

MESONET CLIMATOLOGICAL DATA SUMMARY
 (RETR) Retrop
 Latitude: 35-07-21

May 2013
 Nearest City: 10.0 ENE Willow
 Longitude: 99-21-36

Time Zone: Midnight-Midnight CST
 County: Washita
 Elevation: 1765 feet

DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	80	40	61.0	52.4	5	0	93	47	75	0.00	28.05	29.92	N	20.8	47.1	18.62	64.6	69.3	74	65
2	53	35	41.9	31.8	21	0	93	34	70	0.11	28.52	30.40	N	25.4	52.6	14.10	57.5	58.6	64	55
3	68	31	49.6	24.9	16	0	85	14	46	0.00	28.33	30.20	NW	11.0	27.7	29.83	55.3	57.4	65	50
4	69	34	52.4	26.0	13	0	83	10	45	0.00	28.16	30.03	NNW	14.5	40.1	30.23	56.2	59.3	65	54
5	69	36	52.6	41.8	13	0	94	40	70	0.00	28.26	30.13	NNW	7.7	18.6	23.75	57.2	60.6	68	55
6	74	41	60.2	45.9	7	0	96	31	63	0.00	28.22	30.09	ESE	5.1	15.2	22.77	59.5	63.5	70	57
7	83	53	68.4	46.9	0	3	83	24	51	0.00	28.11	29.98	SSE	12.3	30.5	27.00	61.8	66.6	73	61
8	88	56	72.1	54.8	0	7	83	34	56	0.00	27.99	29.85	S	14.0	30.9	21.80	63.6	68.5	74	64
9	77	58	66.8	60.0	0	2	98	56	80	0.02	28.05	29.91	NNE	9.7	24.9	16.06	64.1	68.4	72	65
10	70	55	62.3	52.6	2	0	95	48	72	0.17	28.21	30.08	NNE	11.5	33.1	22.94	63.8	67.7	72	63
11	81	49	64.0	45.6	0	0	90	24	56	0.00	28.32	30.20	NE	11.3	29.3	27.71	63.3	67.8	75	61
12	81	44	64.6	40.1	3	0	83	23	44	0.00	28.32	30.19	S	10.8	29.6	28.07	63.2	67.9	75	61
13	93	54	75.6	39.7	0	8	67	13	32	0.00	28.22	30.09	SW	12.2	26.2	29.91	64.9	70.8	78	64
14	90	59	76.3	45.5	0	9	54	20	35	0.00	28.13	30.00	SSW	13.8	36.3	29.87	66.4	72.6	78	67
15	77*	61*	67.8*	58.0*	0*	4*	96*	51*	72*	0.01*	28.00*	29.86*	S *	9.9*	22.5*	NA	66.2*	70.4*	74*	69*
16	81	57	66.8	58.9	0	4	99	46	79	0.00	27.96	29.82	ESE	8.6	20.7	25.08	66.5	71.2	78	66
17	86	59	70.0	66.3	0	7	100	55	89	0.02	27.98	29.83	E	9.1	22.6	12.97	67.3	71.6	76	69
18	100	65	76.4	64.0	0	17	99	21	72	0.08	27.89	29.74	SE	14.5	46.2	20.13	68.6	73.6	80	70
19	96	66	81.7	46.4	0	16	92	9	41	0.00	27.78	29.63	SW	14.7	39.8	29.53	69.2	75.0	81	70
20	92	56	74.3	51.5	0	9	83	19	50	0.00	27.86	29.71	N	10.1	23.8	29.43	69.6	76.2	83	70
21	77	56	65.9	46.8	0	1	85	30	52	0.16	27.99	29.85	NNE	11.7	41.5	19.89	68.3	72.7	77	69
22	88	50	69.9	49.0	0	4	94	20	55	0.00	28.02	29.88	SSE	8.8	27.5	29.41	67.3	73.1	82	65
23	88	60	70.6	59.2	0	9	92	26	71	0.00	28.12	29.98	E	15.5	36.2	14.16	67.7	73.1	77	70
24	91	60	72.7	62.3	0	10	93	37	73	0.00	28.22	30.09	SSE	14.8	36.0	18.75	68.2	73.5	80	69
25	87	60	72.3	62.2	0	9	92	38	72	0.00	28.19	30.06	SSE	15.2	34.3	23.21	69.2	74.8	80	70
26	93	66	79.9	63.4	0	15	93	33	61	0.00	28.06	29.92	SSE	18.4	38.9	25.64	70.9	77.6	84	72
27	97	71	81.5	64.5	0	19	96	31	60	0.26	27.91	29.77	S	20.8	54.2	25.76	72.5	79.2	85	75
28	84	69	76.1	65.7	0	12	87	54	71	0.00	27.87	29.73	S	16.5	37.7	19.38	71.7	76.6	81	73
29	85	68	73.9	65.0	0	11	92	47	75	0.06	27.80	29.65	SSE	18.9	38.1	10.65	70.1	74.3	77	72
30	96	70	80.9	54.5	0	18	88	10	52	0.00	27.79	29.64	S	14.4	38.4	28.82	71.5	77.7	86	71
31	99	65	82.4	56.7	0	17	81	19	46	0.00	27.82	29.67	WSW	12.2	31.9	29.65	73.2	80.6	88	73

