

HARQUAHALA 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	70	36	52	87	25	55	32	286	53	4.1	5	5	0.10
2	71	36	52	87	20	53	29	292	54	4.2	5	10	0.10
3	69	37	53	74	25	48	28	266	53	5.1	5	14	0.10
4	69	32	49	74	20	47	23	284	52	3.0	4	18	0.08
5	66	33	49	76	19	45	23	284	52	4.5	3	21	0.09
6	65	35	48	77	17	44	23	288	51	4.3	3	24	0.09
7	66	30	46	83	17	48	23	310	50	3.0	3	27	0.09
8	65	27	46	84	20	50	22	274	50	4.2	3	29	0.10
9	64	31	47	79	26	54	24	274	50	3.4	2	32	0.08
10	64	31	47	85	39	61	29	229	52	2.9	2	34	0.06
11	69	35	49	85	28	58	31	292	52	4.0	4	38	0.09
12	65	36	49	88	38	66	33	236	52	4.1	3	40	0.07
13	67	34	49	90	36	66	33	293	52	4.0	3	44	0.08
14	68	34	49	85	25	59	27	318	51	3.7	4	48	0.10
15	67	30	48	89	25	59	27	289	52	2.6	3	51	0.08
16	67	38	50	85	28	60	31	267	53	3.6	4	55	0.08
17	69	36	51	89	27	59	32	306	53	3.1	5	60	0.09
18	71	35	52	91	21	57	31	316	53	2.7	5	65	0.10
19	72	36	52	88	23	57	32	315	55	3.2	6	71	0.10
20	71	40	55	87	23	55	34	308	55	3.7	5	76	0.11
21	69	39	54	86	22	52	32	312	54	4.6	5	81	0.12
22	68	36	51	86	21	51	29	287	54	3.2	4	84	0.09
23	70	33	50	87	19	52	28	337	55	2.3	4	89	0.10
24	72	37	53	87	21	53	31	309	55	2.8	5	94	0.10
25	69	39	54	89	23	54	33	254	55	4.5	5	99	0.09
26	65	38	51	95	34	65	35	293	54	4.9	3	102	0.10
27	65	37	49	92	31	67	33	297	53	3.5	3	105	0.09
28	66	34	49	92	28	62	30	303	53	4.8	3	108	0.10
29	67	32	50	88	22	53	27	363	54	3.7	3	111	0.12
30	69	37	52	81	18	47	27	346	54	4.7	4	116	0.13
<u>31</u>	<u>69</u>	<u>34</u>	<u>50</u>	<u>89</u>	<u>19</u>	<u>54</u>	<u>28</u>	<u>328</u>	<u>54</u>	<u>3.0</u>	<u>4</u>	<u>120</u>	<u>0.10</u>
AVG	68	35	50	86	25	55	29	295	53	3.7	4		
SUM											120		2.93

PPT= 0.29

TX: Maximum Air Temp., Deg. F	SR: Solar Radiation, Langleys/Day
TN: Minimum Air Temp., Deg. F	PPT: Precipitation, In.
TM: Mean Air Temp., Deg. F	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (86F/55F)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, In.
TD: Mean Dew Point Temp., Deg. F	AVG: Average for Month
ST4: Mean Soil Temp., 4", Deg. F	SUM: Total for Month

