

With a trifling exception the whole has been drawn on the fair plan, but it has not been hill-shaded. A complete connection has now been established between Jaffa and Jerusalem, many trigonometrical observations having been made to the principal objects in the latter, so that the 1-2500 scale plan formerly made can be reduced at any convenient time and inserted in its relative position on the one-inch map.

Connections with Captain Wilson's bench marks, on the line of leveling from the Mediterranean to the Dead Sea, have been made in three instances with trigonometrical stations.

I am, Sir, your obedient servant,

THOMAS BLACK, Sergeant R.E.

C. F. T. DRAKE, Esq.

NOTE.—About 40 square miles have been already filled in this month.

ON THE METEOROLOGICAL OBSERVATIONS TAKEN AT NAZARETH, GAZA, BEYROUT, AND OTHER PLACES IN SYRIA.

BY JAMES GLAISHER, Esq., F.R.S.

IN the accompanying tables, the same arrangement has been followed as in those given in previous reductions at these places, and which is described on pp. 103—105, *Quarterly Statement* No. III, 1869. The observations on which the tables are based are as follows:—Nazareth, 1869 October to 1871 March; Beyrout, from 1870 February to 1871 April, and 1870 October to 1871 April; Gaza from 1869 October to February; Jaffa, from 1869 November to 1870 February (no observations, however, taken during 1870 December); and at Ramleh, Beyt Nuba, and El Jib, for short periods during 1871 December—1872 March. At Nazareth no barometric observations were taken, and both at this place and at Beyrout the observer at times was compelled to cease observing, owing to the exigencies of the public service. With regard to the last three places above mentioned, the results are deduced for the period during which the camp was at each place; at Ramleh, however, the observations during 1871 December are divided into two groups, owing to the camp having been blown down on the 13th. The first of these groups, therefore, refers to observations taken at the camp, 230 feet above sea level, and the second to those taken at the Russian Hospice, 270 feet above the sea.

ATMOSPHERIC PRESSURE.

Gaza.—The highest reading of the barometer was 30·630in. in Nov. 1869, and the lowest 29·348in. in March 1870. The monthly range of reading was small, and varied from about six-tenths of an inch in the winter months, to little less than two-tenths of an inch in the summer

months. The mean monthly values are also smaller in summer than in winter, and varied from 30·157in. and 30·171in. in October and November 1869, to 29·521in. and 29·547in. in July and August 1870.

Beyrout.—The highest reading was 30·230in. in February 1871, and the least 29·277in. in March 1870. The range is greater than at Gaza, but not to any extent.

Jaffa.—The readings show but very small variations in the three months, the ranges being small, and the mean values 28·8in. nearly in each instance.

TEMPERATURE.

Highest Temperatures by day.—At Nazareth, 99°·1 was recorded in October 1869. The two succeeding months in the year show a rapid decrease in temperature, the values being 89°·8 and 85°·8 respectively, while in the same months in 1870, 83°·0 and 72°·0 were registered.. The value in January 1870 was 78°·9. In February, March, and April, 1870, the highest temperatures were all less than 90°, but in May a sudden increase to 104° occurred, followed by a decrease to 92½° in June, which was again followed by an increase to 101° in July. The values for the next two months were both in excess of 90°, and those for October and November above 80°, but for December 1870 and January 1871 they were 72°·0 and 67°·6 respectively.

At Gaza, instead of a uniform decrease in the four months ending January 1870, there was a higher temperature (93°·0) in November 1869 than in the other months, and the lowest (83½°) occurred in December. Increasing temperatures were then recorded, and the maximum for 1870 (107°·5) was reached in May. In June, a decrease to 88°·0 occurred, followed by an increase to 93° in August, but afterwards the values generally decreased to 79°·0 in January 1871.

At Beyrout the highest temperature was 81°·0 in March 1870, and the lowest 67°·0 in February 1871 (it is to be noted that there were no observations at this place from May to September 1870); while at Jaffa the highest was 85°·0 in November 1869, and the lowest 78°·0 in January 1870.

Thus for the whole period the maximum occurred in May 1870, and was 107°·5 at Gaza, and 104°·4 at Nazareth (unfortunately there were no observations at Beyrout during this month).

Lowest Temperatures at night.—At Nazareth in October 1869 the minimum was 55°·5; the values then decreased to 36°·5 in February 1870; but in March, 39°·6 was recorded, and 35°·8 in April. The temperatures then increased to 64°·4 in August, followed by a decrease to 33°·0 in February 1871.

