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A Collection of Afghanistan Climatic Data to 1953

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Summarized by

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INDEX

Pages		
1	**Introduction to Climatic Data for Afghanistan**	
2	**Chakhansur**	31° 10' 62° 04'
3-12	**Chah-i-Anjir**	
13-16	**Farah**	32° 25' 62° 06'
17-20	**Ghazni**	33° 33' 68° 26'
21-26	**Herat**	
27-39	**Jalalabad**	
40-73	**Kandahar**	
Part two	Original data	
Part three	Notes	

Introduction to Climatic Data For Afghanistan

Afghanistan, lying between about 30°N and 37°N is relatively inaccessible to moist air masses. Summers are hot and dry. Winters are cool; the number of consecutive days with temperature below freezing is limited in the lower elevations, but as a rule are higher in the mountains. Most of the precipitation occurs between December and April, January and February usually being the wettest months. The summer monsoon shows up in limited precipitation in the eastern mountains in late summer. Maximum temperatures are high in the summer. In the lowlands daily maxima are above 100°F from early June to late August. The "120-days wind" of Seistan extends into the contiguous areas of Afghanistan and needs to be considered in any operation in that region.

The occasion for compiling these data was the fact that in November 1953, Mr. Russell K. Smith of the Forest Service, turned over to the Weather Bureau weather records that he had been able to collect while on a technical assistance detail in Afghanistan. These include records from the Afghan Meteorological Service, which is directed by Dr. E. Stenz, records from the British and Pakistan Consulate (both apparently at the same location but consecutive in time) in Kandahar, and records taken by the Morrisson-Knudsen Afghanistan Company at Kandahar and ~~Cheikhansur~~. Chah-i-Anjar.

Since data appeared to be of mixed quality, they were compared with published data for nearby places when these could be found in our Library. The "India Weather ReView" contained data for Kabul, Kandahar and Jalalabad from about 1940 to July 1947 when India and Pakistan divided. This publication also contained data for Meshed, Seistan and Zahidan in nearby Iran. These data were used for comparison with Herat, Farah and Chah-i-Anjir

Some of the tables and data used for comparison have been compiled and included in this report because they were readily available but no attempt has been made to be exhaustive.

Data were compared bit by bit at Farah and other places with contemporary data at Meshed, Seistan, Zahidan and Kabul where "normals" had been established. This was to determine relations between the fragmentary records and the long established records so that there might be "comparative normals" from the short records. Simple monthly and annual ratios, straight and curvilinear regression lines were tried. Except for three means at Farah needed to complete the year, these were all abandoned as giving too poor an estimate of the "normal", introducing a bias, or too involved for results to be obtained.

However, to smooth out the irregularities characteristic of so few data, harmonic means of the monthly mean daily maxima and minima were computed. Except in the case of one monthly maximum and two monthly minima at Farah, harmonic means are based entirely on locally observed data. ~~The harmonic mean was calculated to two terms~~.

The records submitted by Mr. Smith have been turned over to the Weather Bureau Library.

CHAKHANSUR

The Following is Adapted from Notes on Chakhansur

The climate of the Chakhansur region, the southwestern portion of Afghanistan, is characterized by its variability. Reportedly, temperatures drop or rise sharply within a few hours in spring or autumn. The highest and lowest recorded air temperatures available for the area are 126°F and 4°F . Soil surface temperatures taken in July 1953 indicated 164°F and are probably higher on southern slopes and in areas less affected by air movement. The months of May, June, July and August are the months of highest temperature. While the temperature may reach 126°F it usually falls to 115°-120° or lower when the wind blows.

Between the end of May and the middle of June the 120-day-wind sets in and continues with very few quiet intervals until the middle of September. It will blow at high velocity unceasingly for four or five days at a time, usually attaining its maximum daily velocity between midnight and 5 a.m. and again between 8 a.m. and 5 p.m. It moderates a little in the early morning and evening. One record indicates that winds in the Chakhansur area have reached 120 miles per hour, and on one occassion blew at a velocity of over 88 miles per hour for sixteen hours. After four or five days of almost continuous wind, air movements subside for a day or two, only to commence with renewed violence. It apparently blows from one direction, 316° to 334°, or a little west of north.

The Chakhansur summer is rainless and cloudless. Clouds are last seen about mid-May and are seldom seen again before September.

Winter approaches suddenly, generally between November 1 and 15. Cloudy weather occurs in December and light showers of rain occur during the winter. Snowfall may occur any time between January and March. Blizzards have been reported during this time, some severe and commencing suddenly. In one blizzard all the lakes, as well as the flowing Rud-I-Seistan and Rud-I-Parian froze over, and there was considerable loss of livestock and human life.

The rainfall of the Chakhansur area is limited, as is characteristic of the desert. Although few official records are available, from those that do exist and from local reports, only traces of precipitation may occur in some years and in ordinary years probably does not exceed 2.5 to 3.0 inches.

No clue has been determined from the barometric pressure to indicate or forewarn the approach of high winds.

CHAH-I-ANJIR

The Morrison-Knudsen Afghanistan Company
Record at Chah-i-Anjir Afghanistan
1951- 1952 -1953

This record was apparently kept by two different observers, one from January through November 1951, and the other December 1951 through April 1953. The temperature record of the first was so poor that only one month of maximum and three months of minimum temperatures were used and those with some misgivings. All the precipitation record was used where it appeared complete for the month. None of the evaporation record was used.

CHAH-i-ANJIR
~~Chakhansur~~, Afghanistan
31° ~~10'N~~ 38'N ~~62° 04'E~~ 64° 20'E

	Temperature °F.			Smoothed Temperature			Precipitation	
	Mean Max.	Mean Min.	Mean	Mean Max.	Mean Min.	Mean	Total	Days =0.01
Jan	58.9	32.3	45.6	58.7	32.0	45.4	0.80	4
Feb	67.8	40.6	54.2	64.8	38.7	51.8	2.90	9
Mar	77.9	47.0	62.5	76.5	49.1	62.8	1.68	7
Apr	92.8	60.6	76.7	90.8	60.2	75.5	0.38	3
May	103.0	67.2	85.1	103.8	69.2	86.5	0.20	4
Jun	107.2	72.9	90.1	112.0	73.6	92.8	0	0
Jul	110.6	74.9	92.8	113.3	72.2	92.8	0	0
Aug	104.3	66.8	85.6	107.2	65.5	86.4	0	0
Sep	93.7	55.4	74.6	95.5	55.1	75.3	0	0
Oct	83.0	40.8	61.9	81.2	44.0	62.6	T	0
Nov	70.3	34.3	52.3	68.2	35.0	51.6	0.02	1
Dec	62.9	32.6	47.8	60.0	30.6	45.3	0.24	2
No. Yrs.	1	1	1	--	--	--	2	2
Ann.	86.0	52.1	69.1	86.0	52.1	69.1	6.22	30

T - trace

Chah-i-Anjir
~~Chakhansur~~ Afghanistan

Mean monthly Maximum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1951	-	-	-	-	-	103.3	-	-	-	-	-	66.8	
1952	57.6	67.1	76.8	91.7	103.0	111.1	110.6	104.3	93.7	83.0	70.3	59.0	
1953	60.2	68.4	79.0	93.8	-	-	-	-	-	-	-	-	
Mean	58.9	67.8	77.9	92.8	103.0	107.2	110.6	104.3	93.7	83.0	70.3	62.9	86.0

Mean Monthly Minimum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1951	34.3	37.2	44.8	-	-	-	-	-	-	-	-	36.1	
1952	33.3	40.2	47.8	63.0	67.2	72.9	74.9	66.8	55.4	40.8	34.3	29.0	
1953	29.4	44.4	48.3	58.2	-	-	-	-	- -	-	-	-	
Mean	32.2	40.6	47.0	60.6	67.2	72.9	74.9	66.8	55.4	40.8	34.3	32.6	52.1

Precipitation Inches

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1951	0.90	2.45	3.70	-	-	-	0	0	0	0	0	-	-
1952	1.17	4.42	0.93	0.35	0.20	0	0	0	0	T	0.04	0.24	7.35
1953	0.32	1.82	0.40	0.40	-	-	-	-	-	-	-	-	-
Means	0.80	2.90	1.68	0.38	0.20	0	0	0	0	T.	0.02	0.24	6.22

Number of Days with 0.01 Inch of Precipitation

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1951	4	6	13	-	-	-	0	0	0	0	0	-	-
1952	6	16	5	2	4	0	0	0	0	0	1	2	36
1953	2	5	3	3	-	-	-	-	-	-	-	-	-
Means	4	9	7	3	4	0	0	0	0	0	1	2	30

Data: Morrison-Knudsen Afghanistan Co.

Chah-i-Anjir
~~Chakhansur~~ Afghanistan

Daily Maximum Temperature °F

1952	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	50	64	73.0	87.8	100.4	114.8	107.6	107.8	105.8	92.7	74.1	69.4	
2	44	54	72.0	93.2	98.6	113.0	107.6	108.0	105.8	91.0	74.1	67.8	
3	44	58	79.0	75.2	91.4	109.4	111.2	108.0	105.8	91.4	79.2	67.3	
4	45	58	76.3	69.8	95.0	102.2	111.2	104.6	104.0	83.8	84.6	68.4	
5	52	70	76.1	77.0	102.2	96.8	114.8	106.0	100.4	80.2	81.5	68.9	
6	44	66	64.5	86.0	104.0	102.2	114.0	104.0	100.4	87.8	84.7	62.8	
7	50	68	68.0	93.2	104.0	105.8	116.6	105.8	94.0	89.8	81.3	64.9	
8	52	72	72.0	95.0	96.8	105.8	113.0	107.6	90.0	91.2	79.7	65.5	
9	52	70	71.6	96.8	87.8	107.6	107.6	105.8	91.4	90.1	80.2	63.9	
10	60	70	71.6	96.8	102.2	113.0	113.0	106.0	95.7	83.8	75.2	64.2	
11	62	76	82.4	98.6	105.8	107.6	113.0	107.6	96.4	83.3	68.0	62.4	
12	72	74	82.4	100.4	104.0	111.2	113.0	98.6	95.0	83.2	68.0	57.6	
13	58	74	69.8	102.2	93.2	113.0	116.6	100.4	95.0	82.6	70.9	54.5	
14	54	54	69.8	104.0	86.0	114.5	111.2	104.5	96.0	82.4	72.1	58.8	
15	54	50	68.0	104.0	95.0	115.4	109.4	105.8	98.6	86.0	70.0	59.7	
16	54	54	71.6	102.2	96.8	116.6	111.2	107.6	103.6	86.5	58.6	57.4	
17	60	60	73.4	98.6	98.8	114.8	107.6	104.0	103.1	85.1	66.4	54.0	
18	70	58	87.8	93.2	104.0	116.6	113.0	104.0	105.1	83.7	66.7	48.6	
19	70	62	87.8	93.2	105.8	117.0	111.2	107.6	90.0	72.9	67.1	52.3	
20	56	68	84.2	93.2	107.6	116.6	113.0	106.0	90.2	74.8	65.5	51.8	
21	62	-	71.6	96.8	111.2	116.6	111.2	103.0	93.0	73.0	64.4	49.3	
22	60	73	75.2	104.0	109.4	113.0	107.6	102.2	92.7	70.0	72.3	56.7	
23	70	74	84.2	104.0	111.2	111.2	102.2	104.5	97.2	72.0	68.7	51.8	
24	60	75	86.0	102.2	111.2	109.4	110.0	104.0	95.0	78.3	68.0	54.4	
25	54	70	95.0	95.0	113.0	111.2	108.0	104.0	95.7	80.4	62.6	59.0	
26	62	77	78.8	96.8	113.0	112.0	107.6	104.0	94.1	83.1	64.4	57.7	
27	64	78	77.0	89.6	105.8	113.0	109.4	98.6	91.8	84.2	64.4	57.3	
28	68	76	77.0	102.2	105.8	111.2	109.9	96.8	92.3	83.9	55.4	54.1	
29	56	75	69.8	91.4	109.4	111.2	109.0	100.4	94.1	83.5	59.0	54.5	
30	64		82.4	100.4	111.2	109.4	107.6	101.0	91.4	84.0	62.6	59.7	
31	62		82.4		113.0		110.6	104.0		77.7		55.2	
	57.6	67.1	76.8	91.7	103.0	111.1	110.6	104.3	93.7	83.0	70.3	59.0	Means

Data from Morrison-Knudsen Afghanistan, Inc. record

Chah-i-Anjir
~~Chakhansur~~ Afghanistan

Daily Maximum Temperatures °F

Year 1953	Jan	Feb	Mar	Apr	May	Year 1951 ~~Jun~~	July	Aug	Sep	Oct	Nov	Year 1951 ~~Dec~~
1	53.6	68.0	86.4	84.7		103.1						66
2	54.0	66.2	87.8	90.1		103.1						74
3	53.6	71.6	89.2	93.4		104.0						75
4	57.2	65.3	86.9	92.5		104.0						69
5	56.3	63.5	78.4	96.1		102.2						67
6	59.4	68.0	84.2	93.2		103.1						67
7	62.6	67.1	78.8	92.7		103.1						74
8	65.1	73.4	77.7	96.1		103.1						68
9	65.7	59.0	91.9	94.6		104.0						70
10	62.6	50.0	72.0	89.6		102.2						71
11	67.1	59.0	68.9	71.6		103.1						70
12	69.3	49.1	76.1	76.5		103.1						70
13	53.2	64.4	80.6	80.1		103.1						63
14	52.3	60.8	86.4	86.0		103.1						63
15	52.5	56.3	76.6	91.4		103.1						69
16	52.0	60.8	74.7	93.2		103.1						72
17	53.8	64.4	81.5	89.6		103.1						74
18	54.0	64.4	79.0	86.0		102.2						72
19	53.3	64.4	79.2	88.2		102.2						74
20	52.5	72.5	79.7	89.9		103.1						74
21	60.8	75.2	84.2	95.0		103.1						68
22	62.4	70.7	84.4	100.0		103.1						76
23	62.2	80.2	82.7	103.1		103.1						74
24	63.0	78.8	86.2	104.0		102.2						66
25	73.9	87.8	79.5	106.6		102.2						66
26	70.7	82.6	64.0	106.0		102.2						60
27	68.0	84.7	64.6	109.6		103.1						52
28	60.8	86.7	68.4	107.8		105.8						50
29	62.6		62.8	104.9		106.7						52
30	65.3		72.6	102.4		106.7						52
31	66.2		84.4									52
	60.2	68.4	79.0	93.8		103.3						66.8 Means

Data from Morrison-Knudsen Afghanistan, Inc. record

Chah-i-Anjir
~~Chakhansur~~ Afghanistan

Daily Minimum Temperatures °F.

