

MARANA AGRICULTURAL CENTER JANUARY NORMALS

<u>DAY</u>	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	19	2	10	85	33	61	1	11.9	10	2.2	2	2	2.3
2	19	3	10	87	32	61	1	10.2	10	2.6	2	4	2.1
3	19	3	10	87	33	63	1	10.1	10	2.3	2	6	2.0
4	19	4	10	84	41	65	1	10.7	11	2.3	2	8	2.0
5	18	5	11	81	39	63	1	9.8	11	2.8	2	10	2.0
6	16	3	9	87	42	68	1	10.1	11	2.6	1	11	1.8
7	17	1	8	86	35	65	-1	11.8	10	2.2	1	12	2.0
8	18	1	9	83	34	62	-1	12.2	10	2.6	2	14	2.3
9	18	2	9	83	34	62	-1	12.1	10	2.3	2	16	2.3
10	20	3	10	81	30	58	-1	11.8	10	2.7	2	18	2.6
11	20	3	11	78	31	58	-1	11.4	10	2.7	2	20	2.5
12	19	3	10	78	31	58	-1	11.7	10	2.8	2	22	2.5
13	18	3	10	79	37	60	0	12.4	10	2.8	2	24	2.6
14	19	2	10	82	33	61	-1	12.2	10	2.4	2	26	2.4
15	20	2	10	79	29	57	-1	12.3	10	2.3	2	28	2.6
16	18	3	10	79	32	58	-1	11.3	10	2.5	2	30	2.4
17	19	2	10	84	36	61	0	11.6	10	3.0	2	32	2.6
18	19	3	10	80	32	59	-1	12.2	10	2.8	2	34	2.6
19	19	3	10	77	30	56	-1	13.3	10	2.6	2	36	2.8
20	19	3	10	81	33	60	0	12.3	10	2.5	2	38	2.6
21	19	3	10	80	30	57	-1	12.8	11	2.4	2	40	2.7
22	19	3	10	82	31	57	0	11.8	10	2.4	2	42	2.5
23	20	3	10	83	26	59	0	13.8	11	2.3	2	44	2.8
24	21	3	11	79	22	51	-1	13.9	11	2.6	3	47	3.1
25	20	3	11	80	23	51	-1	12.7	11	2.9	2	49	3.0
26	20	4	11	77	26	53	-1	13.1	11	2.5	2	51	2.9
27	19	4	10	77	30	55	-1	12.6	11	2.7	2	53	2.7
28	19	2	10	80	30	57	-1	13.6	11	2.5	2	55	2.8
29	20	2	10	81	24	52	-2	15.1	11	2.6	2	57	3.2
30	20	2	10	73	21	47	-3	14.6	11	2.5	2	60	3.2
31	<u>21</u>	<u>3</u>	<u>11</u>	<u>76</u>	<u>19</u>	<u>46</u>	<u>-2</u>	<u>14.0</u>	<u>11</u>	<u>2.8</u>	<u>3</u>	<u>63</u>	<u>3.4</u>
AVG	19	3	10	81	31	58	0	12.2	10	2.5	2		
SUM											63		79.4

PPT= 27.6

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month

For Years 1987-2001

MARANA AGRICULTURAL CENTER FEBRUARY NORMALS

DAY	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	20	3	11	77	29	55	0	13.2	12	2.5	2	65	2.9
2	20	4	11	78	27	54	0	13.8	12	2.6	3	67	3.1
3	21	3	12	81	25	54	-1	15.1	12	2.7	3	70	3.4
4	22	4	12	79	25	52	0	13.1	12	2.8	3	73	3.2
5	22	5	12	79	26	54	0	15.1	13	2.6	3	76	3.5
6	22	4	12	77	23	50	-1	16.1	12	2.8	3	79	3.9
7	22	5	12	77	25	51	0	14.3	12	2.9	3	83	3.5
8	20	5	12	80	35	59	2	11.9	12	2.9	3	85	2.7
9	21	5	12	79	29	57	1	15.4	13	2.4	3	88	3.3
10	20	4	12	76	31	55	0	14.6	13	2.6	3	91	3.3
11	20	4	11	85	29	58	1	15.0	13	2.4	2	93	3.1
12	21	4	12	81	24	56	0	14.8	12	2.8	3	96	3.4
13	20	6	12	81	31	58	1	13.5	13	2.9	3	98	3.1
14	20	4	12	82	35	61	1	13.4	13	2.5	2	101	2.8
15	20	4	11	82	31	58	0	15.3	13	2.4	2	103	3.1
16	21	4	12	76	25	52	-1	15.8	13	2.7	3	106	3.6
17	21	5	13	76	27	53	0	14.6	13	2.8	3	109	3.4
18	20	5	12	75	31	55	0	15.3	13	2.9	3	112	3.5
19	21	5	12	79	24	54	0	16.2	13	2.8	3	115	3.7
20	22	5	13	79	27	54	0	16.4	13	2.7	3	118	3.8
21	22	5	13	79	29	54	1	16.4	14	2.5	3	121	3.7
22	21	4	12	76	27	52	0	17.3	14	2.4	3	124	3.8
23	22	4	13	71	20	46	-2	17.2	14	2.5	3	127	4.1
24	23	5	13	67	20	43	-2	16.5	14	2.9	3	131	4.1
25	22	5	13	70	24	46	-1	16.1	13	2.8	3	134	3.9
26	22	6	13	72	22	48	-1	16.2	14	2.7	4	138	3.9
27	22	6	14	74	23	48	0	17.4	14	3.0	4	141	4.3
28	<u>21</u>	<u>6</u>	<u>13</u>	<u>78</u>	<u>28</u>	<u>55</u>	<u>1</u>	<u>16.2</u>	<u>14</u>	<u>2.9</u>	<u>3</u>	<u>144</u>	<u>3.7</u>
AVG	21	5	12	77	27	53	0	15.2	13	2.7	3		
SUM											82		97.3