For Years 1996-2001

HARQUAHALA FEBRUARY 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	71	34	52	87	16	49	26	382	53	3.7	5	125	0.13
2	71	33	51	87	18	49	27	363	54	3.8	5	129	0.13
3	73	35	53	83	15	46	26	351	54	4.5	6	135	0.13
4	69	37	52	89	23	58	30	285	54	3.8	4	139	0.09
5	70	36	52	91	30	63	33	356	54	2.7	5	144	0.10
6	68	36	52	85	27	59	30	386	55	4.2	4	148	0.12
7	69	37	52	86	23	56	30	391	55	3.9	4	152	0.13
8	66	38	52	82	33	56	31	277	55	4.2	4	155	0.09
9	69	37	52	86	25	56	30	386	54	3.9	4	160	0.13
10	66	35	51	87	20	50	27	418	54	6.4	3	163	0.16
11	65	36	50	78	23	51	27	373	53	3.8	3	166	0.12
12	69	33	51	85	20	52	27	382	54	4.4	4	170	0.14
13	67	38	52	80	26	53	30	342	54	6.2	4	173	0.11
14	67	35	51	88	29	58	30	345	55	3.3	4	177	0.11
15	70	37	52	83	22	56	29	415	55	4.3	5	182	0.14
16	70	39	53	83	19	52	29	347	56	3.8	5	187	0.12
17	67	41	54	85	26	54	32	311	56	6.3	5	191	0.12
18	69	38	53	87	25	57	32	404	57	3.6	4	196	0.13
19	71	39	56	83	24	52	31	397	58	3.6	6	202	0.14
20	71	40	56	80	25	51	31	359	58	5.0	6	207	0.13
21	69	39	55	83	33	57	33	350	58	5.1	5	212	0.12
22	70	38	54	81	24	54	29	438	58	3.3	5	217	0.15
23	70	37	54	80	22	50	28	432	57	4.6	5	221	0.15
24	66	38	52	80	22	52	28	396	57	6.0	3	225	0.14
25	67	36	52	90	21	54	29	430	57	5.4	3	228	0.16
26	68	39	52	86	22	56	31	384	56	3.3	4	232	0.12
27	67	37	52	93	26	60	31	337	57	4.6	4	236	0.11
28	66	41	53	82	29	55	32	425	58	5.0	4	240	0.14
AVG	69	37	53	85	24	54	30	374	55	4.4	4		
SUM											120		3.54

PPT= 0.96

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month

For Years 1996-2001

HARQUAHALA 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	70	39	54	85	21	51	30	491	59	3.8	5	244	0.17
2	73	35	54	90	15	54	28	500	60	2.4	6	250	0.16
3	76	36	56	87	15	50	29	504	60	3.2	7	257	0.18
4	71	40	57	84	22	50	33	433	60	5.6	5	262	0.17
5	71	41	56	84	26	55	34	402	59	4.6	6	268	0.14
6	69	43	56	87	34	58	35	347	58	6.3	5	273	0.13
7	65	41	53	83	32	59	33	409	58	6.5	3	276	0.14
8	70	36	53	88	30	60	32	486	61	3.1	5	281	0.15
9	76	38	57	82	20	50	29	512	61	3.3	7	288	0.17
10	76	39	58	77	15	44	26	490	62	4.7	8	296	0.17
11	78	41	60	78	16	43	30	492	64	4.2	9	304	0.18
12	79	41	61	81	15	44	31	522	65	4.0	9	313	0.19
13	79	42	61	82	15	44	32	486	64	3.9	9	322	0.18
14	77	42	60	89	17	50	32	441	64	3.9	8	330	0.16
15	76	45	60	87	24	53	35	481	65	4.5	8	338	0.18
16	76	44	60	88	20	52	35	528	66	4.1	8	346	0.20
17	76	47	61	86	21	49	36	502	66	4.8	9	355	0.20
18	82	42	63	81	12	41	30	571	68	4.2	10	365	0.22
19	84	42	64	75	10	36	29	577	68	3.6	11	376	0.24
20	84	44	64	76	9	38	29	549	68	5.1	11	387	0.24
21	83	42	63	79	13	41	30	545	69	3.5	11	398	0.21
22	84	45	64	71	10	37	29	533	69	3.1	12	409	0.20
23	83	45	65	68	11	35	29	574	69	4.9	11	420	0.24
24	82	43	64	75	12	39	31	551	69	4.6	10	431	0.21
25	81	45	64	60	10	30	26	585	68	5.7	10	441	0.26
26	77	46	62	69	16	40	30	537	68	5.4	9	450	0.22
27	79	44	62	77	17	43	33	511	68	5.2	9	459	0.21
28	79	45	63	74	23	43	34	519	68	5.3	10	469	0.22
29	79	44	62	72	18	42	32	557	68	4.8	10	478	0.23
30	78	42	62	73	12	38	28	596	68	6.3	9	487	0.26
<u>31</u>	<u>76</u>	<u>44</u>	<u>61</u>	<u>67</u>	<u>15</u>	<u>38</u>	<u>29</u>	<u>557</u>	<u>67</u>	<u>6.6</u>	<u>8</u>	<u>495</u>	<u>0.24</u>
AVG	77	42	60	79	18	45	31	509	65	4.6	8		
SUM											256		6.06