1952	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	22	38	55.2	51.8	53.6	78.8	82.4	69.8	60.0	48.2	36.0	33.9	
2	18	36	48.0	53.6	75.2	78.8	71.6	68.0	64.4	47.5	37.2	33.4	
3	18	40	42.2	66.2	64.4	69.8	69.8	69.8	65.0	47.8	36.0	33.8	
4	24	38	49.0	53.6	66.2	71.6	66.2	73.4	66.6	46.8	37.4	39.0	
5	22	40	44.0	53.6	66.2	68.0	69.8	71.6	62.6	46.4	43.9	33.1	
6	28	36	44.1	51.8	68.0	62.6	71.6	68.0	61.0	59.0	38.7	29.7	
7	34	40	29.0	53.6	69.8	57.2	69.8	69.8	63.0	53.4	38.8	28.6	
8	28	44	32.0	53.6	75.2	64.4	87.8	68.0	61.0	47.5	36.3	25.5	
9	30	42	39.5	57.2	68.0	73.4	73.4	69.8	59.0	42.8	39.7	30.2	
10	34	42	41.0	57.2	60,8	55.4	69.8	68.0	54.6	41.7	41.0	29.8	
11	36	48	52.0	55.4	66.2	75.2	71.6	69.8	54.1	40.5	36.1	32.7	
12	36	-	60.0	64.4	66.2	69.8	71.6	68.0	53.5	41.9	32.0	28.9	
13	42	50	55.4	64.4	60.8	71.6	78.8	62.6	53.0	40.5	30.2	23.4	
14	28	50	51.8	69.8	55.4	69.8	77.0	60.8	52.0	39.9	38.5	30.4	
15	26	30	44.6	66.2	51.8	69.8	75.2	64.4	51.3	41.7	54.0	29.3	
16	26	28	32.0	77.0	55.4	73.5	75.2	66.2	53.5	41.2	37.8	40.3	
17	34	28	44.6	75.2	53.6	71.6	68.0	71.6	61.7	37.4	33.8	31.8	
18	30	28	48.2	71.6	57.2	71.6	71.6	69.8	55.0	38.7	32.0	22.8	
19	42	33	51.8	62.6	66.2	73.4	71.6	68.0	58.9	39.4	30.0	17.6	
20	26	32	60.8	59.0	69.8	75.2	75.2	68.0	55.4	36.1	31.6	18.0	
21	36	40	48.2	53.6	66.2	75.2	78.8	65.0	54.0	35.1	27.9	18.5	
22	38	-	39.2	62.6	71.6	77.0	84.2	62.6	52.3	31.7	33.8	26.4	
23	42	38	46.4	68.0	64.4	82.6	86.0	66.2	50.0	29.1	32.5	18.1	
24	40	48	53.6	69.8	71.6	80.6	82.4	65.0	48.2	30.6	32.0	31.6	
25	36	36	55.4	69.8	68.0	75.2	81.0	60.8	47.8	32.0	24.8	26.1	
26	38	40	62.6	66.2	75.2	84.2	76.2	63.0	46.4	35.6	24.8	22.6	
27	42	50	51.8	69.8	75.2	75.2	71.6	68.0	48.0	39.0	28.4	23.7	
28	44	58	48.2	68.0	73.4	77.0	71.6	64.4	50.0	38.3	32.0	28.2	
29	48	53	46.4	76.0	78.8	77.0	72.0	64.4	49.1	39.7	23.0	45.3	
30	44		55.4	68.0	86.0	80.6	75.2	64.4	51.8	38.5	30.2	34.3	
31	40		50.0		82.4		73.4	62.6		36.0		32.5	
	33.3	40.2	47.8	63.0	67.2	72.9	74.9	66.8	55.4	40.8	34.3	29.0	Means

Data from Morrison-Knudsen Afghanistan, Inc. record

Chah-i-Awjir
~~Chakhansur~~ Afghanistan

Daily Minimum Temperatures °F

1953	Jan	Feb	Mar	Apr	1951	Jan	Feb	Mar	Dec
1	21.0	37.4	53.2	54.7		-	18.0	40.1	32
2	19.2	49.1	48.7	50.0		-	29.0	42.8	36
3	19.0	50.0	54.9	55.6		35.5	23.0	50.0	36
4	19.6	36.5	60.8	54.9		38.3	28.0	50.0	37
5	20.7	32.9	57.4	61.3		42.8	38.0	44.6	32
6	18.1	37.4	57.2	57.4		-	44.0	44.6	32
7	24.4	47.3	46.4	63.6		35.5	44.0	41.0	38
8	28.0	48.2	46.4	68.4		42.8	45.5	43.7	36
9	37.0	46.4	55.7	63.3		46.4	36.0	-	28
10	33.1	41.0	47.5	63.0		49.0	37.0	32.9	31
11	30.2	39.2	35.4	57.6		34.7	37.0	38.3	30
12	39.2	44.6	38.3	53.2		34.7	33.0	41.0	30
13	39.2	43.7	44.6	49.1		29.3	35.0	41.0	28
14	32.0	45.5	57.2	52.9		33.0	31.0	46.4	30
15	28.0	33.8	47.3	51.9		31.0	32.0	50.0	30
16	23.4	36.5	46.4	52.2		28.4	-	-	38
17	28.4	38.3	46.0	54.1		30.2	44.0	46.4	42
18	32.0	37.4	51.1	48.6		33.8	47.0	43.7	38
19	24.8	40.1	45.5	47.5		-	36.0	41.0	38
20	25.2	42.8	45.0	50.0		32.0	44.0	42.8	42
21	35.8	52.7	59.5	51.6		30.2	47.0	45.5	42
22	26.6	51.8	59.0	58.0		33.0	41.0	50.0	40
23	36.1	46.4	57.6	60.8		33.8	45.5	44.6	46
24	39.2	49.1	54.9	61.4		40.0	38.0	46.4	44
25	44.0	54.7	55.4	64.8		41.0	36.5	46.4	48
26	43.7	50.5	42.8	66.8		30.2	37.4	42.8	50
27	32.0	52.7	35.1	69.0		31.0	42.0	44.6	42
28	27.5	55.8	39.2	72.9		23.0	36.5	50.0	46
29	24.8		32.7	70.5		26.6	-	50.9	29
30	28.4		33.8	61.9		31.0		49.1	26
31	30.2		42.6			30.2		50.0	22
	29.4	44.4	48.3	58.2	Means	34.3	37.2	44.8	36.1

Data from Morrison-Knudsen Afghanistan, Inc. record

Qalah-i-Anjir
~~Chakhansur~~ Afghanistan

Daily Precipitation Inches

1951	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
5	0.45	0.24		No		Data						
6		1.50	0.14									
7		0.47	0.04									
8		0.12	0.02									
9	0.31		0.20									
10	0.12											
13		0.06										
14			0.08									
15			0.35									
17	0.02	0.06	0.16									
22			0.18									
23			1.97									
24			0.04									
26												0
27												0
28			0.28									0
29			0.06									0
30												0
31			0.18									0
Sums	0.90	2.45	3.70	-	-	-	0	0	0	0	0	-

Chah-i-Anjir ~~Chakhansur~~ Afghanistan

Daily Precipitation Inches

1952	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	
1		0.04		0.04	0.04								
2					0.04								
3		0.24	T	0.31									
4		0.31	T										
5										T			
6	0.14				0.08								
7	0.24												
9		0.43	0.39										
10		0.16											
11	0.04	0.08											
12		0.71											
13					0.04						T		
15		0.47									0.04	0.16	
16											T		
17		0.20		T									
18		0.08		T									
19	0.31	0.08											
20		0.63	T										
24		0.20	0.05										
25		0.24	0.26										
26		0.24	0.22										
27	T	0.31										0.08	
28	0.28											T	
29	0.16		0.01								T	0	
30	T											0	
31													
Sums	1.17	4.42	0.93	0.35	0.20	0	0	0	0	T	0.04	0.24	7.35

Chah-i-Anjir
~~Chakhansur~~ Afghanistan

Daily Precipitation Inches

1953	Jan	Feb	Mar	Apr
3		0.12		
4			0.08	
9		0.24		0.04
10				0.12
11		0.67		0.24
12	0.20	0.24		
13	0.12	0.55		
14	T			
17	T			
18	T			
22			0.08	
23	T		0.24	
Sums	0.32	1.82	0.40	0.40

FARAH

Mean Temperatures at Farah

These data for Farah were copied from Afghan meteorological records at Kabul. In examining the 29 months of broken record, it appeared to be of rather poor quality. For instance the mean monthly minimum temperature for October 1946 was given as 48.6°, for November 1946, 51.3°; the mean monthly maximum for February, 1946, 95.2° - obviously in error. Some of the data, however, looked reasonable enough so an attempt was made to find a criterion by which these data could be salvaged.

Each month's mean maximum and minimum was set opposite the corresponding temperature for Herat, Seistan and Zahidan, the three nearest stations with available data. Ratios of the mean temperature given for Farah with the sum of these three stations and with each one separately were computed. Ratios computed for each mean temperature were compared for that month with different stations and the same station for different months, and in the light of these an arbitrary decision was made as to whether or not the Farah data should be used. Those data accepted are given in the accompanying tables.

Once the mean monthly temperatures for Farah are accepted the ratios can then be used to estimate long term mean temperatures from the normals of Seistan and Zahidan. Average ratios were computed and applied to the published "Normals" (India Monthly Review), to develop a mean maximum and mean minimum for each month of the year. However only the mean maximum for December and mean minimum for November and December, thus calculated, were used in the harmonic smoothing formula.

Farah Afghanistan

32°24'N 62°07'E 2460 ft.

	Temperature			Smoothed Temperature			Precip.
	Mean Max.	Mean Min.	Mean	Mean Max.	Mean Min.	Mean	Total
Jan	55.2	36.7	46.0	61.1	33.1	47.1	1.05
Feb	65.1	36.9	51.4	64.9	37.5	51.2	0.92
Mar	76.6	46.9	61.8	73.9	46.5	60.2	0.41
Apr	86.9	55.9	71.4	85.8	57.4	71.6	0.04
May	99.4	66.0	82.7	97.4	67.5	82.5	0.02
Jun	104.3	72.9	88.6	105.5	74.0	89.8	0
Jul	106.8	77.0	91.9	108.1	75.1	91.6	0
Aug	101.1	73.8	87.5	104.3	70.7	87.5	0
Sep	95.4	60.3	77.9	95.3	61.7	78.5	0
Oct	86.3	49.7	68.0	83.4	50.8	67.1	0
Nov	76.5	-	-	71.8	40.7	56.3	0.59
Dec	-	-	-	63.7	34.2	49.0	1.57
No.Yrs.	1-3	1-3	1-3	-	-	-	2
Annual	-	-	-	84.6	54.1	69.4	4.60

Farah Afghanistan

Temperature °F.

