

USDA-ARS-Knipling-Bushland US Livestock Insects Laboratory, Kerrville, TX

DATE	B. P.	--TEMPERATURES--				RAIN	LOW		
2004	8 AM	HI	LO	8AM	ONL	FALL	RH	COMMENTS	
01-Jan	30.20	64	48	63	59	0.01	60	cldy;drizzle 2:00-7:00 AM	
02-Jan	30.05	69	62	62	---	0.00	68	cldy;lt. fog	
03-Jan	29.94	76	62	63	---	0.00	54	cldy;lt.fog	
04-Jan	29.82	74	63	64	---	0.00	57	cldy;lt.fog;42 degrees by midnight	
05-Jan	30.15	74	34	34	---	0.00	41	cldy	
06-Jan	30.48	45	25	28	---	0.00	37	MC	
07-Jan	30.41	34	28	34	32	0.00	36	cldy	
08-Jan	30.10	43	34	43	38	T	48	cldy;fog;occas. lt. drizzle 2:00-8:00 AM	
09-Jan	30.29	76	37	39	---	0.00	30	PC	
10-Jan	30.37	66	27	29	---	0.00	21	PC	
11-Jan	30.30	66	27	33	---	0.00	20	clear	
12-Jan	30.22	63	33	47	44	0.00	30	cldy;lt. haze	
13-Jan	30.22	58	45	53	---	0.00	64	cldy;dense fog	
14-Jan	30.15	72	52	58	---	T	37	cldy;dense fog;drizzle/lt. RF 6:00 AM-midnight	
15-Jan	30.00	60	56	56	---	0.76	94	cldy;lt. fog;drizzle/lt. RF midnight-midnight	
16-Jan	29.80	60	56	60	60	0.20	96	lt. fog;drizzle/lt. RF/T-Showers midnight-midnight	
17-Jan	29.69	64	48	51	---	1.44	96	MC;occas. lt. RF midnight-6:00 AM	
18-Jan	29.90	69	42	43	---	0.00	40	cldy	
19-Jan	30.12	46	29	32	---	0.00	63	PC	
20-Jan	30.03	59	28	33	---	0.00	22	PC	
21-Jan	30.18	55	33	45	38	0.00	32	MC;lt. fog	
22-Jan	30.20	53	45	47	---	0.00	75	cldy;lt. fog/haze	
23-Jan	30.21	59	47	49	---	0.05	58	cldy;lt. fog;drizzle midnight-10 AM;3 PM-10 PM	
24-Jan	29.85	54	49	53	51	0.09	76	drizzle 7-9 A;occas RF 2-5 P;T-Showers 7-8 P	
25-Jan	29.71	61	43	46	---	0.40	78	PC;windy	
26-Jan	29.78	70	33	41	---	0.00	16	PC;28 degrees by midnight	
27-Jan	30.22	61	20	23	---	0.00	17	clear	
28-Jan	30.23	58	23	27	25	0.00	18	clear	
29-Jan	29.94	58	27	46	44	0.03	25	dense fog;drizzle 2 AM-2PM then occas. lt. drizzle	
30-Jan	29.98	59	38	43	---	0.02	82	dense fog;mist/lt. drizzle midnight-11A;9P-midnight	
31-Jan	29.80	51	30	34	---	0.04	67	fog/haze;lt. drizzle-midnight-1:00 PM	

January Totals and Averages

Max. Temp.	76 °
Min. Temp.	20 °
Avg. High	60.5 °
Avg. Low	39.5 °
Avg. Temp	50.0 °
Total RF	3.04 "
Avg. RF (30 YR)	1.34 "
Low RH	16 %
Avg. Low RH	50.3 %
Avg. Soil Temp	53.1 °
Year To Date RF	3.04 "
Avg. RF (30 YR)	1.34 "

NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.