PPT= 0.59

TX: Maximum Air Temp., Deg. F	SR: Solar Radiation, Langley's/Day
TN: Minimum Air Temp., Deg. F	PPT: Precipitation, In.
TM: Mean Air Temp., Deg. F	WS: Mean Wind Speed, MPH
RHX: Maximum Relative Humidity, %	HU: Heat Units (86F/55F)/Day
RHN: Minimum Relative Humidity, %	CHU: HU Accumulation Since 1 Jan.
RHM: Mean Relative Humidity, %	ETo: Ref. Evapotranspiration, In.
TD: Mean Dew Point Temp., Deg. F	AVG: Average for Month
ST4: Mean Soil Temp., 4", Deg. F	SUM: Total for Month

For Years 1996-2001

HARQUAHALA APRIL 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	72	43	59	80	22	45	31	476	66	5.5	6	502	0.19
2	72	41	58	83	21	50	32	558	65	6.1	6	508	0.21
3	72	45	59	84	29	57	37	491	65	5.5	7	515	0.18
4	73	43	59	84	24	51	34	531	66	4.9	7	521	0.19
5	75	44	60	82	21	49	33	547	68	5.3	8	529	0.21
6	77	45	62	79	16	45	32	630	68	6.2	9	538	0.27
7	77	43	61	81	18	46	33	578	69	5.2	8	546	0.23
8	80	43	62	76	13	39	29	640	70	4.3	10	556	0.25
9	80	43	63	67	9	32	25	651	69	6.6	10	566	0.29
10	78	43	62	71	12	36	27	631	70	5.7	9	575	0.26
11	79	44	62	70	11	36	28	656	70	6.2	9	584	0.29
12	78	45	62	80	15	41	33	621	70	5.9	9	593	0.26
13	80	44	63	75	14	38	30	655	71	4.9	10	603	0.27
14	80	45	64	69	10	33	27	646	71	5.9	11	613	0.28
15	82	43	63	69	9	31	25	641	72	4.4	10	624	0.27
16	85	41	65	66	7	28	22	670	73	3.9	11	635	0.28
17	88	44	68	66	6	29	25	670	74	5.1	13	648	0.30
18	87	47	68	70	11	34	31	652	75	5.1	13	661	0.28
19	87	49	69	70	10	33	32	603	75	4.4	14	676	0.26
20	88	47	69	65	8	30	28	657	75	5.1	14	689	0.30
21	86	51	69	69	13	35	33	587	75	6.6	14	703	0.29
22	86	48	68	73	15	39	35	672	76	6.0	13	716	0.29
23	87	48	69	72	11	34	32	680	76	5.7	13	730	0.31
24	84	49	68	66	12	32	31	664	76	5.6	12	742	0.29
25	89	49	70	74	13	36	34	670	78	4.9	13	755	0.28
26	92	50	73	70	9	32	33	679	80	3.8	16	770	0.29
27	94	55	76	62	10	29	35	690	80	4.6	18	788	0.32
28	92	54	75	60	7	26	31	677	78	6.2	17	805	0.34
29	86	52	70	61	10	29	31	648	78	5.9	15	820	0.31
<u>30</u>	<u>88</u>	<u>51</u>	<u>70</u>	<u>62</u>	<u>9</u>	<u>30</u>	<u>28</u>	<u>657</u>	<u>78</u>	<u>4.5</u>	<u>15</u>	<u>835</u>	<u>0.29</u>
AVG	82	46	66	72	13	37	31	628	73	5.3	11		
SUM											339		8.10