Mean Monthly Maximum Temperatures

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1944	-	66.0	76.3	86.2	97.9	103.8	110.7	105.1	94.5	87.6	-	-	-
1945	55.2	64.2	76.8	-	-	-	104.5	-	96.3	84.9	76.5	-	-
1946	-	-	-	87.6	100.8	104.7	105.3	97.0	-	-	-	-	-
Means	55.2	65.1	76.6	86.9	99.4	104.3	106.8	101.1	95.4	86.3	76.5	-	-

Mean Monthly Minimum Temperatures

1944	-	36.9	48.7	55.9	66.0	72.9	77.4	73.2	61.3	50.7	-	-	-
1945	36.7	-	45.1	-	-	-	-	-	59.2	48.6	-	-	-
1946	-	-	-	-	-	-	76.5	74.3	60.4	-	-	-	-
Means	36.7	36.9	46.9	55.9	66.0	72.9	77.0	73.8	60.3	49.7	-	-	-

Harmonically Smoothed Means

Max.	61.1	64.9	73.9	85.8	97.4	105.5	108.1	104.3	95.3	83.4	71.8	63.7	84.6
Min.	33.1	37.5	46.5	57.4	67.5	74.0	75.1	70.7	61.7	50.8	40.7	34.2	54.1
Mean	47.1	51.2	60.2	71.6	82.5	89.8	91.6	87.5	78.5	67.1	56.3	49.0	69.4

Monthly Means Interpolated from Seistan and Zahidan Normals

Max.												61.1	
Min.											39.3	33.2	

Data from Afghan Meteorological records at Kabul

Farah Afghanistan

Precipitation Inches

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1944	-	.60	.30	0	.04	0	0	0	0	0	-	-	
1945	1.22	.27	.46	.12	-	-	0	0	0	0	.59	1.57	
1946	.87	1.90	.48	0	0	0	0	0	0	0	-	-	
Means	1.05	.92	.41	.04	.02	0	0	0	0	0	.59	1.57	4.60

Data from Afghan Meteorological records at Kabul

GHAZNI

The record at Ghazni consists of four years (1944-1947) of mean maximum and minimum and extreme monthly temperatures, mean relative humidity taken three times a day for 1944, mean monthly wind velocity for 1944, and precipitation for selected months within the four years 1944-1947. The times of the relative humidity observations are not given but they are assumed to be regular morning, midday, and evening observations.

Most of the temperatures were compared with mean temperatures at Kabul and Kandahar and appeared to be of good and consistent quality. The mean temperatures for November 1944 appeared out of line and were not used. This inconsistency is probably due to a copying rather than observational error.

Harmonic smoothing was applied to the means of the maximum and minimum. These are given as well as the monthly means computed from them.

GHAZNI, AFGHANISTAN

33°44'N 68°18'E 7279 ft.

Mons.	Temperature Mean Max.	Temperature Mean Min.	Temperature Mean	Smoothed Temps. Mean Max.	Smoothed Temps. Mean Min.	Smoothed Temps. Mean	Temperature Extremes Max.	Date	Min.	Date
Jan	32.9	10.5	21.7	32.4	13.1	22.8	47.8	21/46	-20.7	8/45
Feb	35.3	11.8	23.6	37.1	16.3	26.7	49.8	10/46	-11.7	18/46
Mar	52.8	28.3	40.6	50.9	24.6	37.8	74.5	30/46	5.4	1/45
Apr	67.9	39.5	53.7	66.8	35.8	51.3	80.1	19/44	25.8	18/47
May	76.4	45.3	60.9	78.7	46.9	62.8	84.9	11/46	36.0	10/47
Jun	84.0	53.0	68.5	84.6	54.9	69.8	94.1	22/46	40.3	7/45
Jul	88.5	57.5	73.0	86.4	57.7	72.1	96.3	5/47	49.1	19/44
Aug	85.6	55.5	70.6	85.3	54.5	69.9	96.8	9/47	44.6	23/46
Sep	78.4	44.9	61.7	80.3	46.2	63.3	90.5	11/47	30.2	26/44
Oct	69.2	34.5	51.9	69.6	35.0	52.3	81.5	5/46	23.7	28/45
Nov	56.9	26.4	41.7	54.1	23.9	39.0	73.7	1/47	5.9	29/46
Dec	37.8	17.4	27.6	39.4	15.9	27.7	52.7	15/45	-7.6	20/45
No.Yrs.	4	4	4	-	-	-	4	-	4	-
Ann.	63.8	35.4	49.6	63.8	35.4	49.6	96.8	Aug47	-20.7	Jan 45

	Precip. in.	Relative Humidity I	II	III	Wind m/hr
Jan	1.64	73	67	71	1.7
Feb	1.88	78	69	77	2.8
Mar	2.07	75	50	71	2.5
Apr	0.85	63	30	50	3.7
May	1.09	59	33	49	3.3
Jun	.03	44	20	35	2.7
Jul	.91	58	29	48	2.9
Aug	.07	58	36	54	2.8
Sep	.19	48	27	48	2.5
Oct	0	49	20	43	3.2
Nov	.12	55	36	56	2.6
Dec	.50	73	55	72	3.2
No. Years	4	1	1	1	1
Annual	9.35	61	39	56	2.7

GHAZNI, AFGHANISTAN

Mean Maximum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1944	31.3	34.5	49.3	66.0	74.8	82.2	88.2	82.9	73.9	67.8	-	36.3	
1945	27.0	35.2	55.9	62.8	73.2	84.4	87.4	85.6	79.5	69.4	56.3	40.5	
1946	40.6	36.1	55.6	74.1	81.0	85.5	88.7	83.3	78.8	72.0	54.1	39.2	
1947	32.5	35.4	50.5	68.5	76.5	83.7	89.6	90.5	81.3	67.5	60.3	35.2	
Means	32.9	35.3	52.8	67.9	76.4	84.0	88.5	85.6	78.4	69.2	56.9	37.8	63.8

Mean Minimum Temperature °F.

1944	9.3	12.4	27.7	38.7	45.5	50.4	58.1	54.1	40.8	32.9	-	15.1	
1945	5.2	10.8	32.5	36.7	44.1	54.0	58.6	56.5	45.5	34.3	27.9	15.1	
1946	16.9	14.0	26.2	43.3	48.9	56.5	59.5	54.5	46.0	37.9	23.2	14.0	
1947	10.6	9.9	26.6	39.4	42.8	51.1	53.8	56.8	47.1	32.9	27.9	25.5	
Means	10.5	11.8	28.3	39.5	45.3	53.0	57.5	55.5	44.9	34.5	26.4	17.4	35.4

Extreme Maximum Temperatures °F.

1944	44.6	44.4	62.2	80.1	83.7	88.7	92.3	87.4	79.0	73.2	66.7	49.6	
1945	37.4	45.7	71.1	74.3	81.3	93.2	93.2	90.7	84.2	76.3	67.8	52.7	
1946	47.8	49.8	74.5	79.2	84.9	94.1	95.4	88.5	82.9	81.5	63.3	50.4	
1947	41.9	43.9	63.7	76.8	84.2	90.5	96.3	96.8	90.5	79.2	73.8	-	
Period	47.8	49.8	74.5	80.1	84.9	94.1	96.3	96.8	90.5	81.5	73.8	52.7	96.8

Extreme Minimum Temperatures °F.

1944	-7.6	-0.4	9.3	29.5	38.7	43.5	49.1	45.1	30.2	27.9	23.2	-3.6	
1945	-20.7	-2.2	5.4	31.8	37.0	40.3	55.4	47.7	35.8	23.7	20.8	-7.6	
1946	4.5	-11.7	5.5	39.0	40.5	53.8	55.8	44.6	41.5	28.8	5.9	- 2.7	
1947	19.0	-2.6	15.3	25.9	36.0	44.6	49.3	50.9	37.8	26.1	23.2	10.0	
Period	-20.7	-11.7	5.4	25.9	36.0	40.3	49.1	44.6	30.2	23.7	5.9	-7.6	-20.7

GHAZNI AFGHANISTAN

Precipitation Inches

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1944	1.33	2.89	1.43	0.93	2.24	0.03	0.55	0.07	T	0	0.33	0.43	10.23
1945	1.67	1.18	1.70	2.09	0.19	-	-	-	0.37	-	0	0.54	-
1946	3.22	2.08	1.33	0.15	-	-	1.26	-	-	0	-	0.49	-
1947	0.33	1.32	3.83	0.24	0.85	-	-	-	-	-	0.04	0.52	-
Mean	1.64	1.88	2.07	0.85	1.09	0.03	0.91	0.07	0.19	0	0.12	0.50	9.35

HERAT

The Herat meteorological record was copied from official Afghan records. It extends from July 1941 through 1948. It is fairly complete from August 1942 to December 1947. Although reasonably consitent, it does not inspire much confidence - a few bits of data were dropped where these appeared in error.

The temperature means did not make a smooth annual march. However, the means were used to compute a smooth harmonic curve which may represent the annual march better than the crude means.

Relative humidity means were given for each of the three daily observations, 07, 13 and 21 hours.

Wind speeds were given for 7 years but marginal notes indicate that some were estimated. Probably the wind speeds were estimated at the observations without benefit of instruments. All wind records were combined.

HERAT, AFGHANISTAN

34°22'N 62°09'E 3030 ft.

	Temperature			Smoothed Temperature			Extreme Temperatures			
	Mean Max.	Mean Min.	Mean	Mean Max.	Mean Min.	Mean	Highest		Lowest	
Jan	51.0	30.6	40.8	49.9	31.2	40.6	68.7	3/1942	0.5	19/1943
Feb	55.5	33.0	44.3	54.9	34.7	44.8	77.5	29/1948	12.6	24/1943
Mar	66.1	40.8	53.5	66.1	39.7	52.9	88.0	30/1946	23.2	9/1948
Apr	77.8	47.6	62.7	78.4	46.9	62.7	94.1	17/1944	25.9	1/1945
May	87.3	56.2	71.8	87.9	56.6	72.2	102.6	24/1944	39.0	6/1945
Jun	93.6	64.3	79.0	93.6	66.3	80.0	104.4	26/1945	46.4	7/1945
Jul	97.4	72.3	84.9	96.1	71.4	83.8	109.8	8/1944	57.0	31/1947
Aug	94.5	70.6	82.6	95.3	68.4	81.9	108.3	1/1941	49.1	31/1942
Sep	88.2	56.3	72.3	89.9	58.0	74.0	103.8	11/1942	38.3	20/1942
Oct	81.1	44.5	62.8	79.2	44.8	62.0	98.1	1/1941	28.2	12/1945
Nov	66.9	35.5	51.2	65.5	34.7	50.1	84.6	11/1941	13.5	28/1946
Dec	51.1	31.8	41.5	54.0	30.4	42.2	71.1	17/1943	-7.4	21/1948
No.Yrs.	6	6	6	-	-	-	7	-	7	-
Ann.	75.9	48.6	62.3	75.9	48.6	62.3	109.8	1944	-7.4	1948

	Precipitation	Relative Humidity				Wind Speed
		07	13	21	Mean	mi/hr
Jan	2.44	72	49	71	64	4.0
Feb	1.31	74	41	63	59	3.5
Mar	1.52	69	37	62	56	3.7
Apr	.34	65	31	50	49	3.6
May	.17	56	25	41	41	3.7
Jun	0	43	21	25	30	5.0
Jul	0	31	18	20	23	6.4
Aug	0	31	19	23	24	7.2
Sep	0	40	20	27	29	5.0
Oct	.01	60	27	45	44	3.0
Nov	.31	70	32	55	52	2.9
Dec	1.32	74	46	69	63	2.7
No.Yrs.	7	6	6	6	6	7
Ann.	7.42	57	31	46	45	4.2

HERAT AFGHANISTAN

Mean Monthly Maximum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1941	-	-	-	-	-	-	97.2	95.9	89.2	84.0	68.9	56.8	
1942	53.4	51.4	68.2	-	-	-	-	91.2	-	-	69.8	51.6	
1943	46.6	54.1	58.1	73.8	82.8	91.6	96.1	91.4	85.8	76.5	62.6	56.5	
1944	53.4	59.0	70.3	76.3	91.0	95.5	101.3	96.6	85.8	79.2	68.0	37.4	
1945	50.4	52/2	64.6	77.0	83.1	93.9	96.3	95.4	89.4	84.4	66.4	54.3	
1946	48.2	59.0	66.0	83.1	92.8	95.0	97.3	92.5	90.1	82.8	59.5	50.2	
1947	54.0	57.4	69.1	78.6	86.7	92.1	96.1	98.4	89.1	79.5	73.4	-	
1948	-	-	-	-									
No.Yrs.	6	6	6	5	5	5	6	7	6	6	7	6	
Mean	51.0	55.5	66.1	77.8	87,3	93.6	97.4	94.5	88.2	81.1	66.9	51.1	75.9