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DATE	B. P.	--TEMPERATURES--				RAIN	LOW		
2004	8 AM	HI	LO	8AM	ONL	FALL	RH	COMMENTS	
01-Feb	29.98	57	34	50	47	0.02	70	fog;lt. drizzle 2:00 AM-11:00 AM	
02-Feb	30.15	68	33	35	---	T	40	PC	
03-Feb	30.15	60	27	33	---	0.00	20	PC	
04-Feb	29.83	54	33	45	42	0.08	22	dense fog;drizzle/RF 2AM-7PM;T-Shower 8-10PM	
05-Feb	29.84	53	37	38	---	0.10	97	dense fog	
06-Feb	30.18	63	36	36	---	0.00	24	PC	
07-Feb	30.34	54	22	27	---	0.00	26	PC	
08-Feb	30.22	64	27	45	36	0.00	19	MC AM;cldy/lt. fog PM;lt. drizzle 7:00-9:00 PM	
09-Feb	30.06	55	45	55	50	0.02	96	cldy;lt. fog;lt. drizzle 3:00 AM-2:00 PM	
10-Feb	30.10	63	44	45	---	0.02	78	occas. drizzle/lt. RF 5 A-midnight;T-shower Noon	
11-Feb	29.93	45	42	42	---	0.41	97	cldy;drizzle/lt. RF midnight-2:00 PM	
12-Feb	30.19	46	38	38	---	0.02	92	lt. fog;occas mist/lt. drizzle 7-9A;32 deg. by MN	
13-Feb	30.22	39	28	28	---	T	67	lt. snow 6-7AM;sleet/freezing drizzle 7-10 AM *	
14-Feb	30.06	33	26	29	---	0.08	84	PC;lt. freezing drizzle/sleet/snow midnight-5 AM **	
15-Feb	30.14	53	24	29	---	0.00	32	clear	
16-Feb	30.23	61	29	35	---	0.00	27	PC	
17-Feb	30.35	67	29	35	---	0.00	29	clear	
18-Feb	30.39	74	32	36	---	0.00	10	clear	
19-Feb	29.94	71	36	52	47	0.00	32	cldy	
20-Feb	29.80	74	43	44	---	0.00	38	MC;patchy lt. fog	
21-Feb	30.11	73	40	46	---	0.00	25	PC	
22-Feb	30.01	69	45	52	---	T	27	cldy;lt. fog;occas. drizzle 7 AM-midnight	
23-Feb	29.80	57	52	57	56	0.06	98	dense fog;occas. drizzle/lt. RF midnight-10 AM	
24-Feb	29.73	77	53	54	---	0.21	25	cldy;T-Storms 1-2 AM;occas. lt. RF thru 5 AM ***	
25-Feb	29.85	59	36	37	---	0.67	62	cldy	
26-Feb	30.12	44	27	32	---	0.00	60	lt. fog/haze	
27-Feb	30.10	63	27	36	---	0.00	18	lt. fog/haze	
28-Feb	30.02	65	36	50	48	0.00	30	cldy;lt. fog;lt. drizzle 4 PM-midnight	
29-Feb	29.92	59	46	47	---	0.31	76	occas. drizzle/lt. RF thru 8 AM;T-Storms 6-7 AM	

February Totals and Averages

Max. Temp.	77 °	NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded. * 2-13-04; occas. freezing drizzle 6PM-midnight ** 2-14-04; 0.5 inches sleet/snow;0.3 inches on ground *** 2-24-04;T-Storms 9 AM-1 PM;6-8 PM
Min. Temp.	22 °	
Avg. High	59.3 °	
Avg. Low	35.4 °	
Avg. Temp	47.4 °	
Total RF	2.00 "	
Avg. RF (30 YR)	1.86 "	
Low RH	10 %	
Avg. Low RH	49.0 %	
Avg. Soil Temp	50.0 °	
Year To Date RF	5.04 "	
Avg. RF (30 YR)	3.20 "	

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DATE	B. P.	--TEMPERATURES--				RAIN	LOW		
2004	8 AM	HI	LO	8AM	ONL	FALL	RH	COMMENTS	
01-Mar	29.92	72	46	54	---	0.00	16	PC	
02-Mar	29.99	76	43	55	---	0.00	16	dense fog;drizzle/lt.RF 9AM-9PM	
03-Mar	29.88	64	55	64	62	0.03	95	lt. fog;lt. drizzle 5A-3P then occas thru midnight	
04-Mar	29.70	68	64	66	66	0.04	83	occas. drizzle/lt. RF midnight-1P T-Storms 1-2P *	
05-Mar	29.85	69	40	45	---	0.59	28	PC	
06-Mar	30.19	74	42	50	---	0.00	18	PC	
07-Mar	30.23	78	40	48	---	0.00	17	PC	
08-Mar	30.37	77	39	48	---	0.00	25	PC	
09-Mar	30.23	75	39	48	---	0.00	22	clear	
10-Mar	30.13	77	38	49	---	0.00	22	clear	
11-Mar	30.14	74	49	57	54	0.00	24	MC;lt. fog	
12-Mar	30.16	74	50	51	---	0.53	43	lt. RF 1 AM-midnight	
13-Mar	30.05	53	51	53	---	0.75	87	drizzle/lt. RF midnight-midnight	
14-Mar	30.12	60	59	60	---	0.25	98	fog;drizzle to 9 A;T-Storms 7-9P;lt. RF to midnight	
15-Mar	30.02	75	53	56	---	0.47	50	PC;occas. lt. RF midnight-2 AM	
16-Mar	30.00	76	56	61	---	0.00	40	cldy	
17-Mar	29.95	74	48	57	---	0.00	49	dense fog	
18-Mar	29.89	82	57	64	61	0.00	30	cldy	
19-Mar	30.06	77	64	64	---	T	62	fog;lt. drizzle 4 AM-midnight	
20-Mar	30.19	73	64	65	---	0.03	80	fog;lt. drizzle midnight-11 AM	
21-Mar	30.30	80	57	60	---	0.05	55	lt. fog;lt. drizzle 4 AM-8 AM	
22-Mar	30.20	68	55	57	---	0.00	36	cldy	
23-Mar	30.15	71	47	53	---	T	38	lt. fog;lt. drizzle 6-9A;drizzle/lt. RF 4P-midnight	
24-Mar	30.02	69	53	61	59	0.23	52	cldy;occas. lt. drizzle midnight-5 PM	
25-Mar	30.05	65	61	64	---	0.01	87	cldy;lt. fog;occas. drizzle 3 AM-11 AM	
26-Mar	30.06	75	64	65	---	T	63	cldy;lt. fog;occas. drizzle 7 AM-Noon	
27-Mar	29.98	76	64	65	---	0.01	56	cldy	
28-Mar	29.96	75	62	63	---	0.00	58	cldy;lt. fog;occas. lt. drizzle 8 AM-4 PM	
29-Mar	30.16	71	55	57	---	T	78	PC	
30-Mar	30.20	74	38	49	---	0.00	22	PC	
31-Mar	30.10	82	39	54	---	0.00	12	clear	

March Totals and Averages

Max. Temp.	82 °
Min. Temp.	38 °
Avg. High	72.7 °
Avg. Low	51.4 °
Avg. Temp	62.1 °
Total RF	2.99 "
Avg. RF (30 YR)	2.16 "
Low RH	12 %
Avg. Low RH	47.2 %
Avg. Soil Temp	61.3 °
Year To Date RF	8.03 "
Avg. RF (30 YR)	5.36 "

NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.

