07

MONTHLY BULLETIN

OF

THE OBSERVATORY

QC
990
.L4
M6
1938

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

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JANUARY, 1938

J. A. BROWN, DIRECTOR

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Beirut, Syria

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March 28, 2002

JANUARY 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	64.0	65.4	64.2	64.5	15.9	10.9	12.9	13.5	12.2	12.9
2	5.4	4.5	4.0	4.6	16.1	11.6	13.4	15.5	12.9	13.9
3	1.4	0.3	0.9	0.9	16.4	12.9	14.3	15.9	14.1	14.8
4	58.8	56.1	54.4	56.4	17.2	12.8	14.2	16.4	14.5	15.0
5	3.2	4.2	4.9	4.1	23.5	12.2	19.2	19.0	14.1	17.4
6	56.4	55.2	55.6	55.7	16.7	12.0	12.7	14.9	13.2	13.6
7	6.7	6.3	5.7	6.2	15.7	13.3	13.6	15.6	14.2	14.5
8	4.3	4.6	7.3	5.4	16.7	10.6	15.8	15.5	14.3	15.2
9	60.8	61.4	63.3	61.8	15.0	9.8	13.1	14.7	11.1	13.0
10	5.4	4.5	6.3	5.4	15.4	11.7	12.3	14.8	12.3	13.0
11	68.8	68.6	70.0	69.1	16.4	11.3	14.7	16.1	13.1	14.6
12	8.1	4.7	3.8	5.5	17.1	14.1	14.4	16.5	16.1	15.7
13	1.7	58.8	58.7	59.7	18.7	9.9	15.4	18.3	14.7	16.1
14	57.6	6.4	7.3	7.1	15.3	9.8	10.1	15.0	11.6	12.2
15	8.9	8.8	6.0	7.9	14.9	9.7	12.3	14.6	12.4	13.1
16	60.4	61.0	62.0	61.1	14.7	9.7	9.8	13.1	10.8	11.2
17	59.2	54.6	54.0	55.9	15.8	8.4	14.7	13.2	12.9	13.6
18	5.2	5.9	8.9	6.7	13.3	9.4	9.7	13.1	11.3	11.4
19	9.5	8.8	8.9	9.1	15.0	11.7	11.9	12.7	13.9	12.8
20	61.6	9.3	63.7	61.5	17.2	11.9	14.5	15.1	12.6	14.1
21	65.0	63.4	63.3	63.9	18.1	13.6	14.4	16.6	14.6	15.2
22	3.5	3.4	5.1	4.0	17.4	12.6	15.8	16.8	13.8	15.5
23	5.1	3.2	3.9	4.1	17.5	12.8	14.3	17.0	14.2	15.2
24	2.8	0.8	1.1	1.6	16.9	10.8	13.7	16.4	11.4	13.8
25	57.6	57.2	58.7	57.8	15.4	9.6	15.3	12.3	11.1	12.9
26	58.6	57.4	58.1	58.0	13.3	8.2	9.9	13.9	9.8	11.2
27	9.6	62.5	65.5	62.5	12.9	9.2	9.9	12.3	10.7	11.0
28	67.8	6.5	6.5	6.9	14.9	10.0	12.3	14.6	11.5	12.8
29	5.3	2.4	1.3	3.0	15.6	12.4	13.4	15.3	9.8	12.8
30	57.9	56.4	57.3	57.2	16.8	10.6	14.5	13.6	14.1	14.1
31	60.8	61.8	63.3	62.0	16.1	11.8	14.8	14.4	13.3	14.2
	761.01	760.14	760.77	760.63	16.19	11.20	13.46	15.04	12.79	13.77

Barometer, range for month 753.2 mm.–770.0 mm.

,, 50-yr. average for month 763.360 mm.

Thermometer, range for month 8.2° C.–23.5° C.

,, 50-yr. average for month 13.07° C.

Rain, total for month 318.368 mm.

,, , 50-yr. average for month 191.01 mm

,, , total, Sept. 1st to end of month 830.721 mm.

,, 50-yr. average, Sept. 1st to end of month 576.84 mm.

JANUARY 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	9.9	9.9	9.7	9.8	90	86	92	89	2.4	126.9	6.858
2	9.9	9.3	8.7	9.3	87	71	79	79	2.9	79.0	4.953
3	7.9	9.2	7.5	8.2	65	79	62	69	9.3	79.5	
4	8.4	9.6	9.8	9.3	70	70	79	73	1.2	189.4	3.175
5	10.5	11.0	10.8	10.8	64	68	90	74	3.3	231.8	0.762
6	10.5	9.3	9.2	9.7	94	74	81	83	0.9	171.8	42.037
7	10.2	9.5	8.2	9.3	88	72	68	76	0.1	165.7	26.416
8	7.8	8.0	10.0	8.6	58	61	82	67	4.1	246.0	31.240
9	8.5	7.6	8.1	8.1	76	61	82	73	1.7	168.7	2.159
10	8.4	9.0	9.2	8.9	78	74	86	79	4.6	142.0	7.239
11	8.3	9.2	8.6	8.7	66	68	76	70	8.9	68.3	4.826
12	7.6	9.2	10.1	9.0	62	66	75	68	5.6	76.3	
13	8.6	10.9	8.5	9.3	66	68	68	67	2.7	94.5	
14	8.9	8.7	8.8	8.8	97	69	87	84	4.8	54.0	12.446
15	7.6	9.0	8.9	8.5	72	73	83	76	6.3	193.4	21.153
16	8.6	9.5	8.4	8.8	95	85	88	89	4.1	93.4	10.160
17	8.7	10.2	10.6	9.8	73	90	96	85	2.1	168.7	25.400
18	8.7	8.5	7.8	8.3	96	76	79	84	2.7	40.2	21.336
19	8.1	10.3	11.2	9.9	79	94	93	89	0.0	235.5	16.510
20	10.0	9.4	8.9	9.4	81	74	82	79	5.6	163.7	8.890
21	9.7	9.9	10.0	9.9	79	71	80	77	2.3	95.6	
22	11.0	10.3	9.7	10.3	83	72	83	79	4.6	129.4	
23	10.5	10.4	10.6	10.5	86	72	88	82	3.5		5.156
24	9.3	10.5	9.2	9.7	79	76	91	82	6.0		7.366
25	8.7	9.8	8.0	8.8	68	92	82	81	1.0	125.6	9.906
26	8.6	10.9	8.8	9.4	94	92	95	94	6.2		35.712
27	8.5	8.0	7.9	8.1	93	75	82	83	2.3		19.050
28	6.6	10.9	7.1	8.2	61	87	70	73	10.0		
29	8.1	7.8	6.2	7.0	70	60	68	66	8.0		
30	6.9	8.7	8.0	7.9	56	74	67	66	0.0		3.556
31	8.5	9.6	8.6	8.9	67	78	75	73	5.5		11.557
	8.82	9.49	8.94	9.07	77.1	75.1	80.9	77.7	3.96	Note	10.286

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.; Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.: above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

Note :—Anemometer being repaired

JANUARY 1938
METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	10ni	7cu	9nicu	8.7	1s	2s	1s	rough	
2	7cu	9cu	0	5.3	1s	1s	1se	mod.	
3	1cu	2cu	10cu	4.3	1se	1se	1se	calm	mist on sea a.m.
4	9cicu	10stcu	10ni	9.7	1se	1ne	1s	mod.	
5	10nicu	10cicu	10cu	10.0	3s	3s	2s	rough	
6	10ni	10ni	10ni	10.0	1s	2s	2s	stormy	
7	10ni	10ni	6cicu	8.7	2s	2s	2s	rough	
8	7cu	10ni	10ni	9.0	2s	3s	2s	stormy	
9	10ni	9cu	10ni	9.7	2s	2s	2s	rough	
10	4cu	9cu	9cu	7.3	2s	2s	1s	mod.	
11	4cu	4cu	1cu	3.0	1se	0	0	,,	
12	0	10ci	10ci	6.7	1e	2n	0	slight	
13	10cicu	10ci	6cu	8.7	0	1s	1s	,,	
14	7nicu	10cu	8cu	8.3	1s	0	1s	,,	
15	8cu	5cu	10ni	7.7	0	2s	2s	mod.	gale at night hail
16	10ni	8nicu	10cu	9.3	2s	1n	1se	rough	
17	7cu	10ni	10ni	9.0	2s	3s	2s	,,	
18	10ni	4cu	6cu	6.7	0	0	0	,,	
19	10nicu	10ni	8nicu	9.3	2s	2s	2s	,,	
20	6cu	6cu	0	4.0	2w	2nw	2n	,,	
21	10stcu	10stcu	4st	8.0	1se	2ne	2e	mod.	
22	10cu	6cu	10cu	8.7	0	2s	3s	,,	
23	10cu	8cu	10ni	9.3	1s	s	s	slight	
24	6cu	10nicu	10nicu	8.7	s	nw	s	mod.	
25	10ni	10ni	5cu	8.3	2s	2s	0	rough	
26	10ni	7cicu	10ni	9.0	s	s	s	mod.	
27	10ni	6cu	1cu	5.7	s	n	n	,,	
28	1cu	0	0	0.3	se	se	se	calm	
29	0	0	0	0.0	n	ne	ne	slight	
30	9cu	10ni	10cu	9.7	s 24	se 23	se 23	mod.	
31	9cu	9cu	0	6.0	s 31	s 38	s 31	,,	gale p.m.
				7.39	1.3	1.7	1.3		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	1	0	1.	5	19	0	1	0	4	31
14:30	3	3	0	3	17	0	0	2	3	31
20:30	2	1	1	5	18	0	0	0	4	31
Totals	6	4	2	13	54	0	1	2	11	93

Number of days with rain 24, fog 0, thunderstorm 0, gales 2.

50 yr. average number of days with rain during month 15.8

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

FEBRUARY, 1938

J. A. BROWN, DIRECTOR

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Beirut, Syria

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APR 10 1938
BUREAU

FEBRUARY 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm +...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	63.1	59.9	58.1	60.4	17.8	11.1	15.2	17.4	16.1	16.2
2	57.3	4.9	9.6	57.2	17.8	9.1	14.1	14.6	12.1	13.6
3	63.5	64.1	65.1	64.2	16.8	11.7	13.1	16.4	13.4	14.3
4	6.3	4.4	4.1	4.9	17.3	12.4	13.7	16.4	13.4	14.5
5	2.7	0.9	59.5	1.0	18.8	12.7	14.7	17.2	14.1	15.3
6	58.4	57.6	57.9	58.0	17.6	6.6	15.4	14.7	11.2	13.8
7	8.8	7.0	9.3	8.3	14.8	7.6	8.0	14.6	12.3	11.6
8	60.0	9.6	61.1	60.2	14.4	10.3	12.7	13.2	12.3	12.7
9	59.3	7.5	57.6	58.1	14.3	4.4	10.3	13.6	9.8	11.2
10	9.5	61.8	63.8	61.7	10.7	6.2	7.6	7.0	8.5	7.7
11	64.7	63.5	64.7	64.3	13.2	8.2	8.4	12.5	10.6	10.5
12	5.5	3.9	3.8	4.4	17.1	10.7	12.7	16.1	12.3	13.7
13	3.8	1.5	57.5	0.9	18.0	12.7	13.1	17.5	15.2	15.3
14	3.6	3.6	65.0	4.1	19.0	11.1	16.3	17.6	15.3	16.4
15	5.9	5.1	5.3	5.4	17.8	11.7	14.7	16.9	15.4	15.7
16	65.2	63.5	63.6	64.1	18.1	12.5	14.9	16.5	15.2	15.5
17	1.3	59.1	59.6	0.0	18.3	12.1	14.3	17.6	14.3	15.4
18	59.9	9.4	9.7	9.7	19.1	12.5	15.7	17.9	14.4	16.0
19	60.8	60.1	61.1	60.7	18.3	11.6	13.7	17.7	13.6	15.0
20	0.5	59.1	0.6	0.1	18.1	11.8	14.3	17.6	13.2	15.0
21	60.2	58.7	58.6	59.2	17.9	13.8	15.1	17.0	13.9	15.3
22	55.4	3.2	2.8	3.8	18.9	11.1	16.8	15.5	12.6	15.0
23	6.0	7.1	8.6	7.2	15.0	10.6	13.6	13.6	12.7	13.3
24	61.6	62.6	63.7	62.6	15.7	9.6	10.7	13.2	13.2	12.4
25	4.5	3.6	4.9	4.3	13.3	6.4	10.2	11.4	8.6	10.1
26	67.6	68.7	70.9	69.1	10.0	5.4	8.1	8.7	7.6	8.1
27	70.9	9.6	68.6	9.7	11.6	5.4	8.5	10.6	9.6	9.6
28	66.3	5.4	5.3	5.7	14.3	7.6	9.8	12.4	9.3	10.5
	762.24	761.26	761.80	761.76	16.21	9.89	12.70	14.84	12.51	13.35

Barometer, range for month 752.8 mm.—770.9 mm.
,, 50-yr. average for month 762.300 mm.
Thermometer, range for month 4.4° C.—19.1° C.
,, 50-yr. average for month 14.32° C.
Rain, total for month 191.49 mm.
,, , 50-yr. average for month 150.88 mm.
,, , total, Sept. 1st to end of month 1022.207 mm.
,, 50-yr. average, Sept. 1st to end of month 727.720 mm.