Mean Monthly Minimum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1941	-	-	-	-	-	-	69.1	69.8	58.1	48.0	28.0	34.3
1942	34.7	32.9	41.5	-	-	-	-	65.3	51.1	43.3	39.0	36.9
1943	24.1	29.3	34.3	43.2	52.7	62.2	73.4	71.6	54.0	41.5	35.2	36.5
1944	34.3	34.3	45.1	49.1	58.5	65.8	77.2	71.4	58.3	44.8	37.9	20.3
1945	25.3	30.4	38.7	46.0	54.5	62.2	71.2	71.1	58.6	43.9	37.8	35.8
1946	29.3	37.0	42.6	51.4	61.0	68.2	70.5	74.3	59.7	45.9	28.2	26.8
1947	35.6	34.3	42.8	48.4	54.3	63.1	72.5	70.7	54.0	44.1	42.3	-
No.Yrs.	6	6	6	5	5	5	6	7	7	7	7	6
Mean	30.6	33.0	40.8	47.6	56.2	64.3	72.3	70.6	56.3	44.5	35.5	31.8

Data from Afghan weather records

HERAT AFGHANISTAN

Extreme Maximum Temperatures °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1941	-	-	-	-	-	-	107.6	108.3	96.6	98.1	84.6	68.2	
1942	68.7	64.2	85.8	-	-	-	-	96.8	103.8	-	83.3	67.8	
1943	57.0	66.2	76.3	81.9	95.7	97.7	104.2	99.9	98.8	86.7	72.0	71.1	
1944	64.2	68.9	83.8	94.1	102.6	102.7	109.8	105.8	93.9	89.8	82.8	54.0	
1945	60.6	71.8	84.0	93.4	93.2	104.4	106.2	102.7	102.7	92.8	78.8	70.2	
1946	62.1	75.9	88.0	93.0	102.8	102.6	109.0	99.9	95.0	95.9	77.9	62.6	
1947	68.2	71.8	78.3	92.1	96.1	102.7	108.7	106.5	102.2	93.9	84.4	63.3	
1948	68.7	77.5	86.9	93.7	96.8	101.1	105.6	99.3	102.9	90.7	75.9	68.9	
No.Yrs.	7	7	7	6	6	6	7	8	8	7	8	8	
Ext.	68.7	77.5	88.0	94.1	102.6	104.4	109.8	108.3	103.8	98.1	84.6	71.1	109.8

Extreme Minimum Temperatures °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1941	-	-	-	-	-	-	57.7	54.1	47.8	37.8	17.6	17.6	
1942	20.3	24.4	26.1	-	-	-	-	49.1	38.3	30.7	27.9	10.2	
1943	0.5	12.6	26.1	28.6	45.5	52.7	62.1	62.8	41.5	28.6	27.5	25.0	
1944	22.8	23.5	35.6	35.1	44.2	56.3	64.0	58.1	40.8	32.2	19.0	2.3	
1945	10.9	18.9	24.3	25.9	39.0	46.4	60.6	59.9	42.6	28.2	28.2	13.1	
1946	9.3	26.2	27.3	33.1	50.9	56.8	58.1	-	46.4	33.1	13.5	16.7	
1947	26.6	20.7	34.3	33.6	43.0	49.3	57.0	51.6	41.9	31.5	23.9	20.3	
1948	25.9	18.0	23.2	26.1	48.6	54.1	64.0	56.1	40.1	30.0	20.5	-7.4	
No.Yrs.	7	7	7	6	6	6	7	7	8	8	8	8	
Ext.	0.5	12.6	23.2	25.9	39.0	46.4	57.0	49.1	38.3	28.2	13.5	-7.4	-7.4

Data from Afghan weather records

HERAT, AFGHANISTAN

Data from Afghan weather records

Mean Relative Humidity 07 hrs. of Observation

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1941	-	-	-	-	-	-	28	28	31	47	63	77	
1942	76	87	71	-	-	-	-	26	35	57	68	-	
1943	71	70	73	65	55	50	37	35	40	64	84	84	
1944	77	76	69	63	61	45	31	29	36	58	61	71	
1945	-	67	61	54	53	48	33	40	47	60	76	68	
1946	77	71	64	71	45	29	27	21	32	65	69	72	
1947	61	71	74	41	67	45	31	37	57	66	68	-	
No.Yrs.	5	6	6	5	5	5	6	7	7	7	7	5	
Means	72	74	69	65	56	43	31	31	40	60	70	74	57
Hour of Obser. 13													
1941	-	-	-	-	-	-	15	15	15	19	27	51	
1942	51	53	39	-	-	-	-	18	17	24	35	-	
1943	61	51	56	40	29	24	25	26	24	29	30	51	
1944	45	30	33	32	30	22	18	16	19	27	26	52	
1945	-	34	26	20	22	20	17	22	25	25	35	36	
1946	50	40	32	34	17	14	12	13	13	26	34	41	
1947	40	36	34	28	29	23	19	20	29	36	35	-	
Years	5	6	6	5	5	5	6	7	7	7	7	5	
Mean	49	41	37	31	25	21	18	19	20	27	32	46	31
Hour of Obser. 21													
1941	-	-	-	-	-	-	18	21	25	46	49	74	
1942	73	76	74	-	-	-	-	22	25	44	58	-	
1943	83	68	71	63	48	33	27	31	31	53	73	81	
1944	76	64	63	64	42	28	19	18	29	48	52	72	
1945	-	58	57	42	58	25	18	28	29	40	59	64	
1946	71	59	50	43	22	16	15	16	14	40	46	56	
1947	53	55	55	38	33	24	20	22	33	45	46	-	
Yrs.	5	6	6	5	5	5	6	7	7	7	7	5	
Mean	71	63	62	50	41	25	20	23	27	45	55	69	46
Mn. 30bs.	64	59	56	49	41	30	23	24	29	44	52	63	45

HERAT, AFGHANISTAN

Rainfall Mm.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1941	-	-	-	-	-	-	0	0	0	0	.63	1.31	
1942	3.68	1.77	2.33	-	-	-	-	0	0	.03	.86	-	
1943	2.50	1.19	2.44	.12	0	0	0	0	0	0	.42	1.24	
1944	1.97	1.11	.78	.49	0	0	0	0	0	0	.04	2.42	
1945	2.80	.80	1.30	.24	.96	0	0	0	0	0	.31	1.70	
1946	2.15	1.14	.76	.04	0	0	0	0	0	0	0	.84	
1947	1.98	2.62	2.36	T	.04	0	0	0	0	0	.06	.53	
1948	2.01	.56	.70	1.17	T	0	0	0	0	.01	.17	1.23	
Mean	2.44	1.31	1.52	.34	.17	0	0	0	0	.01	.31	1.32	7.42
No.Yrs.	7	7	7	6	6	6	7	8	8	8	8	7	

Wind Speed mi/hr

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1941	-	-	-	-	-	-	6.3	9.1	5.5	1.5	1.9	2.0	
1942	7.1	3.1	-	-	-	-	-	9.4	7.3	3.0	2.9	1.7	
1943	3.4	4.2	4.1	3.5	3.0	4.1	8.2	7.5	4.2	2.9	2.2	2.4	
1944	3.6	3.4	3.4	4.3	3.3	6.1	7.0	6.8	5.7	3.7	3.6	3.3	
1945	4.3	3.7	4.4	4.1	3.8	6.3	6.9	7.0	5.2	3.0	2.9	3.0	
1946	2.9	3.6	3.5	3.3	4.1	4.3	4.8	7.8	3.2	3.1	3.2	3.0	
1947	3.5	3.2	3.4	3.4	3.6	4.8	5.5	4.6	3.9	3.1	2.8	3.0	
1948	3.5	3.0	3.2	3.0	4.5	4.5	6.0	5.5	5.0	4.0	3.5	3.0	
Mean	4.0	3.5	3.7	3.6	3.7	5.0	6.4	7.2	5.0	3.0	2.9	2.7	4.2
No.Yrs.	7	7	6	6	6	6	7	8	8	8	8	8	

Data from Afghan weather records

JALALABAD, AFGHANISTAN

34° 26' N. 70° 27' E. Elev. 1950 ft.

All the data for Jalalabad were taken from the India Weather Review. Since considerable data were copied from this publication for comparison and checking other Afghan stations, material was readily at hand. The period of record, in most instances about 6 years, appears to furnish fairly stable averages in most cases. Moisture determinations would probably profit most by a longer record.

JALALABAD, AFGHANISTAN

34°26'N 70°27'E 1950 ft.

	Temperature			Smoothed Temp.			Extreme Temperatures			
	Mean Max.	Mean Min.	Mean	Mean Max.	Mean Min.	Mean	Max.	Date	Min	Date
Jan	59.4	36.8	48.1	60.1	36.8	48.5	75	17/1940	29	10, 11, 12/1945
Feb	63.5	41.0	52.3	62.9	41.3	52.1	82	27/1943	29	5/43 2/45
Mar	74.3	49.9	62.1	72.9	49.1	61.0	94	30/1942	30	5/1945
Apr	84.8	58.3	71.1	85.8	58.9	72.4	101	16, 17/46 18/47	45	1/1943
May	95.1	68.4	81.8	96.5	68.9	82.7	115	31/1940	50	10/1945
Jun	104.2	77.7	91.0	102.2	77.4	89.8	116	26, 29 /1946	64	1/1943
Jul	103.1	81.2	92.2	103.1	81.4	92.3	116	4/1944	71	19/1942
Aug	99.0	79.0	89.0	100.5	78.7	89.6	109	2/1946	69	28,29, 30/1945
Sep	95.3	69.1	82.2	95.1	69.4	82.3	103	3 yrs.	56	26/1942
Oct	86.6	56.7	71.7	86.6	56.5	71.6	98	1/1946	46	29, 30 /1945
Nov	76.2	45.3	60.8	75.7	44.7	60.2	89	2/1942	35	16/1946
Dec	64.7	37.1	50.9	65.4	37.6	51.5	78	18/1943	18	24/1940
No.Yrs.	6	6	6	-	-	-	6		6	
Ann.	83.9	58.4	71.2	83.9	58.4	71.2	116		18	

JALALABAD, AFGHANISTAN

Temperature		Wet Bulb Temp.		Vapor Press.		Rel. Humidity		
08 hr.	17 hr.	08 hr.	17 hr.	08 hr. mb	17 hr. mb	08 hr.	17 hr.	
41.0	56.5	37.9	49.3	6.4	9.1	74	59	Jan
46.3	62.9	42.9	55.4	7.9	11.7	75	61	Feb
56.3	71.7	50.2	61.8	10.7	14.5	73	56	Mar
66.5	82.5	59.5	68.3	14.5	15.8	68	47	Apr
79.2	93.7	68.5	78.4	19.4	27.0	60	52	May
87.2	102.8	78.0	85.0	28.7	34.3	65	51	Jun
88.3	101.4	79.4	84.1	30.7	32.8	70	51	Jul
84.7	97.6	78.4	81.4	29.9	29.6	71	50	Aug
75.3	92.6	68.9	79.6	21.3	29.2	73	57	Sept
62.3	84.4	55.2	69.1	12.8	17.8	67	47	Oct
48.9	73.6	44.0	60.2	7.8	12.2	67	44	Nov
40.9	61.6	37.8	53.4	6.4	10.5	74	57	Dec
Yrs. 6	5	6	5	6	5	6	5	
Annual								
64.7	81.8	58.4	68.8	16.4	20.4	70	53	

JALALABAD, AFGHANISTAN

	Cloud Amount Tenths 08hr	Cloud Amount Tenths 17hr	Precip. in.	Days with 0.1in.	Greatest in 24 hrs. in.	Greatest in 24 hrs. Date	Wind Speed mi/hr
Jan	5.3	5.7	1.19	3	1.14	10/1945	3.4
Feb	5.5	6.1	1.62	3	1.96	29/1940	3.7
Mar	5.3	6.3	1.15	3	1.15	29/1947	3.5
Apr	4.2	5.4	1.43	3	1.81	25/1945	3.4
May	2.8	4.7	0.40	1	0.40	12/1943	4.1
Jun	1.0	2.3	0.06	*	0.26	14/1942	5.0
Jul	2.7	2.7	0.08	*	0.24	20/1943	5.3
Aug	3.1	2.7	0.23	1	0.53	3/1944	5.0
Sep	1.7	2.3	0.06	*	0.12	17/1943	3.3
Oct	1.2	2.4	0.10	*	0.33	9/1946	2.7
Nov	3.5	3.6	0.08	*	0.16	28/1946	2.7
Dec	4.4	4.7	0.15	1	0.29	15/1942	2.7
Yrs.	6	5	6	6	6	-	6
Ann.	3.4	4.1	6.55	15	1.96	1940	3.7