PPT= 0.35

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month

For Years 1996-2001

HARQUAHALA 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	91	49	71	64	8	30	29	707	79	4.7	15	850	0.32
2	92	48	73	63	7	26	28	704	79	5.1	15	865	0.33
3	88	53	72	58	12	27	32	655	80	5.7	15	880	0.31
4	90	52	72	65	10	31	33	703	80	4.8	16	896	0.31
5	92	52	74	65	10	30	32	694	81	4.8	16	912	0.32
6	93	52	75	66	9	28	33	713	82	4.5	17	928	0.33
7	95	52	75	65	9	30	34	712	83	4.5	17	945	0.33
8	94	57	77	63	10	32	36	689	83	4.9	18	964	0.33
9	94	57	77	61	10	30	36	718	84	5.1	19	982	0.34
10	94	58	77	58	10	30	36	709	84	5.7	19	1001	0.34
11	92	55	75	62	10	30	35	700	84	4.8	17	1019	0.32
12	94	55	76	62	12	29	35	693	84	4.7	17	1036	0.32
13	93	56	76	60	11	30	34	668	84	5.6	18	1054	0.32
14	94	56	76	63	10	29	35	710	84	4.5	18	1072	0.33
15	94	55	76	63	7	27	32	702	84	4.7	18	1090	0.33
16	93	56	76	64	8	29	35	726	85	5.0	18	1108	0.34
17	95	56	78	66	9	28	36	714	86	3.8	19	1127	0.32
18	96	57	78	69	9	32	39	665	85	4.0	19	1147	0.30
19	94	61	78	67	12	33	42	636	85	5.7	21	1167	0.31
20	94	58	78	73	13	35	42	629	86	4.6	19	1186	0.29
21	96	57	77	70	8	33	38	728	86	3.8	20	1206	0.32
22	96	54	77	67	8	29	35	736	86	4.7	18	1224	0.35
23	95	58	78	67	10	31	39	715	86	5.2	19	1243	0.33
24	95	58	78	67	10	31	39	725	86	5.3	19	1263	0.33
25	91	58	76	65	13	33	40	739	86	5.6	18	1281	0.33
26	92	59	76	68	16	36	43	671	87	4.9	18	1299	0.30
27	96	58	78	71	12	35	42	698	88	3.7	19	1318	0.31
28	99	58	80	71	10	32	41	727	88	4.0	20	1338	0.33
29	99	59	81	64	9	30	39	718	89	4.3	21	1359	0.34
30	99	61	81	65	8	30	40	708	89	4.4	21	1380	0.34
<u>31</u>	<u>99</u>	<u>61</u>	<u>81</u>	<u>58</u>	<u>8</u>	<u>27</u>	<u>38</u>	<u>746</u>	<u>89</u>	<u>4.2</u>	<u>22</u>	<u>1402</u>	<u>0.35</u>
AVG	94	56	77	65	10	30	36	702	85	4.7	18		
SUM											567		10.07

PPT= 0.01

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month
For Years 1996-2001			

HARQUAHALA JUNE 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	99	59	81	63	9	28	39	721	89	4.6	21	1423	0.35
2	97	60	80	67	10	33	40	733	88	4.7	21	1443	0.34
3	95	57	78	66	9	30	36	754	88	5.3	18	1462	0.36
4	95	56	77	65	10	31	36	756	88	3.8	18	1479	0.33
5	97	57	79	66	9	31	37	716	89	3.8	19	1499	0.32
6	98	57	79	67	9	31	38	733	89	4.0	19	1518	0.33
7	98	58	80	67	9	31	39	741	89	4.7	19	1538	0.35
8	97	61	80	67	11	31	41	739	89	4.8	21	1558	0.35
9	98	59	80	67	10	29	40	742	89	4.7	20	1579	0.35
10	97	60	80	61	9	27	39	751	89	4.7	21	1600	0.34
11	98	58	80	61	9	27	38	726	90	4.4	20	1620	0.33
12	98	61	81	59	8	27	38	745	90	6.1	21	1641	0.38
13	99	60	81	61	8	28	38	743	91	5.1	21	1662	0.35
14	100	62	83	63	10	27	41	745	91	5.2	22	1684	0.37
15	101	62	84	65	10	30	42	732	92	4.8	22	1706	0.36
16	102	63	84	63	10	28	43	727	93	5.3	23	1729	0.37
17	104	64	85	61	9	27	42	737	93	4.1	23	1752	0.36
18	105	64	86	61	9	26	42	742	94	4.7	24	1776	0.37
19	105	64	86	62	10	29	43	724	94	4.8	24	1799	0.36
20	104	65	87	63	13	31	47	702	94	5.1	24	1823	0.34
21	103	69	87	61	11	30	46	712	93	5.0	25	1849	0.34
22	101	67	85	56	12	28	44	718	93	5.2	24	1873	0.34
23	101	67	85	56	10	28	42	698	93	5.7	24	1897	0.35
24	102	63	85	63	9	27	41	733	93	4.1	23	1920	0.34
25	101	65	85	57	9	28	42	673	93	5.2	24	1944	0.33
26	103	66	86	57	10	27	43	728	93	5.2	24	1968	0.36
27	103	66	86	57	10	27	43	694	94	5.1	24	1992	0.34
28	102	66	86	61	12	28	45	730	94	4.9	24	2016	0.36
29	105	66	86	62	10	29	44	729	95	4.7	24	2040	0.36
30	106	66	88	63	10	28	45	739	96	4.6	25	2064	0.37
AVG	101	62	83	62	10	29	41	729	92	4.8	22		
SUM											663		10.51

