

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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	21	2	11	87	25	55	0	12.0	12	1.8	3	3	2.6
2	22	2	11	87	20	53	-1	12.2	12	1.9	3	5	2.6
3	21	3	12	74	25	48	-2	11.1	11	2.3	3	8	2.4
4	20	0	10	74	20	47	-5	11.9	11	1.4	2	10	2.1
5	19	0	9	76	19	45	-5	11.9	11	2.0	2	12	2.3
6	19	2	9	77	17	44	-5	12.1	10	1.9	2	13	2.3
7	19	-1	8	83	17	48	-5	13.0	10	1.3	2	15	2.4
8	18	-3	8	84	20	50	-6	11.5	10	1.9	1	16	2.5
9	18	-1	8	79	26	54	-4	11.5	10	1.5	1	18	2.0
10	18	0	8	85	39	61	-1	9.6	11	1.3	1	19	1.5
11	20	2	10	85	28	58	-1	12.2	11	1.8	2	21	2.3
12	18	2	10	88	38	66	1	9.9	11	1.8	1	22	1.7
13	19	1	9	90	36	66	1	12.3	11	1.8	2	24	2.0
14	20	1	10	85	25	59	-3	13.3	10	1.6	2	27	2.5
15	19	-1	9	89	25	59	-3	12.1	11	1.2	2	28	2.1
16	20	3	10	85	28	60	-1	11.2	11	1.6	2	31	2.0
17	20	2	11	89	27	59	0	12.8	12	1.4	3	33	2.2
18	22	2	11	91	21	57	-1	13.2	12	1.2	3	36	2.4
19	22	2	11	88	23	57	0	13.2	13	1.4	3	39	2.6
20	22	4	13	87	23	55	1	12.9	13	1.7	3	42	2.7
21	21	4	12	86	22	52	0	13.1	12	2.1	3	45	3.0
22	20	2	11	86	21	51	-2	12.0	12	1.4	2	47	2.4
23	21	1	10	87	19	52	-2	14.1	13	1.0	2	49	2.6
24	22	3	12	87	21	53	0	13.0	13	1.3	3	52	2.5
25	21	4	12	89	23	54	0	10.6	13	2.0	3	55	2.3
26	18	4	11	95	34	65	2	12.3	12	2.2	2	56	2.5
27	18	3	10	92	31	67	1	12.4	12	1.6	2	58	2.2
28	19	1	9	92	28	62	-1	12.7	12	2.1	2	60	2.6
29	20	0	10	88	22	53	-3	15.2	12	1.7	2	62	3.0
30	20	3	11	81	18	47	-3	14.5	12	2.1	2	<u>64</u>	3.2
31	<u>21</u>	<u>1</u>	<u>10</u>	<u>89</u>	<u>19</u>	<u>54</u>	<u>-2</u>	<u>13.7</u>	<u>12</u>	<u>1.4</u>	<u>2</u>	<u>67</u>	<u>2.6</u>
AVG	20	2	10	86	25	55	-2	12.4	12	1.7	2		
SUM											67		74.4

PPT= 7.4

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	22	1	11	87	16	49	-3	16.0	12	1.7	3	69	3.3
2	21	1	11	87	18	49	-3	15.2	12	1.7	3	72	3.2
3	23	1	12	83	15	46	-3	14.7	12	2.0	3	75	3.2
4	21	3	11	89	23	58	-1	11.9	12	1.7	2	77	2.2
5	21	2	11	91	30	63	1	14.9	12	1.2	3	80	2.7
6	20	2	11	85	27	59	-1	16.2	13	1.9	2	82	3.0
7	20	3	11	86	23	56	-1	16.4	13	1.7	2	84	3.3
8	19	3	11	82	33	56	0	11.6	13	1.9	2	86	2.3
9	20	3	11	86	25	56	-1	16.2	12	1.7	2	89	3.2
10	19	2	10	87	20	50	-3	17.5	12	2.9	2	91	4.0
11	18	2	10	78	23	51	-3	15.6	12	1.7	2	92	3.1
12	21	1	11	85	20	52	-3	16.0	12	2.0	2	94	3.4
13	19	4	11	80	26	53	-1	14.3	12	2.8	2	96	2.8
14	20	2	11	88	29	58	-1	14.4	13	1.5	2	98	2.7
15	21	3	11	83	22	56	-2	17.4	13	1.9	3	101	3.5
16	21	4	12	83	19	52	-1	14.5	13	1.7	3	104	3.0
17	19	5	12	85	26	54	0	13.0	13	2.8	3	106	3.0
18	21	3	12	87	25	57	0	16.9	14	1.6	2	109	3.2
19	22	4	13	83	24	52	-1	16.6	14	1.6	3	112	3.6
20	22	5	13	80	25	51	-1	15.0	14	2.2	3	115	3.2
21	21	4	13	83	33	57	0	14.7	14	2.3	3	118	3.1
22	21	4	12	81	24	54	-2	18.3	14	1.5	3	120	3.8
23	21	3	12	80	22	50	-2	18.1	14	2.1	3	123	3.9
24	19	3	11	80	22	52	-2	16.6	14	2.7	2	125	3.6
25	19	2	11	90	21	54	-2	18.0	14	2.4	2	127	4.0
26	20	4	11	86	22	56	-1	16.1	13	1.5	2	129	3.0
27	19	3	11	93	26	60	-1	14.1	14	2.1	2	131	2.9
28	19	5	12	82	29	55	0	17.8	14	2.2	2	133	3.6
AVG	20	3	11	85	24	54	-1	15.6	13	2.0	2		
SUM											66		89.8