*Less than 0.5

Data from India Weather Record

JALALABAD, AFGHANISTAN

Mean Monthly Maximum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1940	62.8	64.9	70.5	79.9	96.2	-	-	-	-	87.1	-	65.1	
1941	60.9	-	-	-	-	-	-	-	-	-	-	-	
1942	-	57.1	78.3	87.7	96.5	102.8	102.3	98.8	94.6	86.9	78.5	64.3	
1943	57.0	65.8	74.8	80.9	90.8	102.8	102.0	100.9	95.8	86.8	77.0	68.0	
1944	59.4	61.6	73.3	81.6	96.0	103.9	103.7	96.5	93.6	86.2	75.0	64.6	
1945	54.7	64.2	72.2	81.5	93.9	104.4	102.6	99.5	95.7	83.6	75.4	64.8	
1946	61.0	67.1	73.5	92.3	95.8	106.2	104.3	99.4	96.9	88.9	75.3	61.2	
1947	60.3	-	77.3	89.9	96.4	105.0	103.9	-	-	-	-	-	
Yrs.	7	6	7	7	7	6	6	5	5	6	5	6	
Means	59.4	63.5	74.3	84.8	95.1	104.2	103.1	99.0	95.3	86.6	76.2	64.7	83.9

Mean Monthly Minimum Temperature °F

1940	36.6	40.9	46.4	55.9	68.6	-	-	-	-	57.6	-	35.1	
1941	36.4	-	-	-	-	-	-	-	-	-	-	-	
1942	-	40.7	53.9	59.0	67.6	76.5	80.5	79.5	69.8	55.9	49.6	38.2	
1943	37.7	42.3	51.1	55.8	66.0	76.2	80.3	79.1	69.6	55.5	44.4	41.1	
1944	36.2	39.8	49.5	58.0	69.5	77.2	83.1	78.2	65.7	54.0	44.7	37.9	
1945	36.8	37.2	49.5	56.7	64.0	77.9	80.5	78.1	71.2	56.3	45.2	35.5	
1946	37.5	44.8	48.4	63.2	73.9	79.6	81.6	80.3	69.1	61.1	42.6	34.9	
1947	36.3	-	50.7	59.6	69.4	78.8	81.1	-	-	-	-	-	
Yrs.	7	6	7	7	7	6	6	5	5	6	5	6	
Means	36.8	41.0	49.9	58.3	68.4	77.7	81.2	79.0	69.1	56.7	45.3	37.1	58.4

Data from India Weather Review

JALALABAD, AFGHANISTAN

Extreme Temperature, Monthly. °F.

Highest

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1940	75	80	-	94	115	-	-	-	-	92	-	72	
1941	70	-	-	-	-	-	-	-	-	-	-	-	
1942	-	65	94	99	107	118	109	104	103	92	89	75	
1943	64	82	85	92	102	108	111	107	103	92	84	78	
1944	67	67	82	95	110	113	116	102	101	97	83	77	
1945	67	72	88	96	100	115	111	107	103	93	85	76	
1946	69	76	-	101	109	116	115	109	102	98	85	70	
1947	68	-	88	101	107	111	114	-	-	-	-	-	
No.Yrs.	7	6	5	7	7	6	6	5	5	6	5	6	6
Highest	75	82	94	101	115	116	116	109	103	98	89	78	116

Lowest

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1940	32	32	39	45	55	-	-	-	-	51	-	18	
1941	31	-	-	-	-	-	-	-	-	-	-	-	
1942	-	35	42	50	60	66	71	71	56	48	40	34	
1943	31	29	43	45	58	64	75	71	57	49	38	31	
1944	32	32	45	46	57	66	76	73	58	49	37	26	
1945	29	29	30	50	50	70	74	69	61	46	41	28	
1946	31	37	40	51	63	72	74	75	60	53	35	29	
1947	31	-	47	53	54	69	73						
No.Yrs.	7	6	7	7	7	6	6	5	5	6	5	6	6
Lowest	29	29	30	45	50	64	71	69	56	46	35	18	18

Data from India Weather Review

JALALABAD, AFGHANISTAN

Temperature °F, 08 hrs. 17 hrs.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
						08 hr.							
1940	42.0	47.5	56.0	67.3	83.1	-	-	-	-	64.9	-	39.1	
1941	41.2	-	-	-	-	-	-	-	-	-	-	-	
1942	-	45.7	62.5	71.7	82.5	88.4	90.3	87.9	79.6	66.9	55.2	42.9	
1943	41.7	48.8	57.5	63.0	74.7	88.4	88.6	85.4	76.9	60.8	49.3	43.1	
1944	41.4	43.9	54.8	64.6	78.1	85.2	89.1	82.3	71.3	57.9	46.7	42.1	
1945	40.6	43.7	55.2	63.7	76.6	86.0	87.3	83.4	75.4	59.3	47.1	39.3	
1946	40.6	48.3	52.4	69.4	81.6	87.6	88.0	84.6	73.3	64.0	46.3	38.7	
1947	39.7	-	55.8	65.7	77.6	87.7	86.7	-	-	-	-	-	
No.yrs.	7	6	7	7	7	6	6	5	5	6	5	6	6
Mean	41.0	46.3	56.3	66.5	79.2	87.2	88.3	84.7	75.3	62.3	48.9	40.9	64.7
						17 Hr.							
1942	-	-	-	85.4	92.6	100.7	100.9	97.4	92.1	85.4	76.4	61.6	
1943	55.6	64.0	72.5	79.4	88.9	102.3	99.6	98.8	92.0	82.6	73.7	64.9	
1944	56.5	60.2	71.3	79.6	94.7	103.1	101.9	95.0	91.3	83.7	72.8	61.0	
1945	52.8	62.5	69.5	79.7	91.4	103.4	100.8	98.9	93.8	84.3	72.8	61.3	
1946	58.7	65.0	71.4	90.0	100.6	104.8	102.9	97.9	93.6	85.8	72.1	59.2	
1947	58.9	-	74.1	86.7	94.0	102.4	102.0	-	-	-	-	-	
No.Yrs.	5	4	5	6	6	6	5	5	5	5	5	5	5
Means	56.5	62.9	71.7	82.5	93.7	102.8	101.4	97.6	92.6	84.4	73.6	61.6	81.8

Data from India Weather Review

JAIALABAD, AFGHANISTAN

Wet Bulb Temperature °F, 08, 17 Hrs.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
	08 hr.										08 hr		
1940	38.8	43.0	50.3	58.6	63.7	-	-	-	-	53.3	-	36.1	
1941	36.7	-	-	-	-	-	-	-	-	-	-	-	
1942	-	41.4	52.7	61.6	70.4	77.5	82.1	81.3	70.4	59.7	49.3	39.0	
1943	37.9	44.4	53.0	57.1	62.5	79.8	77.6	74.8	66.1	51.2	41.8	40.1	
1944	38.5	40.3	50.6	58.8	68.1	72.8	-	-	67.3	53.3	43.1	38.5	
1945	38.4	42.2	52.0	59.5	72.1	-	-	-	72.4	54.3	43.0	35.7	
1946	37.7	45.9	41.1	60.3	71.2	-	79.8	79.2	68.2	59.5	42.8	37.1	
1947	37.0	-	51.7	60.5	71.7	81.8	78.2	-	-	-	-	-	
No.Yrs.	7	6	7	7	7	4	4	3	5	6	5	6	6
Means	37.9	42.9	50.2	59.5	68.5	78.0	79.4	78.4	68.9	55.2	44.0	37.8	58.4
						17 hr.							
1942	-	-	-	67.5	-	84.2	85.6	85.1	76.4	70.1	61.7	51.6	
1943	46.4	58.3	63.2	63.5	68.2	89.3	79.1	75.7	72.5	63.9	58.1	56.1	
1944	49.9	50.4	58.7	64.5	74.5	73.4	-	-	79.9	71.0	61.0	52.3	
1945	49.0	-	62.8	69.2	84.8	-	-	-	88.3	67.6	58.5	51.8	
1946	50.9	57.6	59.9	70.2	81.9	-	84.8	83.5	80.8	72.9	61.6	55.4	
1947	50.5	-	64.3	74.8	82.7	92.9	86.7	-	-	-	-	-	
No.Yrs.	5	3	5	6	5	4	4	3	5	5	5	5	5
Means	49.3	55.4	61.8	68.3	78.4	85.0	84.1	81.4	79.6	69.1	60.2	53.4	68.8

Data from India Weather Review

JALALABAD, AFGHANISTAN

Vapor Pressure Mb, 08, 17 hr.

08 hr.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1940	6.7	7.5	10.0	13.1	11.7	-	-	-	-	13.7	-	5.9	
1941	5.4	-	-	-	-	-	-	-	-	-	-	-	
1942	-	6.9	9.3	14.2	21.6	27.2	33.6	33.3	21.3	14.4	9.4	6.4	
1943	6.0	8.0	11.7	13.3	14.1	30.8	28.4	24.7	17.0	8.8	5.8	7.1	
1944	6.6	7.0	10.8	14.3	19.0	21.9	-	-	20.9	11.9	8.0	6.4	
1945	7.0	8.5	11.9	15.6	24.7	-	-	-	25.7	12.2	7.7	5.7	
1946	6.5	9.5	10.0	14.7	21.8	-	31.4	31.8	21.5	15.5	8.0	6.8	
1947	6.4	-	11.4	16.2	24.2	34.7	29.5	-	-	-	-	-	
Yrs.	7	6	7	7	7	4	4	3	5	6	5	6	6
Means	6.4	7.9	10.7	14.5	19.4	28.7	30.7	29.9	21.3	12.8	7.8	6.4	16.4

17 hrs.

1942	[illegible]	-	-	15.1	-	32.6	34.8	35.4	24.1	18.3	12.5	8.7	
1943	6.9	14.1	15.6	13.1	14.6	40.7	25.7	20.2	18.7	12.3	9.9	11.5	
1944	9.5	8.2	11.5	14.2	20.3	15.2	-	-	29.6	20.3	13.1	9.7	
1945	10.1	-	16.5	19.6	37.1	-	-	-	42.8	15.7	11.0	9.3	
1946	9.6	12.9	12.9	17.1	29.5	-	33.4	33.3	30.7	22.4	14.4	13.4	
1947	9.2	-	16.1	-	33.6	48.8	37.1						
Yrs.	5	3	5	5	5	4	4	3	5	5	5	5	5
Means	9.1	11.7	14.5	15.8	27.0	34.3	32.8	29.6	29.2	17.8	12.2	10.5	20.4

Data from India Weather Review

JALALABAD, AFGHANISTAN

Relative Humidity Percent 08, 17 Hrs.

08 Hr.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1940	74	70	65	58	33	-	-	-	-	66	-	73	
1941	62	-	-	-	-	-	-	-	-	-	-	-	
1942	-	68	55	56	64	59	71	75	64	65	65	66	
1943	69	70	77	70	50	68	69	60	55	49	49	75	
1944	77	73	73	72	59	54	-	-	82	74	75	75	
1945	85	88	81	79	80	-	-	-	87	73	70	70	
1946	76	80	76	63	63	-	70	78	76	76	74	85	
1947	77	-	83	76	74	78	68	-	-	-	-	-	
Yrs.	7	6	7	7	7	4	4	3	5	6	5	6	6
Means	74	75	73	68	60	65	70	71	73	67	67	74	70

17 Hrs.

1942	-	-	-	38	-	51	55	60	48	46	42	49	
1943	45	69	59	42	35	59	43	34	38	32	36	56	
1944	62	50	46	45	38	22	-	-	61	53	49	52	
1945	79	-	68	61	76	-	-	-	80	54	41	51	
1946	57	64	49	37	47	-	49	55	58	52	54	78	
1947	54	-	57	57	62	71	55	-	-	-	-	-	
Yrs.	5	3	5	6	5	4	4	3	5	5	5	5	5
Means	59	61	56	47	52	51	51	50	57	47	44	57	53

Data From India Weather Review

JALALABAD, AFGHANISTAN

Cloud Amount Tenths of Sky, Hrs. of Obs. 08, 17 Hrs.