PPT= 0.19

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month
For Years 1996-2001			

HARQUAHALA JULY 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	108	69	90	54	9	26	44	710	97	5.1	26	2090	0.37
2	109	71	91	56	9	25	47	725	97	4.6	27	2117	0.37
3	107	71	91	55	10	24	47	708	97	5.9	27	2143	0.37
4	105	70	89	58	13	31	48	696	97	5.1	26	2169	0.35
5	103	72	89	64	18	37	53	660	96	5.4	27	2196	0.33
6	102	73	87	75	22	45	58	611	96	5.1	27	2222	0.30
7	102	75	88	76	22	46	60	669	95	5.0	28	2250	0.32
8	102	74	87	74	23	47	59	565	96	5.1	27	2277	0.27
9	103	73	89	68	17	39	55	693	97	5.0	27	2305	0.35
10	104	72	89	72	17	38	56	676	96	5.0	27	2331	0.33
11	103	74	89	64	18	37	55	629	96	4.8	28	2359	0.32
12	105	73	89	63	14	33	52	649	96	5.0	27	2386	0.33
13	105	73	90	67	14	35	53	603	96	3.7	27	2414	0.29
14	106	74	90	64	16	34	54	582	96	4.7	28	2441	0.30
15	107	72	91	68	15	33	51	704	96	5.8	27	2468	0.36
16	105	72	89	65	14	34	51	657	96	5.0	27	2495	0.34
17	105	74	91	64	13	32	53	661	97	5.2	27	2522	0.35
18	106	72	91	62	15	31	52	688	97	5.6	27	2549	0.36
19	106	73	91	63	14	31	52	707	97	5.1	27	2577	0.36
20	105	72	90	65	15	34	53	686	97	5.4	27	2604	0.36
21	102	75	89	67	21	40	58	627	97	5.9	28	2631	0.32
22	103	73	89	72	19	40	57	635	97	5.4	27	2659	0.32
23	105	75	90	68	17	40	56	656	98	5.1	28	2686	0.33
24	107	74	91	70	14	37	56	679	98	4.8	28	2714	0.34
25	107	75	92	68	16	35	57	674	98	5.0	28	2742	0.35
26	106	75	91	74	14	36	57	631	97	5.4	28	2770	0.33
27	105	75	90	74	18	39	59	560	97	4.1	28	2798	0.28
28	105	76	90	71	19	41	58	611	96	6.1	28	2826	0.32
29	101	74	88	77	25	49	61	561	97	4.9	27	2854	0.27
30	105	75	90	80	19	46	62	654	98	4.6	28	2882	0.31
31	107	75	92	67	14	34	56	675	99	4.4	28	2910	0.34
AVG	105	73	90	67	16	36	55	653	97	5.1	27		
SUM											845		10.27

PPT= 0.72

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month
For Years 1996-2001			

HARQUAHALA 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	108	76	93	64	14	34	56	657	99	5.0	28	2938	0.34
2	106	80	93	60	17	35	59	588	97	5.7	30	2968	0.32
3	105	77	91	69	19	41	59	602	98	5.4	28	2996	0.31
4	108	76	92	68	16	38	58	660	98	5.3	28	3025	0.34
5	106	77	92	66	16	37	58	651	97	5.7	29	3053	0.34
6	104	76	90	71	17	38	59	648	96	5.6	28	3082	0.33
7	105	74	90	64	16	36	55	640	96	5.9	28	3109	0.34
8	104	71	88	74	17	38	55	616	94	5.4	26	3136	0.30
9	100	72	87	74	23	45	57	574	95	5.2	26	3162	0.28
10	102	77	89	73	22	46	61	604	96	5.5	28	3190	0.30
11	104	74	90	72	17	40	58	621	96	4.8	27	3218	0.30
12	104	75	89	71	19	43	58	611	95	4.6	28	3246	0.30
13	104	75	90	78	19	43	60	551	96	4.2	28	3273	0.27
14	105	77	90	66	19	41	59	585	97	4.9	29	3302	0.29
15	105	76	90	80	19	46	63	626	96	6.7	28	3330	0.32
16	105	75	90	78	17	43	61	598	97	4.7	28	3359	0.29
17	105	75	90	74	19	41	60	619	96	6.4	28	3387	0.32
18	103	76	89	72	21	43	61	592	97	5.0	28	3415	0.30
19	104	76	90	73	19	41	61	614	97	4.7	28	3444	0.31
20	105	75	90	73	19	41	60	637	97	4.2	28	3472	0.31
21	105	77	91	66	16	36	58	605	98	4.6	29	3500	0.31
22	106	76	92	66	15	32	56	622	97	4.8	28	3529	0.32
23	106	75	90	70	16	39	57	561	97	4.8	28	3556	0.29
24	104	77	91	69	18	38	58	550	97	5.3	28	3585	0.28
25	106	75	91	73	17	38	58	608	98	4.5	28	3613	0.31
26	106	76	92	62	18	35	57	591	97	4.6	28	3641	0.31
27	103	74	88	78	24	47	62	498	95	5.0	28	3669	0.25
28	103	74	88	80	23	49	62	547	95	5.0	27	3696	0.27
29	99	76	88	74	28	49	63	526	94	5.3	27	3723	0.27
30	101	74	87	82	27	52	64	542	93	5.7	27	3751	0.27
31	101	73	86	85	22	52	62	568	90	5.3	27	3777	0.27
AVG	104	75	90	72	19	41	59	597	96	5.1	28		
SUM											868		9.36