PPT= 31.7

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m ² /Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month

For Years 1987-2001

MARANA AGRICULTURAL CENTER MARCH NORMALS

<u>DAY</u>	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	21	5	13	76	29	54	0	16.9	14	2.7	3	147	3.8
2	21	5	13	80	26	55	0	16.5	14	2.5	3	150	3.5
3	23	6	14	76	26	52	1	17.0	14	2.7	4	154	4.0
4	23	6	14	75	24	49	0	19.1	15	2.8	4	158	4.6
5	24	6	15	74	22	47	0	18.5	15	2.9	4	162	4.6
6	23	6	14	72	24	49	0	18.2	15	2.8	4	165	4.4
7	21	5	13	78	26	54	0	17.9	15	2.8	3	168	4.0
8	22	4	13	77	24	51	-1	20.4	15	2.3	3	171	4.5
9	25	5	14	72	23	48	0	19.6	15	2.3	4	176	4.6
10	25	6	15	74	19	47	0	20.1	16	2.6	5	180	5.0
11	24	6	15	70	21	44	-1	20.0	16	3.1	4	185	5.1
12	23	6	14	71	20	45	-1	21.9	16	2.5	4	189	5.1
13	23	5	14	71	20	44	-1	19.2	15	2.8	4	193	4.7
14	24	6	14	71	20	46	-1	19.9	16	2.5	4	197	4.7
15	24	6	15	70	19	43	-1	20.7	16	2.9	5	201	5.3
16	24	7	15	71	21	45	0	20.9	17	2.5	5	206	5.1
17	25	7	15	69	21	45	0	20.6	17	2.4	5	211	5.0
18	26	7	16	69	18	42	0	22.0	17	2.7	5	216	5.5
19	27	7	17	64	16	39	-1	21.8	17	2.6	6	222	5.7
20	28	8	18	63	15	37	-1	21.7	18	3.2	6	228	6.1
21	26	8	17	62	19	40	0	21.1	17	2.8	6	234	5.5
22	27	8	17	62	16	38	-1	23.4	18	2.8	6	240	6.2
23	27	8	17	60	16	36	-1	23.0	18	3.2	6	246	6.5
24	27	8	17	62	15	37	-2	23.2	18	2.7	6	252	6.1
25	27	8	17	59	14	33	-2	22.3	18	3.1	6	257	6.3
26	23	8	15	72	26	49	1	16.6	17	3.0	4	261	4.1
27	23	7	15	77	24	52	1	21.8	17	2.9	4	266	5.3
28	23	7	15	73	26	49	1	21.3	17	3.1	4	270	5.4
29	23	7	15	76	27	52	1	21.6	17	2.6	4	274	5.0
30	25	7	16	73	19	47	0	24.4	17	2.7	5	279	5.9
31	<u>25</u>	<u>8</u>	<u>16</u>	<u>71</u>	<u>21</u>	<u>45</u>	<u>0</u>	<u>24.0</u>	<u>18</u>	<u>2.8</u>	<u>5</u>	<u>284</u>	<u>6.0</u>
AVG	24	7	15	71	21	46	0	20.5	16	2.8	4		
SUM											139		157.5

PPT= 20.1

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10 Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month