08 Hour.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Ann.
1940	4.5	6.1	4.9	3.2	2.2	-	-	-	-	1.7	-	4.0	
1941	5.1	-	-	-	-	-	-	-	-	-	-	-	
1942	-	6.3	4.0	4.9	2.5	2.2	2.2	3.1	1.7	1.1	3.6	4.2	
1943	5.7	4.7	5.7	5.5	4.0	1.8	4.0	1.4	1.0	1.0	0.9	6.0	
1944	4.1	5.8	6.0	5.7	3.9	0.6	2.4	5.2	2.1	1.4	3.6	3.8	
1945	6.7	4.0	6.8	4.7	3.8	0.7	3.6	2.5	3.0	1.1	6.6	3.6	
1946	7.1	7.0	6.0	2.7	0.8	0.6	2.0	3.5	0.9	1.1	2.5	4.7	
1947	3.9	4.8	3.9	2.6	2.5	0.3	2.0	-	-	-	-	-	
Yrs.	7	7	7	7	7	6	6	5	5	6	5	6	6
Means	5.3	5.5	5.3	4.2	2.8	1.0	2.7	3.1	1.7	1.2	3.5	4.4	3.4

17 Hours

1942	-	-	-	5.5	4.6	4.3	3.4	3.0	2.1	3.0	3.7	4.0	
1943	4.4	6.7	4.8	4.5	4.9	1.4	2.6	1.1	1.4	1.0	1.7	4.5	
1944	4.7	5.9	6.9	7.4	4.8	1.4	2.4	4.1	2.6	3.5	4.2	5.1	
1945	6.5	4.4	8.3	5.4	5.8	1.9	2.9	1.6	2.5	2.1	5.7	5.1	
1946	6.9	6.4	6.4	4.6	2.9	2.1	2.5	3.5	3.1	2.5	2.6	4.8	
1947	6.1	7.0	5.1	4.7	5.1	2.9	2.5	-	-	-	-	-	
Yrs.	5	5	5	6	6	6	6	5	5	5	5	5	5
Means	5.7	6.1	6.3	5.4	4.7	2.3	2.7	2.7	2.3	2.4	3.6	4.7	4.1

Data from India Weather Review

JALALABAD, AFGHANISTAN

Precipitation — Inches

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1940	1.20	2.96	1.30	1.76	0.15	-	-	- -	-	0.04	-	0.20	
1941	1.03	-	-	-	-	-	-	-	-	-	-	-	
1942	-	3.82	0.13	0.09	0.36	0.35	0	0.13	0.10	0.--	0.03	0.39	-.--
1943	0.97	0.24	1.53	2.93	0.72	0	0.31	0	0.12	0.03	0.06	0.04	
1944	0.65	1.53	0.75	2.40	0.56	0	0.01	0.82	0.05	0.17	0.09	0.10	
1945	2.62	0.07	1.27	2.58	0.65	0	0	0.04	0	0	0.01	0.14	
1946	1.34	1.66	0.73	0.21	0.08	0	0.16	0.18	0	0.33	0.19	0.05	
1947	0.49	1.06	2.35	0.05	0.30	0	0	-	-	-	-	-	
Yrs.	7	7	7	7	7	6	6	5	5	6	5	6	6
Means	1.19	1.62	1.15	1.43	0.40	0.06	0.08	0.23	0.06	0.10	0.08	0.15	6.55

Number of Days with 0.10 in. Rain or More

1940	2	4	5	7	1	-	-	-	-	0	-	1	
1941	2	-	-	-	-	-	-	-	-	-	-	-	
1942	-	6	1	0	1	1	0	0	0	0	0	2	
1943	4	1	4	4	2	0	1	0	1	0	0	0	
1944	2	4	2	6	3	0	0	3	0	1	0	0	
1945	6	0	5	4	2	0	0	0	0	0	0	0	
1946	4	4	2	1	0	0	1	1	0	1	1	0	
1947	2	2	4	0	1	0	0	-	-	-	-	-	
Yrs.	7	7	7	7	7	6	6	5	5	6	5	6	6
Means	3	3	3	3	1	*	*	1	*	*	*	1	15

* = Less than 0.5

Data from India Weather Review

JALALABAD, AFGHANISTAN

Maximum Precipitation in 24 hours, Inches

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
1940	0.70	1.96	0.41	0.32	0.14	-	-	-	-	0.02	-	0.20	
1941	0.50	-	-	-	-	-	-	-	-	-	-	-	
1942	-	1.52	0.10	0.05	0.24	0.26	0	0.09	0.06	0	0.02	0.29	
1943	0.28	0.10	0.83	1.42	0.40	0.--	0.24	0.--	0.12	0.03	0.06	0.04	
1944	0.40	0.62	0.32	0.70	0.35	0	0.01	0.53	0.05	0.10	0.06	0.04	
1945	1.14	0.07	0.47	1.81	0.34	0	0	0.04	0	0	0.01	0.09	
1946	0.50	0.65	0.34	0.14	0.08	0	0.15	0.18	0	0.33	0.16	0.05	
1947	0.30	0.53	1.15	0.05	0.29	0	0	-	-	-	-	-	
Max.	1.14	1.96	1.15	1.81	0.40	0.26	0.24	0.53	0.12	0.33	0.16	0.29	1.96
Date	10/45	29/40	29/47	25/45	12/43	14/42	20/43	3/44	17/43	9/46	28/46	15/42	1940

Wind Speed mi/hr

1940	3.0	3.6	3.3	3.2	4.5	-	-	-	-	2.9	-	30	
1941	3.7	-	-	-	-	-	-	-	-	-	-	-	
1942	-	4.3	4.2	3.2	3.9	4.0	5.5	6.0	3.7	2.9	3.0	2.8	
1943	4.3	4.8	4.2	3.6	4.1	4.8	4.0	4.3	3.1	2.3	3.2	2.8	
1944	3.1	3.1	3.0	3.1	4.4	5.9	6.4	4.6	3.2	2.9	2.5	2.1	
1945	4.0	4.3	3.5	3.4	3.4	4.7	5.2	5.2	3.5	2.8	2.2	2.9	
1946	2.4	3.0	3.4	3.5	4.8	5.6	5.4	4.9	2.9	2.6	2.5	2.9	
1947	3.0	2.5	2.8	3.6	3.4	4.9	5.0	-	-	-	-	-	
Yrs.	7	7	7	7	7	6	6	5	5	6	5	6	6
Means	3.4	3.7	3.5	3.4	4.1	5.0	5.3	5.0	3.3	2.7	2.7	2.7	3.7

Data from India Weather Record

KANDAHAR

The records of the British-Pakistan Consulate and the Morrison-Knudsen Afghanistan Co. were not combined. A comparison of the 11-month coincident record in 1951 indicated that the exposure of the Morrison-Knudsen Afghanistan Co. must have been in a more open location than that of the British-Pakistan Consulate. This comparison brought to light the inconsistency of the Consulate record, both maximum and minimum temperature, for February 1951. These values, and the mean maximum temperature for August 1947 have not been used in computing means.

The relative humidity record of the Morrison-Knudsen data appeared as if it might have been taken from a hair hygrometer which was checked rarely if at all. It was of too poor a quality to justify tabulating.

In the 27 months record of the Morrison-Knudsen Afghanistan Co. there were no days recorded with a maximum temperature freezing or lower. There was an average of 83 days a year with the maximum temperature 100°F or higher: 11.0 in May, 23.5 in June, 30.5 in July, 17.0 in August and 1.0 in September. The minimum temperature did not fall below 80°F on an average of 4 nights per year: 0.5 in June, 3.5 in July, and none in August.

KANDAHAR, AFGHANISTAN

31° 30' N 65° 40' E 3462 ft.

Morrison-Kundsen Afghanistan Co. data

	Temperature			Precipitation		Number of Days			Daily Evaporation
	Mean Max.	Mean Min.	Mean	in.	Days 0.01 in.	Max. =90°	Max. =100°	Min. =32	in.
Jan	65.6	31.4	44.0	1.23	4.7	0	0	19.0	.075
Feb	62.9	38.1	50.5	2.50	6.3	0	0	5.7	.114
Mar	72.4	46.6	59.5	1.56	7.3	0.3	0	1.0	.154
Apr	85.2	54.8	70.0	0.38	2.7	11.3	0	0	.220
May	95.8	62.4	79.1	1.06	2.5	25.0	11.0	0	.232
Jun	103.9	66.7	85.3	0	0	30.0	23.5	0	.299
Jul	105.8	71.1	88.5	T	0	31.0	30.5	0	.307
Aug	100.4	67.4	83.9	0	0	31.0	17.0	0	.295
Sep	92.5	57.5	75.0	0	0	23.5	1.0	0	.201
Oct	82.3	49.4	65.9	0.01	0.5	5.5	0	0	.209
Nov	68.9	35.7	52.3	T	0	0	0	10.5	.118
Dec	59.0	29.1	44.1	0	0	0	0	24.0	.059
No.Yrs.	2	2	2	2	2	2	2	2	2
Ann.	82.1	50.9	66.5	6.74	24.0	157.6	83.0	60.2	

Kandahar, Afghanistan

Mean Maximum Temperature. °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1951	55.9	59.2	67.6	80.7	95.1	101.3	105.5	99.6	93.3	86.2	69.0	-
52	54.9	64.2	74.2	89.2	96.5	106.5	106.0	101.1	91.6	78.3	68.8	59.0
53	59.1	65.3	75.3	85.7								
Means	56.6	62.9	72.4	85.2	95.8	103.9	105.8	100.4	92.5	82.3	68.9	59.0

Mean Minimum Temperature. °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1951	31.6	32.2	43.6	50.6	62.5	62.6	67.9	66.0	57.8	53.6	35.7	-
52	31.5	38.7	45.6	61.3	62.2	70.8	74.3	68.8	57.1	45.2	35.7	29.1
53	31.1	43.3	47.6	52.5								
Means	31.4	38.1	46.6	54.8	62.4	66.7	71.1	67.4	57.5	49.4	35.7	29.1
Mean Temp.	44.0	50.5	59.5	70.0	79.1	85.3	88.5	83.9	75.0	65.9	52.3	44.1
												Annual
												66.5

Record of Morrison-Kundsen Afghanistan Co.

Kandahar, Afghanistan

Temperature Frequencies

Number of days with maximum temperature 90°F. or higher

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1951	0	0	0	6	22	30	31	31	28	11	0	-
1952	0	0	0	17	28	30	31	31	19	0	0	0
1953	0	0	1	11	-	-	-	-	-	-	-	-
Means	0	0	0.3	11.3	25.0	30.0	31.0	31.0	23.5	5.5	0	0

Annual 157.6

Number of days with maximum temperature 100°F. or higher

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1951	0	0	0	0	12	19	30	13	0	0	0	-
1952	0	0	0	0	10	28	31	21	2	0	0	0
1953	0	0	0	0	-	-	-	-	-	-	-	-
Means	0	0	0	0	11.0	23.5	30.5	17.0	1.0	0	0	0

Annual 83.0

Number of days with minimum temperature 32°F. or lower

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1951	19	13	0	0	0	0	0	0	0	0	13	-
1952	18	4	2	0	0	0	0	0	0	0	8	24
1953	20	0	1	0	-	-	-	-	-	-	-	-
Means	19.0	5.7	1.0	0	0	0	0	0	0	0	10.5	24.0

Annual 60.2

Data from Morrison-Knudsen Co.

Kandahar, Afghanistan

Number of days with precipitation .01 in or greater

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1951	3	4	13	2	4	0	0	0	0	1	0	-
1952	8	6	5	4	1	0	0	0	0	0	0	0
1953	3	9	4	2	-	-	-	-	-	-	-	-
Means	4.7	6.3	7.3	2.7	2.5	0	0	0	0	0.5	0	0

Annual 24.0

Mean daily evaporation (mm.)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1951	-	-	3.1	5.1	6.2	7.5	7.1	6.5	5.5	4.8	3.8	-
1952	2.3	4.1	4.7	5.8	5.6	7.7	8.5	8.4	4.6	5.7	2.2	1.5
1953	1.5	1.7	4.0	5.9	-	-	-	-	-	-	-	-
Mean (mm)	1.9	2.9	3.9	5.6	5.9	7.6	7.8	7.5	5.1	5.3	3.0	1.5
Mean (In)	.075	.114	.154	.220	.232	.299	.307	.295	.201	.209	.118	.059

Data from Morrison-Knudsen Co.

KANDAHAR, AFGHANISTAN

Temperature °F.

