

METEOROLOGICAL OBSERVATIONS.

1931.

Main features of the weather experienced during the Year.

The highest temperature at the Valletta Station was 103.8° F on the 7th August.

On the 6th August, at the Argotti Botanic Gardens, a maximum temperature of 105.0° was registered.

The reading of the black bulb thermometer in vacuo, gave the highest reading on the 13th September, when a temperature of 168° was recorded.

The mean maximum temperature at the Valletta Station, for the months of June, July and August was 86.3° .

The mean minimum temperature at the same Station for the months of January and February was 50.4° .

The lowest temperature recorded at Valletta was 43.5° on the 16th February. On the 29th January at C. Zeitun, a temperature of 40.8° was registered.

During the months of January and February, the average duration of bright sunshine was 5.04 hours. The number of days on which no bright sunshine was registered in the abovementioned months, was 7. During the summer months of June, July and August, the duration of sunshine averaged 12.32 hours per diem.

The mean rainfall over the Islands of Malta and Gozo for the period January-December and as deduced from the Pluviometer readings at the Government Elementary Schools, was 28.50 inches for Malta and 33.96 for Gozo. The number of days during which rain fell was 105 against 84 in the previous year. No rain fell during the month of June, July and August. The mean rainfall as deduced from the latest observations equals 21.5 inches.

The prevailing winds, as usual, were the westerly ones; the N.W. heading the list with 113 days. The S.W. winds follow next with 63 days. The S. winds were the least frequent of all.

The relative humidity at the Valletta Station varied from a maximum of 97% on the 28th October and a minimum of 34% on the 2nd March, 24th June and 5th August. The mean relative humidity for the year equals $74\frac{1}{2}\%$.

METEOROLOGICAL OBSERVATIONS.

STATION—VALLETTA, MALTA.

 $\lambda = 14^{\circ} 30'$ $\phi = 35^{\circ} 53'$

H = 185 ft.

Months	Mean Pressure (8 a.m.)	Air Temperature							Tension of Vapour (8 a.m.)	Relative Humidity (8 a.m.)
		Adopted Mean Temperature	Means of		Absolute Min. and Max.					
			Min.	Max.	Min.	Date	Max.	Date		
January ...	29.892	55.3	52.1	59.0	44.9	10th	66.3	4th	11.3	79
February ...	29.803	52.7	48.7	56.5	43.5	16th	61.9	19th	10.8	74
March ...	29.929	59.9	55.1	64.9	48.2	28th	79.3	11th	13.5	74
April ...	29.920	60.2	55.9	64.7	50.2	2nd	71.8	28th	14.1	77
May ...	29.974	66.0	61.1	71.2	55.1	12th	82.1	27th	16.9	75
June ...	30.036	77.7	71.6	83.6	63.3	6th	97.6	26th	23.2	67
July ...	29.957	81.6	75.9	87.3	69.9	24th	97.0	6th	26.9	69
August ...	29.945	81.4	75.9	87.9	69.2	28th	103.8	7th	25.3	72
September ...	29.987	75.3	70.9	80.4	63.5	27th	91.2	12th-13th	23.0	74
October ...	30.069	69.1	64.8	73.1	58.4	21st	85.1	26th	18.4	73
November ...	30.044	64.3	61.0	68.1	55.4	30th	73.7	13th	16.3	78
December ...	30.045	56.2	52.7	59.6	45.3	21st	66.2	9th	12.5	79
Year ...	29.967	66.6	62.1	71.4	43.5	16th Feb.	103.8	7th Aug.	17.7	74

 λ = Longitude of Station. ϕ = Latitude of Station.

H = Height above mean sea level.

STATION—VALLETTA, MALTA.

Ht. = 71.

hr. = 59.

Months	Cloud	Sunshine	Rainfall			Weather No. of Days of:—							Wind—No. of Observations of:— (8 a.m.)								
	8 a.m.	Hours of	Total	Max.	Date	Rain	Snow	Hail	Thunder Storms	Clear Sky	Overcast	Gales	S.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm
January ...	7	4.43	7.65	1.01	23rd	17	...	1	4	...	15	3	1	...	1	4	2	7	2	11	3
February ...	7	5.65	5.33	1.18	22nd	23	...	2	2	2	9	5	...	...	...	4	...	7	2	14	1
March ...	6	6.74	0.34	0.12	2nd	7	...	...	...	8	14	1	...	3	...	4	...	10	1	9	4
April ...	6	8.39	0.14	0.05	24th	5	...	...	1	7	11	...	1	2	...	7	...	1	...	16	3
May ...	4	9.88	0.84	0.42	11th	5	...	...	2	15	8	...	2	1	...	5	...	1	2	15	5
June ...	2	12.43	...	...	...	...	...	...	1	17	1	...	3	3	2	3	...	3	2	7	7
July ...	1	12.66	...	...	...	...	...	...	...	25	...	...	2	3	1	...	...	3	2	14	6
August ...	1	11.87	...	...	...	...	...	...	...	23	1	...	2	4	1	4	1	2	...	13	4
September ...	3	9.21	0.60	0.29	20th	4	...	...	2	14	5	...	...	3	...	8	2	4	...	11	2
October ...	5	7.32	4.50	2.54	4th	5	...	...	1	7	7	2	1	5	1	7	...	5	...	6	6
November ...	7	4.90	3.87	0.53	30th	16	...	1	2	1	12	3	...	5	2	8	...	9	1	2	3
December ...	7	3.41	3.85	0.70	12th	23	...	3	3	1	12	1	...	4	1	7	1	11	1	5	1
Year ...	4.7	8.08	26.12	2.54	4th Oct.	105	...	7	18	120	95	13	12	33	9	61	6	65	13	113	45

Ht.—Height of the Therms. above the ground in feet.

hr. = Height of the Raingauge above the ground in feet.