For Years 1987-2001

MARANA AGRICULTURAL CENTER APRIL NORMALS

DAY	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	25	8	15	72	22	49	1	21.4	17	3.1	5	288	5.5
2	24	8	15	73	23	47	1	23.9	17	3.1	5	293	5.9
3	25	7	16	73	19	46	0	24.5	18	2.6	5	298	6.0
4	26	8	17	71	20	45	1	22.7	19	2.7	6	304	5.8
5	26	9	18	68	21	43	1	23.7	19	2.9	6	310	6.1
6	27	8	18	70	17	41	1	25.0	19	2.6	6	315	6.4
7	27	9	18	65	16	39	0	25.1	19	2.8	6	322	6.6
8	28	9	18	62	16	36	0	25.5	19	2.8	6	328	6.9
9	28	9	18	60	14	34	-1	26.7	20	2.9	6	335	7.2
10	27	9	18	57	14	34	-2	26.0	20	3.0	6	341	7.1
11	28	9	18	55	13	32	-2	26.2	20	3.0	6	347	7.1
12	28	9	18	55	13	32	-2	26.1	20	2.8	7	354	7.0
13	27	9	18	63	14	33	-1	25.0	20	2.6	6	360	6.6
14	28	9	18	60	14	34	-1	26.8	20	2.7	6	367	7.0
15	28	9	19	60	14	33	-1	24.4	20	2.7	7	373	6.6
16	29	9	19	59	14	32	-1	25.9	20	3.1	7	380	7.3
17	28	9	19	62	16	35	0	25.1	20	2.9	7	387	7.0
18	29	10	20	63	16	35	1	25.2	20	2.7	7	394	6.9
19	29	9	19	61	16	35	0	25.7	21	2.5	7	401	6.8
20	31	10	21	54	11	29	-1	27.6	21	3.1	8	409	8.0
21	30	11	21	55	13	30	0	25.7	21	3.3	8	417	7.6
22	29	11	20	56	16	33	1	27.0	21	2.9	8	425	7.4
23	30	11	21	60	13	31	1	27.2	21	3.1	8	433	7.8
24	29	10	19	61	13	32	0	27.1	21	3.2	7	439	7.8
25	29	10	20	60	15	33	0	27.7	21	2.9	7	446	7.6
26	30	11	20	54	14	30	0	27.0	21	2.6	7	454	7.4
27	32	12	22	50	12	28	0	27.9	22	2.7	9	463	7.9
28	31	11	22	47	11	23	-2	27.8	22	3.2	8	471	8.4
29	30	11	21	45	11	24	-2	28.8	22	2.8	8	479	8.2
30	<u>31</u>	<u>11</u>	<u>22</u>	<u>42</u>	<u>11</u>	<u>24</u>	<u>-2</u>	<u>28.7</u>	<u>23</u>	<u>3.0</u>	<u>9</u>	<u>487</u>	<u>8.4</u>
AVG	28	10	19	60	15	34	0	25.9	20	2.9	7		
SUM											204		212.3

PPT= 11.6

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	

**MARANA AGRICULTURAL CENTER
MAY NORMALS**

<u>DAY</u>	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	30	12	21	42	12	25	-2	28.7	23	3.0	8	496	8.4
2	31	11	21	45	12	24	-2	28.1	23	2.9	8	504	8.2
3	32	11	22	43	11	23	-2	28.2	23	3.0	9	512	8.3
4	32	12	23	41	11	23	-2	28.8	23	3.1	9	522	8.7
5	32	12	23	47	11	25	-1	28.6	24	3.0	9	531	8.5
6	32	12	22	44	12	24	-2	28.6	24	2.8	9	540	8.3
7	32	12	23	46	11	25	-1	28.7	23	2.7	9	549	8.3
8	33	13	23	46	12	25	-1	28.8	23	3.1	10	558	8.8
9	33	14	24	42	11	23	-1	27.0	24	3.0	10	568	8.3
10	33	13	23	46	11	24	0	27.2	24	3.1	10	578	8.5
11	33	13	23	48	11	26	0	27.9	24	2.9	10	588	8.3
12	33	14	24	46	10	24	0	28.4	24	2.8	10	598	8.5
13	34	14	24	45	12	25	0	29.1	24	3.0	10	608	8.8
14	34	14	25	39	11	22	-1	29.4	24	3.0	10	618	9.1
15	34	14	24	44	10	22	-1	29.0	24	2.8	10	629	8.8
16	33	14	24	47	11	25	0	27.2	24	2.8	10	639	8.2
17	34	14	24	45	10	24	-1	28.6	24	2.8	10	649	8.6
18	35	15	25	45	10	23	1	27.9	25	2.8	11	660	8.5
19	34	15	25	47	11	25	1	27.7	25	2.9	11	670	8.4
20	34	15	25	47	12	26	1	27.3	25	2.7	11	681	8.1
21	35	14	25	43	10	23	-1	29.0	25	2.9	11	692	8.9
22	35	14	25	40	9	21	-2	29.3	25	2.9	11	702	9.1
23	35	14	25	42	11	23	-1	28.6	25	2.8	11	713	8.7
24	34	15	25	48	11	26	1	28.3	25	2.8	11	724	8.6
25	34	15	25	48	12	26	1	28.9	25	3.0	10	734	8.8
26	34	14	25	49	12	26	1	29.8	25	2.5	11	745	8.7
27	36	16	26	48	10	25	2	29.4	25	2.8	12	756	9.1
28	36	16	27	45	10	23	1	28.8	26	3.1	12	768	9.2
29	35	15	26	48	11	25	1	29.5	26	3.0	11	779	9.2
30	36	15	26	39	9	21	-1	29.6	25	2.9	11	790	9.2
31	<u>35</u>	<u>15</u>	<u>26</u>	<u>40</u>	<u>9</u>	<u>20</u>	<u>-1</u>	<u>29.5</u>	<u>25</u>	<u>2.7</u>	<u>11</u>	<u>801</u>	<u>9.0</u>
AVG	34	14	24	45	11	24	0	28.5	24	2.9	10		
SUM											303		259.2