84* 55* 68.7* 51.7* <- Monthly Averages -> 28.07* 29.93* S * 13.4* 54.2* 23.50* 65.8* 70.6* 76* 66*

Temperature - Highest: 100* Lowest: 31*	Degree Days - Total HDD: 80* Total CDD: 212*	Number of Days With: Tmax ≥ 90: 10* Rainfall ≥ 0.01 inch: 9* Tmax ≤ 32: 0* Rainfall ≥ 0.10 inch: 4* Tmin ≤ 32: 1* Avg Wind Speed ≥ 10 mph: 24* Tmin ≤ 0: 0* Max Wind Speed ≥ 30 mph: 19*
Rainfall: Monthly Total: 0.89* in. Greatest 24 Hr: 0.26* in.	Humidity - Highest: 100* Lowest: 9*	

MESONET CLIMATOLOGICAL DATA SUMMARY June 2013 Time Zone: Midnight-Midnight CST
 (RETR) Retrop Nearest City: 10.0 ENE Willow County: Washita
 Latitude: 35-07-21 Longitude: 99-21-36 Elevation: 1765 feet

DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	87	59	74.3	46.9	0	8	84	18	43	0.00	28.08	29.94	NNE	15.8	39.0	30.80	73.4	80.0	85	75
2	83	54	68.2	46.7	0	4	83	24	51	0.00	28.21	30.08	NE	8.5	19.9	30.68	72.5	78.5	86	72
3	93	56	75.3	52.8	0	9	81	25	50	0.00	28.03	29.89	SSE	15.8	36.0	26.73	72.4	78.9	86	73
4	94	62	78.1	63.6	0	13	96	32	65	0.25	27.97	29.82	ESE	15.7	37.9	28.23	73.6	81.3	90	74
5	87	64	75.4	61.9	0	11	91	41	65	0.09	28.06	29.92	NNE	14.0	35.4	23.29	73.8	81.1	87	75
6	82	61	70.3	53.7	0	6	89	32	59	0.00	28.13	29.99	NNE	13.0	27.8	24.51	72.5	78.7	84	73
7	85	55	71.8	52.0	0	5	84	31	53	0.00	28.12	29.99	SSE	7.2	21.6	23.36	71.6	78.2	86	71
8	90	62	75.6	53.5	0	11	98	23	50	0.75	27.99	29.84	S	19.1	43.1	25.58	72.0	79.3	86	74
9	91	60	75.6	55.8	0	11	97	18	58	0.00	28.07	29.93	WNW	5.9	15.8	29.67	72.3	77.4	85	70
10	100	67	84.8	56.4	0	19	79	17	43	0.00	28.05	29.91	SSW	13.6	28.9	30.63	74.0	80.8	91	72
11	98	73	86.7	54.5	0	20	52	20	35	0.00	28.06	29.92	SSW	16.6	34.1	30.68	75.1	83.9	93	75
12	99	73	86.4	60.7	0	21	71	24	45	0.00	28.09	29.95	SSW	14.2	33.0	29.25	76.4	85.3	93	78
13	99	72	86.0	61.0	0	21	72	24	46	0.00	28.13	29.99	S	9.3	27.1	29.79	77.5	86.7	95	79
14	95	72	83.0	60.0	0	19	81	27	49	0.00	28.11	29.97	SSW	10.7	29.4	23.63	78.0	86.1	92	80
15	89	68	77.5	63.1	0	13	95	35	63	0.21	28.11	29.97	SSW	10.8	36.8	21.10	76.8	83.2	89	79
16	96	66	81.3	64.2	0	16	90	30	60	0.00	28.09	29.95	SSW	8.7	27.1	25.65	76.3	84.4	93	76
17	88	66	76.8	63.6	0	12	96	37	67	0.22	28.12	29.98	NNE	10.5	55.0	29.18	76.9	83.9	91	77
18	89	65	76.8	61.1	0	12	97	31	63	0.00	28.16	30.02	SE	7.3	20.2	28.28	77.0	84.8	93	77
19	87	67	73.9	63.0	0	12	96	34	72	0.07	28.09	29.96	SSE	11.0	43.3	11.94	75.1	80.0	85	76
20	98	68	83.6	63.2	0	18	85	26	54	0.00	28.06	29.92	S	18.6	40.2	29.20	75.5	82.7	92	75
21	96	76	85.5	63.0	0	21	67	30	49	0.00	28.08	29.95	S	17.6	36.5	26.65	77.3	85.6	92	80
22	97	73	86.4	59.7	0	20	64	28	42	0.00	28.03	29.89	S	21.0	39.4	27.93	78.1	85.8	92	80
23	98	76	86.6	56.7	0	22	63	19	39	0.00	28.00	29.85	S	21.4	37.8	27.73	78.8	85.8	92	80
24	97	75	85.8	59.0	0	21	58	24	42	0.00	28.03	29.89	S	21.0	37.9	25.60	79.2	85.6	90	81
25	102	77	88.3	63.6	0	24	64	26	46	0.00	27.97	29.82	S	19.1	34.2	27.55	80.1	86.4	93	81
26	104	76	90.2	62.1	0	25	65	25	41	0.00	27.99	29.85	S	13.1	29.2	29.02	81.6	88.3	95	82
27	107	73	90.4	59.5	0	25	79	14	42	0.00	28.09	29.96	SSW	11.1	46.8	29.78	83.0	89.6	96	83
28	102	70	87.5	54.7	0	21	73	15	37	0.00	28.13	30.00	ENE	9.2	34.1	30.06	83.1	89.3	95	84
29	97	71	84.5	54.1	0	19	69	22	38	0.00	28.11	29.97	NE	8.9	21.7	25.80	82.5	88.1	94	83
30	92	65	78.4	51.8	0	13	86	21	44	0.02	28.15	30.02	NE	11.4	27.3	25.46	81.3	85.6	90	81
	94	68	80.8	58.0	<- Monthly Averages ->						28.08	29.94	S	13.3	55.0	26.93	76.6	83.5	90	77