PPT= 1.07

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month
For Years 1996-2001			

HARQUAHALA 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	96	72	83	80	27	55	60	435	91	5.0	26	3803	0.21
2	100	70	84	79	19	47	57	527	92	4.8	26	3828	0.26
3	99	70	85	74	20	41	56	533	92	4.5	26	3854	0.26
4	101	68	84	73	19	46	54	583	92	3.9	25	3879	0.27
5	101	68	85	78	20	43	55	551	92	4.8	25	3904	0.27
6	100	72	85	73	21	44	57	519	93	4.7	26	3930	0.25
7	104	70	86	75	15	39	54	582	93	3.6	26	3956	0.28
8	104	69	86	70	15	36	52	581	92	3.8	25	3982	0.28
9	101	69	85	72	18	40	54	481	93	4.7	25	4007	0.24
10	102	70	86	79	23	47	59	538	92	4.0	26	4033	0.25
11	98	72	85	86	28	53	63	452	92	5.4	26	4059	0.22
12	102	70	85	84	23	51	60	546	93	3.4	26	4085	0.24
13	103	70	86	78	19	44	57	543	93	3.8	26	4111	0.26
14	102	70	86	80	21	45	58	510	92	4.8	26	4137	0.25
15	100	69	84	80	19	44	56	541	92	4.7	25	4162	0.27
16	100	70	85	73	17	41	55	553	92	5.2	26	4187	0.28
17	100	67	84	76	17	42	53	546	92	4.2	24	4212	0.26
18	100	66	83	74	16	40	51	538	91	3.9	24	4235	0.26
19	100	65	82	72	18	42	51	534	91	4.5	23	4259	0.26
20	99	66	82	74	16	40	51	545	89	4.4	24	4282	0.26
21	97	63	80	70	17	40	49	513	89	4.3	22	4305	0.25
22	97	64	80	71	17	39	49	524	88	4.8	22	4327	0.25
23	94	61	78	76	21	44	48	504	87	3.9	20	4347	0.22
24	94	61	78	73	17	40	47	485	86	4.4	21	4368	0.24
25	93	62	77	71	22	47	49	428	86	5.7	21	4389	0.20
26	96	63	79	78	21	47	51	505	87	4.2	22	4411	0.23
27	97	63	79	76	17	43	49	517	87	3.9	22	4433	0.24
28	99	60	79	77	12	39	45	519	86	3.3	21	4454	0.24
29	98	59	78	75	12	37	44	524	86	3.5	21	4475	0.24
<u>30</u>	<u>98</u>	<u>59</u>	<u>78</u>	<u>78</u>	<u>13</u>	<u>40</u>	<u>46</u>	<u>505</u>	<u>86</u>	<u>3.8</u>	<u>21</u>	<u>4496</u>	<u>0.24</u>
AVG	99	67	83	76	19	43	53	522	90	4.3	24		
SUM											718		7.47