* 3-4-2004; Small hail; temp. dropped to 51 deg. during storms; 42 deg. by midnight

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DATE 2004	B. P. 8 AM	--TEMPERATURES--			RAIN FALL	LOW RH	COMMENTS	
		HI	LO	8AM ONL				
01-Apr	29.95	84	42	60	---	0.00	10	clear
02-Apr	29.90	80	60	64	62	0.00	40	cldy;lt. fog;RF 10AM-1PM;T-Storms 6:30-10PM
03-Apr	30.01	75	53	59	---	1.59	52	cldy;lt. fog/mist
04-Apr	29.99	75	57	59	---	T	50	cldy;lt. fog;RF Noon-1PM;T-Storms 3:30-6PM
05-Apr	29.90	62	51	54	---	0.49	70	cldy;dense fog
06-Apr	29.85	71	54	56	---	3.64	56	cldy;T-Storms 1AM-9 AM
07-Apr	29.82	74	56	58	---	0.05	56	PC;lt. patchy fog
08-Apr	29.87	83	52	56	---	0.00	21	PC
09-Apr	29.86	77	51	56	---	0.00	37	lt. fog
10-Apr	29.82	81	56	65	---	0.00	40	T-Storms 3-6PM;small hail;rapid temp. drop 2PM
11-Apr	29.86	79	44	45	---	0.86	50	cldy;T-Storm 2-11 AM
12-Apr	29.90	48	43	44	---	0.04	76	PC
13-Apr	30.18	64	35	39	---	0.00	26	clear
14-Apr	30.20	65	32	39	---	0.00	21	clear
15-Apr	30.06	73	39	57	52	0.00	30	cldy
16-Apr	30.03	78	57	60	59	0.00	47	cldy
17-Apr	30.13	70	60	62	---	0.00	68	cldy
18-Apr	30.12	77	62	63	---	T	49	cldy;lt. fog;lt. drizzle 6-8 AM
19-Apr	30.09	73	63	64	---	0.00	57	cldy;lt. fog;occas. drizzle 9 AM-Noon
20-Apr	29.90	75	62	63	---	T	54	cldy;lt. haze
21-Apr	29.72	75	63	64	---	0.00	59	cldy;lt. fog;occas. mist 8 AM-11:00 AM
22-Apr	29.70	77	64	66	---	T	64	cldy;fog;occas. mist 3 AM-1 PM
23-Apr	29.75	77	66	68	---	T	62	lt. fog;occas. drizzle 2-10 AM;lt. RF 4-10 PM *
24-Apr	29.90	73	60	60	---	0.79	68	T-Storms/RF midnight-3 AM;lt. RF 2-3 PM
25-Apr	29.99	62	57	60	---	0.04	94	lt. fog;occas. drizzle/lt. RF 3-10 AM;lt. RF 9-10 PM
26-Apr	30.09	72	59	60	---	0.06	74	PC
27-Apr	30.21	75	47	54	---	0.00	40	PC
28-Apr	30.00	80	54	58	---	0.00	24	drizzle/ lt. RF 8AM-1PM;T-storms 11PM-midnight
29-Apr	29.89	68	56	61	---	0.51	50	fog;drizzle/lt. RF 6 AM-11 AM
30-Apr	29.85	78	61	67	66	0.01	59	cldy;occas. drizzle 3 AM-8 AM

April Totals and Averages

Max. Temp.	84 °
Min. Temp.	32 °
Avg. High	73.4 °
Avg. Low	53.9 °
Avg. Temp	63.7 °
Total RF	8.08 "
Avg. RF (30 YR)	2.16 "
Low RH	10 %
Avg. Low RH	50.1 %
Avg. Soil Temp	65.0 °
Year To Date RF	16.11 "
Avg. RF (30 YR)	7.52 "

NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.

