

Recife

Statistics for BRA_Guararapes_SWERA

Location -- RECIFE/GUARARAPES - BRA

{S 8 4'} {W 34 50'} {GMT -3.0 Hours}

Elevation -- 19m above sea level

Standard Pressure at Elevation -- 101097Pa

- Monthly Statistics for Dry Bulb temperatures C

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum	33.0	33.0	38.0	32.0	35.0	37.0	30.4	31.0	31.0	32.0	33.0	38.3
Day:Hour	25:13	4:13	8:03	12:13	25:16	13:14	26:12	13:14	24:12	26:13	3:11	6:09
Minimum	22.0	22.6	20.8	23.0	23.0	21.0	21.0	21.0	21.5	18.0	22.0	21.0
Day:Hour	5:05	6:03	2:21	18:20	8:04	6:05	5:18	11:05	19:03	5:07	20:05	21:19
Daily Avg	28.2	27.9	29.1	27.9	26.5	25.5	25.1	25.7	26.3	27.2	28.2	28.2

- Maximum Dry Bulb temperature of 38.3 C on Dec 6

- Minimum Dry Bulb temperature of 18.0 C on Oct 5

- Average Hourly Statistics for Dry Bulb temperatures C

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0:01- 1:00	26.6	26.5	27.5	26.6	24.8	24.0	23.5	24.1	24.5	25.5	26.4	26.6
1:01- 2:00	26.3	26.2	27.2	26.6	24.6	24.0	23.5	23.9	24.5	25.3	26.2	26.4
2:01- 3:00	26.1	25.9	27.2	26.3	24.5	23.7	23.1	23.7	24.4	25.0	26.0	26.3
3:01- 4:00	25.9	25.7	26.8	26.0	24.4	23.6	23.0	23.7	24.3	24.8	25.9	26.2
4:01- 5:00	25.6	25.6	26.3	25.9	24.3	23.5	22.7	23.4	24.2	24.6	25.8	26.1
5:01- 6:00	25.7	25.3	25.9	25.9	24.2	23.5	22.7	23.2	24.5	24.7	26.5	26.5
6:01- 7:00	27.2	26.7	27.2	26.9	25.1	24.3	23.6	24.4	25.6	26.0	28.0	27.5
7:01- 8:00	28.8	27.9	28.6	28.0	26.8	25.5	24.8	25.7	26.8	27.9	29.3	29.0
8:01- 9:00	29.8	29.2	29.7	28.9	27.7	26.5	26.0	27.0	27.9	29.2	30.3	30.0
9:01-10:00	30.5	29.8	30.8	29.7	28.6	26.9	27.1	27.8	28.3	29.9	30.9	30.5
10:01-11:00	31.1	30.3	31.7	29.9	29.2	27.5	27.7	28.0	28.9	30.1	31.0	30.7
11:01-12:00	31.2	30.2	32.2	30.3	29.2	27.8	27.9	28.6	29.2	30.1	31.2	31.0
12:01-13:00	31.3	30.7	32.4	30.5	29.4	27.9	28.1	28.5	29.1	30.2	31.0	31.1
13:01-14:00	30.9	30.8	32.4	30.4	29.2	28.0	27.8	28.5	28.9	30.0	30.9	30.7
14:01-15:00	30.7	30.3	31.9	29.9	28.8	27.3	27.3	28.0	28.5	29.5	30.3	30.4
15:01-16:00	30.1	29.8	30.9	29.3	28.0	27.0	27.0	27.4	27.7	28.9	29.3	29.8
16:01-17:00	29.3	29.2	30.1	28.4	27.2	26.4	26.4	26.6	26.8	27.7	28.4	28.7
17:01-18:00	28.2	28.3	29.3	27.8	26.5	25.5	25.2	25.5	25.9	27.0	27.7	27.8
18:01-19:00	27.7	27.6	29.0	27.5	26.0	25.3	24.8	25.0	25.7	26.7	27.1	27.2
19:01-20:00	27.3	27.2	28.7	27.3	26.0	25.1	24.6	24.9	25.3	26.5	26.9	27.2
20:01-21:00	27.1	26.9	28.3	27.0	25.9	25.0	24.5	24.6	25.1	26.2	26.7	27.0
21:01-22:00	26.9	26.7	28.2	27.0	25.8	24.7	24.0	24.5	25.0	26.0	26.7	26.8
22:01-23:00	26.7	26.8	28.0	27.0	25.5	24.4	24.0	24.5	24.8	25.8	26.6	26.8
23:01-24:00	26.6	26.5	27.8	26.7	25.1	24.0	23.7	24.3	24.6	25.7	26.5	26.6
Max Hour	13	14	14	13	13	14	13	12	12	13	12	13
Min Hour	5	6	6	6	6	6	5	6	5	5	5	5