PPT= 4.4

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	

MARANA AGRICULTURAL CENTER JUNE NORMALS

DAY	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	36	15	26	39	9	21	-1	29.8	26	2.6	11	812	9.1
2	37	16	27	38	8	19	-1	30.7	26	2.9	12	824	9.8
3	37	16	27	33	8	17	-2	30.7	26	2.9	12	836	9.9
4	37	17	28	31	8	17	-2	30.8	27	2.9	12	848	9.8
5	37	16	28	31	8	16	-2	29.7	27	3.2	12	860	9.9
6	37	16	27	33	9	17	-1	29.7	27	3.2	12	871	9.9
7	36	16	27	36	9	20	-1	28.5	26	3.1	11	883	9.2
8	36	16	27	39	10	22	0	29.2	26	2.9	12	894	9.2
9	37	16	27	38	10	20	0	30.0	26	2.7	12	906	9.3
10	38	17	28	37	9	20	0	29.4	27	2.7	12	919	9.3
11	38	17	29	35	8	18	0	30.2	27	2.8	13	931	9.7
12	37	18	28	35	9	19	0	28.4	27	3.0	13	944	9.4
13	38	18	28	37	9	20	1	28.8	27	3.1	13	957	9.5
14	38	18	29	36	9	19	0	30.0	27	3.3	13	970	10.1
15	38	18	29	32	9	17	0	29.3	27	3.0	13	983	9.7
16	38	18	29	34	9	18	0	30.5	27	2.9	13	995	10.0
17	38	19	29	38	10	20	2	28.0	27	2.7	13	1009	9.0
18	39	19	29	44	10	24	3	27.6	27	2.4	13	1022	8.6
19	40	20	30	42	10	23	3	28.9	28	2.8	14	1036	9.3
20	39	20	30	45	13	25	4	27.0	27	2.9	14	1050	8.9
21	40	20	30	44	11	24	3	29.1	28	2.8	14	1064	9.4
22	39	18	29	37	10	21	1	29.7	28	2.7	13	1077	9.3
23	39	20	30	39	11	22	3	29.6	28	2.9	14	1091	9.7
24	40	20	31	38	10	21	3	29.5	29	2.7	14	1105	9.6
25	40	20	31	42	9	22	3	29.0	29	2.8	14	1119	9.7
26	40	20	31	39	10	21	3	28.5	29	2.6	14	1133	9.3
27	40	22	31	43	10	22	5	28.2	29	2.6	14	1147	9.2
28	40	21	31	44	12	26	5	28.6	29	2.5	14	1161	9.1
29	40	22	31	47	12	27	6	28.9	30	2.6	15	1176	9.2
30	<u>40</u>	<u>22</u>	<u>31</u>	<u>48</u>	<u>12</u>	<u>27</u>	<u>7</u>	<u>28.5</u>	<u>30</u>	<u>2.7</u>	<u>15</u>	<u>1191</u>	<u>9.2</u>
AVG	38	18	29	39	10	21	1	29.2	27	2.8	13		
SUM											390		283.3
								PPT=	3.5				

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m ² /Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	