PPT= 0.52

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month

For Years 1996-2001

HARQUAHALA 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	97	61	78	77	13	40	46	462	86	3.3	21	4517	0.21
2	95	60	78	77	18	41	48	467	86	3.7	21	4538	0.22
3	95	63	79	72	16	42	48	481	85	4.6	22	4559	0.23
4	94	58	76	80	15	44	46	491	84	3.8	19	4579	0.22
5	95	57	76	76	14	40	44	500	84	3.6	19	4598	0.23
6	94	57	75	76	14	40	43	486	83	4.4	19	4617	0.23
7	91	57	73	70	18	40	43	447	82	5.0	18	4635	0.21
8	92	57	73	76	16	40	43	472	81	4.1	18	4653	0.22
9	93	55	73	77	16	41	42	460	81	4.7	18	4670	0.21
10	94	54	72	79	11	39	40	479	79	4.3	17	4688	0.22
11	89	50	70	69	12	34	34	467	78	4.2	14	4701	0.21
12	90	49	69	74	10	34	34	475	78	4.1	14	4715	0.22
13	92	49	70	67	9	30	32	473	78	3.3	15	4731	0.21
14	93	47	70	70	8	32	32	463	77	2.9	15	4746	0.20
15	90	49	69	70	12	36	35	448	77	3.6	15	4761	0.19
16	89	49	68	75	10	36	34	452	76	4.6	14	4776	0.22
17	88	50	69	60	10	28	31	457	76	5.1	15	4790	0.23
18	90	47	68	66	12	35	33	432	76	2.8	15	4805	0.18
19	89	49	68	76	12	37	36	413	75	3.1	15	4820	0.18
20	88	50	68	69	12	37	35	435	74	4.1	15	4835	0.20
21	86	49	67	74	18	39	37	387	73	5.2	13	4848	0.18
22	81	54	67	67	25	44	38	375	72	6.5	13	4861	0.17
23	83	47	65	74	20	45	35	386	72	4.3	12	4872	0.16
24	83	46	64	76	17	43	34	400	71	3.2	12	4884	0.16
25	82	45	63	69	16	37	31	387	70	3.5	11	4895	0.16
26	82	45	63	71	16	39	32	389	70	4.3	10	4905	0.17
27	79	47	63	75	22	44	36	338	69	3.5	10	4915	0.13
28	79	45	61	79	21	47	36	386	68	2.7	10	4925	0.14
29	80	43	60	76	17	45	32	372	67	3.6	10	4934	0.15
30	78	43	60	74	21	45	32	343	67	4.2	9	4943	0.14
<u>31</u>	<u>80</u>	<u>43</u>	<u>61</u>	<u>75</u>	<u>18</u>	<u>43</u>	<u>32</u>	<u>395</u>	<u>67</u>	<u>3.8</u>	<u>10</u>	<u>4953</u>	<u>0.16</u>
AVG	88	51	69	73	15	39	37	433	76	4.0	15		
SUM											458		5.95

PPT= 0.48

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month
For Years 1996-2001			

HARQUAHALA NOVEMBER 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	80	41	60	78	17	45	33	389	67	2.8	10	4963	0.14
2	81	41	61	74	17	42	32	376	67	2.7	10	4973	0.15
3	83	44	63	68	15	38	31	359	68	3.6	11	4984	0.14
4	80	47	62	74	21	43	36	309	67	3.5	11	4994	0.12
5	80	42	60	81	21	48	35	372	66	3.1	10	5004	0.14
6	80	41	59	77	17	46	32	345	65	3.4	10	5014	0.13
7	77	42	59	74	16	40	31	343	64	4.5	8	5022	0.15
8	77	40	59	71	19	41	30	351	65	3.8	8	5030	0.14
9	77	41	59	68	16	40	28	367	64	5.0	8	5038	0.16
10	77	41	58	69	17	40	29	315	64	3.0	8	5047	0.12
11	76	41	58	74	20	43	31	286	64	2.9	8	5054	0.11
12	76	43	58	75	20	46	33	282	63	3.3	8	5062	0.10
13	78	40	58	77	17	45	30	337	63	3.3	8	5071	0.13
14	77	39	57	76	18	47	30	324	62	2.9	8	5079	0.12
15	78	37	56	76	16	44	29	332	62	2.5	8	5087	0.12
16	77	38	56	78	17	44	30	337	62	3.2	8	5095	0.12
17	75	38	55	78	15	43	29	332	61	3.2	7	5102	0.12
18	74	36	54	71	16	39	27	332	60	2.8	6	5108	0.12
19	77	35	54	76	15	41	27	319	60	2.2	8	5116	0.11
20	77	38	55	72	13	39	26	319	60	3.0	8	5124	0.12
21	75	37	55	71	15	37	26	292	60	3.5	7	5130	0.12
22	74	37	54	69	14	36	24	307	59	5.1	6	5136	0.14
23	74	35	53	70	11	33	22	328	58	4.3	6	5142	0.14
24	73	32	52	72	13	35	21	299	58	3.1	5	5148	0.11
25	73	36	53	78	14	42	25	288	58	3.3	6	5154	0.10
26	75	37	53	74	14	40	25	282	58	3.4	7	5160	0.10
27	71	35	52	71	16	40	23	304	58	3.8	5	5165	0.11
28	71	37	52	77	19	45	27	278	57	3.4	5	5170	0.10
29	70	37	52	79	24	52	29	274	57	2.9	5	5175	0.09
<u>30</u>	<u>70</u>	<u>35</u>	<u>51</u>	<u>81</u>	<u>26</u>	<u>56</u>	<u>31</u>	<u>245</u>	<u>57</u>	<u>2.2</u>	<u>5</u>	<u>5180</u>	<u>0.07</u>
AVG	76	39	56	74	17	42	29	321	62	3.3	8		
SUM											226		3.62

