.57	0.19	9.03
11.25 to 33.75	22.5	1.63	2.23	1.87	0.98	0.31	0.09	7.10
33.75 to 56.25	45	1.52	2.02	1.18	0.35	0.06	0.01	5.14
56.25 to 78.75	67.5	1.76	2.09	0.89	0.19	0.03	0.00	4.96
78.75 to 101.25	90	1.84	2.01	0.78	0.17	0.03	0.00	4.84
101.25 to 123.75	112.5	2.55	1.88	0.54	0.09	0.01	0.00	5.08
123.75 to 146.25	135	4.30	2.69	0.47	0.05	0.00	0.00	7.51
146.25 to 168.75	157.5	2.84	7.18	4.58	1.60	0.36	0.06	16.62
168.75 to 191.25	180	1.24	3.21	3.50	2.57	1.09	0.24	11.85
191.25 to 213.75	202.5	1.15	2.42	2.10	1.34	0.52	0.11	7.64
213.75 to 236.25	225	1.01	1.27	0.68	0.24	0.06	0.01	3.27
236.25 to 258.75	247.5	0.86	0.89	0.28	0.06	0.02	0.01	2.12
258.75 to 281.25	270	0.88	0.82	0.23	0.09	0.03	0.01	2.05
281.25 to 303.75	292.5	0.88	1.07	0.38	0.14	0.06	0.01	2.55
303.75 to 326.25	315	0.83	1.40	0.74	0.35	0.11	0.03	3.46
326.25 to 348.75	337.5	1.13	1.76	1.48	0.91	0.33	0.08	5.69
0 to 360	TOTAL	26.21	35.90	21.84	10.54	3.58	0.85	98.91
Calm	Wind = 0							1.09



Dir Range	Avg Dir	0–5 mph	5–10 mph	10–15 mph	15–20 mph	20–25 mph	25+ mph	Total
348.75 to 11.25	0	0.43	2.14	1.92	1.14	0.46	0.16	6.24
11.25 to 33.75	22.5	0.44	1.82	1.65	0.84	0.27	0.06	5.09
33.75 to 56.25	45	0.53	2.28	1.49	0.53	0.13	0.02	4.98
56.25 to 78.75	67.5	0.80	2.92	1.51	0.50	0.11	0.02	5.86
78.75 to 101.25	90	1.28	3.00	1.47	0.40	0.07	0.01	6.23
101.25 to 123.75	112.5	1.44	3.16	1.30	0.36	0.08	0.01	6.34
123.75 to 146.25	135	1.28	4.23	2.05	0.64	0.14	0.02	8.37
146.25 to 168.75	157.5	0.89	4.24	3.98	1.97	0.58	0.10	11.76
168.75 to 191.25	180	0.85	4.01	5.04	3.30	1.08	0.17	14.46
191.25 to 213.75	202.5	0.83	2.78	1.93	0.99	0.36	0.08	6.97
213.75 to 236.25	225	0.61	1.20	0.94	0.47	0.19	0.06	3.47
236.25 to 258.75	247.5	0.48	1.03	0.68	0.21	0.06	0.02	2.48
258.75 to 281.25	270	0.44	0.98	0.51	0.18	0.08	0.04	2.23
281.25 to 303.75	292.5	0.50	1.44	0.64	0.32	0.15	0.07	3.11
303.75 to 326.25	315	0.53	1.95	1.11	0.71	0.33	0.12	4.75
326.25 to 348.75	337.5	0.49	2.30	1.68	1.04	0.50	0.18	6.19
0 to 360	TOTAL	11.82	39.47	27.89	13.60	4.61	1.16	98.54
Calm	Wind = 0							1.46

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