Temperature - Highest: 107 Lowest: 54	Degree Days - Total HDD: 0 Total CDD: 473	Number of Days With: Tmax ≥ 90: 21 Rainfall ≥ 0.01 inch: 7 Tmax ≤ 32: 0 Rainfall ≥ 0.10 inch: 4 Tmin ≤ 32: 0 Avg Wind Speed ≥ 10 mph: 22 Tmin ≤ 0: 0 Max Wind Speed ≥ 30 mph: 18
Rainfall: Monthly Total: 1.61 in. Greatest 24 Hr: 0.75 in.	Humidity - Highest: 98 Lowest: 14	

MESONET CLIMATOLOGICAL DATA SUMMARY July 2013 Time Zone: Midnight-Midnight CST
 (RETR) Retrop Nearest City: 10.0 ENE Willow County: Washita
 Latitude: 35-07-21 Longitude: 99-21-36 Elevation: 1765 feet

DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	85	59	72.4	45.8	0	7	74	21	42	0.00	28.25	30.12	NNE	10.2	24.6	24.88	79.3	82.5	87	78
2	88	57	73.8	40.2	0	7	59	14	33	0.00	28.26	30.13	N	7.6	24.3	28.86	78.3	81.7	89	75
3	90	57	76.6	42.4	0	8	63	16	32	0.00	28.17	30.04	S	6.7	24.2	24.46	78.5	82.2	88	76
4	94	64	80.1	48.3	0	14	73	18	36	0.01	28.10	29.97	SSE	11.3	26.9	24.75	78.9	83.1	89	77
5	99	67	83.6	50.6	0	18	71	15	37	0.00	28.05	29.91	SSE	15.3	34.5	28.51	79.9	84.5	91	79
6	98	75	85.2	51.9	0	22	50	17	34	0.00	28.04	29.90	SSE	17.2	35.4	19.05	80.2	84.2	88	81
7	98	71	86.1	55.3	0	20	62	19	37	0.00	28.11	29.97	SSE	13.2	26.0	28.07	80.9	85.9	93	80
8	101	71	87.0	59.1	0	21	72	23	42	0.00	28.16	30.03	SSE	11.2	29.6	27.51	82.3	87.6	94	82
9	102	77	90.2	59.3	0	25	64	21	38	0.00	28.15	30.02	S	12.6	29.5	29.26	83.9	89.6	96	84
10	102	76	90.1	57.2	0	24	56	22	35	0.00	28.14	30.01	SW	8.7	24.7	26.29	84.5	90.3	96	85
11	103	75	85.1	62.2*	0	24	93*	20*	49*	0.79*	28.11*	29.97*	SSE*	9.2*	59.0*	NA	83.9*	87.6*	94*	82*
12	102	73	87.6	62.6	0	22	83	22	49	0.00	28.09	29.95	SSE	10.3	26.8	29.73	81.8	85.2	95	77
13	103	75	89.9	58.3	0	24	72	16	40	0.00	28.09	29.96	SSE	9.7	23.2	27.52	82.4	88.5	97	80
14	83	64	72.3	61.0	0	9	97	48	70	0.37	28.14	30.01	SE	13.2	38.3	8.91	79.2	81.8	89	75
15	77	62	67.8	63.3	0	4	99	61	86	0.02	28.22	30.09	NE	10.2	23.3	12.58	74.0	74.1	77	71