At Gaza, in 1870, the minimum (39°·0) occurred in February and April, and 36°·0 was registered in February 1871. In June, July, and August, 1870, the values were all in excess of 60°·0, in September and October above 50°, and in November and December of the same year, between 40° and 50°.

At Beyrout, 46°·0 and 45°·0 were recorded in February and April 1870, and 43°·0 in February 1871. At Jaffa, in January and February 1870, the lowest values were 36°·0 and 35° respectively.

Thus for the whole period the minimum occurred in February 1871 and was 36°·0 at Gaza, 43°·0 at Beyrout, 33°·0 at Nazareth, and 35°·0 at Jaffa.

Monthly Range of Temperature.—At Nazareth the range was between 40° and 50° in each month, from 1869 October to 1870 March, with the exception of January 1870, when it was but 36°. In April and May it was 49°·6 and 51°·6 respectively; but from June to November of the same year less than 40°. In 1870 December and 1871 January respectively, it was as small as 25°·7 and 28°·7, increasing again to 40° in February and March of the same year.

At Gaza the ranges varied (from October 1869 to February 1870) between 31°·0 and 49°·0. In April the range was 62°·0, and in May 56°·0. From June to the end of the year the variations were but small, and averaged about 33°. At Beyrout much smaller ranges were experienced than at the two above-mentioned places, in the four winter months ending 1871 the average value being but 15°.

Mean Temperature.—At Nazareth the coldest month in 1870 was January, with a mean temperature of 56°·6; and in 1871, February, with 51°·5. April 1870 was 1°·8 colder than March of the same year, but the means for the next two months (May and June) were nearly 80°, and those for July and August slightly in excess of that value. Those for September 1870 to January 1871 varied from 76°·9 in the former month to 55°·4 in the latter. At Gaza the coldest month was February in both 1870 and 1871, the mean values being 58°·3 and 55°·4 respectively. The means show a gradual decrease from October 1869 to February 1870; then, with the exception of April and June 1870, they increase to 80°·9 in August, which was the absolute maximum for 1870. From September 1870 to February 1871 a rapid decrease occurred. At Beyrout and Jaffa also the coldest month was February 1871, with mean temperatures of 54°·8 and 59°·6 respectively.

DIRECTION OF THE WIND.

At Nazareth the north wind averaged about eight days in the months May to October 1870, and varied from two to seven days in the remainder, while at Gaza its least prevalence was five days in April 1870, and from May 1870 to February 1871 it averaged fifteen days. The winter months of 1870—1 show a much greater prevalence of this wind than those of 1869—70. At Beyrout its general continuance was but small in December 1870, but one day only.

The east wind shows its greatest continuance at Nazareth during the winter months. In November 1870 it lasted eighteen days. No air blew from this quarter in August 1870, and for only one day in July and two days in September of the same year. At Gaza its prevalence was remarkably small throughout the whole period: in February 1870

it continued for six days; but in June it was entirely absent, and generally in the remaining months it averaged but one or two days. At Beyrout likewise its continuance was but small.

At Nazareth, south directions were less in their prevalence than either of the others. The general average was about four days, but less in the summer and more in the winter months. At Gaza the last two months of 1869, and the first five of 1870, were remarkable for the undue prevalence of this wind; in December 1869 it continued for twenty days, and from ten to fifteen days in each of the others. From June 1870 to February 1871 its continuance was very small, being entirely absent in July, and averaging but three days for the remainder. At Beyrout the general average was about eleven days. The west wind shows its greatest continuance at Nazareth during the summer months, averaging about sixteen days. In February and November 1870 it prevailed but for four days. It was less prevalent at Gaza, but shows the same excess in the summer, but averaging about thirteen days. At Beyrout its continuance was smaller still. At this place likewise calm days prevailed greatly at times, in December 1870 for thirteen days, and in April 1871 for ten days.

RAINFALL.

Number of Days.—At Nazareth the rainless months were May to September 1870. It fell on eleven and twelve days respectively in December 1869 and January 1870, followed by only three days in February, and then again by ten and thirteen in March and April. From November 1870 to March 1871 an increase is shown from two days in the former to seventeen days in the latter month.