PPT= 24.4

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	21	4	12	85	21	51	-1	20.6	15	1.7	3	136	4.2
2	23	2	12	90	15	54	-2	20.9	16	1.1	3	139	4.1
3	24	2	13	87	15	50	-2	21.1	16	1.4	4	143	4.6
4	22	5	14	84	22	50	0	18.1	16	2.5	3	146	4.3
5	22	5	13	84	26	55	1	16.8	15	2.0	3	149	3.5
6	21	6	13	87	34	58	2	14.5	15	2.8	3	152	3.4
7	19	5	12	83	32	59	0	17.1	15	2.9	2	154	3.5
8	21	2	12	88	30	60	0	20.3	16	1.4	3	156	3.8
9	24	3	14	82	20	50	-2	21.4	16	1.5	4	160	4.4
10	25	4	15	77	15	44	-3	20.5	17	2.1	4	164	4.3
11	26	5	15	78	16	43	-1	20.6	18	1.9	5	169	4.6
12	26	5	16	81	15	44	-1	21.9	18	1.8	5	174	4.8
13	26	6	16	82	15	44	0	20.3	18	1.8	5	179	4.5
14	25	6	15	89	17	50	0	18.5	18	1.8	4	183	4.0
15	25	7	15	87	24	53	2	20.1	18	2.0	5	188	4.6
16	24	7	16	88	20	52	2	22.1	19	1.9	4	192	5.1
17	25	8	16	86	21	49	2	21.0	19	2.1	5	197	5.1
18	28	5	17	81	12	41	-1	23.9	20	1.9	6	203	5.7
19	29	5	18	75	10	36	-2	24.2	20	1.6	6	209	6.0
20	29	6	18	76	9	38	-2	23.0	20	2.3	6	215	6.0
21	28	5	17	79	13	41	-1	22.8	20	1.6	6	221	5.3
22	29	7	18	71	10	37	-1	22.3	21	1.4	6	227	5.2
23	28	7	18	68	11	35	-2	24.0	21	2.2	6	234	6.0
24	28	6	18	75	12	39	-1	23.0	21	2.1	6	239	5.4
25	27	7	18	60	10	30	-3	24.5	20	2.6	6	245	6.5
26	25	8	17	69	16	40	-1	22.5	20	2.4	5	250	5.6
27	26	7	17	77	17	43	0	21.4	20	2.3	5	255	5.4
28	26	7	17	74	23	43	1	21.7	20	2.4	5	260	5.6
29	26	7	17	72	18	42	0	23.3	20	2.1	5	266	5.8
30	26	6	17	73	12	38	-2	24.9	20	2.8	5	271	6.7
31	<u>25</u>	<u>6</u>	<u>16</u>	<u>67</u>	<u>15</u>	<u>38</u>	<u>-2</u>	<u>23.3</u>	<u>19</u>	<u>3.0</u>	<u>5</u>	<u>275</u>	<u>6.2</u>
AVG	25	6	16	79	18	45	-1	21.3	18	2.0	5		
SUM											142		154.0