16	72	66	68.9	67.4	0	4	99	87	95	2.12	28.32	30.19	SE	9.1	23.5	4.84	71.6	72.7	74	71
17	84	67	73.3	68.3	0	10	97	60	85	0.35	28.39	30.26	ESE	7.5	28.0	16.33	72.9	75.1	81	71
18	88	68	77.6	66.5	0	13	99	44	72	0.01	28.29	30.17	S	9.2	28.7	25.13	75.0	77.2	82	72
19	93	68	81.5	64.0	0	16	92	32	59	0.00	28.16	30.02	SW	8.6	25.2	26.00	76.1	80.1	88	73
20	96	70	82.7	63.4	0	18	91	28	57	0.00	28.07	29.93	SW	8.6	25.4	27.10	77.6	83.0	91	76
21	98	72	85.9	61.9	0	20	83	25	49	0.00	28.02	29.88	SSW	10.9	24.2	27.95	79.0	85.1	92	79
22	97	73	86.0	65.2	0	20	78	34	52	0.00	28.04	29.90	SSW	10.7	28.7	28.09	80.0	86.1	93	79
23	99	75	87.9	66.9	0	22	81	32	52	0.00	28.03	29.89	SSW	10.7	29.0	28.11	81.3	87.7	94	81
24	95	72	83.6	66.4	0	19	87	32	59	0.00	28.11	29.98	E	10.6	42.1	27.30	81.8	88.1	95	82
25	77	69	73.0	68.3	0	8	94	68	85	0.34	28.20	30.07	ESE	8.3	27.3	4.27	79.0	80.9	88	77
26	87	69	76.9	68.1	0	13	98	46	77	0.12	28.16	30.03	NNE	11.8	31.8	19.24	76.8	78.2	82	76
27	91	65	77.9	62.7	0	13	94	32	64	0.00	28.17	30.04	SSE	8.9	32.6	27.92	77.4	81.1	90	73
28	90	65	78.4	60.7	0	13	95	26	60	0.00	28.09	29.96	S	12.4	32.4	27.29	77.6	82.4	90	75
29	96	71	84.1	67.7	0	19	86	39	60	0.00	28.05	29.91	S	16.7	36.7	21.45	78.1	83.7	90	78
30	91	73	81.4	67.4	0	17	90	49	63	0.00	28.17	30.04	NNE	9.3	39.2	21.42	79.4	85.3	91	80
31	94	71	81.5	68.1	0	18	96	33	68	0.00	28.23	30.10	NNE	9.5	19.4	26.77	80.4	86.2	94	80

93 69 80.9 60.3* <- Monthly Averages -> 28.15* 30.01* SSE* 10.6* 59.0* 23.32* 79.1* 83.3* 90* 78*

Temperature - Highest: 103 Lowest: 57	Degree Days - Total HDD: 0 Total CDD: 492	Number of Days With: Tmax ≥ 90: 22 Tmax ≤ 32: 0 Tmin ≤ 32: 0 Tmin ≤ 0: 0	Rainfall ≥ 0.01 inch: 9* Rainfall ≥ 0.10 inch: 6* Avg Wind Speed ≥ 10 mph: 17* Max Wind Speed ≥ 30 mph: 10*
Rainfall: Monthly Total: 4.13* in. Greatest 24 Hr: 2.12* in.	Humidity - Highest: 99* Lowest: 14*		