At Gaza no rain fell in October 1869, and in February, May, June, July, August, September, and November, 1870. In the remaining months in the latter part of 1869 and early part of 1870, it averaged about four days, but from December 1870 to February 1870 its prevalence was greater; in the latter month falling on twelve days.

Beyrout shows a greater number of days, in the spring months varying from twelve to nineteen. At Jaffa it rained on very few days.

Amount Collected.—The rainless months at each station have been given above. At Nazareth the greatest fall from October 1869 to April 1870 was 4·4in. in March, and the least 0·07in. in October; the remaining months averaging about two inches. 0·38in. fell in November 1870, and 1·61in., 3·03in., 5·30in., and 8·03in. respectively in December 1870 and January, February, and March, 1871.

The greatest fall at Gaza was 3·12in. in February 1871; the nearest to this being 2·48in. in April 1870, 2·47in. in December 1869, and 2·38in. in October 1870.

The falls at Beyrout were much heavier, and averaged from 11·20in. in March 1871 to 0·59in. in February 1870. In February 1871 7·93in. fell, and 6·76in. in April, 1870. The greatest fall at Jaffa was 4·10in. in January 1870, and the least 0·05in. in February of the same year.

NAME OF STATION AND OBSERVER.	Year and Month.	Height above Sea-level. feet	BAROMETER.				TEMPERATURE OF AIR IN MONTH.						MEAN TEMPERATURE OF			VAPOUR.			WIND.		RAIN.								
			Highest.	Lowest.	Range in Month.	Mean reduced to 32° Fahr.	Highest.	Lowest.	Range.	MEAN			Air.	Evaporation.	Dew-point.	Elastic Force.	In a Cubic Foot of Air.		Mean Degree of Humidity, Saturation=100.	Mean Weight of a Cubic Foot of Air.	Estimated strength.	Relative Proportion of			Number of Days it fell.	Amount Collected.			
										Of all Highest.	Of all Lowest.	Daily Range.					Mean.	Short of Saturation				N.	E.	S.			W.		
			deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	grs.	grs.	deg.	grs.	grs.	grs.	grs.	grs.	grs.	grs.	grs.	grs.	grs.	grs.
Gaza, Syria. J. Nimmo, Esq.	1869	?	30.250	29.995	0.255	30.157	86.0	55.0	31.0	82.2	62.3	19.9	72.3	73.0	70.5	68.9	.701	7.6	1.2	87	521	0.5	13	2	7	9	0	0.00	
	Oct.		30.630	30.000	0.630	30.171	93.0	49.0	44.0	76.0	56.3	19.2	66.4	66.0	63.4	61.3	.543	6.0	1.0	85	530	0.7	11	1	10	8	5	1.68	
	Nov.		30.104	29.629	0.475	29.937	83.5	45.0	38.5	70.6	50.9	19.7	60.8	60.2	57.3	54.7	.429	4.8	1.1	83	550	0.9	5	2	20	4	5	2.47	
	Dec.		30.098	29.646	0.452	29.868	86.0	44.0	42.0	69.2	50.9	18.3	60.0	59.8	57.4	55.4	.438	4.8	0.7	85	549	0.9	7	3	15	6	3	0.43	
	1870		30.042	29.607	0.435	29.866	88.0	39.0	49.0	68.0	47.7	20.3	57.8	58.3	55.8	53.5	.411	4.5	0.9	84	551	0.7	8	6	10	4	0	0.00	
	Jan.		29.844	29.348	0.496	29.653	95.0	47.5	47.5	73.3	54.8	18.5	64.0	64.5	61.2	58.5	.491	5.4	1.3	81	522	1.3	9	2	12	8	3	1.40	
	Feb.		30.049	29.617	0.532	29.802	101.0	39.0	62.0	72.3	52.6	19.7	62.4	62.2	61.3	60.2	.528	5.9	0.4	95	527	2.0	5	4	11	10	5	2.48	
	Mar.		29.947	29.569	0.378	29.705	107.5	51.5	56.0	89.9	63.2	26.7	76.6	78.1	71.8	67.4	.672	7.2	3.2	70	509	0.3	11	5	5	10	0	0.00	
	April		29.767	29.513	0.254	29.641	88.0	62.0	26.0	83.8	63.3	15.0	76.3	77.1	74.8	73.2	.818	8.8	1.3	87	508	0.3	15	0	1	14	0	0.00	
	May		29.612	29.438	0.174	29.521	92.0	67.5	24.5	83.4	73.5	14.9	81.0	80.7	75.6	72.1	.790	8.5	2.7	75	503	0.5	12	1	0	18	0	0.00	
	June		29.728	29.433	0.295	29.547	93.0	66.0	27.0	90.0	70.2	19.8	80.1	79.9	77.7	75.5	.884	9.5	1.7	83	503	0.4	13	1	1	16	0	0.00	
	July		29.850	29.474	0.376	29.691	91.0	58.5	32.5	87.8	67.4	20.4	77.6	78.3	75.2	73.0	.814	8.7	1.7	83	508	0.2	18	1	5	6	0	0.00	
	Aug.		29.854	29.591	0.263	29.771	86.5	55.0	31.5	82.3	60.7	21.6	71.5	71.9	69.6	67.8	.682	7.4	1.1	88	516	0.4	20	1	3	7	3	2.38	
	Sept.		30.025	29.638	0.387	29.838	92.0	49.5	42.5	81.9	56.1	26.8	68.5	67.6	65.0	62.9	.575	6.3	1.1	84	522	0.3	15	2	1	12	0	0.00	
	Oct.		29.997	29.583	0.414	29.828	82.0	46.5	35.5	73.1	51.3	21.8	62.2	61.5	58.9	56.7	.460	5.1	1.0	84	529	0.5	10	1	2	18	7	1.91	
	1871			30.044	29.637	0.407	29.827	79.0	41.5	37.5	70.2	48.6	21.6	59.9	58.9	55.7	52.8	.401	4.4	1.2	80	532	0.8	18	4	1	8	6	2.09
	Jan.			30.135	29.597	0.538	29.848	80.5	36.0	44.5	66.1	44.9	21.2	55.5	55.4	53.2	51.1	.377	4.3	0.7	86	536	0.6	18	3	1	6	12	3.12