* 4-23-04; T-Storms 10 PM-midnight

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DATE 2004	B. P. 8 AM	--TEMPERATURES--				RAIN FALL	LOW RH	COMMENTS
		HI	LO	8AM	ONL			
01-May	29.96	81	50	51	---	0.21	53	cldy;T-Storms 4:00-8:30 AM
02-May	30.20	62	42	51	---	T	52	PC
03-May	30.15	73	41	49	---	0.00	27	patchy lt. fog
04-May	30.10	79	46	56	---	0.00	24	clear
05-May	30.00	79	56	62	58	0.00	28	cldy
06-May	30.01	79	62	63	---	T	48	cldy;lt. fog;lt. mist/drizzle 6AM-10AM
07-May	30.05	72	63	64	---	0.01	71	cldy;lt. fog;lt. mist/drizzle 5-10AM;lt. RF 4-6PM
08-May	30.06	73	61	65	---	0.05	69	MC;lt. RF 3-4 PM
09-May	29.99	81	64	66	---	0.01	47	cldy
10-May	29.95	82	66	67	---	T	43	cldy;lt. fog;drizzle 5-8 AM
11-May	29.88	83	66	66	---	0.04	48	cldy;lt. fog;lt. RF 6-8 AM
12-May	29.80	79	66	70	69	0.01	55	cldy;fog;drizzle 2 AM-noon
13-May	29.76	80	70	73	71	0.03	69	lt. fog;drizzle 2-7A;RF 11 AM-noon;T-Storms 11P
14-May	30.03	85	58	58	---	0.65	49	lt.fog;T-Storms midnight-1 AM;drizzle thru 9 AM
15-May	30.11	74	56	61	---	T	52	MC
16-May	30.07	76	61	65	---	0.00	54	cldy;lt. fog
17-May	29.99	82	64	66	---	0.00	40	MC
18-May	30.00	83	66	68	68	0.01	50	cldy;occas. drizzle 3 AM-8:30 AM
19-May	30.00	83	68	69	---	T	54	MC
20-May	30.08	85	67	69	---	0.00	47	PC
21-May	30.03	85	68	70	---	0.00	42	MC
22-May	29.92	85	68	69	---	0.00	49	cldy
23-May	29.86	83	67	69	---	0.00	54	cldy
24-May	29.82	81	69	69	---	0.00	61	cldy;hazy
25-May	29.86	85	69	70	---	0.00	52	cldy;hazy
26-May	29.88	86	69	70	---	0.00	49	cldy
27-May	29.80	86	70	71	---	0.00	49	cldy;lt. RF 9-11 PM;Thunder
28-May	29.81	87	61	66	---	0.12	49	MC;lt. haze
29-May	29.76	91	66	74	72	0.00	28	cldy;lt. haze
30-May	29.70	88	74	74	---	0.02	50	cldy;lt. RF/drizzle 3-9 AM
31-May	29.73	100	69	75	---	0.00	10	lt. haze

May Totals and Averages

Max. Temp.	100 °	NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.
Min. Temp.	41 °	
Avg. High	81.5 °	
Avg. Low	62.7 °	
Avg. Temp	72.1 °	
Total RF	1.16 "	
Avg. RF (30 YR)	4.21 "	
Low RH	10 %	
Avg. Low RH	47.5 %	
Avg. Soil Temp	73.8 °	
Year To Date RF	17.27 "	100 degrees recorded on May 30, 2004 is a record high temperature for that day
Avg. RF (30 YR)	11.73 "	102 degrees recorded on June 1, 2004 actually occurred PM May 31, 2004 and is a record high temperature for that day

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DATE 2004	B. P. 8 AM	--TEMPERATURES--				RAIN FALL	LOW RH	COMMENTS
		HI	LO	8AM	ONL			
01-Jun	29.75	102	71	75	---	0.00	10	MC;lt. haze
02-Jun	29.85	97	75	76	---	0.00	30	MC;lt. haze
03-Jun	30.10	93	64	67	---	0.01	43	cldy;lt. RF 4-5 AM
04-Jun	30.05	90	67	74	70	0.00	40	MC;lt. haze
05-Jun	30.00	90	69	73	---	0.00	41	MC
06-Jun	29.89	89	67	71	---	0.00	38	MC
07-Jun	29.81	89	71	73	---	0.00	41	cldy;lt. RF 11 AM-noon;7-9 PM
08-Jun	29.86	89	68	70	---	0.43	42	occas. lt. RF/drizzle 5 AM-midnight
09-Jun	29.80	74	70	71	---	1.71	92	occas. RF/drizzle midnight-5 PM
10-Jun	29.85	74	70	72	---	2.44	98	cldy
11-Jun	29.86	86	72	73	---	0.00	52	cldy
12-Jun	29.92	88	71	73	---	0.00	54	cldy
13-Jun	29.96	87	61	67	---	0.45	53	PC;T-Storms midnight-3:00 AM
14-Jun	29.83	87	67	73	71	0.00	48	cldy
15-Jun	29.81	88	69	73	---	0.00	50	PC
16-Jun	29.92	89	64	70	---	0.00	45	cldy;lt. haze
17-Jun	30.03	90	70	74	72	0.00	44	MC
18-Jun	30.05	88	72	74	---	0.00	52	MC
19-Jun	30.17	90	65	70	---	0.00	42	PC;lt. haze
20-Jun	30.06	91	68	72	---	0.00	25	MC
21-Jun	29.83	90	71	72	---	0.00	42	PC
22-Jun	29.82	90	63	64	---	2.49	42	PC;T-Storms 3-6 AM
23-Jun	29.98	82	64	67	---	0.00	54	cldy;T-Storms 10:30 PM-midnight
24-Jun	29.95	84	65	67	---	2.12	47	cldy;T-Storms/RF midnight-2 AM
25-Jun	29.95	85	66	70	---	0.00	52	cldy;lt. fog/haze;T-storm 4-5 PM
26-Jun	29.99	87	64	67	---	0.95	44	PC
27-Jun	30.05	82	65	69	---	0.00	50	cldy;lt. RF 7-9 PM (PM Thunder)
28-Jun	30.02	87	66	69	---	0.13	50	PC
29-Jun	30.02	82	69	72	70	0.26	60	T-storms/RF 2-6AM;occas RF 11 AM-6 PM
30-Jun	30.00	78	67	69	---	1.17	76	cldy;T-Storms 1-6 AM