FEBRUARY 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	7.5	10.9	10.3	9.6	58	74	76	69	5.1	123.2	
2	8.2	9.7	9.2	9.0	68	79	88	78	1.1	152.5	16.535
3	9.9	9.9	9.5	9.8	87	72	82	80	9.5	62.2	1.270
4	8.4	9.4	8.6	8.8	71	68	74	71	10.0	226.3	
5	7.4	9.5	8.4	8.4	60	65	70	65	10.1	360.3	
6	9.3	9.7	7.7	8.9	71	78	78	76	4.7	635.2	5.255
7	7.9	8.5	8.5	8.3	97	68	80	82	1.6	595.2	89.408
8	8.1	7.9	8.7	8.2	74	69	81	75	3.5	635.3	5.715
9	8.8	8.0	6.7	7.8	94	68	74	79	1.4	860.4	10.668
10	4.9	4.2	4.8	4.6	63	56	59	59	2.4	503.0	6.731
11	5.3	6.5	7.1	6.3	65	61	75	67	5.2	578.6	0.965
12	8.1	8.3	8.0	8.1	74	60	76	70	4.2	256.9	1.397
13	6.9	9.3	6.5	7.6	62	63	50	58	7.1	237.8	
14	8.8	9.6	6.6	8.3	64	64	51	60	9.5		
15	7.5	9.6	8.9	8.7	62	67	68	66	10.5		
16	7.5	8.1	10.1	8.6	59	58	79	66	10.5	259.4	
17	7.0	10.8	9.6	9.1	58	72	79	70	5.5	196.8	
18	9.0	10.5	10.0	9.8	68	69	82	73	9.7	328.2	
19	9.1	8.2	7.9	8.4	78	55	68	67	6.4	235.2	
20	8.5	8.3	8.0	8.3	70	56	71	66	9.4	255.9	
21	8.5	9.2	7.1	8.3	66	64	60	63	8.7	428.6	
22	8.1	9.1	9.5	8.9	57	69	88	71	3.6	1021.8	4.699
23	8.8	8.5	7.6	8.3	76	73	69	73	1.9	547.1	31.496
24	8.4	7.7	7.9	8.0	88	67	69	75	3.9	764.4	6.096
25	8.8	6.8	6.8	7.5	95	68	82	82	1.1	531.2	5.969
26	4.8	4.5	4.6	4.6	59	55	60	58	4.4	510.0	2.286
27	4.8	5.8	5.2	5.3	58	61	59	59	8.6	414.2	
28	4.9	5.7	5.5	5.4	53	54	62	56	10.1	251.4	
	7.79	8.40	7.83	7.96	69.8	65.5	71.8	69.1	6.06	416.23	6.839

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.; Max. 1.75 m.; Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

FEBRUARY 1938

METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	0	0	0.0	0	2n	1n	mod.	gale p.m.
2	9cu	10ni	10ni	9.7	2s	2s	1s	rough	" "
3	6cu	3cu	0	3.0	1s	0	1e	mod.	
4	1cu	7cu	0	2.7	2se	2n	2se	slight	mist a.m.
5	0	0	0	0.0	2se	3n	2n	calm	
6	3cu	9nicu	10ni	7.3	3s	5sw	4s	slight	ltng., hail at night
7	10ni	9nicu	10ni	9.7	5s	5s	6s	rough	
8	8nicu	10ni	10ni	9.3	4s	6s	4s	"	
9	10ni	10cu	10cu	10.0	3s	3s	7s	"	
10	7cu	10nicu	10cu	9.0	8nw	5sw	1s	stormy	snow flurry a.m.
11	7cu	10cu	10nicu	9.0	2se	3s	4s	mod.	
12	10stcu	1cu	3ci	4.7	3s	2sw	2sw	"	
13	10ci	10ci	10cicu	10.0	2e	2nw	2s	"	
14	2cicu	1cu	0	1.0	sw	w	w	"	mist a.m.
15	2cu	0	0	0.7	se	n	s	"	" "
16	0	3ci	0	1.0	3se	2n	3s	slight	" "
17	5ci	10ci	6ci	7.0	1ne	1sw	2se	"	" "
18	3ci	5ci	4cicu	4.0	3s	4s	1s	"	" "
19	8cu	8ci	2cicu	6.7	2s	2w	3e	"	
20	9ci	4ci	0	4.3	1se	2n	2se	"	
21	9cicu	10cicu	0	6.3	3se	4s	3s	calm	ltng. at night
22	3st	10nicu	10ni	7.7	5s	7s	5s	stormy	gale at night
23	10nicu	10nicu	6cu	8.7	5s	5s	4s	"	
24	10ni	10ni	9cu	9.7	5s	5s	4sw	rough	
25	10ni	10ni	10ni	10.0	2s	4s	4s	"	
26	9cu	9cu	9cu	9.0	4sw	4w	5n	"	
27	10cu	2cu	0	4.0	2e	4n	6n	mod.	
28	0	2cu	7cu	3.0	3se	2s	2se	slight	
29					26	26	26		
30									
31					76	86	81		
				5.97	2.9	3.3	3.1		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	0	1	2	8	13	2	0	1	1	28
14:30	7	0	0	0	12	4	3	1	1	28
20:30	4	0	2	4	15	2	1	0	0	28
Totals	11	1	4	12	40	8	4	2	2	84

Number of days with rain 14, fog 0, thunderstorms 0, gales 3.

50 yr. average number of days with rain during month 13.6

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

LIBRARY
MAY 1 1938
WEATHER BUREAU

MARCH, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

88904

MARCH 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	64.7	64.1	63.3	64.0	12.2	7.2	8.4	10.0	10.4	9.6
2	1.2	0.3	0.6	0.7	12.8	6.6	10.0	9.9	7.9	9.3
3	1.8	2.5	4.1	2.8	13.6	7.3	8.8	12.7	8.1	9.9
4	5.1	4.3	4.1	4.5	16.1	10.4	11.5	15.4	10.8	12.6
5	2.3	0.8	0.4	1.2	18.6	13.3	15.7	18.2	13.9	15.9
6	57.8	57.9	58.6	58.1	17.4	8.8	14.9	16.7	13.7	15.1
7	61.3	61.5	63.3	62.0	14.4	9.4	12.8	14.1	10.4	12.4
8	3.4	2.5	2.3	2.7	15.9	10.8	13.8	15.2	12.3	13.8
9	3.0	3.6	4.3	3.6	17.7	12.1	14.8	17.1	12.8	14.9
10	4.7	4.1	4.1	4.3	17.8	10.6	14.3	16.7	12.6	14.5
11	63.7	62.2	62.8	62.9	18.5	11.5	15.0	17.9	13.6	15.5
12	2.7	2.0	1.8	2.2	18.8	11.0	15.0	18.3	13.5	15.6
13	0.8	59.8	59.7	0.1	17.7	11.0	16.7	13.3	11.8	13.9
14	0.0	9.7	9.8	59.8	18.4	10.1	12.5	16.7	13.6	14.3
15	57.7	7.0	6.7	7.1	13.7	9.3	10.6	10.3	11.1	10.7
16	60.1	62.1	63.6	61.9	15.0	8.7	12.6	13.7	10.1	12.1
17	3.3	2.6	2.1	2.6	17.6	9.8	11.8	15.3	11.1	12.7
18	2.5	2.6	4.5	3.2	17.9	10.9	14.6	17.2	11.9	14.6
19	5.4	5.5	7.7	6.2	18.4	10.3	16.0	17.1	12.7	15.3
20	70.7	9.5	8.6	9.6	19.5	12.1	16.9	18.8	15.0	16.9
21	67.6	64.5	63.8	65.3	18.3	13.1	15.9	16.8	13.1	15.3
22	1.8	58.6	59.4	59.9	19.7	13.9	15.9	18.4	16.3	16.9
23	2.1	61.4	62.8	62.1	22.4	13.1	17.3	20.8	15.3	17.8
24	2.7	2.2	3.2	2.9	20.5	12.5	16.4	19.8	15.5	17.2
25	3.5	3.2	4.0	3.6	20.4	12.4	17.7	15.5	13.5	15.6
26	64.7	63.6	64.4	64.2	19.9	12.4	16.8	19.3	14.6	16.9
27	4.7	2.5	0.8	2.7	19.7	14.7	16.8	18.7	15.5	17.0
28	58.3	1.3	55.3	58.3	20.8	15.2	17.2	18.6	19.4	18.4
29	5.4	55.6	7.9	6.3	20.1	12 9	17.3	17.6	14.1	16.3
30	8.2	9.1	60.4	9 2	16.7	8.9	15.2	14.4	9.8	13.1
31	61.9	61.5	62.6	62.0	18 2	10.3	14.3	17.1	12.7	14.7
	762.36	761.88	762.16	762.13	17.70	10.99	14.44	16.12	12.81	14.48

Barometer, range for month 755.3 mm.—770.7 mm.
,, 50-yr. average for month 761.163 mm.
Thermometer, range for month 6.6° C.—22.4° C.
,, 50-yr. average for month 16.19° C.
Rain, total for month 96.139 mm.
,, , 50-yr. average for month 98.300 mm.
,, , total, Sept. 1st to end of month 1118.346 mm.
,, 50-yr. average, Sept. 1st to end of month 826.02 mm.

MARCH 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	7.5	8.2	6.6	7.4	91	90	70	84	1.5	294.7	4.064
2	7.2	7.5	7.3	7.3	79	84	91	85	0.6	513.1	24.638
3	6.6	5.8	7.8	6.7	93	61	72	75	3.7	279.0	3.175
4	7.1	6.7	7.3	7.0	70	51	76	66	8.1	263.4	
5	7.6	8.6	8.4	8.2	57	55	71	61	9.1	224.3	
6	8.2	8.7	7.6	8.2	65	61	65	64	4.9	167.4	
7	6.3	9.4	6.1	7.3	58	79	64	67	8.9	251.4	1.524
8	7.0	8.0	6.8	7.3	56	63	64	61	2.9	350.5	3.810
9	9.9	9.1	9.2	9.4	79	64	83	75	9.1	200.8	5.461
10	9.1	9.0	8.1	8.7	76	64	76	72	9.2	282.0	
11	8.7	8.9	9.0	8.9	69	58	78	68	9.3	297.0	
12	9.0	8.4	9.2	8.9	71	52	79	67	7.0	398.1	
13	9.1	9.9	8.3	9.1	65	87	80	77	3.0	453.8	14.478
14	10.1	9.2	8.8	9.4	94	65	76	78	6.3	419.7	4.826
15	8.5	8.9	8.0	8.5	89	95	82	89	0.2	523.4	17.145
16	6.5	6.4	6.1	6.3	61	54	66	60	8.1	473.6	
17	7.9	8.4	8.3	8.2	76	64	85	75	4.0	401.6	2.286
18	8.5	8.4	7.0	7.9	68	56	68	64	7.1	319.2	2.159
19	8.7	8.5	6.6	7.9	65	59	60	61	7.4	424.7	
20	8.0	8.4	7.9	8.1	56	52	62	57	9.7	432.7	
21	9.6	9.9	10.6	10.0	71	70	95	79	0.4	285.5	
22	10.7	10.9	9.8	10.5	79	70	72	74	0.0	303.0	
23	10.1	12.9	10.3	11.1	68	70	79	72	9.7	255.8	
24	10.6	12.1	11.3	11.3	77	70	87	78	9.7	394.6	
25	10.7	10.2	9.3	10.1	71	78	80	76	5.5	421.3	5.080
26	10.6	11.5	10.4	10.8	74	69	83	75	9.7	293.2	
27	10.5	11.5	11.5	11.2	73	72	88	78	6.1	215.6	
28	11.8	11.5	9.4	10.9	81	73	56	70	0.6	298.5	
29	9.7	9.8	8.0	9.2	66	66	66	66	7.0	587.2	5.969
30	7.6	7.2	8.2	7.7	59	59	90	69	3.8	425.4	
31	7.7	7.4	7.1	7.4	63	52	64	60	8.0	318.6	1.524
	8.78	9.09	8.33	8.74	73.6	66.6	75.1	71.1	5.8	347.07	3.101

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

MARCH, 1938

METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	10nicu	10ni	5cu	8.3	2s	2s	4se	slight	
2	10ni	10ni	10ni	10.0	3s	4s	4s	"	ltng, thunder hail p.m.
3	10ni	7cu	0	5.7	6s	3nw	2ne	mod.	
4	9stcu	4ci	0	4.3	2se	3n	3e	slight	
5	4ci	2cu	3cu	3.0	1e	3n	2se	mod.	
6	10cicu	10cu	9cu	9.7	2s	2s	0	"	violent squall from N. at night.
7	5cu	1cu	1cu	2.3	1n	1sw	2e	"	
8	3stcu	10ni	10ni	7.7	3se	3s	3s	slight	
9	5cu	3stcu	7stcu	5.0	1se	2nw	1e	mod	
10	0	0	0	0.0	2ne	3n	3n	slight	
11	0	0	0	0.0	1ne	3n	3n	"	mist a.m.
12	10cu	0	10cu	6.7	2s	3s	3s	calm	
13	10cu	8cu	4cu	7.3	3s	4s	3s	"	
14	10ni	7cu	7cu	8.0	3w	4s	4s	slight	
15	10ni	10ni	10ni	10.0	2s	3s	5n	"	
16	7cu	4cu	2cu	4.3	5n	4nw	3n	rough	
17	9cu	10cu	10cu	9.7	3s	3s	3s	mod.	
18	4cu	5cu	0	3.0	3se	2nw	3se	calm	
19	4cu	3cu	2cu	3.0	2se	5n	3n	mod	
20	0	0	3cu	1.0	2se	4n	3n	"	
21	10cicu	10ci	3ci	7.7	3sw	2n	3se	slight	
22	10cicu	10cicu	4ci	8.0	2n	3e	3e	"	
23	2st	0	0	0.7	3sw	2w	2e	"	
24	0	3cu	5cu	2.7	3s	3s	3se	"	
25	6cu	10ni	5cu	7.0	4s	3s	3s	mod	
26	3cu	5cu	0	2.7	3s	3sw	2sw	slight	
27	0	10ci	10cu	6.7	2sw	2w	2se	"	
28	10cu	10cu	7cu	9.0	2s	1sw	3e	calm	
29	6cu	7cu	4cu	5.7	5s	4s	4s	rough	
30	8nicu	5cu	6cu	6.3	3s	4w	2s	"	
31	4cu	8stcu	6ci	6.0	2s 81	3w 91	2se 86	slight	
				5.53	2.6	2.9	2.8		
					8	10	9		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	3	2	1	6	15	3	1	0	0	31
14:30	7	0	1	0	12	3	4	4	0	31
20:30	6	1	6	7	9	1	0	0	1	31
Totals	16	3	8	13	36	7	5	4	1	93

Number of days with rain 14, fog 0, thunderstorms 0, gales 0.