PPT= 15.0

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 1996-2001

HARQUAHALA 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	22	6	15	80	22	45	0	19.9	19	2.5	4	279	4.9
2	22	5	14	83	21	50	0	23.4	19	2.7	4	282	5.3
3	22	7	15	84	29	57	3	20.6	19	2.5	4	286	4.6
4	23	6	15	84	24	51	1	22.2	19	2.2	4	290	4.9
5	24	7	16	82	21	49	1	22.9	20	2.4	4	294	5.4
6	25	7	17	79	16	45	0	26.4	20	2.8	5	299	6.8
7	25	6	16	81	18	46	1	24.2	21	2.3	5	304	5.8
8	26	6	17	76	13	39	-2	26.8	21	1.9	5	309	6.4
9	27	6	17	67	9	32	-4	27.3	21	2.9	5	314	7.4
10	26	6	17	71	12	36	-3	26.4	21	2.5	5	319	6.7
11	26	7	17	70	11	36	-2	27.5	21	2.8	5	325	7.3
12	26	7	17	80	15	41	1	26.0	21	2.6	5	330	6.5
13	27	7	17	75	14	38	-1	27.4	22	2.2	5	335	6.8
14	27	7	18	69	10	33	-3	27.0	22	2.6	6	341	7.2
15	28	6	17	69	9	31	-4	26.8	22	2.0	6	347	6.8
16	29	5	18	66	7	28	-5	28.1	23	1.7	6	353	7.1
17	31	7	20	66	6	29	-4	28.0	23	2.3	7	360	7.7
18	31	8	20	70	11	34	0	27.3	24	2.3	7	367	7.2
19	31	10	21	70	10	33	0	25.3	24	2.0	8	375	6.7
20	31	8	21	65	8	30	-2	27.5	24	2.3	8	383	7.6
21	30	10	20	69	13	35	1	24.6	24	3.0	8	391	7.3
22	30	9	20	73	15	39	2	28.1	24	2.7	7	398	7.4
23	30	9	21	72	11	34	0	28.5	24	2.6	7	405	7.8
24	29	9	20	66	12	32	-1	27.8	25	2.5	7	412	7.3
25	31	10	21	74	13	36	1	28.0	25	2.2	7	419	7.1
26	33	10	23	70	9	32	0	28.4	26	1.7	9	428	7.5
27	35	13	24	62	10	29	2	28.9	27	2.1	10	438	8.2
28	33	12	24	60	7	26	0	28.3	26	2.8	9	447	8.7
29	30	11	21	61	10	29	0	27.1	26	2.6	8	455	7.8
30	<u>31</u>	<u>11</u>	<u>21</u>	<u>62</u>	<u>9</u>	<u>30</u>	<u>-2</u>	<u>27.5</u>	<u>26</u>	<u>2.0</u>	<u>8</u>	<u>464</u>	<u>7.4</u>
AVG	28	8	19	72	13	37	-1	26.3	23	2.4	6		
SUM											189		205.7
								PPT=	8.9				

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	33	10	22	64	8	30	-2	29.6	26	2.1	8	472	8.1
2	33	9	23	63	7	26	-2	29.5	26	2.3	9	481	8.4
3	31	12	22	58	12	27	0	27.4	27	2.5	8	489	7.8
4	32	11	22	65	10	31	0	29.4	27	2.1	9	498	8.0
5	33	11	23	65	10	30	0	29.1	27	2.2	9	507	8.2
6	34	11	24	66	9	28	1	29.9	28	2.0	9	516	8.3
7	35	11	24	65	9	30	1	29.8	28	2.0	9	525	8.4
8	35	14	25	63	10	32	2	28.8	29	2.2	10	535	8.3
9	35	14	25	61	10	30	2	30.1	29	2.3	10	546	8.7
10	34	15	25	58	10	30	2	29.7	29	2.6	11	556	8.7
11	33	13	24	62	10	30	2	29.3	29	2.1	10	566	8.1
12	34	13	25	62	12	29	2	29.0	29	2.1	10	576	8.0
13	34	13	25	60	11	30	1	28.0	29	2.5	10	585	8.2
14	34	13	25	63	10	29	2	29.7	29	2.0	10	596	8.3
15	35	13	24	63	7	27	0	29.4	29	2.1	10	606	8.4
16	34	13	24	64	8	29	2	30.4	29	2.3	10	616	8.6
17	35	13	25	66	9	28	2	29.9	30	1.7	11	626	8.1
18	36	14	26	69	9	32	4	27.8	30	1.8	11	637	7.7
19	35	16	26	67	12	33	5	26.6	30	2.5	12	649	7.9
20	34	14	25	73	13	35	5	26.3	30	2.1	10	659	7.4
21	36	14	25	70	8	33	4	30.5	30	1.7	11	670	8.2
22	35	12	25	67	8	29	2	30.8	30	2.1	10	680	8.8
23	35	14	26	67	10	31	4	29.9	30	2.3	11	691	8.4
24	35	15	26	67	10	31	4	30.4	30	2.4	11	701	8.5
25	33	14	25	65	13	33	4	30.9	30	2.5	10	711	8.5
26	33	15	25	68	16	36	6	28.1	31	2.2	10	722	7.7
27	35	14	25	71	12	35	5	29.2	31	1.7	11	732	7.8
28	37	14	26	71	10	32	5	30.4	31	1.8	11	744	8.4
29	37	15	27	64	9	30	4	30.0	32	1.9	11	755	8.6
30	37	16	27	65	8	30	4	29.6	32	2.0	12	767	8.6
31	<u>37</u>	<u>16</u>	<u>27</u>	<u>58</u>	<u>8</u>	<u>27</u>	<u>4</u>	<u>31.2</u>	<u>32</u>	<u>1.9</u>	<u>12</u>	<u>779</u>	<u>8.9</u>
AVG	34	13	25	65	10	30	2	29.3	29	2.1	10		
SUM											303		246.8