PPT= 0.09

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month

For Years 1996-2001

HARQUAHALA 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>ST4</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	70	37	52	89	28	60	34	276	57	3.0	5	5184	0.09
2	69	38	52	84	28	59	33	270	56	3.4	4	5188	0.09
3	68	33	50	83	26	56	29	304	55	3.9	4	5192	0.11
4	66	32	49	85	28	58	29	268	54	3.8	3	5195	0.08
5	67	31	47	84	23	52	27	301	52	3.5	4	5198	0.10
6	64	30	46	87	25	57	25	218	54	3.2	3	5201	0.06
7	68	36	51	83	27	56	29	272	54	3.4	4	5206	0.09
8	65	34	50	78	21	48	25	299	51	5.7	3	5208	0.12
9	63	31	47	80	23	48	24	280	52	5.7	2	5210	0.11
10	63	35	49	75	23	44	26	274	51	5.5	2	5213	0.10
11	61	34	47	76	25	51	25	261	50	6.0	2	5214	0.10
12	63	29	45	83	23	52	23	281	50	4.1	2	5216	0.09
13	66	28	44	87	18	53	22	297	50	2.8	3	5219	0.09
14	65	30	46	85	18	50	23	272	50	4.0	3	5222	0.09
15	64	29	46	85	22	53	23	262	51	4.9	2	5224	0.09
16	69	30	49	77	14	41	20	303	51	4.5	4	5228	0.12
17	72	30	49	73	13	41	21	295	52	3.2	5	5233	0.10
18	68	33	49	75	19	44	23	292	51	4.0	4	5237	0.11
19	68	32	49	77	22	50	23	240	52	4.8	4	5241	0.09
20	68	34	50	81	24	48	27	273	51	4.8	4	5244	0.10
21	63	32	48	78	25	49	24	275	51	5.4	2	5246	0.10
22	61	33	46	75	29	51	24	264	50	5.2	2	5248	0.09
23	63	29	45	78	26	51	23	292	49	3.5	2	5250	0.09
24	65	30	46	78	19	48	22	288	49	4.1	3	5253	0.10
25	63	30	46	71	17	41	19	308	49	5.5	2	5255	0.12
26	65	32	46	74	18	43	22	293	49	4.1	3	5258	0.10
27	66	28	45	75	17	46	20	305	50	3.0	3	5260	0.10
28	69	30	47	75	14	42	21	264	51	2.9	4	5264	0.09
29	68	32	49	77	18	44	24	243	52	2.7	4	5268	0.08
30	72	33	50	82	20	49	28	296	53	2.5	5	5273	0.09
<u>31</u>	<u>70</u>	<u>34</u>	<u>50</u>	<u>84</u>	<u>23</u>	<u>53</u>	<u>29</u>	<u>282</u>	<u>53</u>	<u>3.4</u>	<u>5</u>	<u>5277</u>	<u>0.09</u>
AVG	66	32	48	80	22	50	25	279	52	4.1	3		
SUM											98		2.96

PPT= 0.45

TX:	Maximum Air Temp., Deg. F	SR:	Solar Radiation, Langleys/Day
TN:	Minimum Air Temp., Deg. F	PPT:	Precipitation, In.
TM:	Mean Air Temp., Deg. F	WS:	Mean Wind Speed, MPH
RHX:	Maximum Relative Humidity, %	HU:	Heat Units (86F/55F)/Day
RHN:	Minimum Relative Humidity, %	CHU:	HU Accumulation Since 1 Jan.
RHM:	Mean Relative Humidity, %	ETo:	Ref. Evapotranspiration, In.
TD:	Mean Dew Point Temp., Deg. F	AVG:	Average for Month
ST4:	Mean Soil Temp., 4", Deg. F	SUM:	Total for Month
For Years 1996-2001			