50 yr. average number of days with rain during month 10.9

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

APRIL, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

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JUN 9 1938
WEATHER BUREAU

APRIL 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	65.1	65.0	66.0	65.4	19.1	10.8	14.8	18.3	12.3	15.1
2	6.4	5.8	5.7	6.0	19.7	13.3	16.9	18.8	13.1	16.3
3	6.0	5.0	5.8	5.6	20.7	13.7	17.8	20.2	16.1	18.0
4	6.5	4.7	4.3	5.2	22.1	16.2	18.2	20.4	17.8	18.8
5	1.2	59.3	58.6	59.7	27.2	18.9	21.8	26.4	20.9	23.0
6	58.4	58.4	60.3	59.0	24.4	17.0	20.6	18.9	17.9	19.1
7	9.6	9.2	59.5	9.4	24.2	15.3	20.9	22.6	16.4	20.0
8	60.2	9.1	9.0	9.4	21.6	13.1	18.6	20.6	16.4	18.3
9	59.1	8.0	8.5	8.5	19.3	14.0	16.4	18.4	16.2	17.0
10	61.9	62.8	63.8	62.8	23.3	13.7	18.6	21.2	15.7	18.5
11	64.2	62.5	62.0	62.9	21.7	13.8	19.1	21.0	16.1	18.7
12	0.9	58.2	55.5	58.2	22.5	15.6	19.1	21.7	16.6	19.1
13	55.6	6.1	6.6	6.1	21.3	12.9	19.1	21.1	15.7	18.6
14	6.8	8.6	60.6	8.7	18.5	12.1	14.3	16.7	13.8	14.9
15	61.8	61.9	62.1	61.9	17.8	13.7	16.8	17.6	14.1	16.2
16	58.3	50.8	53.1	54.1	27.7	15.6	15.9	26.1	19.8	20.6
17	5.9	7.4	8.0	7.1	19.9	11.5	17.5	15.6	14.4	15.8
18	8.6	60.2	62.8	60.5	19.7	12.3	12.3	17.7	14.8	14.9
19	64.5	4.1	4.0	4.2	21.1	14.5	17.5	20.2	16.2	18.0
20	3.2	1.8	1.0	2.0	23.2	16.7	19.9	22.0	18.6	20.2
21	59.1	57.2	56.3	57.5	28.3	21.0	23.8	25.3	19.4	22.8
22	5.7	5.0	6.5	5.7	26.9	21.2	23.3	24.9	21.6	23.3
23	8.3	8.2	8.6	8.4	26.7	18.1	23.3	23.9	21.6	22.9
24	60.7	8.1	9.5	9.4	23.9	16.9	19.4	23.0	19.4	20.6
25	58.4	7.5	8.3	8.1	24.4	16.8	21.9	23.4	18.3	21.2
26	57.8	55.3	52.6	55.2	26.0	19.2	19.2	21.9	19.8	20.3
27	0.2	3.8	7.1	3.7	30.9	16.4	25.2	22.8	18.4	22.1
28	8.6	7.6	7.4	7.9	24.3	17.3	20.3	20.5	18.2	19.7
29	8.4	60.1	60.9	9.8	23.3	14.2	20.0	22.9	17.2	20.0
30	62.2	1.7	1.1	1.7	24.1	16.1	19.8	22.6	18.2	20.2
	760.12	759.45	759.85	759.80	23.13	15.40	19.08	21.22	17.17	19.14

Barometer, range for month 750.2 mm.–766.5 mm.
,, 50-yr. average for month 760.038 mm.
Thermometer, range for month 10.8° C.–30.9° C.
,, 50-yr. average for month 18.90° C.
Rain, total for month 35.699 mm.
,, , 50-yr. average for month 55.88 mm.
,, , total, Sept. 1st to end of month 1157.005 mm.
,, 50-yr. average, Sept. 1st to end of month 881.90 mm.

APRIL 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	8.0	8.4	7.8	8.1	64	53	73	63	8.5	294.8	1.194
2	8.7	10.7	7.9	9.1	60	67	70	66	10.1	330.1	
3	10.4	11.3	11.0	10.9	69	64	82	72	10.1	294.0	
4	11.3	13.4	10.2	11.6	73	75	67	72	10.2	265.5	
5	10.1	8.6	10.0	9.6	52	34	54	47	9.6	324.8	
6	10.6	12.0	11.1	11.2	58	74	73	68	0.6	481.5	
7	11.4	13.3	13.3	12.7	62	65	96	74	9.8	397.5	
8	11.2	10.6	11.6	11.1	71	57	84	71	8.7	266.7	
9	10.0	10.6	12.1	10.9	72	68	88	76	1.4	179.3	
10	10.5	12.5	10.9	11.3	67	67	83	72	10.2	198.7	
11	10.9	10.6	11.3	10.9	67	58	84	70	10.3	307.2	
12	12.1	13.0	12.8	12.6	74	68	91	78	9.5	242.2	
13	12.2	10.7	13.1	12.0	74	57	99	77	5.2	717.8	
14	9.3	11.7	9.8	10.3	77	83	83	81	3.0	490.2	8.422
15	10.3	10.8	9.5	10.2	73	72	79	75	1.2	304.8	2.413
16	10.4	8.3	9.9	9.5	78	32	57	56	0.1	780.0	
17	9.0	10.4	9.6	9.7	61	80	78	73	3.9	804.0	5.461
18	12.3	14.7	13.5	13.5	99	69	85	84	3.9	392.4	18.209
19	10.7	11.9	11.8	11.5	72	67	86	75	9.5	476.6	
20	13.4	14.7	12.0	13.4	77	75	75	76	11.5	157.8	
21	10.7	16.4	13.1	13.4	50	69	78	66	8.4	47.6	
22	14.9	15.7	13.3	14.6	70	67	69	68	10.3	45.8	
23	13.3	15.4	13.3	14.0	62	70	69	67	7.5	114.3	
24	15.3	16.0	13.9	15.1	91	77	83	84	5.2	347.3	
25	15.4	15.7	15.6	15.6	78	74	99	84	12.0	205.2	
26	14.5	15.6	15.4	15.2	87	80	90	86	2.7	407.4	
27	12.3	13.9	13.6	13.2	52	68	86	69	10.0	550.0	
28	13.8	14.0	13.9	13.9	78	78	89	82	8.4	460.2	
29	13.3	12.6	10.8	12.2	77	61	74	71	9.8	352.0	
30	12.2	13.4	13.2	12.9	70	66	85	74	12.6	273.3	
	11.61	12.56	11.84	12.01	70.5	66.5	80.3	72.6	7.47	343.60	1.190

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.; Max. 1.75 m.; Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

APRIL, 1938

METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	10cu	4cicu	0	4.7	3s	2sw	3s	slight	
2	4cu	5cu	0	3.0	3s	3s	2s	"	
3	3ci	3ci	4ci	3.3	3sw	2w	3nw	"	
4	0	3stcu	10ci	4.3	2n	2n	3ne	mod.	
5	6stcu	10ci	7ci	7.7	3s	4n	3ne	slight	
6	10ci	10cu	10cu	10.0	3s	6n	3w	mod.	
7	0	0	2	0.7	2s	4s	3s	slight	mist a.m.
8	8cu	5cu	9cu	7.3	3w	3sw	2s	mod	
9	10cu	6cu	0	5.3	2s	2se	1s	slight	
10	1cu	4cu	0	1.7	2s	3w	1se	"	
11	0	0	2ci	0.7	2n	3n	4ne	"	
12	0	10ci	6cu	5.3	2n	2n	2s	calm	mist a.m.
13	10cu	5cu	10nicu	8.3	4s	4s	4s	rough	
14	10ni	10ni	8cu	9.3	6s	4s	3s	stormy	hail a.m.
15	10nicu	10cu	10cu	10.0	2s	3s	3s	rough	
16	10cicu	10ci	10ci	10.0	2e	4e	6w	mod	
17	10cu	10ni	4cu	8.0	4s	5s	5s	rough	
18	10ni	8cu	4cu	7.3	5s	3s	3s	stormy	
19	3stcu	10stcu	3cu	5.3	2sw	3n	5n	mod.	mist a.m.
20	6cist	3ci	0	3.0	2n	2n	1n	slight	
21	10ci	10ci	0	6.7	2s	1w	0	calm	mist a.m.
22	0	6ci	10cu	5.3	0	1se	1e	"	
23	9ci	10cu	10cicu	9.7	1nw	2nw	1se	"	mist a.m
24	10cu	7ci	0	5.7	2s	3n	3n	"	" "
25	0	0	6cu	2.0	2n	3nw	2n	"	" "
26	10cu	10ci	0	6.7	2ne	3n	3ne	slight	" "
27	0	0	0	0.0	2s	4s	4s	rough	" "
28	5cu	10cu	10cu	8.3	3sw	3s	3s	mod.	" "
29	4stcu	3cu	2st	3.0	2n	3nw	3w	slight	
30	0	0	4cu	1.3	4s	3nw	2s	"	
					77	90	82		
				5.46	2.6	3.0	2.7		

8 10 9

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	6	1	1	0	15	4	1	1	1	30
14:30	9	0	1	2	9	2	3	4	0	30
20:30	4	4	1	2	14	0	3	1	1	30
Totals	19	5	3	4	38	6	7	6	2	90

Number of days with rain 5, fog 0, thunderstorms 0, gales 0.

50 yr. average number of days with rain during month 6.3

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

MAY, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

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JUL 23 1938
WEATHER BUREAU

MAY 1938

METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	58.5	57.5	56.3	57.4	25.6	16.8	21.1	22.2	17.7	20.3
2	5.7	5.1	5.1	5.3	23.3	16.7	22.7	17.2	17.8	19.2
3	5.0	5.3	6.6	5.6	21.5	16.2	18.8	20.6	17.6	19.0
4	6.5	6.5	6.5	6.5	22.1	16.4	19.3	20.9	17.3	19.2
5	9.2	60.2	61.7	60.4	23.1	15.2	20.0	21.8	16.2	19.3
6	63.0	61.9	61.6	62.2	23.4	17.4	20.7	22.0	19.4	20.7
7	0.6	59.8	58.7	59.7	25.5	17.3	20.5	24.2	21.1	21.9
8	57.1	7.7	7.0	7.3	29.8	18.3	20.7	28.2	20.7	23.2
9	9.4	9.2	9.9	9.5	28.8	18.4	24.8	27.3	19.9	24.0
10	60.8	61.1	61.3	61.1	27.2	18.3	22.2	25.8	20.5	22.8
11	61.9	61.5	61.8	61.7	28.1	18.9	23.3	26.2	20.6	23.4
12	0.7	1.2	1.1	1.0	28.1	17.9	23.6	25.4	21.2	23.4
13	1.6	1.5	0.5	1.2	25.0	16.4	22.1	24.1	21.1	22.4
14	0.7	0.4	1.2	0.8	24.8	16.7	22.0	23.4	19.2	21.5
15	1.3	1.0	1.3	1.2	24.3	16.9	21.1	22.9	18.4	20.8
16	61.0	61.4	61.4	61.3	24.0	14.6	19.9	23.3	18.2	20.5
17	1.2	0.8	1.4	1.1	23.2	15.9	17.3	20.6	17.2	18.4
18	1.3	1.3	1.8	1.5	25.3	16.1	21.3	24.4	17.8	21.2
19	2.7	2.7	2.4	2.6	25.3	17.2	21.8	23.8	19.4	21.7
20	1.4	0.1	59.6	0.4	27.6	19.9	23.7	25.0	21.1	23.3
21	58.6	57.4	57.4	57.8	28.0	19.8	24.7	26.8	23.1	24.9
22	9.3	8.9	9.8	9.3	32.6	19.6	25.2	29.7	21.7	25.5
23	9.6	60.8	7.8	9.4	29.8	19.2	24.3	29.4	22.2	25.3
24	7.8	56.2	6.1	6.7	28.9	19.2	24.2	27.9	21.8	24.6
25	7.2	7.7	8.5	7.8	26.9	19.4	24.1	25.8	20.4	23.4
26	59.4	60.2	60.8	60.1	26.1	18.2	22.9	24.9	19.5	22.4
27	61.0	0.9	1.3	1.1	26.3	17.7	23.4	24.8	19.8	22.3
28	0.9	0.5	0.9	0.8	26.5	18.1	22.3	24.7	19.9	22.3
29	1.2	0.5	0.6	0.8	27.5	18.3	23.6	26.4	21.8	23.9
30	59.5	58.8	59.7	59.3	27.2	17.2	24.2	26.1	20.4	23.6
31	9.4	9.2	60.3	9.6	27.1	18.3	23.3	26.2	20.2	23.2
	759.79	759.53	759.69	759.67	26.23	17.63	22.23	24.58	19.78	22.18

Barometer, range for month 755.0 mm.—763.0 mm.

,, 50-yr. average for month 759.624 mm.

Thermometer, range for month 14.6° C.—32.6° C.

,, 50-yr. average for month 22.19° C.

Rain, total for month 37.258 mm.

,, , 50-yr. average for month 20.83 mm.

,, , total, Sept. 1st to end of month 1194.771 mm.

,, 50-yr. average, Sept. 1st to end of month 902 73 mm.