NOTE.—The observations were taken at 9 a.m. and 9 p.m.

BAROMETER.—The highest reading was 30.630in. in November 1869; the lowest 29.348in. in March 1870. The greatest monthly range was 0.630in. in November 1869, and the least 0.174in. in July 1870. The mean values are higher in the winter than in the summer months, and ranged from 30.171in. in November 1869 to 29.521in. in July 1870.

TEMPERATURE.—The highest temperature by day ranged from 107°·5 in May 1870 to 79°·0 in January 1871; and the lowest temperature at night from 67°·5 in July 1870 to 36°·0 in February 1871. The extreme ranges of temperature were 62°·0 in April 1870 and 24°·5 in July 1870. The highest mean temperature was 80°·9 in August 1870, and the lowest 55°·4 in February 1871.

WIND.—The north wind was the most prevalent, and with but few exceptions predominated above the others in each month; in October 1870 it prevailed for 20 days.

RAIN.—No rain fell in October 1869, February, May, June, July, August, September, and November 1871; in February 1871 it fell on 12 days to the amount of 3.12in.

NAME OF STATION AND OBSERVER.	Year and Month.	Height above Sea-level. feet.	BAROMETER.				TEMPERATURE OF AIR IN MONTH.						Approximate Mean Tem- perature from Max. and Min.	MEAN TEM- PERATURE OF			VAPOUR.			Mean Degree of Humidity, Saturation=100.	Mean Weight of a Cubic Foot of Air.	WIND.					RAIN.			
			Highest.	Lowest.	Range in Month.	Mean reduced to 32° Fahr.	Highest.	Lowest.	Range.	MEAN.				Air.	Evaporation.	Dew-point.	Elastic Force.	In a cubic foot of air.				Estimated Strength.	Relative Pro- portion of				Number of Days it fell.	Amount Collected.		
										Of all Highest.	Of all Lowest.	Daily Range.						Mean.	Short of Saturation.				N.	E.	S.	W.			Calm.	
			deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.		deg.	deg.	deg.	deg.	in.	grs.			grs.	grs.	grs.	grs.	grs.	grs.	grs.	grs.	grs.
Jaffa, Syria.* H. A. Kayat, Esq. Lat. 32° 3' N. Lon. 34° 44' E.	1869 Nov. 1870	..	28·898	28·618	0·275	28·762	85·0	50·0	35·0	78·5	56·9	21·6	67·8	70·1	64·6	60·4	526	5·7	71	501	..	9	..	..	..	..	1	0·20
The Camp, Ramleh, † Syria.	1871 Jan.	200	29·028	28·492	0·536	28·819	78·0	36·0	42·0	69·1	49·4	19·7	59·3	60·7	55·9	51·8	385	4·3	1·6	72	512	0·2	6	6	12	7	..	4	4·10	
	1871 Feb.	..	28·965	28·526	0·439	28·812	81·0	35·0	46·0	68·5	45·3	23·2	56·9	59·6	53·6	48·3	339	3·8	1·9	67	513	..	..	..	..	..	1	0·05
Russian Hospice, Ramleh.	1872 Dec.	230	29·913	29·064	0·249	29·811	84·1	52·0	32·1	75·8	65·0	65·7	58·9	53·3	408	4·0	2·4	56	525	1·5	2	6	12	4	7	..	2	0·05
	1872 Jan.	270	29·985	29·555	0·430	29·797	68·0	47·4	20·6	62·2	52·2	10·0	57·2	56·1	53·2	50·5	369	4·1	0·9	82	534	0·8	0·11	10	0·10	..	11	4·23		
Bayt Nuba, Syria. ‡	1872 Feb.	775	29·517	28·994	0·523	29·290	71·1	35·7	32·4	60·5	44·6	15·9	54·0	51·5	49·6	47·7	332	3·7	0·6	87	530	0·6	0	2	14	4	9	16	4·03	
	1872 Mar.	..	29·358	29·188	0·170	29·278	71·5	38·6	32·9	63·7	45·6	18·1	54·6	53·3	49·7	45·7	306	3·5	1·2	74	528	..	..	..	..	..	1	0·15