PPT= 0.3

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	37	15	27	63	9	28	4	30.2	32	2.1	12	790	8.8
2	36	16	27	67	10	33	4	30.7	31	2.1	11	802	8.7
3	35	14	26	66	9	30	2	31.5	31	2.4	10	812	9.1
4	35	13	25	65	10	31	2	31.6	31	1.7	10	822	8.3
5	36	14	26	66	9	31	3	30.0	31	1.7	11	833	8.2
6	36	14	26	67	9	31	3	30.7	32	1.8	11	843	8.5
7	37	15	27	67	9	31	4	31.0	32	2.1	11	854	8.9
8	36	16	27	67	11	31	5	30.9	32	2.2	12	866	9.0
9	37	15	27	67	10	29	5	31.1	32	2.1	11	877	8.9
10	36	16	27	61	9	27	4	31.4	32	2.1	12	889	8.7
11	37	15	27	61	9	27	3	30.4	32	2.0	11	900	8.5
12	37	16	27	59	8	27	3	31.2	32	2.7	12	912	9.6
13	37	15	27	61	8	28	3	31.1	33	2.3	12	923	9.0
14	38	17	28	63	10	27	5	31.2	33	2.3	12	936	9.3
15	39	16	29	65	10	30	6	30.6	33	2.2	12	948	9.2
16	39	17	29	63	10	28	6	30.4	34	2.4	13	960	9.3
17	40	18	29	61	9	27	5	30.9	34	1.9	13	973	9.1
18	41	18	30	61	9	26	5	31.1	34	2.1	13	986	9.4
19	41	18	30	62	10	29	6	30.3	34	2.1	13	1000	9.2
20	40	19	31	63	13	31	8	29.4	35	2.3	13	1013	8.7
21	40	20	31	61	11	30	8	29.8	34	2.2	14	1027	8.7
22	38	19	30	56	12	28	6	30.1	34	2.3	14	1041	8.8
23	38	19	30	56	10	28	5	29.2	34	2.5	13	1054	8.8
24	39	17	29	63	9	27	5	30.7	34	1.8	13	1067	8.8
25	39	18	29	57	9	28	6	28.2	34	2.3	13	1080	8.5
26	39	19	30	57	10	27	6	30.5	34	2.3	13	1093	9.1
27	39	19	30	57	10	27	6	29.1	34	2.3	13	1107	8.7
28	39	19	30	61	12	28	7	30.5	35	2.2	13	1120	9.1
29	40	19	30	62	10	29	7	30.5	35	2.1	13	1133	9.1
30	<u>41</u>	<u>19</u>	<u>31</u>	<u>63</u>	<u>10</u>	<u>28</u>	<u>7</u>	<u>30.9</u>	<u>35</u>	<u>2.1</u>	<u>14</u>	<u>1147</u>	<u>9.4</u>
AVG	38	17	28	62	10	29	5	30.5	33	2.2	12		
SUM											368		267.0