MAY 1938

METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	17.5	17.7	14.2	16.5	94	89	94	92	3.8	247.2	
2	9.9	12.4	13.5	11.9	48	82	88	73	9.1	723.4	5.330
3	11.8	13.0	11.8	12.2	73	73	78	75	6.3	542.7	6.350
4	10.8	10.4	11.0	10.7	65	56	75	65	10.1	552.3	trace
5	12.0	12.3	12.1	12.1	69	63	89	74	11.7	251.1	0.889
6	13.4	13.6	12.3	13.1	74	69	73	72	12.2	447.6	
7	13.7	15.8	14.8	14.5	76	70	79	75	11.6	280.9	
8	14.0	16.1	15.0	15.0	78	57	82	72	12.7	256.0	
9	13.0	14.7	14.5	14.1	56	54	83	64	12.8	188.1	
10	15.1	16.7	13.8	15.2	76	67	77	73	12.9	233.0	
11	15.1	16.3	16.6	16.0	71	65	92	76	11.3	251.2	
12	13.3	15.9	14.1	14.6	63	66	76	68	11.3	518.2	
13	13.2	13.5	16.1	14.3	66	63	83	71	10.6	437.0	
14	12.3	15.9	12.3	13.5	63	74	75	71	12.3	431.1	
15	11.9	11.6	12.0	11.8	64	54	77	65	11.1	530.0	2.418
16	11.5	12.3	11.5	11.8	67	57	75	66	9.7	424.2	3.886
17	12.6	13.1	12.5	12.7	85	73	86	81	7.8	386.4	18.390
18	12.7	13.8	12.8	13.1	67	61	84	71	13.2	184.6	
19	13.9	13.7	13.2	13.6	71	62	79	71	12.9	276.0	
20	13.1	15.3	13.8	14.1	59	65	73	66	13.0	408.7	
21	14.5	15.6	13.2	14.4	63	58	63	61	12.3	316.2	
22	17.0	19.6	15.4	17.3	72	63	80	72	13.1	209.8	
23	17.8	19.0	13.9	16.9	79	62	69	70	12.6	305.7	
24	16.8	20.0	15.8	17.5	75	71	81	76	11.7	356.1	
25	16.4	16.0	15.4	15.9	73	65	86	75	12.5	421.3	
26	13.0	13.2	12.9	12.4	57	53	77	62	11.3	375.3	
27	12.5	12.9	12.9	12.8	58	56	76	63	10.3	384.4	
28	13.2	13.8	13.0	13.3	65	59	75	66	12.4	187.3	
29	14.4	15.7	16.2	15.4	66	61	83	70	13.0	181.2	
30	15.5	16.1	14.9	15.5	69	63	83	72	13.0	242.3	
31	14.4	15.2	15.2	14.9	67	60	86	71	12.9	236.0	
	13.74	14.85	13.76	14.11	68.7	64.2	79.9	70.9	11.34	344.69	1.202

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

MAY, 1938

METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	7ci	0	2.3	3w	2s	2n	calm	
2	10cu	10ni	10ni	10.0	4s	5se	6s	„	mist a.m.
3	5cu	4cu	3cu	4.0	4s	5s	4s	rough	„ „
4	4cu	5cu	7cu	5.3	4s	5s	4s	„	
5	6cu	0	0	2.0	3s	3s	1s	mod.	lightning at night
6	4cu	2cu	7cu	4.3	2nw	4n	4ne	„	
7	5stcu	2cu	0	2.3	2nw	3n	4ne	slight	mist a.m.
8	0	0	0	0.0	2se	2w	3w	„	„ „ plus dew
9	0	0	3ci	1.0	2nw	3nw	1n	calm	dew a.m.
10	2ci	0	6ci	2.7	2s	2nw	2e	„	„ „
11	3ci	4ci	0	2.3	2sw	2nw	2n	„	heavy dew a.m.
12	10ci	6stci	0	5.3	4s	4s	4s	slight	mist a.m.
13	3cu	10ci	0	4.3	4s	4s	3s	mod.	
14	7cu	6cu	6cu	6.3	3s	4sw	3s	„	
15	5cu	7cu	6cu	6.0	4s	4sw	3s	„	
16	10cu	7cu	6cu	7.7	4s	4s	2s	„	
17	9nicu	9cu	4cu	7.3	4s	4s	3s	slight	
18	2cu	2stcu	0	1.3	2sw	3sw	2sw	„	
19	0	0	0	0.0	2sw	2n	3ne	„	mist a.m.
20	0	0	0	0.0	2n	3n	4n	„	
21	7cist	4cu	0	3.7	3se	3n	3ne	mod	
22	3stcu	0	0	1.0	2s	3nw	1ne	slight	„ „
23	0	0	0	0.0	1sw	2n	4se	„	fog a.m.
24	7ci	4ci	0	3.7	3s	2s	2sw	calm	heavy dew a.m.
25	7cu	3cu	0	3.3	4s	4sw	2s	slight	
26	2cu	2cu	0	1.3	2sw	4sw	2s	mod.	
27	5cu	5cu	8cu	6.0	2sw	3sw	2s	„	
28	4cu	3cu	3cu	3.3	1nw	2n	1n	slight	mist a.m.
29	0	0	0	0.0	2nw	3nw	2nw	calm	„ „
30	5cu	2st	0	2.3	2sw	3sw	2sw	„	
31	3cu	0	0	1.0	3sw	3sw	1sw	slight	
				3.23	2.7	3.2	2.6		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	1	0	0	2	14	8	1	5	0	31
14:30	7	0	0	1	9	8	1	5	0	31
20:30	5	5	1	1	13	4	1	1	0	31
Totals	13	5	1	4	36	20	3	11	0	93

Number of days with rain 6, fog 1, thunderstorms 0, gales 0.

50 yr. average number of days with rain during month 3.2

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

JUNE, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

JUNE 1938

METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	60.7	60.8	60.4	60.6	27.8	19.2	24.1	26.3	21.1	23.8
2	59.8	59.6	59.2	59.5	28.3	20.6	24.5	27.7	21.4	24.5
3	9.0	7.5	7.7	8.1	28.9	19.2	24.3	27.5	21.7	24.5
4	7.0	6.1	6.2	6.4	29.8	20.3	25.3	28.1	22.3	25.2
5	6.2	5.8	5.8	5.9	29.8	19.6	25.0	27.3	23.6	25.0
6	56.3	56.5	56.8	56.5	28.3	20.0	25.0	27.8	22.2	25.0
7	6.7	6.5	8.1	7.1	28.3	19.6	25.0	27.6	22.8	25.1
8	8.0	7.5	8.3	7.9	28.9	20.0	24.3	27.7	22.4	24.8
9	8.2	7.5	7.9	7.9	29.6	19.5	25.0	28.3	23.3	25.5
10	8.0	7.6	7.3	7.6	29.2	20.1	25.0	27.9	22.0	25.0
11	57.7	57.2	57.2	57.4	29.2	19.8	23.9	28.3	22.8	25.0
12	7.0	7.0	6.8	6.9	29.7	20.6	26.5	29.4	23.6	26.5
13	6.3	6.2	6.6	6.4	29.4	20.5	25.9	28.6	23.3	25.9
14	7.3	7.1	7.6	7.3	30.9	20.9	26.1	29.7	23.2	26.3
15	8.2	7.9	7.7	7.9	31.0	21.8	27.0	29.5	23.9	26.8
16	56.8	53.6	53.7	54.7	30.0	22.7	26.4	28.8	24.1	26.4
17	3.3	3.2	3.3	3.3	29.4	20.3	26.1	27.9	22.3	25.4
18	3.2	3.2	3.5	3.3	29.8	21.2	25.9	29.2	22.8	26.0
19	4.6	4.6	4.9	4.7	30.1	20.8	26.4	28.8	23.0	26.1
20	5.2	4.9	5.0	5.0	30.7	21.5	26.0	27.6	21.8	25.1
21	54.8	54.6	55.1	54.8	31.5	21.1	28.0	29.6	24.2	27.3
22	4.6	4.2	4.6	4.5	30.9	21.2	26.7	30.4	25.7	27.6
23	3.6	3.1	3.1	3.3	30.6	21.7	25.8	28.5	23.9	26.1
24	5.9	5.4	5.8	5.7	30.2	22.0	27.2	29.6	24.7	27.2
25	6.5	5.5	6.3	6.1	30.7	22.7	27.8	30.3	24.8	27.6
26	56.1	54.9	55.8	55.6	31.2	22.0	27.1	29.8	24.9	27.3
27	5.0	4.7	5.0	4.9	31.1	23.3	27.2	29.6	25.3	27.4
28	4.3	3.9	3.9	4.0	30.9	23.7	26.7	29.5	26.0	27.4
29	3.5	3.6	4.2	3.5	30 9	23.7	26.7	30.3	25.0	27.3
30	4.8	5.4	5 5	5.2	30.5	22.5	28.0	30.4	24.1	27.5
	756.29	755.85	756.11	756.07	29.92	21.07	25.96	28.70	23.37	26.02

Barometer, range for month 753.1 mm. –760.8 mm.
,, 50-yr. average for month 758.151 mm.
Thermometer, range for month 19.2° C.—31.5° C.
,, 50-yr. average for month 25.38° C.
Rain, total for month 0.0 mm.
,, , 50-yr. average for month 3.81 mm.
,, , total, Sept. 1st to end of month 1194.77 mm.
,, 50-yr. average, Sept. 1st to end of month 906.54 mm.

JUNE 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	14.6	15.5	16.3	15.5	67	60	87	71	13.2	206.6	
2	17.5	17.5	16.0	17.0	77	63	84	75	13.4	292.3	
3	16.9	16.7	16.5	16.4	71	61	86	73	13.3	194.6	
4	16.9	13.8	16.9	15.9	71	49	85	68	13.4	295.6	
5	15.2	15.5	18.1	16.3	65	57	88	70	13.3	218.6	
6	16.5	16.1	17.0	16.5	70	58	86	71	13.0	198.4	
7	16.5	17.3	17.6	17.1	70	63	85	73	13.0	291.4	
8	17.2	17.1	18.9	17.7	76	61	93	77	13.3	196.4	
9	17.2	17.5	18.0	17.6	73	60	85	73	12.6	305.3	
10	17.0	18.7	16.5	17.4	72	67	85	75	13.3	227.1	
11	15.7	18.1	15.1	16.3	71	63	73	69	9.8	283.1	
12	14.7	15.4	16.1	15.4	57	51	74	61	12.5	375.4	
13	16.8	17.6	18.1	17.5	70	60	85	72	13.0	429.3	
14	17.5	18.2	18.7	18.1	69	58	88	72	12.9	234.6	
15	18.2	18.8	19.3	18.8	68	61	88	72	13.5	295.3	
16	18.1	19.2	17.9	18.4	71	64	80	72	13.0	586.3	
17	13.2	16.0	14.2	14.5	52	57	70	60	10.7	458.4	
18	14.2	14.7	14.7	14.5	57	49	71	59	10.8	350.7	
19	15.3	16.6	16.7	16.2	59	56	80	65	11.8	259.2	
20	17.3	20.0	16.7	18.0	67	73	86	72	13.1	209.4	
21	17.3	17.9	17.8	17.7	62	58	80	67	13.1	179.0	
22	18.3	18.8	16.2	17.8	70	58	66	65	13.0	301.8	
23	17.3	20.6	18.2	18.7	70	71	82	74	13.2	361.3	
24	18.5	20.3	18.7	19.2	69	65	81	72	13.1	286.6	
25	18.2	19.1	20.0	19.1	66	59	85	70	12.8	278.6	
26	18.3	19.6	19.7	19.2	69	62	88	71	12.8	316.4	
27	19.1	20.6	17.8	19.2	72	66	83	74	13.0	562.8	
28	17.6	18.2	17.8	17.9	67	60	71	66	12.6	614.5	
29	17.7	17.7	18.7	18.0	67	55	79	67	12.3	559.5	
30	18.7	18.7	19.2	18.9	66	58	86	70	11.0	391.1	
	16.88	17.73	17.45	17.36	67.7	60.1	81.8	69.9	12.66	325.31	

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

JUNE, 1938

METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	5cicu	3cu	0	2.7	2s	2nw	0	calm	
2	4stcu	2cu	0	2.0	2n	2nw	2sw	slight	dew and mist a.m.
3	0	0	0	0.0	2nw	2n	2sw	,,	,, ,, ,, ,,
4	0	0	0	0.0	2n	2n	3n	calm	,, ,, ,, ,,
5	0	0	4cu	1.3	2sw	2sw	1s	,,	
6	3cu	3cu	0	2.0	3s	2s	1s	slight	mist a.m.
7	0	0	0	0.0	3s	3sw	1s	calm	
8	0	0	0	0.0	3s	3s	2sw	slight	dew and mist a m.
9	0	0	0	0.0	2sw	3s	3s	calm	mist a.m.
10	0	0	0	0.0	3s	3s	2sw	slight	,, ,,
11	5cu	8cu	9cu	7.3	2s	3s	2s	,,	
12	6cu	5cu	5cu	5.3	2sw	3sw	3s	mod.	mist a.m.
13	3cu	3cu	3cu	3.0	3s	3sw	3s	,,	,, ,,
14	2cu	0	0	0.7	3s	2nw	2sw	slight	,, ,,
15	0	0	0	0.0	3s	2nw	1sw	calm	
16	0	0	3cu	1.0	4s	5s	4s	mod.	
17	6stcu	3cu	3cu	4.0	3sw	4s	3s	,,	
18	4cu	5cu	0	3.0	3s	3s	3s	rough	
19	0	4cu	0	1.3	3s	3s	1se	mod	,, ,,
20	5cu	2cu	4cu	3.7	4sw	2w	2se	slight	,, ,,
21	0	0	0	0.0	2sw	2n	4nw	,,	
22	2cu	0	0	0.7	3s	2nw	0	mod.	
23	0	0	0	0.0	4s	3s	3se	,,	
24	0	0	0	0.0	4s	3s	3s	slight	
25	0	0	4cu	1.3	3s	0	3s	,,	
26	0	0	3cu	1.0	2s	3sw	3s	,,	
27	2cu	3cu	0	1.7	4s	4s	3s	,,	
28	3cu	0	0	1.0	5sw	5sw	4sw	mod.	
29	0	0	3cu	1.0	4s	4s	5s	,,	
30	4cu	0	3stcu	2.3	4s	4sw	3s	,,	
31					89	84	72		
				1.54	3.0	2.8	2.4		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	2	0	0	0	20	7	0	1	0	30
14:30	3	0	0	0	12	8	1	5	1	30
20:30	1	0	0	3	16	7	0	1	2	30
Totals	6	0	0	3	48	22	1	7	3	90

Number of days with rain 0, fog 0, thunderstorms 0, gales 0.

