

with the broken wall, which had rushed when the block fell forward. Clearing the confined end we prized up the other ; but as it was obviously beyond our united strength to raise it straight up, I suggested that resting the lever on an adjoining wall he should ease it up while I removed the stones from beneath. "But," said he, "I fear that if we do that it may go down suddenly flat upon its face, and then no power on earth should be able to raise it!" "O," I said, "that were a light thing." "Light!" he exclaimed, with wide open eyes, "don't you know this is a Wely?" It was only a flash revealing the man's soul; but in a moment reason had mastered superstition again, and he wrought with triple vigour. When the stones were removed he steadied the block while I crept under it, and lying on my back succeeded in making a fair copy of the part of the inscription which remained. Unfortunately, a large part of the stone had been broken off with several lines of the inscription, and of this I could find no trace. The break may have occurred when the stone fell from its place in the building. But the peasants are terrible vandals; and knowing nothing of their value, many a precious stone has gone to pieces beneath their clumsy hammers.

(*To be continued.*)

RESULTS OF METEOROLOGICAL OBSERVATIONS TAKEN AT JERUSALEM IN THE YEAR 1888.

By JAMES GLAISHER, F.R.S.

THE numbers in column 1 of this table show the highest reading of the barometer in each month; of these the highest appear in the winter, and the lowest in the summer months; the maximum for the year is 27·734 inches, in December. In column 2 the lowest reading in each month is shown; the minimum for the year is 27·020 inches, in December. The range of barometer readings in the year is 0·714 inch. The numbers in the 3rd column show the range of reading in each month, the smallest, 0·140 inch, is in July; and the largest, 0·714 inch, is in December. The numbers in the 4th column show the mean monthly pressure of the atmosphere, the highest, 27·463 inches, is in December; and the lowest, 27·275 inches, is in July. The mean pressure for the year is 27·375 inches. At Sarona the mean pressure for the year was 29·834 inches.

The highest temperature of the air in each month is shown in column 5. The highest in the year was 106°·0 on both the 12th and 13th of July; the maximum temperature on these days at Sarona was 90° and 93° respectively. The first day in the year that the temperature reached 90° was on March 25th. In May the temperature reached or exceeded 90° on 1 day; in June on 4 days; in July on 18 days; in August on 13 days; in September on 8 days; and in October on 6 days. Therefore

MONTHLY METEOROLOGICAL TABLE

Deduced from observations taken at Jerusalem, by JOSEPH GABEL, in a garden well within the city, about 2,500 feet above the level of the Mediterranean Sea, open on all sides.
Latitude, 31° 46' 40" N., Longitude, 35° 13' 30" E.