June Totals and Averages

Max. Temp.	102 °	NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded. 102 degrees recorded on June 1, 2004 actually occurred PM May 31, 2004 and is a record high temperature for that day
Min. Temp.	61 °	
Avg. High	87.3 °	
Avg. Low	67.7 °	
Avg. Temp	77.5 °	
Total RF	12.16 "	
Avg. RF (30 YR)	3.77 "	
Low RH	10 %	
Avg. Low RH	48.6 %	
Avg. Soil Temp	81.0 °	
Year To Date RF	29.43 "	
Avg. RF (30 YR)	15.50 "	

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DATE	B. P.	--TEMPERATURES--			RAIN	LOW		
2004	8 AM	HI	LO	8AM ONL	FALL	RH	COMMENTS	
01-Jul	29.97	87	69	71	---	0.07	57	PC;drizzle/lt. RF 1-4 AM
02-Jul	29.96	87	71	74	---	0.00	54	PC
03-Jul	29.97	90	73	74	---	0.00	50	MC
04-Jul	29.94	89	70	72	---	0.00	50	MC
05-Jul	29.95	90	69	74	---	0.00	38	PC
06-Jul	29.98	88	71	74	---	0.00	46	PC
07-Jul	-----	89	71	74	---	0.00	42	PC
08-Jul	-----	90	71	74	---	0.00	50	cldy
09-Jul	-----	89	70	74	---	0.00	54	cldy
10-Jul	-----	88	70	73	---	0.00	44	MC;lt. RF 3-4 PM
11-Jul	-----	89	68	70	---	0.01	42	MC;lt. RF 4:30 PM
12-Jul	-----	88	68	71	---	T	48	PC
13-Jul	-----	86	70	70	---	0.00	48	PC
14-Jul	-----	90	65	69	---	0.00	35	clear
15-Jul	-----	94	58	65	---	0.00	22	clear
16-Jul	-----	94	65	69	---	0.00	22	clear
17-Jul	-----	92	66	72	---	0.00	40	clear
18-Jul	-----	95	70	73	---	0.00	33	clear
19-Jul	29.91	90	66	72	---	0.00	34	clear
20-Jul	29.90	96	66	70	---	0.00	30	clear
21-Jul	29.90	93	70	72	---	0.00	30	MC;lt. haze
22-Jul	29.89	91	72	75	---	0.00	31	MC
23-Jul	29.91	92	70	73	---	0.00	34	MC;lt. RF 1 PM;T-Storms 5:30-7 PM
24-Jul	30.04	92	69	73	---	0.05	36	MC
25-Jul	30.06	90	66	73	---	0.00	34	PC;Thunder PM
26-Jul	30.07	92	65	66	---	0.00	39	MC
27-Jul	30.01	81	61	64	---	0.00	54	PC;lt. haze
28-Jul	29.98	90	64	73	70	0.00	40	MC;lt. fog/haze
29-Jul	29.82	90	73	75	---	0.00	42	MC;lt. RF 9 AM;T-Storm 4:30-5 PM
30-Jul	29.80	92	68	73	---	0.33	47	cldy;lt. fog;lt. RF 8:30 AM-1:30 PM
31-Jul	29.95	87	70	71	---	0.33	44	MC

July Totals and Averages

Max. Temp.	96 °
Min. Temp.	58 °
Avg. High	90.0 °
Avg. Low	68.2 °
Avg. Temp	79.1 °
Total RF	0.79 "
Avg. RF (30 YR)	2.63 "
Low RH	22 %
Avg. Low RH	41.0 %
Avg. Soil Temp	83.3 °
Year To Date RF	30.22 "
Avg. RF (30 YR)	18.13 "

NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.