50 yr. average number of days with rain during month 0.8

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

JULY, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

JULY 1938

METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	56.3	56.2	56.9	56.5	30.7	22.8	27.6	30.2	24.7	27.5
2	6.8	6.8	6.9	6.8	31.1	22.5	28.1	30.1	25.4	27.9
3	6.3	5.6	6.0	5.9	31.4	22.5	27.8	30.6	25.0	27.8
4	6.0	5.3	5.8	5.7	31.2	22.8	27.7	30.6	25.1	27.8
5	5.7	5.8	5.9	5.8	32.3	23.8	27.4	31.6	25.7	28.2
6	56.8	57.1	57.3	57.1	32.6	23.8	27.4	31.1	26.0	28.2
7	6.9	6.1	6.1	6.4	32.7	24.2	28.8	31.7	26.3	28.9
8	5.5	5.0	4.6	5.0	32.9	24.3	28.8	31.9	26.6	29.1
9	3.7	2.8	2.1	2.9	32.2	24.3	29.1	31.7	26.4	29.0
10	1.4	1.1	1.3	1.3	32.4	23.6	28.8	32.3	26.4	29.1
11	51.7	52.6	53.0	52.4	33.4	22.2	29.3	32.4	26.8	29.5
12	3.9	4.6	4.7	4.4	33.3	24.7	29.5	32.1	27.3	29.6
13	5.0	4.9	5.3	5.1	33.7	24.4	29.9	32.7	27.4	30.0
14	5.2	5.1	5.2	5.2	32.4	24.3	29.4	31.2	27.1	29.2
15	5.5	4.8	5.4	5.2	33.0	24.4	28.9	32.3	26.8	29.3
16	55.4	55.3	54.9	55.2	32.3	22.8	28.8	31.6	26.2	28.8
17	4.0	3.4	2.9	3.4	32.7	23.5	28.8	32.1	25.9	28.9
18	1.8	1.6	1.7	1.7	32.9	24.3	28.7	32.4	27.0	29.3
19	1.8	2.3	2.8	2.3	33.1	23.9	28.9	31.9	26.2	29.0
20	3.3	4.2	4.9	4.1	32.9	23.6	29.0	32.2	26.2	29.1
21	55.4	55.8	56.6	55.9	32.7	23.3	29.0	31.6	25.9	28.8
22	6.6	6.1	6.1	6.3	32.4	23.6	28.0	31.7	26.2	28.6
23	5.2	4.7	4.6	4.8	32.4	25.1	28.8	31.7	26.9	29.1
24	3.3	3.2	3.2	3.2	32.7	25.6	29.5	31.6	27.1	29.4
25	2.6	3.0	2.9	2.8	33.0	24.4	29.7	32.4	26.9	29.6
26	53.1	53.3	54.0	53.5	32.9	23.9	32.1	31.3	27.2	30.3
27	4.0	3.8	4.2	4.0	33.3	24.0	29.4	32.6	27.2	29.7
28	4.0	4.0	4.0	4.0	33.3	23.5	29.9	32.4	26.7	29.7
29	3.7	3.2	3.0	3.3	33.3	23.9	31.7	32.7	26.3	30.2
30	3.8	4.2	4.6	4.2	33.6	24.4	29.3	32.7	27.4	29.8
31	5.4	5.8	5.9	5.7	33.6	25.1	30.0	32.7	27.2	30.0
	754.52	754.44	754.57	754.52	32.66	23.86	29.03	31.83	26.44	29.01

Barometer, range for month 751.1 mm.—757.3 mm.
,, 50-yr. average for month 755.70 mm.
Thermometer, range for month 22.2° C.—33.7° C.
,, 50-yr. average for month 27.83° C.
Rain, total for month 0.0 mm.
,, , 50-yr. average for month 0.51 mm.
,, , total, Sept. 1st to end of month 1194.77 mm.
,, 50-yr. average, Sept. 1st to end of month 903.0 mm.

JULY 1938

METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	17.6	17.5	18.1	17.7	64	55	78	65	12.2	344.5	
2	18.6	18.2	18.9	18.6	66	57	78	67	11.6	367.0	
3	17.9	18.1	18.5	18.2	64	56	78	66	12.0	213.0	
4	18.1	17.9	18.0	18.0	65	55	76	65	11.6	61.2	
5	18.9	18.7	19.9	19.1	70	58	81	68	12.0	131.0	
6	20.1	19.6	20.8	20.2	74	58	84	72	10.9	140.0	
7	21.0	20.7	20.0	20.4	72	59	79	70	10.5	259.0	
8	20.4	20.8	21.8	21.0	70	59	84	71	12.9	334.6	
9	21.4	21.0	21.1	21.2	72	60	83	72	12.8	358.4	
10	21.1	20.8	21.5	21.1	72	57	84	71	12.9	246.4	
11	22.1	20.6	20.6	21.1	72	57	79	69	11.2	176.2	
12	21.6	20.9	21.2	21.2	69	58	78	68	8.9	188.6	
13	21.8	21.7	22.0	21.8	68	56	81	69	12.7	201.2	
14	20.9	19.1	19.4	19.8	68	56	74	66	12.0	226.0	
15	18.4	19.9	19.1	19.1	64	56	72	64	12.3	317.5	
16	16.5	16.3	16.1	16.3	55	47	64	55	11.3	296.8	
17	15.5	17.5	18.3	17.1	53	50	73	59	13.0	307.0	
18	19.6	20.8	20.0	20.1	67	66	76	70	12.6	440.5	
19	17.9	20.4	20.6	19.6	68	58	82	69	12.7	484.0	
20	19.5	20.2	19.5	19.7	65	57	77	66	12.7	370.6	
21	18.0	17.6	18.9	18.2	60	50	77	62	12.9	282.2	
22	18.5	18.0	18.0	18.2	66	52	71	63	12.5	291.5	
23	17.6	19.2	19.9	18.9	60	55	76	64	12.6	464.5	
24	19.7	19.3	21.4	20.1	64	55	81	67	11.9	538.0	
25	20.4	20.9	21.6	20.9	66	58	83	69	10.9	405.0	
26	19.0	21.0	22.8	20.9	54	60	86	67	12.4	395.4	
27	21.3	22.1	22.9	22.1	69	60	86	72	12.8	451.5	
28	19.6	21.1	19.8	20.0	62	58	76	65	13.0	381.0	
29	18.8	19.8	21.0	19.8	54	54	83	64	12.8	263.5	
30	19.8	19.7	18.9	19.5	66	51	70	62	12.5	120.0	
31	20.4	19.5	21.4	20.4	64	47	81	64	12.8	25.0	
	19.42	19.64	20.1	19.69	65.26	55.9	78.4	66.5	12.13	292.75	

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

JULY, 1938

METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	5cu	0	0	1.7	3s	3sw	2sw	slight	
2	4cu	3cu	10cu	5.7	3s	4s	2s	"	
3	2cu	0	0	0.7	3s	3sw	1sw	"	
4	5cu	0	0	1.7	2s	0	0	"	
5	5cu	0	3cu	2.7	0	2sw	1s	calm	
6	7cu	0	3ci	3.3	2w	2nw	1n	slight	
7	7cu	0	0	2.3	1w	2nw	1n	mod.	
8	8cu	0	0	2.7	4sw	3sw	3sw	"	
9	2cu	5cu	0	2.3	3s	3sw	2s	slight	
10	4cu	4cu	0	2.7	3sw	3w	1w	mod.	
11	7ci	7cu	8ci	7.3	2s	2w	1sw	slight	
12	8ci	6ci	8ci	7.3	2sw	2nw	1nw	"	
13	8cu	0	0	2.7	2w	3w	1w	"	
14	4cu	8cu	10cu	7.3	3s	3w	2w	"	
15	2cu	2cu	0	1.3	3sw	3w	3nw	"	
16	3cu	4cu	0	2.3	3sw	3w	1w	mod.	
17	2ci	4cu	0	2.0	2w	3nw	1nw	slight	
18	5cu	7cu	4cu	5.3	3sw	4sw	4w	"	
19	4cu	7cu	0	3.6	4s	4sw	4w	mod	
20	2cu	4cu	0	2.0	4s	3sw	2w	slight	
21	2cu	3cu	3cu	2.7	3s	3sw	2w	"	
22	4cu	5cu	2cu	3.7	2sw	3w	2w	"	
23	3cu	5cu ci	4cu ci	4.0	3sw	3w	3w	"	
24	4cu	3cu ci	0	2.3	4sw	4sw	4w	mod.	
25	3cu ci	3cu ci	5ci	3.7	4sw	3sw	3w	slight	
26	4cu ci	4cu ci	0	2.7	4sw	3sw	2sw	"	
27	2ci	0	0	0.7	3sw	4sw	4sw	"	
28	0	0	0	0.0	3s	3s	3sw	"	
29	3cu	4cu ci	0	2.3	3s	3sw	1sw	"	
30	4cu	3cu	6cu	4.3	3sw	3w	1sw	"	
31	0	0	0	0.0	2n 86	1nw 88	0 59	"	
				3.01	2.8	2.8	1.9		
					9	9	5		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	1	0	0	0	12	13	4	0	1	31
14:30	0	0	0	0	2	14	9	5	1	31
20:30	2	0	0	0	3	9	12	3	2	31
Totals	3	0	0	0	17	36	25	8	4	93

Number of days with rain 0, fog 0, thunderstorms 0, gales 0.

50 yr. average number of days with rain during month 0.2

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MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.
LONG. E. FROM GREENWICH 35° 28' 10"

AUGUST, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

AUGUST 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	55.4	55.2	55.1	55.2	34.7	25.2	30.7	34.1	27.9	30.9
2	4.9	4.8	4.7	4.8	34.0	26.1	30.0	33.3	27.7	30.3
3	3.7	3.1	2.9	3.2	33.0	24.1	29.6	32.2	26.8	29.5
4	2.7	2.7	2.8	2.7	33.4	24.4	29.5	32.9	27.3	29.9
5	3.0	2.9	2.7	2.9	34.2	24.7	29.6	33.3	26.8	29.9
6	53.0	52.8	52.5	52.8	33.5	24.6	29.6	32.8	27.7	30.0
7	3.1	3.3	4.0	3.5	33.6	24.9	29.9	32.7	27.7	30.1
8	5.2	5.2	6.0	5.5	33.6	25.0	30.4	33.1	27.3	30.3
9	6.7	6.6	7.2	6.8	33.5	24.2	29.9	33.2	27.4	30.2
10	7.6	7.4	7.3	7.4	32.9	23.8	29.1	31.3	26.7	29.0
11	57.0	56.0	55.7	56.3	33.4	23.7	29.8	32.9	26.9	29.9
12	4.2	3.4	2.6	3.4	33.6	25.1	30.0	32.9	27.6	30.2
13	2.6	2.6	3.1	2.8	34.4	25.1	30.3	33.8	28.0	30.7
14	4.6	4.8	5.5	5.0	34.4	24.7	31.1	33.8	27.7	30.9
15	6.5	6.6	6.8	6.6	35.0	26.1	27.8	32.7	28.3	29.6
16	57.3	57.0	57.3	57.2	34.8	26.4	30.8	34.8	28.6	31.4
17	7.4	6.7	6.5	6.9	33.3	24.6	30.3	32.8	27.4	30.2
18	5.3	5.2	5.5	5.3	33.3	24.1	29.7	32.1	27.1	29.6
19	5.9	5.0	5.1	5.3	32.9	24.5	28.8	32.3	26.6	29.2
20	5.8	4.9	5.2	5.3	33.0	24.4	28.8	32.3	26.1	29.1
21	54.3	52.9	52.6	53.3	33.5	26.1	29.6	32.8	27.8	30.1
22	2.2	1.6	1.8	1.9	33.5	26.0	30.4	33.0	27.8	30.4
23	1.6	2.0	3.1	3.2	33.4	24.8	29.9	32.6	27.7	30.1
24	4.1	4.7	5.6	4.8	33.4	26.1	29.3	30.1	27.7	29.0
25	5.7	5.7	5.9	5.8	32.7	24.5	30.8	31.6	27.6	30.0
26	55.3	54.8	54.7	54.9	32.7	25.0	28.8	31.1	26.6	28.8
27	4.2	3.4	3.6	3.7	32.3	24.4	29.3	31.5	26.7	29.2
28	4.0	3.6	3.4	3.7	32.4	25.4	29.4	31.1	27.2	29.2
29	5.3	5.6	5.9	5.6	33.9	26.2	28.3	32.4	27.3	29.3
30	6.4	5.2	6.2	5.9	33.3	24.6	29.6	31.8	27.1	29.5
31	5.9	5.7	6.0	5.9	34.0	24.4	27.7	32.4	27.3	29.1
	754.87	754.56	754.75	754.76	33.54	24.94	29.64	32.60	27.37	29.86

Barometer, range for month 751.6 mm.—757.6 mm.
,, 62-yr. average for month 756.06 mm.
Thermometer, range for month 23.7° C.—35.0° C.
,, 62-yr. average for month 28.50° C.
Rain, total for month 0.0 mm.
,, , 62-yr. average for month 0.51 mm.
,, , total, from Sept. 1st 1194.77 mm.
,, 55-yr. average, Sept. 1st 903.6 mm.