MARANA AGRICULTURAL CENTER JULY NORMALS

DAY	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	40	22	32	43	11	24	6	28.1	29	2.6	15	1206	9.1
2	40	22	31	51	13	28	7	27.7	29	2.8	15	1221	8.9
3	40	22	31	52	14	30	8	28.2	28	2.9	15	1235	9.1
4	40	22	31	59	13	32	9	28.5	29	2.7	15	1250	9.0
5	39	22	30	60	18	38	10	25.7	29	2.5	15	1265	7.8
6	37	22	30	65	24	42	12	24.1	29	2.6	14	1279	7.3
7	38	22	30	71	24	48	13	25.6	29	2.5	15	1294	7.4
8	38	23	30	68	23	45	13	26.4	29	2.7	15	1309	7.9
9	37	22	30	73	23	45	14	25.8	29	2.6	15	1323	7.6
10	38	22	29	76	21	47	14	26.0	30	2.6	15	1338	7.6
11	37	22	29	73	25	48	14	25.6	30	2.5	14	1353	7.4
12	38	22	30	68	18	40	12	27.1	30	2.4	15	1367	8.0
13	38	22	30	61	17	37	11	24.3	30	2.1	15	1382	7.1
14	39	22	30	64	18	38	11	25.8	30	2.5	15	1397	7.7
15	38	22	30	64	22	43	12	25.0	30	2.4	14	1411	7.5
16	38	23	31	67	19	39	12	26.0	30	2.6	15	1426	7.9
17	38	22	30	68	19	41	13	24.8	30	2.6	15	1441	7.4
18	38	22	30	71	20	44	13	24.9	30	2.5	15	1456	7.2
19	38	22	30	70	20	43	13	27.3	30	2.6	15	1470	8.0
20	37	23	30	73	22	47	14	25.1	30	2.8	15	1485	7.3
21	38	23	30	73	24	47	15	26.0	30	2.4	15	1500	7.5
22	37	22	30	72	25	47	14	25.8	30	2.3	15	1515	7.4
23	38	22	30	70	21	45	13	25.7	30	2.4	15	1529	7.4
24	38	22	29	70	23	47	13	26.0	30	2.4	15	1544	7.4
25	39	22	30	71	21	44	13	27.0	30	2.4	15	1559	7.8
26	38	23	30	72	19	45	13	26.3	30	2.4	15	1574	7.6
27	39	22	30	70	21	45	13	25.7	30	2.6	15	1589	7.6
28	38	23	30	74	21	47	14	24.3	30	2.4	15	1603	7.0
29	38	23	30	77	24	50	15	23.2	30	2.4	15	1619	6.6
30	37	23	29	81	26	54	16	24.9	30	2.2	15	1633	6.8
31	<u>38</u>	<u>23</u>	<u>30</u>	<u>79</u>	<u>23</u>	<u>50</u>	<u>16</u>	<u>25.9</u>	<u>30</u>	<u>2.3</u>	<u>15</u>	<u>1648</u>	<u>7.3</u>
AVG	38	22	30	68	20	42	12	25.9	30	2.5	15		
SUM											442		230.0

PPT= 35.1

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	

MARANA AGRICULTURAL CENTER AUGUST NORMALS

<u>DAY</u>	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	39	23	30	76	20	46	15	26.0	30	2.5	15	1664	7.5
2	38	23	30	76	24	50	16	26.0	30	2.4	15	1679	7.3
3	38	23	30	77	23	50	15	25.6	30	2.5	15	1694	7.4
4	38	23	30	79	26	52	16	23.7	30	2.5	15	1709	6.7
5	38	23	30	76	25	48	15	25.4	30	2.6	15	1724	7.4
6	38	23	30	74	25	47	15	25.7	30	2.5	15	1739	7.4
7	38	22	29	80	24	52	16	24.4	30	2.5	15	1754	6.8
8	37	22	29	87	26	56	17	24.3	30	2.4	14	1768	6.7
9	37	22	29	86	28	58	17	23.4	30	2.4	15	1783	6.4
10	37	23	29	85	27	58	17	23.3	30	2.2	15	1797	6.3
11	38	22	29	87	26	57	17	24.6	30	2.3	15	1812	6.8
12	37	22	29	82	27	55	16	24.2	30	2.3	15	1827	6.6
13	37	22	29	83	27	55	16	25.2	30	2.5	14	1841	7.0
14	36	22	28	86	32	59	18	22.7	29	2.6	14	1855	6.2
15	36	22	28	86	31	59	18	24.0	30	2.2	14	1870	6.3
16	38	22	29	83	27	56	17	24.8	30	2.3	15	1884	6.7
17	37	22	29	86	29	58	17	24.5	30	2.4	15	1899	6.7
18	37	23	29	84	27	57	17	24.0	30	2.4	15	1914	6.5
19	37	22	29	87	29	59	18	24.0	30	2.4	15	1928	6.5
20	37	22	29	86	28	58	18	23.6	30	2.1	15	1943	6.3
21	37	23	29	83	29	57	18	24.1	30	2.5	15	1958	6.7
22	37	22	29	87	26	56	17	24.7	30	2.4	14	1972	6.7
23	37	21	28	86	26	58	16	22.9	29	2.3	14	1986	6.2
24	37	21	28	83	28	58	16	23.3	29	2.5	14	2000	6.3
25	37	21	28	84	27	57	16	24.2	29	2.1	14	2015	6.4
26	37	21	28	84	29	58	16	23.3	29	1.9	14	2029	6.2
27	35	21	28	86	33	62	17	21.3	29	2.2	14	2043	5.6
28	36	21	28	86	31	62	17	23.4	29	2.3	14	2057	6.1
29	36	22	28	87	32	62	17	22.5	29	2.6	14	2071	6.1
30	36	22	28	85	30	59	17	22.8	29	2.3	14	2085	6.1
31	<u>36</u>	<u>22</u>	<u>28</u>	<u>86</u>	<u>31</u>	<u>60</u>	<u>17</u>	<u>22.0</u>	<u>29</u>	<u>2.3</u>	<u>14</u>	<u>2099</u>	<u>5.9</u>
AVG	37	22	29	83	27	56	17	24.1	30	2.4	15		
SUM											437		197.7