USDA-ARS-Knipling-Bushland US Livestock Insects Laboratory, Kerrville,TX

DATE	B. P.	--TEMPERATURES--			RAIN	LOW		
2004	8 AM	HI	LO	8AM ONL	FALL	RH	COMMENTS	
01-Aug	30.01	93	68	74	---	0.00	39	PC;Thunder late PM
02-Aug	29.93	95	71	73	---	0.00	37	PC;lt. haze;lt. RF 4:30-5 PM
03-Aug	29.98	93	68	72	---	0.01	43	lt. fog
04-Aug	29.93	95	68	73	---	0.00	34	PC
05-Aug	29.98	96	66	73	---	0.00	29	PC;Thunder late PM
06-Aug	29.97	98	69	75	---	0.00	26	clear;T-Storms 6:30-7:30 PM
07-Aug	29.95	95	69	72	---	1.03	36	MC;lt. haze;T-Storms 9:30-11 AM;lt. RF thru 2 PM
08-Aug	29.97	80	72	74	---	0.30	77	MC;lt. fog;T-Storms 10 AM-1 PM
09-Aug	30.04	85	69	71	---	0.53	59	MC;lt. haze
10-Aug	30.07	88	69	71	---	0.00	45	PC;lt. fog
11-Aug	29.97	91	66	69	---	0.00	42	lt. fog;T-Showers 12:15-12:30 PM;3:30-4:00 PM
12-Aug	30.06	91	62	66	---	0.05	42	PC
13-Aug	30.10	85	60	68	---	0.00	28	PC
14-Aug	30.14	85	61	67	---	0.00	37	PC
15-Aug	30.17	88	64	67	---	0.00	36	PC
16-Aug	30.16	86	58	64	---	0.00	40	PC
17-Aug	30.14	85	58	65	---	0.00	32	PC
18-Aug	30.02	87	65	72	---	0.00	27	MC;T-Storms 10 PM-midnight
19-Aug	29.96	90	72	73	---	0.10	42	MC
20-Aug	29.97	93	73	74	---	0.00	40	cldy
21-Aug	30.00	95	71	77	---	0.00	37	occas. lt. RF 10A-4P;Thunder;66 deg. at 3 PM
22-Aug	29.95	79	66	75	---	0.09	94	MC;occas. lt. RF noon-4 PM;T-Storms 7-11 PM
23-Aug	29.90	84	68	70	---	0.64	70	MC;T-Storms 1-4 AM
24-Aug	29.92	85	70	73	72	0.00	60	MC
25-Aug	29.95	91	71	73	---	0.00	55	MC
26-Aug	29.96	92	73	74	---	0.00	47	MC
27-Aug	29.96	92	73	74	---	0.00	36	MC
28-Aug	29.97	92	72	74	---	0.00	42	PC
29-Aug	30.00	89	67	68	---	0.00	46	MC;Thunder late afternoon and evening
30-Aug	30.01	89	64	69	---	0.00	43	PC;lt. fog;T-Storm 4:30-5 PM
31-Aug	30.11	90	64	67	---	0.14	40	PC;T-Storms/lt. RF 5-8 PM

August Totals and Averages

Max. Temp.	98 °	NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded. 0.13 inches RF recorded on 9-1-2004 actually occurred PM 8-31-2004
Min. Temp.	58 °	
Avg. High	89.6 °	
Avg. Low	67.3 °	
Avg. Temp	78.5 °	
Total RF	2.89 "	
Avg. RF (30 YR)	2.23 "	
Low RH	26 %	
Avg. Low RH	43.9 %	
Avg. Soil Temp	79.7 °	
Year To Date RF	33.11 "	
Avg. RF (30 YR)	20.36 "	

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DATE	B. P.	--TEMPERATURES--				RAIN	LOW	
2004	8 AM	HI	LO	8AM	ONL	FALL	RH	COMMENTS
01-Sep	30.11	86	63	65	---	0.13	40	MC
02-Sep	30.03	80	61	64	---	0.00	38	PC
03-Sep	29.97	84	59	61	---	0.00	38	dense fog
04-Sep	29.99	87	61	70	68	0.00	42	MC;T-Storms/RF 12:30-2:00 PM
05-Sep	29.94	84	70	73	---	0.28	60	MC;lt. RF 6:00 AM
06-Sep	29.94	91	73	74	---	0.01	45	MC;T-Storms/RF 9 AM-2 PM;68 deg. at 9 AM
07-Sep	30.00	80	58	62	---	2.23	61	PC
08-Sep	30.01	83	53	59	---	0.00	27	clear
09-Sep	30.03	84	53	56	---	0.00	30	PC
10-Sep	30.08	86	56	59	---	0.00	30	PC
11-Sep	30.07	88	59	68	67	0.00	38	cldy
12-Sep	30.01	90	64	67	---	0.00	41	PC;lt. fog
13-Sep	29.93	93	64	66	---	0.00	30	PC;lt. fog
14-Sep	29.83	90	66	73	71	0.22	37	MC;lt. RF 5-7 AM
15-Sep	29.80	90	73	73	---	0.00	43	cldy
16-Sep	29.89	92	67	69	---	0.00	40	lt. fog
17-Sep	29.91	92	66	69	---	0.00	43	lt. fog/haze
18-Sep	29.97	93	67	72	---	0.00	36	MC
19-Sep	30.01	90	72	73	---	0.00	41	cldy
20-Sep	29.94	89	66	69	---	0.00	43	PC;lt. fog/haze
21-Sep	30.00	89	68	69	---	0.00	32	MC
22-Sep	30.00	88	64	67	---	0.00	36	PC;lt. fog/haze;lt. RF 11 AM-Noon
23-Sep	30.00	85	67	71	---	0.04	49	MC;lt. fog/haze;T-Storms 6-8 PM
24-Sep	30.03	88	64	65	---	0.40	48	PC
25-Sep	30.03	87	62	66	---	0.00	36	cldy
26-Sep	30.01	80	65	67	---	0.00	58	cldy;lt. RF 9-11 AM
27-Sep	29.97	81	63	65	---	0.31	41	MC;occas. lt. RF 9 PM-Midnight
28-Sep	30.02	82	64	65	---	0.04	44	cldy;lt. fog/haze
29-Sep	30.04	83	57	58	---	0.00	34	PC
30-Sep	29.93	85	57	60	---	0.00	33	PC;lt. fog