PPT= 4.8

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	42	20	32	54	9	26	6	29.7	36	2.3	14	1161	9.3
2	43	22	33	56	9	25	8	30.4	36	2.1	15	1176	9.5
3	42	22	33	55	10	24	8	29.6	36	2.7	15	1191	9.4
4	41	21	32	58	13	31	9	29.1	36	2.3	14	1205	9.0
5	40	22	31	64	18	37	12	27.6	35	2.4	15	1220	8.5
6	39	23	31	75	22	45	15	25.6	35	2.3	15	1235	7.7
7	39	24	31	76	22	46	16	28.0	35	2.2	15	1250	8.1
8	39	24	30	74	23	47	15	23.7	35	2.3	15	1265	6.9
9	40	23	32	68	17	39	13	29.0	36	2.3	15	1280	8.8
10	40	22	32	72	17	38	13	28.3	35	2.2	15	1295	8.5
11	40	24	32	64	18	37	13	26.3	35	2.1	15	1311	8.0
12	40	23	32	63	14	33	11	27.2	35	2.2	15	1326	8.4
13	41	23	32	67	14	35	12	25.3	35	1.7	15	1341	7.4
14	41	24	32	64	16	34	12	24.4	36	2.1	15	1356	7.7
15	42	22	33	68	15	33	11	29.5	36	2.6	15	1371	9.3
16	41	22	32	65	14	34	11	27.5	36	2.2	15	1386	8.6
17	41	23	33	64	13	32	11	27.7	36	2.3	15	1401	8.8
18	41	22	33	62	15	31	11	28.8	36	2.5	15	1416	9.2
19	41	23	33	63	14	31	11	29.6	36	2.3	15	1431	9.2
20	41	22	32	65	15	34	12	28.7	36	2.4	15	1446	9.1
21	39	24	32	67	21	40	15	26.2	36	2.7	15	1462	8.3
22	40	23	32	72	19	40	14	26.6	36	2.4	15	1477	8.1
23	40	24	32	68	17	40	14	27.5	37	2.3	15	1492	8.4
24	41	24	33	70	14	37	13	28.4	37	2.2	15	1508	8.7
25	42	24	33	68	16	35	14	28.2	37	2.2	16	1524	8.8
26	41	24	33	74	14	36	14	26.4	36	2.4	16	1539	8.4
27	40	24	32	74	18	39	15	23.4	36	1.9	15	1555	7.0
28	40	24	32	71	19	41	15	25.6	35	2.7	16	1570	8.3
29	38	24	31	77	25	49	16	23.5	36	2.2	15	1585	6.9
30	40	24	32	80	19	46	16	27.4	37	2.1	16	1601	8.0
31	<u>42</u>	<u>24</u>	<u>33</u>	<u>67</u>	<u>14</u>	<u>34</u>	<u>14</u>	<u>28.2</u>	<u>37</u>	<u>2.0</u>	<u>16</u>	<u>1617</u>	<u>8.6</u>
AVG	40	23	32	67	16	37	13	27.3	36	2.3	15		
SUM											454		252.1

PPT= 18.3

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	42	24	34	64	14	34	13	27.5	37	2.2	16	1632	8.6
2	41	27	34	60	17	35	15	24.6	36	2.5	17	1649	8.1
3	41	25	33	69	19	41	15	25.2	36	2.4	16	1665	7.9
4	42	24	33	68	16	38	14	27.6	37	2.4	16	1680	8.7
5	41	25	33	66	16	37	15	27.2	36	2.5	16	1696	8.7
6	40	24	32	71	17	38	15	27.1	36	2.5	16	1712	8.5
7	41	23	32	64	16	36	13	26.8	36	2.6	15	1727	8.6
8	40	22	31	74	17	38	13	25.8	34	2.4	15	1742	7.7
9	38	22	30	74	23	45	14	24.0	35	2.3	15	1757	7.0
10	39	25	32	73	22	46	16	25.3	36	2.5	16	1772	7.7
11	40	23	32	72	17	40	14	26.0	36	2.2	15	1788	7.5
12	40	24	32	71	19	43	14	25.6	35	2.1	15	1803	7.5
13	40	24	32	78	19	43	16	23.1	36	1.9	15	1819	6.8
14	40	25	32	66	19	41	15	24.5	36	2.2	16	1834	7.5
15	41	25	32	80	19	46	17	26.2	36	3.0	16	1850	8.2
16	41	24	32	78	17	43	16	25.0	36	2.1	16	1866	7.4
17	41	24	32	74	19	41	16	25.9	36	2.9	16	1882	8.2
18	39	25	32	72	21	43	16	24.8	36	2.3	16	1897	7.5
19	40	24	32	73	19	41	16	25.7	36	2.1	16	1913	7.8
20	40	24	32	73	19	41	16	26.6	36	1.9	16	1929	7.9
21	41	25	33	66	16	36	14	25.3	36	2.1	16	1945	7.9
22	41	24	33	66	15	32	13	26.1	36	2.1	16	1960	8.3
23	41	24	32	70	16	39	14	23.5	36	2.1	15	1976	7.3
24	40	25	33	69	18	38	15	23.0	36	2.4	16	1992	7.2
25	41	24	33	73	17	38	15	25.5	36	2.0	16	2007	7.8
26	41	24	33	62	18	35	14	24.8	36	2.1	16	2023	7.9
27	39	24	31	78	24	47	17	20.9	35	2.2	15	2038	6.3
28	39	23	31	80	23	49	16	22.9	35	2.2	15	2053	6.9
29	37	25	31	74	28	49	17	22.0	35	2.4	15	2069	6.8
30	38	23	30	82	27	52	18	22.7	34	2.6	15	2084	6.8
31	<u>38</u>	<u>23</u>	<u>30</u>	<u>85</u>	<u>22</u>	<u>52</u>	<u>16</u>	<u>23.8</u>	<u>32</u>	<u>2.4</u>	<u>15</u>	<u>2098</u>	<u>7.0</u>
AVG	40	24	32	71	19	41	15	25.0	36	2.3	16		
SUM											467		230.9