AUGUST 1938

METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	22.6	17.2	23.5	20.7	69	44	85	66	12.6	55.0	
2	23.7	25.8	22.2	23.9	74	67	81	74	12.9	400.0	
3	22.2	22.2	20.9	21.8	71	63	80	71	12.5	350.0	
4	19.9	19.6	21.3	20.3	64	55	79	66	12.3	241.6	
5	21.1	20.3	21.7	21.2	68	54	84	70	12.8	150.0	
6	21.5	20.8	21.6	21.3	69	56	78	68	12.3	214.0	
7	20.8	20.9	21.6	21.1	65	56	78	66	12.3	250.0	
8	20.4	20.9	22.0	21.1	65	55	80	67	11.7	371.2	
9	20.8	20.7	21.2	20.9	66	55	78	66	12.0	185.6	
10	16.2	18.9	23.6	20.6	64	56	91	70	6.7	163.2	
11	17.9	18.5	19.3	18.6	58	49	73	60	10.5	400.0	
12	18.5	20.3	19.9	19.6	59	54	73	62	9.3	377.6	
13	21.1	19.3	21.0	20.5	65	49	74	63	9.9	171.4	
14	17.5	21.0	21.6	20.0	52	54	78	61	10.0	169.6	
15	22.2	23.0	24.1	23.1	80	62	85	76	10.3	65.6	
16	23.2	21.4	23.9	22.9	71	52	88	69	11.7	366.0	
17	19.1	22.9	24.7	22.2	59	62	92	71	11.8	339.0	
18	17.6	17.5	18.1	17.7	56	50	68	58	12.1	238.4	
19	18.1	18.7	19.3	18.7	60	52	74	62	11.8	192.0	
20	17.1	16.9	18.2	17.4	57	46	72	58	10.2	238.0	
21	19.7	20.3	20.9	20.3	63	55	76	65	11.6	471.0	
22	20.9	20.8	20.6	20.8	61	56	74	64	11.4	585.4	
23	18.2	19.4	20.8	19.3	58	53	76	62	11.3	364.5	
24	19.4	18.4	18.9	18.9	64	58	68	63	8.8	221.0	
25	19.1	20.2	20.1	19.8	57	58	73	64	8.2	237.6	
26	19.3	18.5	19.6	19.1	65	55	76	65	7.1	213.8	
27	14.5	23.1	19.6	19.1	48	68	75	64	10.8	274.4	
28	18.4	24.1	20.3	20.9	61	72	77	70	9.6	192.0	
29	21.5	19.5	20.5	20.5	75	54	77	69	6.8	184.0	
30	20.5	20.6	21.3	20.8	66	59	81	69	9.3	222.0	
31	18.2	20.7	21.3	20.1	66	57	79	67	11.4	319.0	
	19.82	20.42	21.12	20.43	63.7	56.0	78.0	66.0	10.69	262.04	

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.; Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

AUGUST, 1938

METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	3cu ci	0	0	1.0	1nw	1n	0	calm	
2	0	2ci	0	0.7	1w	3sw	1w	"	
3	2cu	2ci	0	1.3	4sw	3s	2sw	mod.	
4	0	8cu	2ci	3.3	3s	3w	1w	slight	
5	4cu	0	0	1.3	2s	2nw	0	"	
6	0	4cu	0	1.3	2sw	2w	1w	slight	
7	0	4cu	0	1.3	2sw	2sw	1w	"	
8	3cu	5cu	4cu	4.0	3sw	3w	3w	"	
9	7cuci	0	0	2.3	3s	2sw	1w	mod.	
10	5cuci	10cu	3ci	6.0	2sw	2sw	0	slight	
11	0	2cu	0	0.7	2sw	4sw	3w	calm	
12	2ci	4cu	0	2.0	4s	3w	2w	slight	
13	2cu	1cu	2cu	1.7	4sw	3w	1w	mod	
14	0	0	0	0.0	2s	3w	1w	slight	
15	0	0	0	0.0	2sw	2nw	0	calm	
16	0	0	0	0.0	1sw	3sw	2w	calm	
17	4cuci	4cu	4cu	4.0	4sw	3sw	3w	mod.	
18	3cu	4cu	3cu	3.3	4sw	3sw	1sw	"	
19	4cuci	3cu	2cu	3.0	2nw	2n	1nw	slight	
20	4cu	2cu	0	2.0	2sw	3w	1w	"	
21	2cu	5cuci	2ci	3.0	3s	4sw	3w	calm	
22	2cu	1ci	0	1.0	5sw	4sw	4sw	slight	
23	3cuci	3cu	3cu	3.0	4sw	4sw	2sw	mod.	
24	3cu	10cu	10cu	7.6	2sw	3w	1w	slight	
25	4cu	8cu	9cu	7.0	2nw	3nw	2w	"	
26	8cu	10cu	0	6.0	2w	2sw	4w	calm	
27	9cu	4cu	8cu	7.0	3w	3w	2w	slight	
28	0	4cu	5cu	3.0	3sw	3w	2w	mod.	
29	8cu	8cu	5cu ci	7.0	2w	3nw	1w	slight	
30	3cu	8cu	5cu ci	5.3	2nw	3n	2n	"	
31	0	3cu	0	1.0	2s 80	2nw 86	2n 50	"	
				2.89	2.6	2.8	1.6		
					8	9	4		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	0	0	0	0	7	16	4	4	0	31
14:30	3	0	0	0	1	12	10	5	0	31
20:30	2	0	0	0	0	4	20	1	4	31
Totals	5	0	0	0	8	32	34	10	4	93

Number of days with rain 0, fog 0, thunderstorms 0, gales 0.

62 yr. average number of days with rain during month 0.2

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MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.
LONG. E. FROM GREENWICH 35° 28' 10"

SEPTEMBER, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

SEPTEMBER 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	55.4	54.6	54.8	54.9	33.6	24.6	29.9	32.8	27.0	29.9
2	4.9	4.6	4.7	4.7	33.6	25.7	29.4	32.8	28.3	30.2
3	5.8	6.0	6.8	6.2	33.3	25.0	27.4	32.2	26.9	28.8
4	6.8	6.5	6.6	6.6	33.2	24.4	29.9	28.4	28.8	29.0
5	7.1	6.7	6.8	6.9	32.1	24.4	28.2	29.4	28.8	28.6
6	57.4	56.8	57.6	57.3	32.2	23.9	26.5	32.1	26.5	28.4
7	8.2	7.8	8.8	8.3	32.9	24.0	28.5	32.3	26.6	29.1
8	8.9	0.1	0.1	3.0	33.3	23.9	32.1	31.3	27.2	30.2
9	8.4	8.0	8.1	8.2	32.2	23.4	28.8	31.3	30.2	30.1
10	7.8	6.9	6.6	7.1	32.8	23.3	28.9	28.7	26.1	27.9
11	56.2	55.1	55.0	55.4	32.7	24.4	28.9	31.5	26.9	29.1
12	5.8	2.8	6.0	4.9	33.3	24.3	29.4	32.8	26.6	29.9
13	6.3	3.0	5.3	4.9	33.1	23.7	29.4	32.8	27.2	29.3
14	5.3	5.8	6.5	5.9	31.8	24.4	28.7	31.2	25.6	28.5
15	7.3	7.0	7.3	7.2	32.2	24.4	28.9	31.5	26.1	28.8
16	58.7	57.8	58.5	58.3	31.3	23.7	27.4	30.5	25.5	27.8
17	8.8	8.3	8.9	8.7	31.3	23.9	28.3	30.8	25.2	28.1
18	8.3	7.9	8.1	8.1	29.8	22.9	28.0	29.6	25.3	27.6
19	7.5	6.2	6.5	6.7	30.2	22.9	28.2	29.9	25.2	27.7
20	6.0	5.9	7.2	6.4	28.1	23.7	25.9	28.6	24.8	26.4
21	58.3	58.3	58.7	58.4	29.4	21.2	25.3	28.4	23.2	25.6
22	9.2	9.0	7.2	8.4	29.4	21.1	27.1	28.4	23.6	26.4
23	9.8	9.2	9.8	9.6	29.4	21.6	26.1	28.4	24.0	26.2
24	60.0	9.1	9.9	9.7	29.2	21.4	26.2	28.2	23.0	25.8
25	59.9	9.3	9.8	9.7	29.3	21.2	24.8	28.6	23.3	25.6
26	60.1	59.5	60.0	59.9	29.2	19.3	24.6	28.8	22.7	25.4
27	0.1	9.8	0.3	60.1	28.3	19.6	24.9	26.8	22.9	24.9
28	59.3	9.1	1.0	59.8	27.8	20.1	24.8	26.7	22.7	24.7
29	64.4	63.7	4.1	64.1	27 1	19.9	25.0	26.8	23.8	25.2
30	4.3	3.2	2.7	3.4	29.0	20.1	24.8	28.5	24.3	25.9
	758.21	757.27	757.72	754.43	31.04	22.88	27.67	30 00	25.61	27.70

Barometer, range for month 750.1 mm.—764.4 mm.
,, 62-yr. average for month 758.84 mm.
Thermometer, range for month 19.3° C.—33.6° C.
,, 62-yr. average for month 27.17° C.
Rain, total for month 25.140 mm.
,, , 62-yr. average for month 6.600 mm.
,, , total, from Sept. 1st 25.140 mm.

SEPTEMBER 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	20.5	19.7	20.9	20.4	65	53	80	66	10.8	282.0	
2	21.1	22.4	24.2	22.6	68	60	85	71	10.0	430.0	
3	23.7	20.9	21.4	22.0	88	58	82	76	9.6	288.0	
4	19.4	21.4	18.0	19.6	61	75	61	66	9.5	220.0	
5	18.5	18.4	17.7	18.2	65	61	60	62	6.1	191.0	
6	17.2	17.7	18.0	17.6	63	50	70	61	8.4	211.0	
7	18.4	19.9	19.9	19.4	63	56	76	64	10.2	270.0	
8	17.7	19.9	18.7	18.7	50	58	70	59	10.0	289.0	
9	16.5	16.7	15.7	16.3	56	49	49	51	10.0	190.0	
10	14.3	22.6	20.3	19.1	48	77	80	65	10.2	146.0	
11	13.8	19.8	20.5	18.0	47	57	79	59	10.1	198.0	
12	15.5	20.6	20.9	19.0	51	56	80	62	10.0	222.0	
13	14.9	22.8	18.1	18.6	49	61	68	60	9.9	234.0	
14	17.1	14.7	15.7	15.8	58	42	65	55	9.2	361.0	
15	14.7	18.0	16.8	16.5	50	52	67	56	9.5	104.0	
16	16.7	15.8	16.2	16.2	62	48	67	59	9.1	198.4	
17	16.6	16.3	15.5	16.1	58	49	65	57	9.5	334.0	
18	17.7	17.5	15.3	16.8	62	57	64	61	5.6	285.5	4.570
19	15.7	14.6	14.8	15.0	56	46	61	54	8.1	408.0	
20	15.1	15.1	15.0	15.1	60	51	64	58	5.5	502.7	0.762
21	13.9	12.8	14.2	13.6	58	45	67	57	8.6	355.0	
22	14.4	14.0	13.0	13.8	54	49	61	55	9.1	491.0	
23	12.6	13.6	13.7	13.3	50	48	61	53	9.5	304.4	
24	13.1	13.6	14.1	13.6	52	48	68	56	8.8	278.0	
25	14.0	14.4	13.2	13.9	60	49	62	57	9.2	251.5	0.254
26	14.3	14.1	14.3	14.2	62	47	71	60	7.2	378.0	
27	14.9	14.9	14.6	14.8	64	56	70	63	6.6	260.0	19.300
28	13.3	12.3	12.1	12.6	57	47	59	54	9.7	395.0	0.254
29	11.4	10.6	10.9	11.0	49	40	50	46	9.5	864.0	
30	12.2	11.0	12.5	11.9	53	38	55	49	9.5	438.0	
	15.97	16.87	16.54	16.46	58.0	52.8	67.2	59.1	8.97	312.48	0.838

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

SEPTEMBER, 1938
METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	0	0	0.0	3sw	3s	1sw	calm	
2	2cu	2cu	3cu	2.3	3s	3w	2w	"	
3	1cu	2cu	0	1.0	4s	3s	1s	slight	
4	0	0	6cu	2.0	1w	2nw	2w	"	
5	8cu	10cu	8cu	8.7	2sw	2w	1w	"	
6	8cu	4cu	8cu	6.7	1w	2w	1w	slight	
7	0	0	0	0.0	2sw	2w	1w	"	
8	0	9cu	2cu	3.7	3s	3s	2s	mod.	
9	1cu	0	9cu	3.3	2sw	2w	1w	"	
10	2cu	3cu	0	2.0	2sw	2nw	1w	calm	
11	0	0	0	0.0	1sw	2nw	2w	slight	
12	1cu	0	2cu	1.0	3sw	3w	1w	mod	
13	0	0	0	0.0	2sw	3w	1w	calm	
14	4cu	2cu	1cu	2.3	5s	4w	3w	rough	
15	2cu	0	5cuci	2.3	2sw	2nw	1nw	mod.	
16	8cu	1cu	0	3.0	2sw	2w	1w	mod.	
17	2cu	4cu	0	2.0	3s	3w	2w	slight	
18	8ni	6cu	3cu	5.7	4sw	2sw	2w	"	
19	5cu	3cu	4cu	4.0	3sw	4sw	3w	"	
20	9nicu	6cu	3cu	6.0	3sw	4sw	4sw	mod.	
21	5cu	0	4cuci	3.0	3sw	3sw	3w	mod.	
22	3cu	6cuci	4cu	4.3	4s	3w	2w	slight	
23	1cu	2cu	7cuci	3.3	2s	3w	2w	calm	
24	8cu	2cu	3cu	4.3	2w	3w	2w	"	
25	3cu	2cu	0	1.7	3sw	2sw	2w	slight	
26	10cuni	3cu	0	4.3	3sw	3sw	3w	slight	
27	4cu	10cuci	10cuci	8.0	3sw	2sw	2sw	"	
28	2cu	0	0	0.7	1se	3n	4ne	mod.	
29	0	0	0	0.0	4n	6n	7n	"	
30	0	0	0	0.0	3s	4s	5s	"	
					79	85	65		
				2.85	2.6	2.8	2.2		
					8	9	6		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	1	0	0	1	8	17	3	0	0	30
14:30	2	0	0	0	4	7	13	4	0	30
20:30	1	1	0	0	3	3	21	1	0	30
Totals	4	1	0	1	15	27	37	5	0	90

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MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