El Jib, Syria. § Lat. 31° 51' N. Lon. 35° 12' E.	1872 Mar.	2540	27·577	27·157	0·420	27·389	74·3	39·0	35·3	63·4	46·2	17·2	54·8	52·6	46·1	39·6	243	2·8	1·7	62	495	..	..	..	..	..	4	0·95

* 1869 November. The results are deduced from 18 days' observations.

.. December. No observations taken.

1870 February. The results are deduced from 20 days' observations.

† 1871 December. The results at the camp, Ramleh, are deduced from 12 days' observations, viz., December 1 to 12; on the 13th the camp was blown down; and from the 14th to the end of the month the observations were taken at the Russian Hospice.

‡ March. The results are deduced from observations on the first five days only.

§ The above values are deduced from 18 days' observations only, viz., 6th to 23rd.

NAME OF STATION AND OBSERVER.	Year and Month.	Height above Sea-level.	BAROMETER.				TEMPERATURE OF AIR IN MONTH.						Approximate Mean Temperature from Min. and Max.	MEAN TEMPERATURE OF			VAPOUR.			WIND.					RAIN.						
			Highest.	Lowest.	Range in Month.	Mean reduced to 32° Fahr.	Highest.	Lowest.	Range.	MEAN				Air.	Evaporation.	Dew-point.	Elastic Force.	In a Cubic Foot of Air.		Mean Degree of Humidity, Saturation=100.	Mean Weight of a Cubic Foot of Air.	Estimated Strength.	Relative Proportion of			Number of Days it fell.	Amount Collected.				
										Of all Highest.	Of all Lowest.	Daily Range.						Mean.	Short of Saturation.				N.	E.	S.			W.	Calm.		
																														Of all Highest.	Of all Lowest.	Daily Range.	Mean.	Short of Saturation.	N.	E.	S.	W.	Calm.
Beyrout, Syria. S. Jackson Eldridge, Esq., Consul-General for Syria. Lat 33° 54' N. Lon. 35° 29' E.	1870	..	in.	in.	in.	in.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	in.	grs.	grs.	grs.	grs.	1.1	6	3	9	4	6	4	in.	0.59	
	Feb.	..	30.080	29.515	0.565	29.904	71.0	46.0	25.0	61.1	53.6	7.5	57.4	57.7	53.7	50.1	.362	4.0	1.3	76	535	1.1	6	3	9	4	6	4	0.59		
	Mar.	..	29.875	29.277	0.598	29.651	81.0	48.5	32.5	77.2	59.1	18.1	63.6	66.3	63.5	61.3	.548	5.9	1.2	84	520	1.2	2	1	12	6	9	12	4.38		
	April	..	30.121	29.428	0.693	29.786	80.0	45.0	35.0	65.2	56.0	9.2	60.6	60.9	57.7	54.9	.431	4.9	1.1	82	529	1.0	4	2	11	8	5	15	6.70		
	Oct.	..	29.939	29.578	0.361	29.792	76.0	60.0	16.0	73.1	65.7	7.4	69.4	69.6	64.3	61.1	.536	5.9	2.0	75	520	4	2.96
	Nov.	..	30.143	29.733	0.410	29.926	74.0	60.0	14.0	70.9	63.2	7.7	67.1	67.3	62.4	58.5	.491	5.4	2.0	74	525	3	0.78
	Dec.	..	30.057	29.514	0.543	29.908	69.0	53.0	16.0	65.1	57.8	7.3	61.4	61.4	58.0	55.1	.434	4.8	1.3	80	531	0.6	1	4	11	2	13	12	4.59		
	1871
	Jan.	160	30.143	29.679	0.464	29.893	68.0	51.5	16.5	62.4	54.7	7.7	58.5	58.4	54.5	51.0	.375	4.6	1.3	77	534	15	4.67
	Feb.	..	30.230	29.610	0.620	29.951	67.0	43.0	24.0	58.0	50.6	7.4	54.3	54.8	51.0	47.4	.326	3.7	1.1	76	539	1.4	2	3	11	4	8	13	7.93		
	Mar.	..	30.016	29.529	0.487	29.824	73.0	48.0	25.0	61.7	54.2	7.5	57.9	58.3	54.7	51.5	.381	4.3	1.2	78	532	19	11.20
	April	..	29.935	29.475	0.460	29.737	78.0	57.0	21.0	68.6	60.4	8.2	64.5	64.8	61.4	58.6	.494	5.4	1.4	81	524	1.0	5	4	4	7	10	5	1.30		