PPT= 27.3

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	36	22	29	80	27	55	16	18.2	33	2.3	14	2113	5.3
2	38	21	29	79	19	47	14	22.1	33	2.2	14	2127	6.7
3	37	21	29	74	20	41	13	22.3	33	2.0	14	2141	6.6
4	38	20	29	73	19	46	12	24.4	33	1.8	14	2155	6.8
5	38	20	30	78	20	43	13	23.1	33	2.2	14	2169	6.8
6	38	22	29	73	21	44	14	21.7	34	2.1	15	2183	6.5
7	40	21	30	75	15	39	12	24.4	34	1.6	14	2198	7.1
8	40	20	30	70	15	36	11	24.3	33	1.7	14	2212	7.2
9	39	20	29	72	18	40	12	20.1	34	2.1	14	2226	6.1
10	39	21	30	79	23	47	15	22.5	33	1.8	14	2240	6.5
11	36	22	29	86	28	53	17	18.9	33	2.4	15	2255	5.5
12	39	21	30	84	23	51	15	22.9	34	1.5	14	2269	6.2
13	39	21	30	78	19	44	14	22.7	34	1.7	15	2284	6.6
14	39	21	30	80	21	45	15	21.4	33	2.2	14	2298	6.4
15	38	21	29	80	19	44	13	22.7	33	2.1	14	2312	6.8
16	38	21	29	73	17	41	13	23.1	33	2.3	14	2326	7.1
17	38	19	29	76	17	42	12	22.8	33	1.9	13	2340	6.7
18	38	19	29	74	16	40	11	22.5	33	1.8	13	2353	6.5
19	38	18	28	72	18	42	11	22.3	33	2.0	13	2366	6.5
20	37	19	28	74	16	40	11	22.8	32	2.0	13	2379	6.6
21	36	17	27	70	17	40	9	21.5	32	1.9	12	2392	6.2
22	36	18	27	71	17	39	9	21.9	31	2.2	12	2404	6.5
23	35	16	25	76	21	44	9	21.1	31	1.7	11	2415	5.7
24	35	16	26	73	17	40	8	20.3	30	2.0	12	2427	6.0
25	34	17	25	71	22	47	9	17.9	30	2.5	12	2439	5.2
26	35	17	26	78	21	47	10	21.1	30	1.9	12	2451	5.9
27	36	17	26	76	17	43	9	21.6	31	1.8	12	2463	6.0
28	37	16	26	77	12	39	7	21.7	30	1.5	12	2475	6.1
29	37	15	26	75	12	37	7	21.9	30	1.6	11	2486	6.1
30	<u>37</u>	<u>15</u>	<u>26</u>	<u>78</u>	<u>13</u>	<u>40</u>	<u>8</u>	<u>21.1</u>	<u>30</u>	<u>1.7</u>	<u>11</u>	<u>2498</u>	<u>6.0</u>
AVG	37	19	28	76	19	43	12	21.9	32	1.9	13		
SUM											399		189.8