Months.	Pressure of atmosphere in month— Corrected to 32° Fahrenheit.				Temperature of the air in month at 9 a.m.							Mean readings at 9 a.m.			Vapour at 9 a.m.			Degree of humidity.	Weight of a cubic foot of air.	Direction of Wind. Relative proportions of.								Mean amount of cloud.	Rain.					
	Highest.	Lowest.	Range.	Mean.	Highest.	Lowest.	Range.	Mean of all highest.	Mean of all lowest.	Mean daily range.	Mean.	Dry bulb.	Wet bulb.	Dew point.	Elastic force of vapour.	Weight of vapour in a cubic foot of air.	Additional weight required for saturation.			N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		Number of days on which it fell.	Amount collected.				
1888.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	grs.	grs.	grs.	°	grs.															in.
January ...	27.602	27.174	0.428	27.420	64.8	30.0	34.8	49.7	37.0	12.7	43.4	46.6	43.5	40.0	.248	2.9	0.8	79	502	0	5	1	3	0	9	6	7	4.6	12	4.63				
February ...	27.600	27.046	0.554	27.368	73.0	33.5	34.5	57.4	44.1	13.3	50.7	52.7	47.8	42.9	.277	3.2	1.3	70	495	0	1	1	5	1	12	3	6	5.2	7	1.25				
March ...	27.627	27.194	0.433	27.424	90.5	37.5	53.0	67.2	49.8	17.4	58.5	60.3	52.1	45.0	.298	3.3	2.6	57	498	2	4	5	4	1	7	4	4	3.9	6	2.03				
April ...	27.491	27.169	0.322	27.332	86.2	40.5	45.7	70.3	51.6	18.7	61.0	62.7	55.1	48.5	.342	3.8	2.5	60	484	1	1	0	3	2	8	8	7	5.3	8	4.74				
May ...	27.472	27.259	0.213	27.359	91.5	43.0	43.5	75.8	54.5	21.3	65.1	68.3	59.7	52.6	.397	4.3	3.1	56	479	3	3	1	2	1	4	6	11	3.1	2	0.23				
June ...	27.396	27.220	0.176	27.326	93.0	53.0	40.0	83.0	61.0	22.0	72.0	76.6	67.4	60.9	.504	5.4	4.4	55	470	5	3	2	0	2	3	6	9	1.6	1	0.20				
July ...	27.329	27.189	0.140	27.275	106.0	58.5	47.5	93.2	69.0	24.2	81.1	85.3	73.3	65.6	.629	6.6	6.2	52	461	5	1	2	4	0	2	4	13	0.3	0	0.00				
August ...	27.372	27.200	0.172	27.289	97.5	58.0	39.5	89.3	65.0	24.3	77.2	83.2	71.7	64.1	.597	6.3	5.7	53	464	5	0	0	0	0	3	4	19	1.0	0	0.00				
September ...	27.486	27.280	0.206	27.381	97.0	53.0	39.0	87.2	62.8	24.4	75.0	73.0	69.2	62.8	.578	6.3	4.0	60	470	4	3	0	0	0	0	11	12	1.3	0	0.00				
October ...	27.568	27.353	0.205	27.441	94.5	53.0	41.5	82.5	63.8	18.7	73.1	73.9	65.3	59.0	.502	5.4	3.6	60	475	2	9	1	8	0	3	2	6	5.0	3	0.32				
November ...	27.600	27.090	0.510	27.420	68.5	33.5	30.0	56.9	45.9	11.0	51.4	53.1	49.2	45.3	.300	3.4	1.1	75	495	1	7	1	3	0	8	5	5	4.2	13	7.99				
December ...	27.734	27.030	0.714	27.463	64.5	29.5	35.0	53.4	42.4	11.0	47.9	43.8	45.4	41.7	.265	3.0	1.0	77	500	0	2	1	2	0	12	5	9	6.1	13	16.40				
Means ...	27.522	27.183	0.339	27.375	85.6	45.3	40.3	72.2	53.9	18.3	63.0	65.8	58.3	52.4	.411	4.5	3.1	63	482	sum. 26	sum. 39	sum. 15	sum. 34	sum. 7	sum. 71	sum. 66	sum. 108	3.5	sum. 65	sum. 37.79				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				

the temperature reached or exceeded 90° on 51 days during the year. At Sarona the first day that the temperature reached 90° was on March 5th. The highest in the year, viz., 105° , took place on October 19th. The maximum temperature on this day at Jerusalem was $94^{\circ} 5$; and the temperature reached or exceeded 90° at Sarona on 39 days in the year.

The numbers in column 6 show the lowest temperature of the air in each month; the lowest in the year was $29^{\circ} 5$ on December 16th. The temperature was below 40° in January on 23 nights; in February on 2 nights; in March on 2 nights; in November on 2 nights; and in December on 8 nights. Therefore the temperature was below 40° on 37 nights in the year. The yearly range of temperature was $76^{\circ} 5$. At Sarona the lowest temperature in the year was $37^{\circ} 0$ on January 11th. The temperature was below 40° on only two nights in the year. The yearly range of temperature at Sarona was $68^{\circ} 0$.

The range of temperature in each month is shown in column 7, and these numbers vary from 30° in November to 53° in March. At Sarona the range of temperature in each month varied from 26° in August to 58° in March.

The mean of all the highest by day, of the lowest by night, and of the average daily ranges of temperature, are shown in columns 8, 9, and 10 respectively. Of the high day temperature the lowest, $49^{\circ} 7$, is in January, and the highest, $93^{\circ} 2$, in July. At Sarona, of the high day temperature the lowest, $61^{\circ} 7$, was in January, and the highest, $88^{\circ} 5$, in July.