- Monthly Statistics for Extreme temperatures C

#Days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max >= 32	17	15	28	3	1	2				1	16	20

- Monthly Statistics for Dew Point temperatures C

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum	25.4	27.0	26.0	26.2	25.0	25.0	28.8	24.0	25.0	24.0	25.8	28.7
Day:Hour	19:09	6:24	18:11	23:09	1:10	7:11	18:15	5:16	25:12	6:08	12:12	12:12
Minimum	20.3	20.0	20.8	20.0	20.0	18.0	16.3	18.8	18.0	15.0	19.8	16.0
Day:Hour	11:09	6:07	2:21	14:01	10:16	16:21	24:18	14:15	2:13	5:07	1:12	18:16
Daily Avg	22.8	23.2	23.7	23.4	23.1	22.1	22.0	21.5	21.3	21.3	22.3	22.9

- Maximum Dew Point temperature of 28.8 C on Jul 18

- Minimum Dew Point temperature of 15.0 C on Oct 5

- Monthly Statistics for Relative Humidity %

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum	100	100	100	100	100	100	100	100	100	96	95	100
Day:Hour	6:05	5:05	2:21	8:10	2:02	1:07	1:23	3:23	5:03	4:06	1:24	18:15
Minimum	52	51	44	52	47	45	54	53	52	47	46	43
Day:Hour	30:12	15:12	8:03	12:13	25:16	13:14	24:18	14:15	2:13	11:12	3:11	18:16
Daily Avg	73	76	73	77	82	82	84	79	75	71	71	74

- Average Hourly Relative Humidity %

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0:01- 1:00	81	81	79	82	90	88	91	85	83	78	79	80
1:01- 2:00	81	83	80	82	91	88	91	86	83	80	79	81
2:01- 3:00	81	85	81	84	91	88	92	86	83	80	80	81
3:01- 4:00	82	86	82	85	92	90	92	88	83	82	80	82
4:01- 5:00	84	86	85	86	92	90	93	89	84	83	80	82
5:01- 6:00	83	87	87	86	92	91	92	88	82	81	77	80
6:01- 7:00	77	80	82	82	87	88	90	82	77	76	71	77
7:01- 8:00	71	76	76	78	82	82	85	78	74	68	67	70
8:01- 9:00	66	71	72	74	78	78	81	73	69	63	63	67
9:01-10:00	64	68	68	71	74	78	77	70	67	60	61	65
10:01-11:00	62	66	64	69	72	75	75	68	65	59	60	65
11:01-12:00	62	68	62	67	72	74	73	66	64	59	59	64
12:01-13:00	61	66	62	65	71	74	72	67	64	59	60	63
13:01-14:00	63	66	61	67	72	73	74	66	65	60	61	64
14:01-15:00	63	67	63	68	73	75	75	68	65	62	64	65
15:01-16:00	65	69	66	71	75	77	74	72	68	64	66	66
16:01-17:00	69	71	68	76	79	78	77	76	71	69	69	71
17:01-18:00	73	74	72	77	82	81	82	78	75	71	72	75
18:01-19:00	76	77	73	79	84	81	84	81	76	72	75	77
19:01-20:00	78	78	74	80	83	84	85	82	78	73	77	78
20:01-21:00	78	80	76	81	85	83	86	83	79	74	77	79
21:01-22:00	80	81	77	81	85	85	88	84	80	76	77	80
22:01-23:00	80	81	77	82	86	87	89	83	81	77	77	79
23:01-24:00	80	82	78	82	88	88	89	84	82	77	77	81
Max Hour	5	6	6	5	5	6	5	5	5	5	5	5
Min Hour	13	14	14	13	13	14	13	12	13	12	12	13

- Monthly Wind Direction % {N=0 or 360,E=90,S=180,W=270}

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North	16	23	15	16	20	13	21	27	11	12	6	4
NorthEast	6	1	6	2	1	0	1	5	7	31	13	5
East	7	3	20	15	4	1	3	17	19	30	28	22
SouthEast	31	17	28	44	19	12	19	21	21	19	38	31
South	37	52	16	18	36	46	27	25	32	5	13	35
SouthWest	2	4	4	4	8	14	19	5	9	1	1	2
West	1	0	7	1	13	14	9	1	1	0	1	0
NorthWest	1	0	4	0	0	0	1	0	0	1	0	0