PPT= 55.1

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	

MARANA AGRICULTURAL CENTER SEPTEMBER NORMALS

<u>DAY</u>	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	36	21	28	82	27	57	16	21.6	29	2.4	14	2113	6.0
2	36	21	28	84	29	58	16	21.8	29	2.2	14	2127	6.0
3	36	20	27	88	29	58	16	21.1	29	2.4	14	2141	5.7
4	36	20	27	83	30	59	15	21.7	28	2.3	13	2154	5.9
5	35	20	27	84	29	58	15	22.7	28	2.3	13	2168	6.1
6	36	20	27	81	25	55	14	23.3	28	2.2	14	2181	6.3
7	37	19	28	81	21	51	13	24.5	29	2.1	13	2195	6.7
8	37	19	27	76	18	47	11	24.4	29	2.2	13	2208	6.8
9	37	19	27	73	20	46	12	21.8	28	2.6	13	2221	6.4
10	37	19	27	77	23	50	13	22.0	28	2.4	13	2235	6.2
11	36	20	27	77	24	51	14	21.7	28	2.5	14	2248	6.3
12	36	19	27	79	23	50	13	23.1	28	2.7	13	2262	6.7
13	35	19	27	80	24	51	13	21.6	28	2.6	13	2275	6.2
14	35	18	26	78	23	51	12	22.4	28	2.3	12	2287	6.1
15	35	18	26	76	25	50	12	21.4	28	2.3	12	2299	6.0
16	36	19	27	76	21	48	12	22.9	28	2.3	13	2312	6.5
17	36	19	27	77	23	48	13	21.1	27	2.3	13	2325	6.0
18	35	18	26	77	22	48	12	20.7	27	2.2	13	2337	5.8
19	35	18	26	73	23	48	11	20.8	27	2.4	12	2350	5.9
20	35	18	26	71	23	47	11	21.5	27	2.6	12	2362	6.2
21	34	18	26	74	23	49	11	20.1	27	2.5	12	2375	5.7
22	35	18	26	77	22	48	11	21.6	27	2.4	12	2387	6.1
23	35	17	26	75	23	47	11	21.0	26	2.3	12	2399	5.9
24	34	18	25	74	24	50	11	19.4	26	2.3	12	2411	5.5
25	35	18	26	73	20	46	10	20.8	26	2.5	12	2423	6.0
26	35	18	26	69	17	41	9	22.2	26	2.5	12	2436	6.5
27	36	17	26	64	17	39	8	21.4	26	2.4	12	2448	6.4
28	36	16	26	63	15	36	6	21.8	26	2.3	12	2460	6.5
29	36	16	26	58	14	35	6	20.6	25	2.5	12	2472	6.5
30	<u>35</u>	<u>16</u>	<u>25</u>	<u>64</u>	<u>16</u>	<u>39</u>	<u>6</u>	<u>19.7</u>	<u>25</u>	<u>2.5</u>	<u>11</u>	<u>2483</u>	<u>6.0</u>
AVG	36	19	26	75	23	49	12	21.7	27	2.4	13		
SUM											384		185.0