Of the low night temperature, the coldest, $37^{\circ} 0$, is in January, and the warmest, 69° , in July. At Sarona, of the low night temperature, the coldest, $44^{\circ} 9$, was in January, and the warmest, $70^{\circ} 3$, in August.

The average daily range of temperature is shown in column 10; the smallest, $11^{\circ} 0$, is in both November and December, and the largest, $24^{\circ} 4$, in September. At Sarona, of the average daily range of temperature, the smallest, $15^{\circ} 6$, was in December, and the largest, $24^{\circ} 4$, was in March.

In column 11 the mean temperature of the air is shown, as found from observations of the maximum and minimum thermometers only. The month of the lowest temperature is January, $43^{\circ} 4$, and that of the highest, July, $81^{\circ} 1$. The mean temperature for the year is 63° . At Sarona, of the mean temperature, the month of the lowest was January, $53^{\circ} 3$, and that of the highest, August, $79^{\circ} 4$. The mean temperature for the year at Sarona was $67^{\circ} 7$.

The numbers in columns 12 and 13 are the monthly means of a dry and wet-bulb thermometer taken daily at 9 a.m. In column 14 the monthly temperature of the dew point, or that temperature at which dew would have been deposited, is shown. The elastic force of vapour is shown in column 15. In column 16 the water present in a cubic foot of air is shown; in January it was as small as 2.9 grains, and in July as large as 6.6 grains. In column 17 the additional weight required for saturation is shown. The numbers in column 18 show the degree of humidity, saturation being considered 100; the smallest number,

indicating the driest month, is 52 in July, and the largest, 79, indicating the wettest month, is in January. The weight of a cubic foot of air under its mean pressure, temperature and humidity at 9 a.m. is shown in column 19.

The most prevalent winds in January were S.W. and N.W., and the least prevalent were N. and S. In February the most prevalent was S.W., and the least N. In March the most prevalent was S.W., and the least was S. In April the most prevalent were S.W., W., and N.W., and the least was E. In May the most prevalent was N.W., and the least E. and S. In June the most prevalent wind was N.W., and the least was S.E. In July the most prevalent was N.W., and the least was S. In August the most prevalent was N.W., and the least were N.E., E., S.E., and S. In September the most prevalent were N.W. and W., and the least were E., S.E., S., and S.W. In October the most prevalent were N.E. and S.E., and the least was S. In November the most prevalent were S.W. and N.E., and the least was S.; and in December the most prevalent winds were S.W. and N.W., and the least were N. and S. The most prevalent wind for the year was N.W., which occurred on 108 times during the year, of which 19 were in August, 13 in July, and 12 in September; and the least prevalent wind for the year was S., which occurred on only 7 times during the year, of which 2 were in both April and June. At Sarona the most prevalent wind for the year was S.W., which occurred on 86 times during the year; and the least prevalent wind was N., which occurred on only 6 times during the year.

The numbers in column 28 show the mean amount of cloud at 9 a.m. The month with the smallest amount is July, 0.3, and the largest, December, 6.1. Of the cumulus, or fine weather cloud, there were only 3 instances in the year; of the nimbus, or rain cloud, there were 29 instances in the year, of which 7 were in December; of the cirrus, there were 11 instances; of the stratus, there were 8 instances; of the cirro cumulus, there were 96 instances; of the cumulus stratus there were 67 instances; of the cirro stratus, there were 23 instances; and 129 instances of cloudless skies, of which 26 were in July, 22 in August, and 17 in June. At Sarona there were 90 instances of cloudless skies, of which 15 were in August and 13 in both June and July.

The largest fall of rain for the month in the year was 16.40 inches in December, of which 2.91 inches fell on the 15th, 2.90 inches on the 14th, and 2.75 inches on both the 11th and 16th. The next largest fall for the month was 7.99 inches in November, of which 2.44 inches fell on the 10th and 2.43 inches on the 14th. No rain fell from June 5th to October 1st, making a period of 117 consecutive days without rain. The total fall for the year was 37.79 inches, which fell on 65 days during the year. At Sarona the largest fall for the month in the year was 11.53 inches in December. No rain fell at Sarona from June 4th to October 1st, making a period of 118 consecutive days without rain. The total fall of rain for the year at Sarona was 28.84 inches, which fell on 62 days.