NOTE.—From 1870, February to April, observations were taken at 9 a.m. and 10 p.m.; from 1871, October to April, at 9 a.m. and 9 p.m.
 „ October. The results are deduced from 19 days' observations only, viz., from the 12th to 30th.
 „ November. The results are deduced from 23 days' observations, viz., from 3rd to 30th.
 „ January. The results are deduced from 27 days' observations, viz., 1st and 2nd, and from 7th to 31st; observer away on public service.
 „ March 11th, no observations.

BAROMETER.—Highest reading, 30.230in. in February 1871; lowest reading, 29.277in. in March 1870; greatest monthly range, 0.693in. in April 1870; least, 0.361in. in October 1870. Highest mean value, 29.926in. in November 1870; least 29.651in. in March 1870.

TEMPERATURE.—The highest temperatures by day ranged from 81°0 in March 1870, to 67°0 in February 1871, and the lowest temperatures at night from 60°0 in October and November 1870, to 43°0 in February 1871. The extreme ranges of temperature were 35°0 in April 1870, and 14°0 in November 1870. The highest mean temperature was 69°6 in October 1870, and the lowest 54°3 in February 1871.

RAIN.—Greatest fall 11.20in. on 19 days in March 1871; least fall 0.59in. on 4 days in February 1870.

NAME OF STATION AND OBSERVER.	Year and Month.	Height above Sea-level. feet.	BAROMETER.				TEMPERATURE OF AIR IN MONTH.							MEAN TEM- PERATURE OF			VAPOUR.			WIND.				RAIN.				
			Highest.	Lowest.	Range in Month.	Mean reduced to 32° Fahr.	Highest.	Lowest.	Range.	MEAN.			Approximate Mean Tem- perature from Max. and Min.	Air.	Evaporation.	Dew-point.	Elastic Force.	In a Cubic Foot of Air.		Mean Degree of Humidity, Saturation=100.	Mean Weight of a Cubic Foot of Air.	Estimated Strength.	Relative Proportion of			Number of Days it fell.	Amount Collected.	
										Of all Highest.	Of all Lowest.	Daily Range.						Mem.	Short of Saturation.				N.	E.	S.			W.
			in.	in.	in.	in.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	deg.	in.	grs.	grs.	48	..	1.1	7	6	2	9	2	in.
Nazareth, Syria. Dr. P. K. Vartan.	1869.	1000	..	..	..	..	99.1	55.5	43.6	87.0	64.2	22.8	75.7	76.6	64.4	55.8	446	4.9	5.0	..	1.1	7	6	2	9	2	0.07
	Oct.	..	..	..	..	..	89.8	43.2	41.6	71.4	55.9	15.5	63.0	64.5	57.4	51.5	381	4.2	2.5	..	1.1	2	7	5	16	7	2.19
	Nov.	..	..	..	..	..	85.8	40.2	45.6	67.2	48.8	18.4	58.0	57.6	52.1	47.1	324	3.7	1.7	..	1.9	7	16	4	4	11	2.96
	Dec.	1870.
	Jan.	78.9	42.8	36.1	64.1	48.9	15.2	56.5	56.6	52.7	49.1	349	4.0	1.2	76	..	2.0	4	14	6	8	12	2.90