MESONET CLIMATOLOGICAL DATA SUMMARY August 2013 Time Zone: Midnight-Midnight CST
 (RETR) Retrop Nearest City: 10.0 ENE Willow County: Washita
 Latitude: 35-07-21 Longitude: 99-21-36 Elevation: 1765 feet

DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	96	70	82.6	66.1	0	18	94	31	62	0.00	28.19	30.06	SE	7.8	23.6	26.96	81.3	87.6	95	81
2	105	76	90.5	62.1	0	25	83	19	45	0.00	28.02	29.88	S	14.1	30.4	25.62	82.0	88.4	94	83
3	103	77	90.4	58.6	0	25	58	21	37	0.00	28.08	29.94	S	13.8	28.2	25.95	82.3	89.1	96	83
4	101	77	88.8	59.3	0	24	62	20	40	0.00	28.13	30.00	S	11.6	24.6	26.96	82.7	89.3	96	83
5	103	76	90.6	59.3	0	25	67	19	38	0.00	28.06	29.92	S	12.4	36.2	27.61	83.1	89.6	96	84
6	105	75	91.9	56.6	0	25	60	19	33	0.00	27.97	29.83	S	13.0	30.4	27.70	83.3	89.9	97	84
7	98	71	84.2	64.0	0	19	97	29	53	0.81	28.01	29.87	E	11.3	40.9	16.90	82.6	88.1	93	84
8	91	67	76.5	68.0	0	14	95	40	77	0.31	28.05	29.91	ESE	10.2	35.2	20.74	80.3	83.1	90	78
9	85	67	75.1	67.2	0	11	99	51	78	0.63	28.16	30.02	NNE	8.5	27.3	20.34	78.5	79.3	83	75
10	83	65	74.3	65.0	0	9	94	49	74	0.00	28.28	30.15	NNE	8.4	19.0	19.95	78.1	78.4	83	74
11	93	66	77.9	66.6	0	14	98	40	72	1.17	28.23	30.10	ENE	6.7	45.8	24.32	77.8	80.9	90	74
12	93	69	78.4	68.4	0	16	97	42	74	0.01	28.16	30.03	WSW	9.7	32.2	20.26	76.7	80.1	85	76
13	86	68	74.8	67.7	0	12	97	53	80	0.22	28.19	30.06	NE	7.3	26.0	17.56	77.1	78.6	84	75
14	84	67	74.2	65.8	0	10	97	50	77	0.00	28.23	30.10	ENE	8.2	19.4	22.44	77.5	79.7	86	75
15	87	66	74.9	66.2	0	12	95	44	76	0.00	28.18	30.05	SE	6.6	21.0	17.64	77.3	80.0	87	75
16	87	66	74.7	63.7	0	11	94	43	71	0.00	28.20	30.07	ESE	7.8	33.5	25.73	77.6	81.6	90	75
17	85	64	73.7	63.1	0	10	95	46	72	0.00	28.23	30.10	ESE	8.6	19.7	21.99	77.3	81.5	89	76
18	88	64	75.5	61.1	0	11	93	37	65	0.00	28.21	30.08	SE	10.6	25.9	24.42	77.3	81.5	88	76
19	91	65	77.6	59.9	0	13	86	33	58	0.00	28.17	30.04	SE	11.9	29.8	24.40	77.3	81.4	88	76
20	94	67	80.2	59.7	0	15	79	30	53	0.00	28.15	30.01	SE	10.9	26.9	25.35	77.9	82.2	89	77
21	93	68	80.0	56.4	0	15	73	26	48	0.00	28.19	30.06	S	8.7	24.4	25.57	78.1	82.4	89	77
22	94	67	81.3	58.5	0	16	79	25	49	0.00	28.18	30.04	SSE	6.3	22.5	24.77	78.3	NA	NA	NA
23	97	70	83.6	61.5	0	18	82	25	52	0.00	28.15	30.02	SSE	8.2	25.2	25.77	79.2	NA	NA	NA
24	96	71	83.2	63.6	0	18	83	28	55	0.00	28.20	30.07	SE	9.1	27.0	23.38	79.9	NA	NA	NA
25	95	70	82.7	63.0	0	18	81	30	54	0.00	28.27	30.14	SE	9.2	25.7	23.46	80.1	NA	NA	NA
26	93	70	81.2	61.6	0	17	77	30	54	0.00	28.28	30.15	SE	9.4	24.1	24.25	80.0	NA	NA	NA
27	91	68	78.3	62.8	0	15	76	31	60	0.00	28.22	30.09	SE	9.0	26.5	19.78	79.3	NA	NA	NA
28	95	70	82.3	63.3	0	18	90	30	56	0.00	28.18	30.05	S	9.7	24.9	21.51	79.4	NA	NA	NA
29	95	71	84.3	56.8	0	18	67	25	42	0.00	28.18	30.05	SSW	8.3	24.2	20.20	79.1	NA	NA	NA
30	101	74	87.6	57.0	0	22	61	21	38	0.00	28.10	29.97	S	8.7	29.6	24.53	79.3	NA	NA	NA
31	103	75	88.7	53.8	0	24	50	18	33	0.00	28.02	29.88	SSW	7.2	22.2	24.77	80.0	NA	NA	NA
	94	70	81.3	62.1	<- Monthly Averages ->						28.16	30.02	SE	9.5	45.8	23.25	79.4	83.5*	90*	78*