OCTOBER, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

OCTOBER 1938

METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	62.2	60.7	58.6	60.5	28.3	21.1	25.8	27.2	24.3	25.8
2	3.5	3.2	63.0	3.2	29.4	20.6	22.7	28.4	24.6	25.2
3	8.3	1.8	1.4	3.5	28.3	21.7	24.9	27.7	23.0	25.2
4	2.0	1.2	1.6	1.6	27.9	20.0	23.6	27.4	22.2	24.4
5	1.6	1.6	1.9	1.7	28.3	20.3	24.8	27.9	22.1	24.9
6	60.3	59.2	59.7	59.7	28.9	20.6	25.3	28.3	22.7	25.4
7	0.5	60.1	60.6	60.4	28.3	20.1	25.5	27.7	22.3	25.2
8	1.2	0.1	59.8	0.4	27.8	20.0	24.4	26.1	22.6	24.2
9	59.7	59.1	9.4	59.4	28.3	20.6	24.7	26.9	22.7	24.7
10	9.7	9.4	60.3	9.8	28.3	20.6	22.6	27.7	22.7	24.3
11	61.6	61.5	61.9	61.7	27.9	20.8	24.7	27.7	23.2	25.2
12	2.3	1.3	1.2	1.6	28.4	22.1	24.8	27.1	24.9	25.6
13	1.7	0.5	0.1	0.8	29.7	22.6	26.2	27.7	23.6	25.9
14	59.8	59.2	59.6	59.5	30.4	20.7	26.6	29.9	22.8	26.4
15	60.0	9.6	60.0	9.9	28.6	21.1	24.6	28.0	26.4	26.3
16	61.0	60.2	61.1	60.8	27.6	20.6	24.9	26.9	23.7	25.2
17	2.1	1.5	2.3	2.0	27.8	20.0	25.1	26.6	21.9	24.5
18	2.5	1.7	1.9	2.0	26.8	19.5	21.1	25.9	22.7	23.2
19	2.0	1.3	1.4	1.6	26.4	21.8	24.1	25.5	23.2	24.3
20	1.3	0.1	0.8	0.7	26.1	19.6	23.2	24.4	21.9	23.2
21	61.0	60.7	61.2	61.0	25.9	18.8	23.8	24.5	20.9	23.1
22	59.8	58.7	59.8	59.4	27.3	20.7	22.7	26.9	22.1	23.9
23	60.2	60.9	62.5	61.2	27.9	19.8	25.3	25.1	22.4	24.3
24	3.7	2.8	2.6	3.0	25.2	18.4	23.1	23.7	21.1	22.6
25	2.4	1.6	2.2	2.1	24.2	17.7	22.1	23.2	19.9	21.7
26	63.0	63.2	64.3	63.5	24.9	18.9	22.3	24.0	21.8	22.7
27	6.1	5.1	4.7	5.3	24.9	20.1	22.4	24.9	22.2	23.2
28	3.8	1.9	1.7	2.5	26.1	21.3	24.4	25.5	22.7	24.2
29	0.4	59.7	59.7	59.9	28 9	27.1	26.1	28.0	23.8	26.0
30	1.1	7.7	60.3	9.3	28.9	25.8	27.2	27.7	25.5	26.8
31	59.8	8.8	59.3	9.3	29.1	22.9	26.1	28.7	25.1	26.6
	761.76	760.79	761.13	761.20	27.77	20.83	24.36	26.69	22.93	24.65

Barometer, range for month 757.7 mm.—768.3 mm.
,, 50-yr. average for month 761.39 mm.
Thermometer, range for month 17.7 C.—30.4° C.
,, 50-yr. average for month 24.53° C.
Rain, total for month 0.762 mm.
,, , 50-yr. average for month 49.28 mm.
,, , total, from Sept. 1st 25.902 mm.
,, , ,, 50-yr. average, Sept. 1st 57.709 mm.

CCTOBER 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	13.2	12.6	12.5	12.8	54	46	55	52	9.5	665.0	
2	13.5	11.0	12.0	12.2	66	39	54	53	8.5	261.0	
3	12.8	16.7	16.9	15.6	55	61	82	66	9.4	170.0	
4	16.4	15.4	14.7	15.5	75	57	74	69	9.0	204.5	
5	15.3	14.3	13.7	14.5	66	51	70	62	10.2	237.6	
6	14.4	16.3	16.0	15.6	64	57	78	66	10.1	104.5	
7	16.2	16.9	16.5	16.5	67	60	83	70	10.2	157.0	
8	16.9	16.3	15.3	16.2	75	65	76	72	6.1	186.0	
9	15.8	15.6	15.4	15.6	69	60	75	68	8.9	138.6	
10	16.4	15.8	15.2	15.8	81	58	75	71	8.4	239.5	
11	15.6	16.8	15.6	16.0	68	61	74	67	9.2	212.5	
12	15.5	17.1	14.8	15.8	67	65	63	65	9.3	167.0	
13	13.9	16.7	17.6	16.1	55	61	81	66	9.6	188.0	
14	15.5	15.5	17.3	16.1	60	49	84	64	10.0	163.0	
15	15.4	18.2	15.1	16.2	68	64	58	63	10.3	172.6	
16	17.2	16.0	14.8	16.0	74	60	68	67	10.4	231.8	
17	15.3	14.6	14.8	14.9	64	56	75	65	10.0	187.0	
18	16.1	14.2	15.2	15.2	86	57	75	73	9.9	164.0	
19	15.3	16.3	16.5	16.0	69	67	78	71	7.4	248.0	
20	14.4	15.2	14.4	14.7	68	67	73	69	1.1	221.0	0.762
21	13.3	9.8	12.9	12.0	60	43	71	58	7.6	270.0	
22	10.6	10.6	9.9	10.4	51	39	51	47	10.5	416.4	
23	10.7	15.9	14.9	13.8	45	67	74	62	2.6	458.0	
24	14.2	13.6	12.8	13.5	68	62	70	67	7.9	350.0	
25	12.1	11.8	11.3	11.7	61	56	65	61	9.6	100.0	
26	10.9	13.6	13.5	12.7	54	61	69	61	10.3	110.0	
27	12.0	13.5	15.3	13.6	59	58	77	65	10.1	460.0	
28	14.8	16.2	17.8	16.3	65	67	86	73	9.6	143.2	
29	11.8	24.4	13.1	16.4	47	87	58	64	4.3	150.0	
30	11.4	15.1	11.7	12.7	41	54	48	48	1.9	200.0	
31	14.7	15.9	12.5	14.4	58	54	53	55	2.8	250.0	
	14.25	15.22	14.52	14.67	63.2	58.4	70.1	63.9	8.22	283.59	0.0246

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.: above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

OCTOBER, 1938

METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	0	0	0.0	4n	4n	6n	mod.	
2	0	0	0	0.0	1n	3n	3nw	slight	
3	0	0	0	0.0	1n	2w	3n	calm	
4	1cu	0	0	0.3	1w	2w	1w	,,	
5	0	0	0	0.0	2w	2w	1w	,,	
6	0	2cu	2cu	1.3	2s	2se	2se	slight	
7	0	1cu	0	0.3	1s	2s	2s	,,	
8	3cu	9cu	10cu	7.3	2sw	2w	1w	,,	
9	3cu	5ci	5ci	4.3	1sw	2w	1w	,,	
10	1cu	3cu	5cu	3.0	1sw	2s	1sw	calm	
11	0	4cu	0	1.3	2s	2w	2w	slight	
12	0	0	0	0.0	2s	2n	2n	,,	
13	0	0	0	0.0	1s	2w	2nw	calm	
14	0	0	0	0.0	1s	2sw	0	slight	
15	2ci	3ci	0	1.7	1sw	2sw	0	calm	
16	2cu	4cuci	6 cuci	4.0	2s	2w	3w	calm	
17	3cu	7cuci	8cu	6.0	2s	2w	1w	slight	
18	1ci	7cuci	2cuci	3.3	1ne	2nw	3w	,,	
19	1ci	9cuci	10cuni	6.7	1nw	2n	2nw	calm	
20	10ni	10cuni	3cu	7.7	2nw	1nw	0	slight	
21	5cu	7cu	5cu	5.7	3s	3s	2s	slight	
22	1ci	1ci	0	0.7	1se	4w	3w	,,	
23	10cuni	10cuni	3cu	7.7	4s	3sw	3w	mod.	
24	9cuci	2cu	0	3.7	3e	4n	3n	,,	
25	2cu	2cu	0	1.3	2ne	2n	2n	slight	
26	1ci	1ci	0	0.7	1e	2n	2n	slight	
27	0	2ci	0	0.7	1n	4nw	5nw	,,	
28	0	0	0	0.0	1n	2n	2n	,,	
29	10ci	7ci	2cu	6.3	1e	2ne	1n	calm	
30	9cuci	9cuci	5ci	7.7	1s	2e	2e	,,	
31	10cuci	7ci	5ci	7.3	3nw	2w	3w	,,	
				2.90	1.7	2.3	2.1		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	5	2	3	1	11	4	2	3	0	31
14:30	8	1	1	1	3	3	11	3	0	31
20:30	8	0	1	1	2	1	11	4	3	31
Totals	21	3	5	3	16	8	24	10	3	93

Number of days with rain 1, fog 0, thunderstorms 0, gale 0.

50 yr. average number of days with rain during month 3.5

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MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.
LONG. E. FROM GREENWICH 35° 28' 10"

NOVEMBER, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

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WEATHER BUREAU

NOVEMBER 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	61.5	61.2	61.1	61.3	27.5	21.4	25.5	23.6	23.3	24.1
2	0.0	59.5	0.8	0.1	26.7	19.5	25.7	25.7	24.4	25.3
3	3.1	61.1	1.8	1.3	24.6	18.4	19.4	21.3	23.1	21.3
4	1.9	0.6	0.2	0.9	24.4	15.0	21.9	23.8	22.2	22.6
5	58.7	57.6	57.8	58.0	22.3	14.4	17.0	21.3	17.4	18.6
6	57.0	55.3	55.3	55.9	20.1	12.5	14.7	19.4	14.4	16.2
7	1.0	48.1	49.3	49.5	17.1	10.6	15.7	13.9	15.2	14.9
8	3.1	54.2	55.8	54.4	15.6	10.9	11.1	13.2	11.9	12.1
9	8.5	8.6	60.5	59.2	17.3	11.8	13.4	16.3	13.4	14.4
10	64.3	64.5	5.5	64.8	18.6	13.9	14.1	18.2	16.4	16.2
11	65.7	64.3	64.6	64.9	19.3	14.3	17.6	19.4	17.8	18.3
12	4.8	3.5	4.0	4.1	20.1	16.9	18.2	19.4	16.4	18.0
13	4.6	4.1	4.8	4.5	19.9	13.9	18.3	18.7	16.6	17.9
14	5.1	4.7	4.6	4.8	20.4	15.2	16.9	19.7	16.8	17.8
15	4.8	4.1	4.4	4.4	20.9	15.3	18.4	20.8	17.4	18.9
16	64.5	63.0	63.2	63.6	21.4	16.1	18.8	20.7	17.7	19.1
17	2.8	1.5	2.0	2.1	21.3	15.9	19.0	20.9	18.2	19.4
18	2.8	2.6	4.3	3.2	20.2	14.4	18.3	19.4	16.6	18.1
19	6.7	7.0	7.8	7.2	19.4	14.2	17.7	18.8	16.3	18.6
20	8.6	6.5	4.5	6.5	20.1	14.6	17.2	19.7	18.3	18.4
21	66.5	65.4	64.8	65.6	20.2	14.7	18.4	19.5	18.4	18.7
22	4.0	2.9	2.8	3.2	20.2	14.9	18.1	19.7	17.4	18.4
23	3.1	2.6	3.0	2.9	20.6	15.3	19.1	19.4	16.9	18.5
24	4.1	3.7	4.3	4.0	20.0	15.6	17.9	19.7	16.9	18.2
25	3.8	2.3	1.9	2.7	20.0	15.2	18.0	19.1	17.1	18.1
26	62.2	61.7	62.6	62.2	21.1	15.0	18.7	20.5	16.6	18.6
27	3.8	3.3	3.8	3.6	19.3	14.9	16.6	18.3	15.8	16.9
28	3.8	2.3	3.1	3.1	20.4	15.7	16.1	18.8	16.6	17.2
29	2.5	1.6	2.5	2.2	20.7	15.6	17.7	19.9	17.2	18.3
30	4.2	3.9	5.1	4.4	19.6	14.6	18.3	19.4	16.6	18.1
	762.58	761.72	762.21	762.15	20.66	15.02	17.93	19.62	17.44	18.33

Barometer, range for month 748.1 mm.–768.6 mm.
,, 50-yr. average for month 763.25 mm.
Thermometer, range for month 10.6 C.–27.5° C.
,, 50-yr. average for month 15.91° C.
Rain, total for month 280.152 mm.
,, , 50-yr. average for month 186.94 mm.
,, , total, from Sept. 1st 305.642 mm.