	Feb.	85.3	36.5	48.8	66.4	45.9	20.5	56.1	56.8	51.3	46.2	313	3.5	1.7	67	..	1.6	3	1.00
	Mar.	88.0	39.6	48.4	68.5	51.6	16.9	60.0	61.5	55.8	51.7	372	4.2	1.9	69	..	1.5	10	4.41
	April.	86.0	35.8	50.2	67.4	48.3	19.1	57.8	59.7	50.4	42.2	269	3.0	2.7	52	..	1.2	13	2.67
	May.	..	..	..	..	..	104.4	54.8	49.6	89.6	65.7	23.9	77.7	79.5	68.2	60.4	625	5.6	5.2	52	..	1.8	7	7	4	13	0.00
	June.	..	..	..	..	..	92.5	61.0	31.5	89.1	63.9	25.2	76.5	78.5	67.2	59.4	508	5.5	4.9	52	..	0.9	8	2	2	18	0.00
	July.	..	..	..	..	..	101.0	61.0	40.0	90.3	67.1	23.2	78.7	80.1	71.3	65.2	624	6.7	4.4	60	..	1.0	7	1	3	21	0.00
	Aug.	..	..	..	..	..	94.4	64.4	30.0	88.5	68.0	20.5	78.2	80.5	71.4	65.2	622	6.7	4.5	59	..	0.9	8	0	2	19	0.00
	Sept.	..	..	..	..	..	96.8	59.6	37.2	85.5	65.5	20.0	75.5	76.9	69.4	64.1	600	6.6	3.5	65	..	1.3	9	2	1	18	0.00
Oct.	..	..	..	..	..	87.0	52.0	35.0	78.4	60.7	17.7	60.5	69.8	62.0	55.9	449	4.6	3.0	61	..	1.4	9	7	4	11	5	1.81
Nov.	..	..	..	..	..	83.0	51.5	31.5	76.0	57.7	18.3	66.9	67.7	55.8	46.3	315	3.5	4.0	46	..	1.9	3	18	5	4	2	0.33
Dec.	1871.	..	..	..	..	72.0	46.3	25.7	65.8	52.0	13.8	58.9	58.8	52.7	47.3	327	3.7	1.9	66	..	1.3	5	11	5	10	7	1.61
Jan.	..	..	..	..	..	67.6	38.9	28.7	62.6	47.9	14.7	55.2	55.4	49.6	44.1	291	3.2	1.7	66	..	1.4	5	13	3	10	8	3.03
Feb.	..	..	..	..	..	72.5	33.0	39.5	59.2	43.4	15.8	51.3	51.5	45.9	40.2	249	2.8	1.5	66	..	1.3	4	10	6	8	12	5.30
Mar.	..	..	..	..	..	81.0	40.0	41.0	62.7	48.1	14.6	55.4	54.8	51.9	49.1	349	4.0	0.9	81	..	1.4	3	7	6	15	17	8.03

NOTE.—From 1869 October, to 1870 August, observations were taken at 9 a.m. and 3 p.m.; from 1870 September, to 1871 March, at 8.30 a.m. and 4 p.m.

1869 October. The results are deduced from 24 days' observations only, viz., from 1st to 11th, and 19th to 31st.

1870 February. Register of directions of the wind, incomplete.

March. The results are deduced from 29 days' observations.

April. The results are deduced from 28 days' observations.

TEMPERATURE.—The highest temperatures by day ranged from 104°·4 in May 1870, to 67°·6 in January 1871, and the lowest temperature at night from 64°·4 in August 1870, to 33°·0 in February 1871. The extreme ranges of temperature were 50°·2 in April 1870, and 25°·7 in December 1870. The highest mean temperature was 80°·5 in August 1870, and the lowest 51°·5 in February 1871.

RAINFALL.—In 1870, May, June, July, August, and September, no rain fell. The greatest fall was 8·03in. on 17 days in March 1872.