PPT= 13.2

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	36	16	26	77	13	40	8	19.4	30	1.5	12	2509	5.4
2	35	16	25	77	18	41	9	19.6	30	1.7	12	2521	5.5
3	35	17	26	72	16	42	9	20.1	29	2.1	12	2533	5.9
4	34	15	24	80	15	44	8	20.6	29	1.7	11	2544	5.6
5	35	14	25	76	14	40	7	20.9	29	1.6	11	2554	5.7
6	34	14	24	76	14	40	6	20.4	28	2.0	11	2565	5.8
7	33	14	23	70	18	40	6	18.7	28	2.3	10	2575	5.4
8	33	14	23	76	16	40	6	19.8	27	1.8	10	2585	5.5
9	34	13	23	77	16	41	5	19.2	27	2.1	10	2595	5.4
10	34	12	22	79	11	39	4	20.0	26	1.9	10	2604	5.6
11	32	10	21	69	12	34	1	19.5	26	1.9	8	2612	5.3
12	32	9	20	74	10	34	1	19.9	26	1.8	8	2620	5.5
13	34	10	21	67	9	30	0	19.8	25	1.5	9	2628	5.3
14	34	9	21	70	8	32	0	19.4	25	1.3	9	2637	5.1
15	32	10	20	70	12	36	1	18.7	25	1.6	8	2645	4.9
16	32	9	20	75	10	36	1	18.9	25	2.1	8	2653	5.6
17	31	10	21	60	10	28	-1	19.1	24	2.3	8	2661	5.8
18	32	9	20	66	12	35	0	18.1	24	1.3	8	2669	4.6
19	32	9	20	76	12	37	2	17.3	24	1.4	8	2678	4.5
20	31	10	20	69	12	37	1	18.2	24	1.9	8	2686	5.0
21	30	9	20	74	18	39	3	16.2	23	2.3	7	2693	4.5
22	27	12	19	67	25	44	3	15.7	22	2.9	7	2700	4.4
23	28	9	18	74	20	45	2	16.1	22	1.9	7	2707	4.2
24	29	8	18	76	17	43	1	16.7	22	1.4	6	2713	4.0
25	28	7	17	69	16	37	-1	16.2	21	1.6	6	2719	4.0
26	28	7	17	71	16	39	0	16.3	21	1.9	6	2725	4.3
27	26	9	17	75	22	44	2	14.2	21	1.6	5	2731	3.4
28	26	7	16	79	21	47	2	16.2	20	1.2	6	2736	3.6
29	26	6	16	76	17	45	0	15.6	20	1.6	5	2741	3.8
30	26	6	16	74	21	45	0	14.4	19	1.9	5	2746	3.5
<u>31</u>	<u>27</u>	<u>6</u>	<u>16</u>	<u>75</u>	<u>18</u>	<u>43</u>	<u>0</u>	<u>16.5</u>	<u>20</u>	<u>1.7</u>	<u>6</u>	<u>2752</u>	<u>4.1</u>
AVG	31	10	21	73	15	39	3	18.1	25	1.8	8		
SUM											254		151.2

PPT= 12.2

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 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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	27	5	16	78	17	45	0	16.3	19	1.2	5	2757	3.6
2	27	5	16	74	17	42	0	15.8	20	1.2	6	2763	3.7
3	28	7	17	68	15	38	-1	15.0	20	1.6	6	2769	3.5
4	27	8	17	74	21	43	2	13.0	19	1.6	6	2775	3.0
5	27	6	15	81	21	48	2	15.6	19	1.4	5	2780	3.5
6	27	5	15	77	17	46	0	14.5	18	1.5	5	2785	3.4
7	25	5	15	74	16	40	-1	14.4	18	2.0	5	2790	3.7
8	25	4	15	71	19	41	-1	14.7	18	1.7	4	2794	3.5
9	25	5	15	68	16	40	-2	15.4	18	2.3	5	2799	4.0
10	25	5	14	69	17	40	-2	13.2	18	1.4	5	2804	3.1
11	24	5	14	74	20	43	-1	12.0	18	1.3	4	2808	2.7
12	25	6	14	75	20	46	0	11.8	17	1.5	4	2812	2.6
13	25	5	14	77	17	45	-1	14.1	17	1.5	5	2817	3.2
14	25	4	14	76	18	47	-1	13.6	17	1.3	5	2822	3.0
15	26	3	13	76	16	44	-2	13.9	17	1.1	5	2826	3.0
16	25	3	13	78	17	44	-1	14.1	16	1.4	4	2831	3.2
17	24	3	13	78	15	43	-2	13.9	16	1.5	4	2834	3.1
18	23	2	12	71	16	39	-3	13.9	16	1.3	3	2838	3.0
19	25	2	12	76	15	41	-3	13.4	16	1.0	4	2842	2.8
20	25	3	13	72	13	39	-3	13.4	16	1.4	4	2846	3.0
21	24	3	13	71	15	37	-3	12.2	15	1.6	4	2850	3.0
22	23	3	12	69	14	36	-5	12.8	15	2.3	3	2854	3.4
23	23	2	12	70	11	33	-6	13.7	14	1.9	3	2857	3.5
24	23	0	11	72	13	35	-6	12.5	15	1.4	3	2860	2.8
25	23	2	12	78	14	42	-4	12.1	15	1.5	3	2863	2.7
26	24	3	12	74	14	40	-4	11.8	14	1.5	4	2867	2.6
27	22	1	11	71	16	40	-5	12.7	14	1.7	3	2870	2.9
28	22	3	11	77	19	45	-3	11.6	14	1.5	3	2872	2.5
29	21	3	11	79	24	52	-2	11.5	14	1.3	3	2875	2.3
30	<u>21</u>	<u>2</u>	<u>10</u>	<u>81</u>	<u>26</u>	<u>56</u>	<u>-1</u>	<u>10.2</u>	<u>14</u>	<u>1.0</u>	<u>3</u>	<u>2878</u>	<u>1.8</u>
AVG	25	4	13	74	17	42	-2	13.4	17	1.5	4		
SUM											126		91.9