NOVEMBER 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	17.2	14.0	11.2	14.5	71	64	53	68	0.8	150.0	1.524
2	13.8	13.7	11.9	13.1	56	55	52	54	2.0	252.0	0.508
3	13.9	13.8	11.0	12.9	83	74	52	70	3.5	150.0	9.910
4	14.5	15.5	14.7	14.9	73	70	74	72	1.3	300.0	
5	12.5	13.3	13.5	13.1	86	70	91	82	2.5	400.0	41.400
6	11.4	11.5	11.3	11.4	92	69	93	85	0.0	500.0	23.098
7	9.9	11.1	7.8	9.6	75	92	61	76	0.0	700.0	66.550
8	9.3	9.5	9.2	9.3	94	84	89	89	0.0	550.0	62.230
9	10.0	8.9	10.5	9.8	87	65	91	81	0.0	450.0	52.832
10	10.9	11.0	10.9	10.9	91	71	79	80	7.8	300.0	17.780
11	10.8	10.7	10.9	10.8	72	63	72	69	10.0	100.0	
12	10.0	10.3	8.3	9.5	64	59	60	61	10.0	55.0	
13	9.9	10.5	9.2	9.9	63	66	65	65	10.0	50.0	
14	9.0	9.8	8.1	9.0	63	57	57	59	9.9	45.0	
15	9.2	10.7	8.5	9.5	59	59	58	59	9.9	30.0	
16	8.9	11.5	8.9	9.8	55	63	59	59	9.9	70.0	
17	9.1	11.3	10.7	10.3	56	62	69	62	9.5	90.0	
18	11.2	10.3	9.7	10.3	72	61	69	67	8.7	80.0	
19	8.8	10.6	9.7	9.7	48	66	71	62	9.5	180.0	
20	9.3	8.7	9.9	9.3	64	51	63	59	9.7	329.3	
21	9.7	10.0	10.5	10.1	61	60	67	63	8.4	390.2	
22	10.5	10.6	10.0	10.4	68	62	68	66	9.7	466.0	
23	9.4	11.8	11.3	10.8	57	70	78	69	9.3	146.0	
24	10.5	11.7	11.5	11.2	59	68	81	69	7.2	140.2	
25	11.1	13.3	12.3	12.2	72	81	85	79	8.8	239.0	
26	12.6	12.9	11.6	12.4	79	71	82	77	7.9	259.4	
27	12.4	12.1	11.3	11.9	88	78	85	84	7.9	175.0	4.320
28	10.5	11.3	12.2	11.3	78	70	87	78	4.0	225.6	
29	10.9	12.7	12.0	11.9	72	73	83	76	6.1	214.5	
30	11.3	12.3	12.2	11.9	73	73	87	78	8.3	148.7	
	10.95	11.51	10.69	11.06	71.0	67.6	72.7	70.4	6.42	239.53	9.34

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.; Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

NOVEMBER, 1938
METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	10cini	9cuni	8ci	9.0	2s	2e	3e	slight	
2	8cicu	8cu	10cicu	8.7	1e	2e	2e	"	
3	10ni	2ci	8ci	6.7	4s	2n	1n	"	
4	9cuci	9cini	8ci	8.7	1n	2nw	3nw	"	gale & ltng. at night
5	10ni	7ni	10ni	9.0	2e	2sw	4w	"	th. & ltng. at night
6	10ni	10ni	10ni	10.0	3s	3s	5s	slight	th. & ltng. at night*
7	10ni	10ni	5cu	8.3	3s	4se	7sw	mod.	hl. & ltng. gale
8	10ni	10ni	10ni	10.0	3s	5s	3sw	"	
9	10ni	10ni	10ni	10.0	2s	5sw	6sw	"	
10	9cuni	4cu	7cu	6.7	1se	1n	2nw	slight	
11	2cu	1cu	0	1.0	1se	4n	2n	slight	
12	0	0	0	0.0	0	2n	0	"	
13	0	0	0	0.0	1se	2n	1n	calm	
14	0	0	0	0.0	0	3n	1n	slight	
15	0	0	0	0.0	1se	2nw	1n	calm	
16	0	0	0	0.0	1se	2n	1n	calm	
17	0	2cu	8ci	3.3	2s	2n	3w	slight	
18	7cu	2ci	0	3.0	1se	2n	2n	"	
19	0	1cu	0	0.3	1e	2n	2n	calm	
20	3ci	0	0	1.0	1se	3n	2n	slight	
21	4ci	7cuci	0	3.7	1se	5n	3n	slight	
22	9ci	1cu	0	3.3	2e	6n	1n	mod.	
23	0	0	0	0.0	1se	1nw	1n	slight	
24	9ci	3ci	0	4.0	2s	2n	2n	calm	
25	9ci	1ci	0	3.3	1e	1n	1n	"	
26	5cuci	5cuci	2cu	4.0	3s	2n	2n	slight	
27	3cu	0	0	1.0	2s	3n	1n	"	
28	10cuci	3ci	10cuci	7.7	1e	3n	1n	"	
29	8ci	3ci	9ci	6.7	2s	2w	2n	calm	
30	2ci	4cuci	3cu	3.0	2se	2w	1w	"	lunar halo
					48	77	66		
				4.41	1.6	2.6	2.2		
					4	8	6		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	1	0	6	10	11	0	0	0	2	30
14:30	18	0	2	1	2	2	2	3	0	30
20:30	18	0	2	0	1	3	3	2	1	30
Totals	37	0	10	11	14	5	5	5	3	90

Number of days with rain 10, fog 0, thunderstorms, 2 gale 2.

50 yr. average number of days with rain during month 13.4

* First snow visible on mountains on 6th.

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MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

DECEMBER, 1938

J. A. BROWN, DIRECTOR

Printed at the American Press
Beirut, Syria

DECEMBER 1938
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	66.7	65.5	65.7	66.0	19.4	14.8	17.8	18.3	16.6	17.6
2	4.4	2.3	2.1	2.9	20.0	16.1	16.6	19.0	16.6	17.4
3	59.1	59.6	1.7	0.4	22.9	16.4	19.9	21.2	18.8	20.0
4	62.6	62.0	2.8	2.5	20.0	15.0	18.6	19.4	17.4	18.5
5	2.9	1.5	1.3	1.9	19.0	14.7	17.6	18.8	15.7	17.4
6	59.7	58.4	58.7	58.9	18.9	10.6	17.3	18.8	14.7	16.9
7	8.0	8.1	8.7	8.3	15.1	11.1	11.3	12.4	13.4	12.4
8	60.0	9.2	9.9	9.7	16.7	13.4	15.2	16.6	15.1	15.6
9	59.7	9.1	9.8	9.5	16.1	13.3	13.8	15.4	13.9	14.4
10	61.9	62.1	63.1	62.4	20.6	13.3	15.9	17.4	14.9	16.1
11	65.0	64.6	65.4	65.0	18.3	13.1	15.8	17.6	15.5	16.3
12	4.7	3.3	3.6	3.9	18.3	13.1	15.7	17.4	14.9	16.0
13	2.5	1.3	1.3	1.6	16.9	12.9	13.8	16.8	13.9	14.8
14	1.3	0.5	1.2	1.0	17.8	11.1	14.9	15.3	13.8	14.7
15	2.4	1.8	2.9	2.4	17.6	10.2	13.3	14.7	12.1	13.4
16	63.2	62.1	62.5	62.6	15.7	12.1	12.2	14.9	12.7	13.3
17	2.3	0.5	1.4	1.4	17.3	12.5	14.4	16.8	14.8	15.3
18	3.9	4.0	5.9	4.6	17.6	13.2	14.4	17.2	15.7	15.8
19	6.1	3.4	1.7	3.7	17.9	14.6	14.9	17.6	15.9	16.1
20	59.6	0.2	1.4	0.4	20.3	13.6	17.1	17.3	16.1	16.8
21	63.2	62.8	63.1	63.0	17.8	13.1	16.1	17.7	14.9	16.2
22	1.8	2.0	2.4	2.1	17.9	12.2	15.4	17.6	15.5	16.2
23	1.8	2.0	3.2	2.3	17.9	12.2	13.9	17.2	14.4	15.2
24	5.5	4.6	4.5	4.9	17.5	13.9	14.7	17.2	15.5	15.8
25	3.9	2.4	3.0	3.1	18.3	13.3	15.6	18.0	15.5	16.4
26	63.0	62.4	62.7	62.7	18.2	13.9	16.5	18.1	15.6	16.7
27	3.5	1.4	1.6	2.2	17.9	12.7	16.1	17.4	15.2	16.2
28	0.8	59.0	56.5	58.8	17.2	13.1	14.7	16.2	15.5	15.5
29	57.3	6.5	9.2	7.7	18.3	12.5	13.8	15.3	15.6	14.9
30	60.3	9.2	9.0	9.5	17.2	11.7	16.1	16.7	13.1	15.3
31	55.9	3.1	4.3	4.4	16.6	10.8	14.5	12.2	15.6	14.1
	762.03	761.13	761.63	761.61	18.10	13.05	15.42	16.99	15.13	15.85

Barometer, range for month 753.1 mm.—766.7 mm.
,, 62-yr. average for month 763.25 mm.
Thermometer, range for month 10.2 C.—22.9° C.
,, 62-yr. average for month 15.91° C.
Rain, total for month 113.952 mm.
,, , 62-yr. average for month 186.94 mm
,, , total, from Sept. 1st 489504 mm.

DECEMBER 1938
METEOROLOGICAL REGISTER

Date	Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Wind per day	Rain mm.
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		Kms.	
1	11.2	11.6	11.0	11.3	74	75	78	76	8.8	285.2	
2	10.2	12.2	11.6	11.3	73	75	82	77	1.6	194.5	
3	12.7	14.6	12.5	13.3	73	78	78	76	6.6	431.6	
4	11.9	12.6	12.2	12.2	76	75	82	78	3.9	275.0	0.254
5	10.3	11.8	10.7	10.9	70	73	81	75	8.9	326.0	
6	11.1	11.1	11.4	11.2	76	69	92	79	4.1	424.0	9.900
7	9.0	10.0	9.2	9.4	90	94	79	88	0.8	427.0	18.034
8	10.2	10.2	9.7	10.0	80	73	76	76	0.1	373.4	1.524
9	10.8	10.8	10.4	10.7	92	83	87	87	0.1	276.0	9.660
10	9.6	11.1	10.3	10.3	72	75	81	76	9.3	289.0	
11	11.9	11.0	9.3	10.5	90	74	71	78	3.9	242.5	4.826
12	8.8	10.3	9.6	9.6	66	76	76	71	2.2	199.5	
13	8.8	9.4	8.7	9.0	74	66	74	71	5.1	269.4	0.254
14	10.3	9.1	8.9	9.4	81	70	75	75	5.7	420.0	
15	8.6	9.1	7.9	8.6	75	74	75	75	6.5	289.2	4.699
16	6.9	8.4	8.4	7.9	65	66	76	69	1.7	303.0	
17	9.2	10.1	10.2	9.8	75	71	82	76	5.6	297.0	
18	9.0	10.1	10.7	9.9	73	69	81	74	8.2	373.0	1.016
19	9.6	11.0	10.3	10.3	76	74	77	76	3.5	400.0	0.254
20	7.9	7.4	9.0	8.1	55	51	66	57	3.2	351.5	1.016
21	9.7	12.1	10.9	10.9	72	79	86	79	8.6	209.0	
22	8.7	10.9	9.0	9.5	67	72	68	69	9.0	358.0	
23	8.0	12.0	10.0	10.0	68	82	62	67	5.9	274.0	
24	9.1	10.5	9.3	9.6	73	72	71	72	8.7	298.5	
25	11.0	11.1	10.0	10.7	83	72	76	77	7.4	246.0	
26	10.0	11.0	9.8	10.3	72	72	75	73	8.9	320.0	
27	10.4	10.8	10.2	10.5	77	73	80	77	5.7	371.5	0.762
28	9.1	9.6	10.8	9.8	74	71	84	76	0.0	632.5	12.700
29	11.4	12.4	10.1	11.3	94	95	77	89	2.1	516.0	38.104
30	9.7	8.9	8.1	8.9	72	63	72	69	5.7	371.5	
31	7.7	9.7	9.3	8.9	63	92	71	75	5.4	964.0	10.922
	9.77	10.68	9.99	10.13	74.0	70.9	77.8	75.3	5.07	354.22	3.675

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
62-year averages are for period, 1875-1936

DECEMBER, 1938
METEOROLOGICAL REGISTER

	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	6ci	0	0	2.0	2se	3n	1n	calm	lunar halo
2	10cuci	7ci	10ci	9.0	2s	2n	1n	"	
3	3ci	2ci	10ci	2.0	2e	4sw	3w	slight	
4	10cuni	8ci	9cuni	9.0	3sw	2sw	2w	"	
5	0	0	2ci	0.7	2s	2w	3w	"	mist on sea a.m.
6	9cuni	5cuci	10ni	8.0	4s	3s	3w	slight	
7	10ni	10ni	2ci	7.0	3s	4s	4se	"	
8	10ni	10ni	10ni	10.0	4s	3s	3s	mod.	
9	10ni	10ni	2ci	7.3	4w	2s	2s	slight	
10	2ci	3cu	2cu	2.3	2se	3w	3w	"	
11	7cu	9cuni	2ci	6.0	2s	2nw	2n	slight	
12	8ci	10ni	10ni	9.3	1se	2s	3s	"	
13	7cuci	2cu	0	3.0	1se	3nw	2n	"	
14	4cu	10ni	2cu	5.3	2s	4w	2w	"	
15	6cuci	2ci	4ci	4.0	3n	2n	2n	"	
16	10cuci	10ni	0	6.7	3se	2nw	2n	calm	
17	2ci	10nici	10ni	7.3	2s	2s	3w	"	
18	3ci	2ci	5cicu	3.3	3s	4w	2w	"	
19	10ci	9cuci	10cini	9.7	2se	4n	4n	"	
20	10ni	10ni	0	6.7	2s	4e	3e	slight	
21	0	1cu	0	0.3	2se	2w	2w	slight	
22	0	0	0	0.0	1se	2n	3n	"	
23	8cu	2cu	0	3.3	3n	3w	3w	"	
24	1cu	5ci	0	2.0	2se	3n	3n	"	
25	2ci	2ci	0	1.3	1n	2n	3n	"	
26	2ci	3ci	0	1.7	1se	1w	3w	slight	
27	1ci	2cu	4cu	2.3	2se	3s	3w	"	
28	10ni	10ni	10ni	10.0	3s	2s	4sw	"	
29	10ni	8ni	2cu	6.7	4sw	5sw	3w	rough	
30	5cu	9cuni	0	4.7	3s	2s	0	mod.	
31	0	10ni	10ni	6.7	6s 77	7s 89	6sw 83	stormy	gale hail, th. st.
				5.09	2.5 8	2.9 10	2.7 9		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	3	0	1	11	13	2	1	0	0	31
14:30	7	0	1	0	10	3	7	3	0	31
20:30	10	0	1	1	3	2	13	0	1	31
Totals	20	0	3	12	26	7	21	3	1	93

Number of days with rain 13, fog 0, thunderstorms, 1 gale 1.

62 yr. average number of days with rain during month 13.4