Mean of the Daily Maximum Temperature

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1951	55.9	59.2	67.6	80.7	95.1	101.3	105.5	99.6	93.3	86.2	690		
1952	54.9	64.2	74.2	89.2	96.5	106.5	106.0	101.1	91.6	78.3	68.8	59.0	
1953	59.1	65.3	75.3	85.7									
Means	56.6	62.9	72.4	85.2	95.8	103.9	105.8	100.4	92.5	82.3	68.9	59.0	

Mean Daily Minimum Temperature

1951	31.6	32.2	43.6	50.6	62.5	62.6	67.9	66.0	57.8	53.6	35.7		
1952	31.5	38.7	45.6	61.3	62.2	70.8	74.3	68.8	57.1	45.2	35.7	29.1	
1953	31.1	43.3	47.6	52.5									
Means	31.4	38.1	46.6	54.8	62.4	66.7	71.1	67.4	57.5	49.4	35.7	29.1	

Morrison-Knudsen record

Precipitation

1939	3.47	3.88	2.78	1.35	.05	0	0	0	0	0	0	.47	12.00
1940	4.90	1.03	.52	.07	0	0	0	0	0	.03	0	1.62	8.17
1941	2.10	.28	.12	1.21	0	0	0	0	0	0	0	.54	4.25
1942	2.52	4.24	1.24	.18	.18	.06	.50	0	00	.03	.29	.88	10.12
1943	5.28	.34	2.13	.87	.20	0	0	0	0	0	0	.53	9.35
1944	2.64	3.79	.26	.03	.10	0	.46	.01	0	0	.14	.71	8.14
1945	1.77	.32	.06	.55	.16	0	0	0	0	0	0	.79	3.65
1946	4.23	1.39	.76	0	.02	0	0	0	0	.02	0	1.03	7.45
1947	1.71	1.92	1.24	0	.56	0	0	0	0	0	.12	1.35	6.90
1948	.40	.96	1.31	.52	0	0	0	0	0	0	0	.25	3.44
1949	.20	1.06	3.91	.38	0	0	0	.03	0	0	.17	0.33	6.08
1950	4.14	1.79	1.98	.54	.30	0	0	0	0	0	.03	0	8.78
1951	.62	2.68	2.90	.58	3.10	0	0	0	0	0	0	.59	10.47
Mean	2.61	1.82	1.48	.48	.36	T	.07	T	0	.01	.06	.70	7.59

India-Pakistan Consulate record

1951	.96	2.62	3.19	.41	2.07	0	0	0	0	.02	0	--	--
1952	1.91	1.41	1.22	.37	.04	0	T	0	0	T	T	0	4.95
1953	.83	3.46	.28	.35	-	-	-	-	-	-	-	-	-
Mean	1.23	2.50	1.56	.38	1.06	0	T	0	0	.01	T	0	6.74

Morrison-Knudsen Record

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Mean Temperature °F 1951

1951	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	45	-	53	56	71	79	84	87	74	70	62	
2	46	-	54	58	71	78	83	88	77	71	61	
3	45	34	53	55	72	80	79	91	79	75	58	
4	-	41	62	55	74	83	82	89	79	76	60	
5	-	42	57	55	75	83	82	91	78	75	58	
6	43	42	55	57	70	87	83	91	75	75	60	
7	41	42	60	52	68	85	85	91	73	76	57	
8	47	45	58	56	66	83	86	91	73	77	58	
9	50	-	54	60	71	82	89	93	74	74	58	
10	51	34	46	65	74	80	90	92	71	74	60	
11	-	37	50	67	78	80	90	89	74	75	58	
12	-	38	53	69	77	79	89	84	73	76	50	
13	39	43	55	69	73	79	88	83	77	72	51	
14	43	41	62	65	71	78	88	83	77	72	48	
15	40	41	59	64	74	79	95	82	75	70	50	
16	38	45	56	69	76	78	90	80	79	68	50	
17	42	52	52	64	79	83	87	79	80	64	52	
18	-	53	52	65	82	78	83	78	78	67	50	
19	-	48	51	70	81	81	83	76	78	67	49	
20	40	54	52	69	86	82	83	83	77	68	49	
21	40	57	56	67	84	83	84	82	74	66	47	
22	44	55	59	75	88	82	86	80	75	71	50	
23	45	52	60	73	88	83	88	79	79	68	51	
24	49	51	54	71	87	80	91	79	78	69	49	
25	-	49	58	72	86	81	90	78	76	70	48	
26	-	52	54	72	88	81	91	76	76	68	45	
27	48	56	57	74	89	85	89	74	75	66	46	
28	40	57	59	75	89	89	88	75	76	62	50	
29	44	-	-	77	88	91	87	75	74	62	48	
30	45	-	-	73	85	83	89	74	69	61	46	
31	38	-	-	-	80	-	87	74	-			
Days ~~Sums~~	23	25	28	30	31	30	31	31	30	30	30	
Means	43.6	46.4	55.4	65.6	78.7	81.8	86.7	82.8	75.8	70.2	52.6	

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Mean Temperature °F 1952

1952	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	33	50	52	65	79	87	86	88	81	69	55	50
2	30	48	54	67	79	88	87	91	83	71	56	48
3	40	50	60	70	79	85	90	91	82	68	56	48
4	45	46	64	65	74	82	90	87	81	70	56	51
5	37	50	60	65	78	80	91	88	81	73	58	50
6	41	50	57	69	79	80	93	87	78	71	58	47
7	40	51	49	71	77	79	92	87	75	70	58	46
8	37	51	50	72	80	85	90	86	79	69	58	41
9	39	52	53	72	78	82	88	85	73	68	55	42
10	43	53	56	72	78	88	92	86	74	65	54	44
11	43	59	61	78	83	87	93	84	72	62	50	49
12	45	60	66	79	77	89	93	84	71	65	50	47
13	45	60	59	81	69	92	92	84	70	63	54	44
14	37	55	55	83	70	93	90	87	72	61	56	45
15	36	44	53	82	72	90	88	87	72	61	60	44
16	37	41	52	79	73	91	87	90	77	61	53	53
17	43	43	57	79	73	94	90	85	76	61	52	44
18	48	44	61	72	78	94	89	85	76	61	49	37
19	46	44	66	70	81	94	94	86	74	59	47	35
20	50	46	69	72	81	95	94	85	71	57	49	34
21	47	50	62	72	84	94	94	84	73	55	51	37
22	45	51	58	76	-	96	92	83	72	51	55	42
23	47	54	63	81	82	93	92	83	72	55	51	37
24	49	59	67	82	83	90	92	82	71	54	49	39
25	49	55	70	81	85	92	90	82	71	55	47	43
26	48	57	68	79	86	90	89	84	69	56	47	42
27	49	61	66	76	82	90	88	81	72	60	47	42
28	50	58	61	76	82	89	89	81	71	58	48	43
29	49	53	61	75	85	88	89	80	73	57	46	51
30	52	-	65	75	87	86	87	82	70	58	49	52
31	51	-	64		87	-	88	82	-	58	-	47
Days ~~Sums~~	31	29	31	30	30	30	31	31	30	31	30	31
Means	43.6	51.6	60.0	74.5	79.4	88.8	90.3	85.1	74.4	62.0	52.5	44.3

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Mean Temperature °F. 1953

1953	Jan	Feb	Mar	Apr
1	42	50	65	62
2	38	53	63	66
3	38	55	69	69
4	38	49	66	72
5	39	43	73	73
6	40	52	71	74
7	45	58	61	73
8	47	56	59	76
9	49	51	66	72
10	49	45	55	72
11	54	47	50	66
12	56	47	55	63
13	48	55	59	61
14	45	52	72	63
15	44	46	61	66
16	45	48	58	68
17	42	50	60	66
18	45	40	62	61
19	39	39	59	61
20	39	39	60	61
21	43	54	72	64
22	44	52	70	70
23	47	49	67	73
24	53	48	69	75
25	59	67	67	79
26	54	64	57	78
27	47	66	48	79
28	41	67	57	84
29	40		48	81
30	44		55	75
31	50		44	
~~Sums~~ Days	31	28	31	30
Means	45.3	51.5	61.2	70.1

KANDAHAR AFGHANISTAN, MORRISON KNUDSEN, INC.

Maximum Temperature °F 1951

1951	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	61	-	68	68	85	97	100	105	94	87	77	
2	62	43	70	68	84	100	100	107	96	89	77	
3	60	53	70	65	90	103	99	111	97	92	72	
4	-	59	73	70	92	103	102	108	97	93	73	
5	59	57	67	64	87	103	103	108	95	93	73	
6	53	45	65	69	85	103	102	109	90	94	77	
7	49	45	71	66	80	103	108	109	91	91	73	
8	57	52	64	72	80	102	110	108	92	92	75	
9	59	53	64	78	86	99	113	107	90	91	75	
10	56	55	58	83	91	94	112	108	88	91	79	
11	-	50	63	84	94	96	108	102	90	93	70	
12	52	50	69	83	89	99	110	97	92	93	66	
13	50	54	72	86	84	97	108	98	95	89	68	
14	55	53	79	77	90	99	107	100	96	92	66	
15	50	54	65	80	93	99	107	99	93	87	68	
16	50	61	67	85	96	97	109	96	95	85	68	
17	54	67	62	77	99	99	106	97	96	78	72	
18	-	63	61	80	103	97	101	94	93	84	68	
19	51	62	66	82	101	102	101	95	95	83	66	
20	54	69	67	83	103	104	100	100	95	85	66	
21	54	73	72	86	105	104	102	96	94	84	63	
22	59	70	69	90	107	103	104	96	95	84	68	
23	60	67	71	87	102	102	108	95	95	82	68	
24	63	65	61	89	104	101	109	95	93	84	64	
25	-	66	69	90	105	102	108	93	94	82	62	
26	67	70	66	90	106	103	108	93	95	78	60	
27	59	74	69	93	106	108	107	91	93	77	63	
28	55	69	74	94	106	111	104	93	94	77	64	
29	59		-	94	105	110	103	92	90	78	64	
30	58		-	89	95	100	107	93	86	77	64	
31	44		-		96		103	94		-		
~~Sums~~ Days	27	27	28	30	31	30	31	31	30	30	30	
Means	55.9	59.2	67.6	80.7	95.1	101.3	105.5	99.6	93.3	86.2	69.0	

KANDAHAR AFGHANISTAN, MORRISON KNUDSEN, INC.

Maximum Temperature °F 1952

1952	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	45	63	66	80	97	106	103	106	100	87	72	66
2	39	59	70	84	96	106	104	108	100	89	74	65
3	60	57	76	80	90	103	106	108	98	86	74	66
4	66	57	74	75	88	100	108	102	98	81	72	70
5	50	63	72	78	94	96	108	102	98	81	74	67
6	50	63	70	80	96	100	110	102	98	86	74	62
7	46	64	65	84	96	99	110	103	90	85	75	60
8	45	65	67	88	97	102	106	102	98	86	74	58
9	50	66	68	88	96	102	104	102	90	85	70	61
10	55	68	72	89	94	105	110	102	89	84	68	63
11	55	74	77	90	100	103	112	100	90	79	65	70
12	59	64	80	94	96	106	108	100	88	80	65	64
13	49	70	65	94	85	112	108	100	87	79	72	58
14	46	60	68	94	84	112	104	103	90	77	75	60
15	46	58	64	97	90	110	100	104	90	78	74	58
16	48	52	66	95	92	108	102	106	93	77	65	60
17	54	54	74	94	92	112	107	100	95	78	66	52
18	66	56	78	94	96	112	108	100	95	76	65	48
19	62	56	82	88	98	112	108	101	90	73	64	50
20	57	60	82	88	100	114	108	101	85	73	65	50
21	57	66	82	90	102	112	106	100	87	71	68	52
22	57	66	74	94	-	110	104	98	88	68	75	55
23	61	72	80	96	102	108	104	100	91	73	68	53
24	64	74	84	97	103	108	104	98	90	72	64	52
25	64	70	86	96	106	106	106	98	90	71	62	58
26	63	72	74	92	104	107	104	101	89	74	65	58
27	54	76	78	88	98	108	104	96	88	76	68	60
28	57	68	76	90	98	107	104	96	88	76	66	62
29	54	68	76	90	100	106	106	96	89	75	60	58
30	61	-	78	90	101	102	105	98	87	76	66	57
31	63	-	76	-	105	-	105	100		76		55
~~Sums~~ Days	31	29	31	30	30	30	31	31	30	31	30	31
Means	54.9	64.2	74.2	89.2	96.5	106.5	106.0	101.1	91.6	78.3	68.8	59.0

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Maximum Temperature °F 1953

1953	Jan	Feb	Mar	Apr
1	55	66	79	79
2	54	60	80	82
3	55	62	89	84
4	54	61	78	90
5	59	62	85	90
6	62	67	80	89
7	67	68	75	87
8	68	62	76	87
9	70	57	84	86
10	65	48	66	84
11	66	54	64	72
12	66	48	70	73
13	53	64	79	72
14	53	56	82	78
15	55	56	71	82
16	60	59	69	85
17	55	60	76	82
18	52	64	74	76
19	50	66	74	75
20	51	72	76	80
21	55	69	90	83
22	57	66	77	92
23	58	76	75	93
24	64	76	81	94
25	69	85	78	99
26	65	78	62	96
27	62	83	63	97
28	55	84	65	98
29	55	-	63	95
30	59	-	74	92
31	64	-	80	-
~~Sums~~ Days	31	28	31	30
Means	59.1	65.3	75.3	85.7