September Totals and Averages

Max. Temp.	93 °	NOTE: Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.	
Min. Temp.	53 °		
Avg. High	86.7 °		
Avg. Low	63.4 °		
Avg. Temp	75.1 °		
Total RF	3.66 "		
Avg. RF (30 YR)	3.79 "		0.13 inches RF recorded on 9-1-2004 actually occurred PM 8-31-2004
Low RH	27 %		
Avg. Low RH	40.5 %		
Avg. Soil Temp	75.7 °		
Year To Date RF	36.77 "		
Avg. RF (30 YR)	24.15 "		

USDA-ARS-Knipling-Bushland US Livestock Insects Laboratory, Kerrville, TX

DATE 2004	B. P. 8 AM	--TEMPERATURES--				RAIN FALL	LOW RH	COMMENTS
		HI	LO	8AM	ONL			
01-Oct	29.92	85	60	69	68	0.00	40	cldy;lt. fog/haze
02-Oct	30.12	87	67	67	---	0.07	60	T-Storms 2-4 AM;5-9 AM
03-Oct	30.19	77	63	65	---	0.02	74	cldy
04-Oct	30.10	84	65	70	---	0.00	58	MC;lt. fog
05-Oct	30.11	85	64	65	---	T	44	cldy;occas. lt. RF 2 AM-5 PM;(Thunder)
06-Oct	30.05	76	65	66	---	T	62	MC;lt. fog/haze;occac. drizzle/lt. RF 12:30-2 PM
07-Oct	30.03	83	66	68	---	0.13	50	MC;T-Storms 12:30-2:00 PM
08-Oct	29.97	76	65	66	---	1.00	72	cldy
09-Oct	29.99	81	61	63	---	0.00	54	PC
10-Oct	29.87	82	57	62	---	0.00	30	MC
11-Oct	29.94	79	51	55	---	0.00	36	cldy
12-Oct	30.00	79	53	58	---	0.00	38	PC
13-Oct	29.89	80	58	63	60	0.00	35	MC;occas. sprinkles 9-11 AM
14-Oct	29.97	82	52	53	---	T	56	MC;44 degrees by midnight
15-Oct	29.90	71	43	47	---	0.00	21	clear
16-Oct	29.83	86	47	52	50	0.00	18	PC
17-Oct	29.85	89	52	68	56	0.00	26	MC
18-Oct	29.75	89	68	72	72	0.00	33	MC;lt. fog/haze
19-Oct	29.82	91	58	64	---	T	36	dense fog;mist/drizzle 1 AM-11 AM
20-Oct	29.87	91	64	74	68	T	37	cldy;lt. fog/haze
21-Oct	29.89	88	67	73	---	T	54	cldy;lt. fog;occas. mist/drizzle 2 AM-11 AM
22-Oct	29.83	87	72	72	---	T	49	lt. fog;drizzle 5 AM-noon;T-Storms 10 PM-Midnite
23-Oct	29.94	86	64	68	---	1.51	49	MC;lt. fog
24-Oct	29.88	79	66	71	---	T	41	dense fog;drizzl/lt. RF 7AM-noon;T-Storms 1-3PM
25-Oct	29.89	76	66	70	---	0.70	90	cldy
26-Oct	29.95	82	68	69	---	0.00	56	MC
27-Oct	29.98	80	69	70	---	0.00	58	MC
28-Oct	30.01	84	70	71	---	0.00	48	MC
29-Oct	29.92	83	71	71	---	0.00	53	cldy;lt. drizzle 8 AM-11 AM
30-Oct	29.93	84	66	68	---	T	56	cldy;fog/lt. drizzle 2AM-9 AM
31-Oct	29.87	84	68	69	---	0.01	49	MC;T-Storms 10 PM-midnight

October Totals and Averages

Max. Temp.	91 °
Min. Temp.	43 °
Avg. High	82.8 °
Avg. Low	62.1 °
Avg. Temp	72.5 °
Total RF	3.44 "
Avg. RF (30 YR)	3.83 "
Low RH	18 %
Avg. Low RH	47.8 %
Avg. Soil Temp	72.3 °
Year To Date RF	40.21 "
Avg. RF (30 YR)	27.98 "

NOTE

Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.