- Monthly Statistics for Wind Speed m/s

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum	10.3	8.2	40.0	6.7	6.6	10.2	9.3	7.7	10.3	14.4	8.7	25.7
Day:Hour	20:10	22:19	1:22	15:16	19:06	2:21	23:24	1:11	2:05	29:20	14:12	4:11
Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Day:Hour	1:01	3:07	1:06	1:20	1:05	1:06	1:04	1:06	1:05	1:04	1:04	4:18
Daily Avg	2.7	2.4	4.6	2.9	2.3	3.2	2.6	2.5	3.3	3.6	3.2	4.2

- Monthly Statistics for Solar Radiation (Direct Normal, Diffuse, Global Horizontal) Wh/m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Direct Avg	4907	4411	4282	3898	3557	3224	3394	3722	4170	4824	4798	4784
Direct Max	8168	6685	6493	7259	6146	6224	6983	6782	6721	6952	6790	7557
Day	24	6	16	14	8	28	12	10	29	24	4	17
Diffuse Avg	2537	2592	2462	2281	2237	2075	2111	2320	2457	2561	2566	2519
Global Avg	6165	5951	5679	5108	4643	4179	4401	4960	5593	6244	6153	6037

- Maximum Direct Normal Solar of 8168 Wh/m on Jan 24

- Average Hourly Statistics for Direct Normal Solar Radiation Wh/m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0:01- 1:00	0	0	0	0	0	0	0	0	0	0	0	0
1:01- 2:00	0	0	0	0	0	0	0	0	0	0	0	0
2:01- 3:00	0	0	0	0	0	0	0	0	0	0	0	0
3:01- 4:00	0	0	0	0	0	0	0	0	0	0	0	0
4:01- 5:00	0	0	0	0	0	0	0	0	0	0	2	0
5:01- 6:00	47	23	21	27	22	11	9	16	37	56	95	88
6:01- 7:00	228	197	165	157	169	135	113	168	193	251	266	242
7:01- 8:00	379	317	311	292	248	255	184	275	319	390	380	402
8:01- 9:00	471	392	418	366	300	316	246	375	402	466	467	453
9:01-10:00	521	468	474	420	384	356	385	409	443	532	528	555
10:01-11:00	552	518	505	491	422	380	405	477	495	575	522	509
11:01-12:00	529	529	453	480	440	402	463	440	480	526	526	551
12:01-13:00	539	518	461	451	442	410	444	446	517	579	555	554
13:01-14:00	503	458	474	410	376	341	389	364	483	530	525	445
14:01-15:00	492	425	439	333	394	290	357	353	377	420	435	455
15:01-16:00	388	334	359	302	255	236	255	281	290	354	350	330
16:01-17:00	219	197	184	159	103	91	138	113	132	142	143	182
17:01-18:00	39	34	19	10	1	1	6	4	3	3	5	17

18:01-19:00	0	0	0	0	0	0	0	0	0	0	0	0
19:01-20:00	0	0	0	0	0	0	0	0	0	0	0	0
20:01-21:00	0	0	0	0	0	0	0	0	0	0	0	0
21:01-22:00	0	0	0	0	0	0	0	0	0	0	0	0
22:01-23:00	0	0	0	0	0	0	0	0	0	0	0	0
23:01-24:00	0	0	0	0	0	0	0	0	0	0	0	0
Max Hour	11	12	11	11	13	13	12	11	13	13	13	10
Min Hour	1	1	1	1	1	1	1	1	1	1	1	1

- Monthly Calculated "undisturbed" Ground Temperatures** C

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.5 m	26.4	27.3	28.2	28.6	28.9	28.6	27.9	27.0	26.1	25.5	25.4	25.7
2.0 m	26.3	27.0	27.6	28.0	28.5	28.4	28.0	27.4	26.7	26.1	25.8	25.9
4.0 m	26.4	26.8	27.2	27.6	28.0	28.1	27.9	27.5	27.0	26.6	26.3	26.2

- Climate type "Af" (Kppen classification)

- Tropical wet (no dry season, rainforest, hot all year, lat. < 10)

Note on graph: The day in Recife starts at 04:00, so the graph has backward diagonal lines. It should be looked at from a distance!