PPT= 2.3

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

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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>ST10</u>	<u>WS</u>	<u>HU</u>	<u>CHU</u>	<u>ETo</u>
1	21	3	11	89	28	60	1	11.6	14	1.3	3	2880	2.2
2	21	3	11	84	28	59	0	11.3	13	1.5	2	2882	2.2
3	20	1	10	83	26	56	-2	12.7	13	1.8	2	2884	2.7
4	19	0	9	85	28	58	-2	11.2	12	1.7	2	2886	2.1
5	20	-1	9	84	23	52	-3	12.6	11	1.6	2	2888	2.5
6	18	-1	8	87	25	57	-4	9.1	12	1.4	2	2890	1.6
7	20	2	10	83	27	56	-1	11.4	12	1.5	2	2892	2.2
8	18	1	10	78	21	48	-4	12.5	11	2.5	2	2894	2.9
9	17	-1	8	80	23	48	-4	11.7	11	2.5	1	2895	2.7
10	17	2	9	75	23	44	-3	11.5	11	2.5	1	2896	2.6
11	16	1	8	76	25	51	-4	10.9	10	2.7	1	2897	2.7
12	17	-2	7	83	23	52	-5	11.8	10	1.8	1	2898	2.3
13	19	-2	7	87	18	53	-5	12.4	10	1.3	1	2899	2.2
14	19	-1	8	85	18	50	-5	11.4	10	1.8	2	2901	2.3
15	18	-2	8	85	22	53	-5	11.0	10	2.2	1	2902	2.2
16	21	-1	9	77	14	41	-6	12.7	11	2.0	2	2905	3.0
17	22	-1	9	73	13	41	-6	12.4	11	1.4	3	2907	2.6
18	20	0	10	75	19	44	-5	12.2	11	1.8	2	2909	2.7
19	20	0	9	77	22	50	-5	10.0	11	2.2	2	2911	2.4
20	20	1	10	81	24	48	-3	11.4	11	2.2	2	2913	2.5
21	17	0	9	78	25	49	-4	11.5	10	2.4	1	2915	2.5
22	16	1	8	75	29	51	-4	11.1	10	2.3	1	2916	2.3
23	17	-2	7	78	26	51	-5	12.2	10	1.6	1	2917	2.4
24	19	-1	8	78	19	48	-6	12.1	10	1.8	2	2918	2.4
25	17	-1	8	71	17	41	-7	12.9	10	2.5	1	2920	3.0
26	18	0	8	74	18	43	-5	12.3	10	1.8	1	2921	2.5
27	19	-2	7	75	17	46	-7	12.8	10	1.3	1	2922	2.4
28	20	-1	8	75	14	42	-6	11.1	11	1.3	2	2924	2.2
29	20	0	9	77	18	44	-5	10.2	11	1.2	2	2926	2.0
30	22	0	10	82	20	49	-2	12.4	11	1.1	3	2929	2.3
<u>31</u>	<u>21</u>	<u>1</u>	<u>10</u>	<u>84</u>	<u>23</u>	<u>53</u>	<u>-1</u>	<u>11.8</u>	<u>11</u>	<u>1.5</u>	<u>2</u>	<u>2932</u>	<u>2.4</u>
AVG	19	0	9	80	22	50	-4	11.7	11	1.8	2		
SUM											54		75.3

PPT= 11.5

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 1996-2001