USDA-ARS-Knipling-Bushland US Livestock Insects Laboratory, Kerrville,TX

DATE 2004	B. P. 8 AM	--TEMPERATURES--			RAIN FALL	LOW RH	COMMENTS	
		HI	LO	8AM ONL				
01-Nov	29.81	81	59	60	---	0.74	48	fog;lt. RF/drizzle midnight-3 AM
02-Nov	30.02	78	47	48	---	0.00	48	MC
03-Nov	30.09	56	43	43	---	0.00	51	cldy
04-Nov	30.15	58	31	41	---	0.00	41	clear;1st freeze of season
05-Nov	30.31	75	34	44	---	0.00	17	clear
06-Nov	30.19	78	35	45	---	0.00	18	PC
07-Nov	30.11	81	36	46	---	0.00	18	PC
08-Nov	30.20	82	43	54	---	0.00	23	PC
09-Nov	30.13	79	54	58	---	0.00	36	PC
10-Nov	29.98	74	58	62	---	0.00	41	PC
11-Nov	30.17	77	49	51	---	0.00	43	PC
12-Nov	30.15	62	35	42	---	0.00	45	PC
13-Nov	30.15	53	42	45	45	T	59	fog;occas. drizzle/lt. RF AM;RF 7 PM-midnight
14-Nov	30.21	49	45	49	---	0.60	89	T-Storms 2-9 AM;occas RF/drizzle thru midnight
15-Nov	30.23	53	49	53	---	1.10	97	fog;T-Storms 1-4 AM;RF/occas. drizzle/RF all day
16-Nov	30.14	62	53	62	61	0.08	98	occas. drizzle/lt. RF then T-Storms 6PM-midnight
17-Nov	30.03	76	56	57	---	1.97	61	cldy;occas. drizzle/lt. RF midnight-11 AM
18-Nov	30.08	71	50	53	---	0.03	51	dense fog
19-Nov	30.05	74	45	48	---	0.00	41	MC
20-Nov	29.93	75	48	61	60	T	42	fog;occas. drizzle throughout day and night
21-Nov	30.03	66	61	62	---	T	96	cldy;lt. fog;occas. drizzle/lt. RF thru day and night
22-Nov	29.94	65	62	63	---	0.10	97	cldy;lt. fog;occas. drizzle/lt. RF thru day and night
23-Nov	29.81	65	58	62	---	0.02	84	cldy;fog;drizzle/lt. RF midnight-11 AM;lt. RF 6-7PM
24-Nov	29.91	79	44	46	---	0.12	42	cldy
25-Nov	30.09	59	32	38	---	0.00	41	PC
26-Nov	29.88	65	38	57	48	0.00	37	cldy
27-Nov	29.97	69	43	53	---	0.00	58	PC
28-Nov	29.92	67	42	48	---	0.00	22	PC
29-Nov	29.81	69	48	66	63	T	42	cldy;lt. fog;lt. drizzle 1-6 AM;RF 11 PM-midnight
30-Nov	30.18	78	36	36	---	0.34	49	occas. lt. RF midnight-4 AM;27 deg. by midnight

November Totals and Averages

Max. Temp.	82 °
Min. Temp.	31 °
Avg. High	69.2 °
Avg. Low	45.9 °
Avg. Temp	57.6 °
Total RF	5.10 "
Avg. RF (30 YR)	2.56 "
Low RH	17 %
Avg. Low RH	51.2 %
Avg. Soil Temp	61.0 °
Year To Date RF	45.31 "
Avg. RF (30 YR)	30.54 "

NOTE

Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.

USDA-ARS-Knipling-Bushland US Livestock Insects Laboratory, Kerrville,TX

DATE 2004	B. P. 8 AM	--TEMPERATURES--				RAIN FALL	LOW RH	COMMENTS
		HI	LO	8AM	ONL			
01-Dec	30.25	51	23	28	---	0.00	25	PC
02-Dec	30.13	58	28	32	---	0.00	21	PC
03-Dec	30.10	68	32	40	34	0.00	22	PC
04-Dec		54	38	42	---	0.02	50	drizzle early AM
05-Dec		66	42	56	52	0.11	50	drizzle/ lt. RF throughout day and night
06-Dec		60	56	58	---	0.15	96	drizzle early AM
07-Dec		67	38	46	---	0.00	46	
08-Dec		72	37	40	---	0.00	21	
09-Dec		66	35	41	---	0.00	39	
10-Dec		76	39	50	---	0.00	19	
11-Dec		68	32	38	---	0.00	18	
12-Dec		75	38	43	---	0.00	18	
13-Dec	30.30	83	43	44	---	0.00	18	PC
14-Dec	30.61	56	31	34	---	0.00	27	PC
15-Dec	30.40	50	18	25	---	0.00	26	clear
16-Dec	30.20	53	25	45	34	0.00	19	cldy;fog
17-Dec	30.20	61	27	29	---	0.00	48	clear
18-Dec	30.22	63	27	30	---	0.00	24	clear
19-Dec	30.37	66	28	32	---	0.00	20	clear
20-Dec	30.09	67	29	32	---	0.00	15	clear
21-Dec	29.82	67	32	38	37	0.00	21	clear
22-Dec	29.82	76	38	38	---	T	20	cldy;windy;occas. lt. RF 4-7 AM;30 deg by MN
23-Dec	30.19	38	20	21	---	0.00	82	PC
24-Dec	30.15	43	21	23	22	0.00	28	PC
25-Dec	30.12	31	17	22	---	0.00	41	clear
26-Dec	30.18	57	22	25	---	0.00	16	PC
27-Dec	30.28	68	25	27	---	0.00	18	PC
28-Dec	30.25	62	27	51	47	0.00	45	cldy;fog
29-Dec	30.21	68	51	56	53	0.00	43	MC
30-Dec	30.05	69	56	56	---	0.00	50	MC
31-Dec	30.07	64	56	60	---	0.00	67	MC

December Totals and Averages

Max. Temp.	83 °
Min. Temp.	17 °
Avg. High	62.0 °
Avg. Low	33.3 °
Avg. Temp	47.7 °
Total RF	0.28 "
Avg. RF (30 YR)	2.07 "
Low RH	15 %
Avg. Low RH	34.0 %
Avg. Soil Temp	50.2 °
Year To Date RF	45.59 "
Avg. RF (30 YR)	32.61 "

NOTE

Temperature and rainfall data are for the 24 hour period ending at 8:00 AM on the date recorded.