Temperature - Highest: 105 Lowest: 64	Degree Days - Total HDD: 0 Total CDD: 520	Number of Days With: Tmax ≥ 90: 23 Tmax ≤ 32: 0 Tmin ≤ 32: 0 Tmin ≤ 0: 0	Rainfall ≥ 0.01 inch: 6 Rainfall ≥ 0.10 inch: 5 Avg Wind Speed ≥ 10 mph: 10 Max Wind Speed ≥ 30 mph: 8
Rainfall: Monthly Total: 3.15 in. Greatest 24 Hr: 1.17 in.	Humidity - Highest: 99 Lowest: 18		

MESONET CLIMATOLOGICAL DATA SUMMARY September 2013 Time Zone: Midnight-Midnight CST
 (RETR) Retrop Nearest City: 10.0 ENE Willow County: Washita
 Latitude: 35-07-21 Longitude: 99-21-36 Elevation: 1765 feet

DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	94	71	82.7	59.1	0	18	75	32	46	0.00	28.05	29.92	NE	9.2	24.1	12.70	79.3	NA	NA	NA
2	92	69	78.9	58.7	0	16	92	23	55	0.00	28.16	30.03	ENE	9.2	20.1	23.80	78.8	NA	NA	NA
3	94	61	77.5	53.1	0	12	81	20	47	0.00	28.19	30.06	E	6.7	14.7	24.82	78.4	NA	NA	NA
4	95	61	78.8	54.6	0	13	82	17	48	0.00	28.23	30.10	E	7.0	21.1	24.40	78.3	NA	NA	NA
5	97*	68*	82.2*	58.4*	0*	17*	79*	22*	49*	0.00*	28.24*	30.11*	ESE*	7.3*	19.5*	NA	79.2*	NA	NA	NA
6	99	71	83.8	57.5	0	20	66	23	44	0.00	28.19	30.06	SE	6.7	18.3	22.68	79.8	84.8	92	78
7	100	72	85.3	57.8	0	21	67	21	43	0.00	28.13	30.00	S	6.3	26.6	23.23	80.5	86.5	94	80
8	97	71	83.7	57.3	0	19	71	21	44	0.00	28.10	29.96	S	8.8	24.6	23.33	80.6	86.7	93	81
9	94	69	81.8	58.1	0	16	74	28	47	0.00	28.09	29.96	S	11.6	33.4	22.70	79.9	85.8	92	80
10	92	71	81.5	61.4	0	17	75	33	52	0.00	28.18	30.05	S	12.7	28.5	22.95	79.9	85.9	92	81
11	92	69	80.5	59.8	0	16	81	31	52	0.00	28.24	30.11	SSE	9.5	25.7	20.58	79.7	85.5	91	81
12	94	66	80.7	58.5	0	15	80	25	50	0.00	28.21	30.08	SE	6.1	26.9	18.50	79.2	84.9	91	79
13	88	68	74.4	66.3	0	13	93	47	77	0.07	28.17	30.04	NE	9.9	41.4	12.89	78.8	82.9	87	80
14	83	63	72.5	63.0	0	8	91	55	73	0.01	28.12	29.99	SE	8.0	19.2	12.30	76.5	79.1	84	76
15	93	69	79.6	60.7	0	16	77	31	56	0.02	28.14	30.01	SSE	9.9	25.7	15.94	76.3	80.7	86	76
16	86	67	72.5	66.0	0	11	94	47	81	0.25	28.25	30.12	N	8.4	39.7	11.43	76.2	79.3	83	77
17	88	66	73.3	67.3	0	12	96	48	83	0.23	28.19	30.06	SSW	6.9	31.1	16.16	75.6	77.8	85	73
18	91	68	79.1	63.6	0	15	93	32	62	0.00	28.08	29.94	SSW	12.1	30.9	21.21	75.7	78.7	86	73
19	85	67	74.9	63.4	0	11	89	51	68	0.05	28.09	29.95	SSW	11.5	31.3	11.32	74.3	76.7	80	74
20	71	54	64.7	56.2	3	0	94	52	75	0.00	28.16	30.03	NNE	12.8	27.0	10.32	71.7	72.3	75	69
21	81	51	66.2	46.1	0	1	89	24	54	0.00	28.15	30.02	NW	6.2	15.6	23.08	69.9	72.3	82	63
22	84	55	68.3	46.9	0	4	77	24	50	0.00	28.03	29.89	SSE	9.4	25.2	22.87	69.9	73.8	82	66
23	86	56	70.7	48.8	0	6	78	26	49	0.00	27.95	29.80	S	12.5	33.7	22.00	69.8	74.1	81	67
24	88	56	72.8	43.8	0	7	70	16	39	0.00	28.11	29.98	NNW	10.1	27.3	22.45	70.2	74.8	81	69
25	92	54	74.3	47.8	0	8	76	19	42	0.00	27.99	29.85	S	9.7	27.7	21.98	70.5	75.4	83	68
26	95	67	80.2	55.4	0	16	73	24	45	0.00	27.94	29.79	S	16.3	35.3	21.13	72.2	78.0	84	72
27	89	67	78.4	62.1	0	13	77	38	58	0.00	27.98	29.83	SSE	18.1	35.8	16.92	72.9	78.3	83	73
28	78	52	65.7	51.6	0	0	97	31	64	1.10	28.16	30.02	N	15.0	39.4	19.24	71.4	72.1	79	66
29	77	50	62.6	45.2	2	0	88	24	58	0.00	28.18	30.05	NW	6.3	12.6	22.22	68.2	67.4	75	60
30	86*	53*	67.1*	50.7*	0*	4*	83*	30*	59*	0.00*	27.99*	29.85*	SSE*	10.6*	25.4*	NA	67.7*	69.3*	78*	62*
	89*	63*	75.8*	56.6*	<- Monthly Averages ->						28.12*	29.99*	S	9.8*	41.4*	19.40*	75.4*	78.5*	85*	73*