PPT= 13.9

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	

MARANA AGRICULTURAL CENTER OCTOBER NORMALS

<u>DAY</u>	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	34	16	24	64	18	39	7	19.6	25	2.4	11	2494	5.8
2	35	16	25	61	17	37	6	20.3	24	2.5	11	2505	6.1
3	35	16	25	62	18	38	7	20.0	24	2.6	12	2517	6.1
4	34	16	24	64	18	40	7	18.7	24	2.4	11	2528	5.6
5	34	15	24	63	17	40	6	20.1	24	2.2	11	2539	5.7
6	33	14	23	65	18	41	6	18.9	24	2.3	10	2550	5.4
7	33	14	23	65	19	41	5	19.1	23	2.4	10	2559	5.5
8	32	13	22	65	19	40	5	19.5	23	2.4	9	2569	5.5
9	33	13	22	62	16	38	4	19.8	23	2.4	10	2578	5.7
10	34	14	23	61	15	37	4	19.6	23	2.7	10	2588	5.9
11	33	13	22	58	17	36	3	18.5	23	2.5	10	2598	5.5
12	32	13	22	59	15	36	3	18.8	22	2.3	9	2607	5.4
13	33	13	22	62	14	37	3	18.8	22	2.4	10	2617	5.5
14	32	13	21	64	17	40	3	17.4	22	2.3	9	2626	4.9
15	31	13	21	66	18	41	4	18.3	21	2.6	9	2635	5.1
16	30	12	21	66	21	43	4	17.4	21	2.4	8	2643	4.9
17	31	11	20	66	18	42	3	18.9	21	2.1	8	2651	5.0
18	31	11	21	67	17	41	3	18.4	21	2.2	9	2660	5.0
19	31	12	21	64	19	42	4	17.0	21	2.6	9	2669	4.9
20	30	12	20	70	20	44	4	16.2	21	2.4	8	2677	4.5
21	29	12	20	73	24	47	5	16.0	20	2.7	8	2685	4.4
22	28	12	19	73	28	51	6	14.9	20	2.4	8	2692	3.9
23	29	11	19	74	26	51	6	16.2	20	2.4	8	2700	4.2
24	29	11	19	72	24	50	5	16.3	20	2.1	8	2707	4.1
25	29	11	19	68	24	47	4	16.2	20	2.5	8	2715	4.4
26	28	10	18	76	21	48	4	15.8	19	2.3	7	2722	4.0
27	27	10	17	77	27	52	5	13.5	19	2.3	6	2728	3.4
28	27	10	18	74	24	49	4	16.4	19	2.2	7	2735	4.1
29	27	10	18	72	22	47	3	16.3	19	2.3	7	2741	4.2
30	27	9	17	77	21	48	3	14.8	19	2.2	6	2747	3.8
<u>31</u>	<u>26</u>	<u>9</u>	<u>17</u>	<u>71</u>	<u>25</u>	<u>48</u>	<u>3</u>	<u>15.0</u>	<u>18</u>	<u>2.2</u>	<u>6</u>	<u>2753</u>	<u>3.7</u>
AVG	31	12	21	67	20	43	4	17.6	21	2.4	9		
SUM											270		152.4

PPT= 18.6

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	

MARANA AGRICULTURAL CENTER NOVEMBER NORMALS

DAY	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	25	8	16	73	24	48	2	14.8	18	2.2	5	2758	3.7
2	26	8	16	74	24	49	2	14.6	18	2.3	5	2764	3.7
3	26	7	16	75	20	48	1	15.4	18	2.2	5	2769	3.8
4	26	7	16	71	21	46	1	14.8	17	2.2	5	2774	3.7
5	26	8	16	72	20	46	1	14.6	17	2.2	5	2779	3.6
6	26	7	16	70	21	45	1	14.5	17	2.3	5	2785	3.7
7	25	7	15	68	21	46	1	14.6	17	2.3	5	2790	3.7
8	26	7	16	70	22	46	1	15.6	17	2.4	5	2795	3.9
9	26	6	16	71	20	44	1	14.6	17	2.4	5	2801	3.8
10	27	7	16	70	21	44	1	13.5	16	2.4	6	2806	3.7
11	24	8	15	74	29	52	3	12.6	16	2.3	5	2811	3.1
12	25	7	15	77	26	53	2	13.2	16	2.1	5	2815	3.1
13	25	6	15	74	26	52	2	14.2	16	2.2	5	2820	3.3
14	25	7	15	74	25	51	2	13.7	16	3.0	5	2825	3.6
15	23	6	14	74	25	50	0	13.4	16	2.6	4	2829	3.3
16	23	5	13	71	20	48	-1	14.2	15	2.3	4	2833	3.4
17	24	5	13	68	18	44	-2	13.6	15	2.6	4	2837	3.5
18	24	5	13	67	20	44	-1	14.1	15	2.2	4	2841	3.4
19	23	4	13	71	19	45	-2	14.2	14	2.2	4	2845	3.5
20	23	4	13	72	19	45	-1	13.2	14	2.4	4	2849	3.2
21	24	4	13	72	21	47	-1	13.2	14	2.1	4	2853	3.1
22	23	5	13	69	20	45	-1	12.8	14	2.2	4	2857	3.1
23	23	4	13	71	19	44	-2	13.0	14	2.4	4	2860	3.3
24	23	4	12	71	20	44	-2	13.2	14	2.3	3	2864	3.1
25	22	4	12	70	24	46	-2	12.0	13	2.3	3	2867	2.9
26	22	3	12	67	25	46	-2	11.9	13	2.6	3	2870	3.0
27	20	2	10	70	19	47	-5	13.0	12	2.2	2	2873	2.9
28	20	1	10	70	19	44	-4	12.5	12	2.3	2	2875	2.9
29	20	2	10	68	20	43	-5	12.5	12	2.5	2	2877	3.0
30	<u>21</u>	<u>3</u>	<u>11</u>	<u>69</u>	<u>19</u>	<u>46</u>	<u>-3</u>	<u>11.6</u>	<u>12</u>	<u>2.3</u>	<u>3</u>	<u>2880</u>	<u>2.7</u>
AVG	24	5	14	71	21	47	0	13.6	15	2.3	4		
SUM											127		100.9