Temperature - Highest: 100*	Degree Days - Total HDD: 4*	Number of Days With: Tmax ≥ 90: 16* Rainfall ≥ 0.01 inch: 7* Tmax ≤ 32: 0* Rainfall ≥ 0.10 inch: 3* Tmin ≤ 32: 0* Avg Wind Speed ≥ 10 mph: 11* Tmin ≤ 0: 0* Max Wind Speed ≥ 30 mph: 10*
Lowest: 50*	Total CDD: 344*	
Rainfall: Monthly Total: 1.73* in.	Humidity - Highest: 97*	
Greatest 24 Hr: 1.10* in.	Lowest: 16*	

MESONET CLIMATOLOGICAL DATA SUMMARY October 2013 Time Zone: Midnight-Midnight CST
 (RETR) Retrop Nearest City: 10.0 ENE Willow County: Washita
 Latitude: 35-07-21 Longitude: 99-21-36 Elevation: 1765 feet

DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	89	58	72.2	56.6	0	9	84	32	60	0.00	28.00	29.86	SSE	12.6	28.7	20.55	68.5	72.5	81	65
2	87	64	74.8	63.7	0	10	92	44	70	0.00	28.02	29.88	SSE	14.1	31.7	16.90	70.0	74.7	81	69
3	90	68	79.0	64.8	0	14	94	38	65	0.00	27.93	29.78	S	19.4	36.3	19.76	71.6	77.2	84	72
4	90	57	76.7	61.8	0	8	96	41	62	1.77	27.95	29.80	S	20.2	46.2	18.71	71.7	78.2	85	72
5	69	49	57.3	32.6	6	0	58	22	41	0.00	28.23	30.11	N	15.3	38.4	18.90	64.8	65.0	71	61
6	77	44	60.5	32.4	4	0	71	19	37	0.00	28.25	30.13	NNW	13.2	35.4	20.68	62.2	61.9	69	55
7	77	49	61.9	41.7	2	0	77	24	51	0.00	28.27	30.14	NNW	7.0	12.7	19.82	63.1	65.6	75	58
8	82	50	64.9	41.5	0	1	68	22	46	0.00	28.15	30.01	SSE	11.6	27.7	19.96	63.6	66.7	75	60
9	82	51	66.2	46.4	0	1	82	27	52	0.00	28.10	29.97	SSE	13.9	31.6	19.11	64.0	67.8	75	62
10	82	56	70.1	55.8	0	4	88	41	62	0.00	28.03	29.89	SSE	16.6	37.8	18.94	65.0	69.7	77	64
11	85	56	71.6	41.4	0	6	90	12	43	0.00	27.96	29.82	SW	11.5	34.3	19.58	66.3	71.1	77	67
12	74	52	61.8	42.9	2	0	79	33	52	0.00	28.20	30.07	NE	13.8	28.6	19.07	64.7	68.1	74	63
13	70	51	61.8	56.4	4	0	95	71	83	0.19	28.32	30.19	SE	8.9	22.5	4.23	63.7	65.5	68	64
14	73	65	68.1	66.3	0	4	99	82	94	0.07	28.10	29.97	SSE	11.3	21.9	5.53	65.5	68.1	71	66
15	67	48	54.3	41.3	7	0	98	41	63	0.00	28.21	30.08	N	16.1	34.8	10.08	63.2	62.1	68	59
16	52	40	46.8	37.5	19	0	95	53	71	0.00	28.27	30.15	N	8.2	19.4	5.89	59.1	56.9	59	54
17	69	36	53.3	39.3	13	0	96	27	64	0.00	28.17	30.03	SW	5.9	13.5	18.33	57.8	58.1	67	50
18	57	33	45.5	42.0	20	0	98	65	88	0.24	28.20	30.07	N	13.7	37.1	2.68	57.8	56.8	62	50
19	67	33	48.9	34.1	15	0	98	22	62	0.00	28.25	30.12	WNW	9.7	24.3	18.46	54.7	52.5	60	46
20	73	40	55.9	42.4	8	0	87	32	63	0.00	28.03	29.89	S	10.5	24.3	17.91	55.7	56.7	65	49
21	64	47	54.2	38.5	9	0	87	32	58	0.00	28.21	30.08	NNE	13.0	34.1	17.18	56.9	59.0	65	55
22	78	41	59.1	36.7	5	0	79	19	48	0.00	28.23	30.10	W	8.9	27.5	17.46	56.4	59.0	67	52
23	83	44	61.9	39.2	2	0	80	15	50	0.00	28.20	30.07	SW	9.1	30.1	17.34	57.6	61.4	69	55
24	61	43	51.4	38.7	13	0	89	40	64	0.00	28.39	30.26	NE	13.4	29.6	16.51	57.7	60.3	65	56
25	64	39	51.8	40.0	14	0	82	48	65	0.00	28.43	30.31	SSE	10.5	18.8	14.36	56.5	58.7	65	53
26	72	45	57.9	50.2	7	0	96	52	77	0.02	28.26	30.14	S	10.2	28.1	11.59	58.3	61.7	67	57
27	69	36	52.9	34.1	12	0	91	16	56	0.00	28.20	30.07	NNW	8.2	17.7	17.29	57.7	59.9	67	54
28	66	50	59.1	58.3	7	0	100	89	97	0.02	28.11	29.98	SSE	12.0	28.7	2.42	57.5	59.4	62	57
29	78	66	70.0	64.4	0	7	97	61	83	0.00	28.08	29.94	S	12.8	31.6	4.59	60.6	64.1	67	62
30	77	62	70.4	63.4	0	5	97	46	80	0.27	27.96	29.82	S	14.9	39.9	5.23	62.5	66.3	69	64
31	68	51	59.2	41.3	5	0	92	29	54	0.00	27.91	29.77	NW	12.4	44.2	15.95	60.9	61.2	66	57
	74	49	61.3	46.6	<- Monthly Averages ->						28.15	30.02	SSE	12.2	46.2	14.68	61.8	64.1	70	59

Temperature - Highest: 90 Lowest: 33	Degree Days - Total HDD: 175 Total CDD: 70	Number of Days With: Tmax ≥ 90: 2 Tmax ≤ 32: 0 Tmin ≤ 32: 0 Tmin ≤ 0: 0	Rainfall ≥ 0.01 inch: 7 Rainfall ≥ 0.10 inch: 4 Avg Wind Speed ≥ 10 mph: 23 Max Wind Speed ≥ 30 mph: 15
Rainfall: Monthly Total: 2.58 in. Greatest 24 Hr: 1.77 in.	Humidity - Highest: 100 Lowest: 12		