PPT= 11.1

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10 Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	

**MARANA AGRICULTURAL CENTER
DECEMBER NORMALS**

<u>DAY</u>	<u>TX</u>	<u>TN</u>	<u>TM</u>	<u>RHX</u>	<u>RHN</u>	<u>RHM</u>	<u>TD</u>	<u>SR</u>	<u>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	21	2	11	73	24	48	-3	12.1	12	2.2	3	2883	2.8
2	21	3	11	70	26	48	-2	11.8	12	2.3	3	2886	2.7
3	21	3	11	73	21	49	-3	12.5	12	2.5	3	2888	2.9
4	21	2	11	77	26	52	-1	10.9	12	2.2	3	2891	2.4
5	20	3	11	76	32	55	-1	10.7	12	2.2	2	2893	2.3
6	21	4	11	77	28	56	-0	11.5	12	2.5	3	2896	2.6
7	21	3	11	76	31	57	-0	11.2	12	2.4	3	2899	2.3
8	20	3	11	75	31	54	-1	10.9	11	2.4	2	2901	2.3
9	20	2	10	74	27	53	-2	12.0	11	2.3	3	2904	2.7
10	20	3	11	74	28	52	-1	10.9	11	2.5	2	2906	2.5
11	19	3	10	79	30	57	0	11.4	11	2.3	2	2908	2.4
12	18	2	9	82	31	58	-1	10.9	11	2.4	2	2910	2.2
13	18	1	9	80	31	58	-2	11.8	10	2.2	2	2912	2.3
14	19	1	9	79	27	56	-2	11.7	10	2.2	2	2914	2.4
15	18	1	9	79	30	55	-3	10.6	10	2.4	2	2915	2.3
16	18	1	9	77	31	55	-2	10.4	10	2.3	2	2917	2.1
17	19	2	9	80	29	56	-2	10.6	10	2.4	2	2919	2.2
18	18	2	9	80	34	59	-0	11.3	10	2.3	2	2920	2.2
19	18	2	9	81	32	60	-1	10.2	10	2.4	1	2922	2.0
20	18	1	9	81	38	61	-1	10.8	10	2.3	1	2923	2.1
21	17	2	9	80	34	60	-1	10.5	10	2.5	1	2924	2.1
22	17	1	8	83	34	61	-1	10.6	9	2.3	1	2926	2.0
23	16	0	7	84	34	62	-2	11.0	9	2.2	1	2927	2.0
24	18	1	8	80	31	57	-2	11.0	9	2.1	1	2928	2.1
25	17	0	8	83	31	58	-2	11.4	9	2.1	1	2930	2.2
26	17	1	8	77	34	59	-2	10.7	9	2.3	1	2931	2.1
27	18	1	8	84	30	60	-2	11.6	9	2.1	1	2933	2.1
28	19	3	10	84	35	61	0	10.8	10	2.2	2	2934	2.1
29	19	3	10	83	36	62	1	10.4	10	2.2	2	2936	1.9
30	18	2	9	83	38	63	0	11.5	10	2.0	2	2938	2.1
<u>31</u>	<u>19</u>	<u>3</u>	<u>10</u>	<u>83</u>	<u>35</u>	<u>62</u>	<u>1</u>	<u>11.4</u>	<u>10</u>	<u>2.3</u>	<u>2</u>	<u>2940</u>	<u>2.3</u>
AVG	19	2	9	79	31	57	-1	11.1	10	2.3	2		
SUM											60		70.8

PPT= 29.1

TX: Maximum Air Temp., Deg. C	SR: Solar Radiation, MJ/m*m/Dy
TN: Minimum Air Temp., Deg. C	PPT: Precipitation, mm
TM: Mean Air Temp., Deg. C	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (30C/12.8C)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, mm.
TD: Mean Dew Point Temp., Deg. C	AVG: Average for Month
ST10: Mean Soil Temp., 10 cm, Deg. C	SUM: Total for Month
For Years 1987-2001	