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Minimum Temperature °F 1951

1951	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	28	21	39	45	57	62	67	68	53	52	46	
2	29	-	37	48	57	58	66	68	57	52	44	
3	29	15	37	44	55	58	59	70	60	58	44	
4	31	23	51	40	56	63	62	71	61	59	46	
5	-	28	48	46	62	63	61	74	61	56	43	
6	33	39	45	44	56	72	63	73	60	56	42	
7	33	39	49	39	57	66	62	74	55	61	40	
8	38	39	51	41	51	64	62	74	53	61	40	
9	41	-	45	43	56	66	66	78	57	57	40	
10	46	12	34	47	57	65	68	77	54	57	40	
11	30	23	37	51	62	63	71	76	57	56	45	
12	-	27	37	55	65	60	68	70	54	58	34	
13	28	31	39	52	63	61	68	68	59	55	33	
14	30	29	45	54	54	57	69	67	58	51	30	
15	29	29	54	47	55	59	82	66	57	53	32	
16	26	28	45	53	56	59	71	64	63	50	32	
17	29	37	42	51	59	68	68	62	63	49	32	
18	31	43	43	50	62	59	65	61	63	49	31	
19	-	35	37	57	61	60	64	58	61	50	31	
20	27	39	37	56	70	60	66	66	58	50	31	
21	26	41	41	47	64	62	66	68	54	48	30	
22	29	39	49	61	68	61	68	64	54	57	31	
23	31	37	49	59	74	64	67	63	62	53	34	
24	36	37	47	54	70	60	73	62	62	53	34	
25	39	32	47	55	68	61	72	63	57	57	33	
26	-	33	42	55	70	59	74	59	57	57	30	
27	37	38	46	52	73	62	71	58	57	55	28	
28	25	44	44	56	72	67	72	57	57	46	36	
29	29	32	49	59	71	72	72	58	57	46	31	
30	31	-		57	74	67	70	54	52	45	28	
31	32	-			64		71	54				
~~Sums~~ Days	27	27	29	30	31	30	31	31	30	30	30	
Means	31.6	32.2	43.6	50.6	62.5	62.6	67.9	66.0	57.8	53.6	35.7	

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Minimum Temperature °F 1952

1952	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	20	36	38	50	60	68	68	70	62	51	38	33
2	20	36	38	50	61	70	70	74	65	52	37	31
3	20	42	44	60	68	66	74	74	66	50	38	30
4	23	35	54	54	60	63	72	72	64	58	40	32
5	23	37	48	52	62	63	74	73	64	64	41	33
6	32	37	44	56	62	60	76	72	58	56	42	32
7	33	37	32	54	58	60	74	70	60	54	40	32
8	29	37	32	53	62	68	73	70	60	52	42	23
9	28	37	38	56	60	62	72	68	56	50	40	22
10	30	37	40	54	62	71	74	70	58	46	39	25
11	31	43	45	54	66	70	74	68	54	45	35	28
12	31	56	52	61	58	71	77	68	54	49	35	30
13	40	50	52	64	52	72	76	68	52	46	35	29
14	27	50	42	67	55	73	76	70	54	45	37	29
15	26	30	42	69	54	70	76	70	64	43	46	30
16	25	30	38	68	54	74	72	74	58	44	40	45
17	27	32	40	64	54	76	72	70	57	43	37	35
18	30	32	44	64	60	76	70	70	57	46	33	25
19	30	32	50	56	63	76	80	70	57	45	30	19
20	42	32	56	52	62	76	81	68	57	40	32	18
21	36	34	42	54	66	76	81	68	59	39	33	21
22	33	36	42	58	-	82	80	68	56	34	34	28
23	32	36	46	66	62	78	80	66	53	36	33	21
24	34	44	49	66	63	72	80	65	51	36	34	25
25	33	40	54	66	64	78	74	65	51	38	32	27
26	33	42	62	65	68	72	73	66	49	38	28	25
27	43	46	54	64	66	72	72	66	56	43	26	24
28	43	48	46	62	66	70	74	65	54	40	29	24
29	43	38	46	60	70	70	72	64	56	39	32	44
30	42	-	52	59	73	70	68	66	52	40	32	44
31	39		52		68		70	64	-	40	-	38
~~Sums~~ Days	31	29	31	29	30	30	31	31	30	31	30	31
Means	31.5	38.7	45.6	61.3	62.0	70.8	74.3	68.8	57.1	45.2	35.7	29.1

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Minimum Temperature °F 1953

1953	Jan	Feb	Mar	Apr
1	29	34	51	45
2	22	46	46	50
3	21	48	49	53
4	22	36	54	53
5	19	33	60	56
6	18	37	61	58
7	23	48	47	59
8	26	49	42	65
9	27	44	47	58
10	33	42	44	60
11	42	40	36	60
12	45	45	39	53
13	43	46	39	50
14	36	47	59	48
15	32	36	51	50
16	29	37	47	51
17	28	39	43	50
18	38	37	50	46
19	28	38	44	46
20	26	38	44	42
21	31	53	54	44
22	30	52	63	48
23	35	46	58	53
24	42	45	56	55
25	49	48	55	59
26	43	49	51	59
27	32	49	32	61
28	27	49	48	69
29	25	-	33	66
30	28	-	36	57
31	35	-	37	
~~Means~~ Days	31	28	31	30
Means	31.1	43.3	47.6	52.5

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Precipitation (mm) 1951

1951	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				8.5								
3		3.0										
4			0.5		11.5							
5	12.5		5.5		21.5							
6		3.5			12.0							
7		39.5	2.0		7.5							
8	T	20.5										
9	11.5		3.5									
10	0.5											
12					T							
15			15.5									
16			T									
17			11.0									
22			3.5									
23			4.0	2.0								
24			13.5									
25			1.0									
26										0.5		
28			9.5									
29			4.0									
31			7.5									
Sums	24.5	66.5	81.0	10.5	52.5	0	0	0	0	0.5	0	0*
(in.)	.96	2.62	3.19	.41	2.07					.02		

Annual 9.27

*No record 12/9 thru 12/16

Precipitation 1953 (mm)

1953	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3		5.0										
4		5.0	0.5									
5			0.5									
7		7.0										
8		2.5										
9		12.5										
10		26.5										
11		T		2.0								
12		8.0		7.0								
13	18.5	12.5										
14	1.5	9.0										
18	1.0											
22			0.5									
24			5.5									
Sums	21.0	88.0	7.0	9.0								
(in)	.83	3.46	.28	.35								

KANDAHAR, AFGHANISTAN, MORRISON-KNUDSEN INC.

Precipitation 1952 (mm)

1952	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1					1.0							
2		2.5										
3		0.5	2.0									
4	1.5		T	5.0								
5	6.0			3.0						T		
6	11.5											
9					T							
12	7.0	4.0	19.0									
13		15.5	1.0		T							
14		12.3										
16				0.5								
19	8.0											
20			3.0				T					
21							T					
25			T									
26	1.0		6.0	1.0								
28	9.1	1.0										
29	4.5										T	
Sums	48.6	35.8	31.0	9.5	1.0	0	T	0	0	T	T	0
(in)	1.91	1.41	1.22	.37	.04	0	T	0	0	T	T	0

Annual 4.95

KANDAHAR, AFGHANISTAN

	Temperature				Relative Humidity		Vapor Pres. m/b		Cloudiness Tenths		Wind Speed
	Dry Bulb		Wet Bulb								
	8hrs.	17hr.	8hr.	17hr.	8hr.	17hr.	8hr.	17hr.	8hr.	17hr.	Mi/hr
Jan	36.1	52.0	33.7	43.2	79	51	5.8	6.3	4.5	5.4	3.4
Feb	41.1	60.6	37.3	48.4	72	38	6.0	6.7	4.0	4.0	3.5
Mar	49.4	70.2	43.9	53.7	66	31	7.6	7.1	3.6	4.8	3.1
Apr	60.0	81.3	50.8	60.9	60	29	9.5	9.7	2.9	3.9	2.5
May	69.4	90.1	57.9	66.2	50	28	11.8	12.5	1.6	2.5	2.8
Jun	75.5	95.8	60.9	68.6	44	23	12.4	12.5	0.5	0.7	2.7
Jul	77.9	98.9	63.7	72.8	48	28	14.8	17.9	0.8	1.1	2.2
Aug	74.4	97.3	60.3	69.8	44	23	12.2	13.7	0.7	0.8	2.1
Sep	63.5	91.1	51.7	64.9	46	21	8.5	10.6	0.1	0.3	2.1
Oct	53.4	82.3	45.1	60.1	56	24	7.1	8.7	0.6	1.0	1.8
Nov	42.9	67.8	37.2	52.1	65	30	5.4	7.2	1.6	2.6	1.5
Dec	35.9	55.1	33.1	45.2	77	43	5.3	6.3	3.8	4.5	1.7
No.Yrs.	8	5	7	5	9	5	8	5	8	5	8
Ann.	56.6	78.5	48.0	58.8	59	31	8.9	9.9	2.1	2.6	2.5

Data from India Weather Review

KANDAHAR, AFGHANISTAN

31° 30'N 65° 40'E. 3462 Ft.

India Data

	Temperature			Smoothed Temp.			Extreme Temperature				Precipitation			
	Mean Max.	Mean Min.	Mean	Mean Max.	Mean Min.	Mean	Max.	Date	Min	Date	In.	Days 0.1 in	Max. in 24hrs	Date
Jan	56.9	30.7	43.8	56.8	30.8	43.8	72	24/51	13	3/49	2.61	4.3	3.00	30/40
Feb	60.8	34.9	47.9	60.7	35.4	48.1	80	27/40	14	2/51*	1.82	4.1	2.19	27/44
Mar	71.2	41.9	56.6	70.7	42.5	56.6	89	27/49	21	3/45	1.48	3.8	0.87	20/43
Apr	81.8	49.9	65.9	82.4	49.3	65.9	98	28/49	33	2/40	0.48	1.3	0.81	5/43
May	92.0	57.4	74.7	91.9	56.9	74.4	107	31/40	39	6/40	0.36	0.5	0.50	9/47
Jun	97.9	61.6	79.8	98.0	62.3	80.2	111	27/40	49	8/45	T	0	0.05	5/42
Jul	101.4	66.0	83.7	100.6	65.2	82.9	108	27/47	52	3/51	0.07	0.2	0.50	8/42
Aug	99.1	62.9	81.0	99.7	61.8	80.8	112	14/47*	46	30/51	T	0	0.01	2/44
Sep	94.0	51.6	72.8	94.5	53.9	74.2	105	6/47*	39	28/45*	0	0	0	*-
Oct	85.3	43.3	64.3	84.6	42.7	63.7	100	6/46	25	27/49	0.01	0	0.03	28/40
Nov	72.4	33.8	53.1	72.1	33.9	53.0	89	8/41	16	30/46	0.06	0.3	0.15	24/42
Dec	60.7	30.5	45.6	61.6	29.3	45.5	77	23/51	10	12/50	0.70	2.2	1.35	6/40
NO.Yrs.	12	12	12	-	-	-	12	-	12		13	13	8	30 Jan
Ann.	81.1	47.0	64.1	81.1	47.0	64.1	112	Aug47	10	Dec50	7.59	16.7	3.00	1940

* Also other dates

KANDAHAR, AFGHANISTAN

Temperature, °F, 08, 17 Hrs.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
						08 Hr.							
1940	41.5	43.9	50.7	64.9	76.8	85.2	87.6	78.3	72.1	63.9	49.7	39.0	
1941	36.6	46.5	57.2	67.5	78.4	84.4	86.2	82.9	71.7	65.5	49.7	42.2	
1942	38.5	41.6	55.6	67.0	77.4	82.2	86.3	79.3	71.7	62.5	53.3	36.4	
1943	32.3	40.1	45.8	57.1	66.5	71.8	74.5	69.2	57.5	44.1	36.3	39.4	
1944	36.5	38.3	48.3	56.6	67.3	72.1	76.0	73.4	57.3	45.0	39.3	33.7	
1945	32.9	35.9	46.1	58.9	64.7	69.7	73.2	68.1	57.8	43.4	39.0	32.4	
1946	34.3	41.4	44.1	54.7	59.1	71.1	69.0	69.7	56.4	49.6	33.2	28.5	
1947	36.5	-	47.2	53.6	64.8	67.2	70.7	-	-	-	-	-	
Mean	36.1	41.1	49.4	60.0	69.4	75.5	77.9	74.4	63.5	53.4	42.9	35.9	56.6
						17 Hr.							
1942	-	-	-	-	91.9	95.2	98.6	94.9	89.7	81.0	73.2	53.7	
1943	47.2	60.2	68.0	78.1	86.1	94.2	98.5	96.2	89.5	79.2	68.6	63.4	
1944	53.7	58.9	70.5	81.7	88.6	95.9	97.2	96.4	89.1	80.7	68.5	50.0	
1945	49.9	59.8	71.5	78.1	88.0	97.7	98.8	99.3	92.8	83.2	71.5	55.3	
1946	53.1	63.3	70.1	86.3	93.4	96.8	99.6	99.9	94.3	87.3	57.2	53.1	
1947	56.1	-	70.9	82.1	92.5	95.1	100.8	-	-	-	-	-	
Means	52.0	60.6	70.2	81.3	90.1	95.8	98.9	97.3	91.1	82.3	67.8	55.1	78.5

India Weather Review

KANDAHAR AFGHANISTAN

Wet Bulb Temperature °F. 08, 17 Hrs.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
						08 Hr.							
1940	37.5	39.4	42.7	52.1	60.0	63.4	65.2	60.1	54.7	51.4	41.4	34.5	
1941	33.3	40.0	48.0	57.0	60.1	64.1	65.1	62.3	54.7	51.3	40.1	37.8	
1942	35.8	38.9	47.6	[illegible]	61.4	63.1	65.8	61.3	54.6	50.9	44.5	32.7	
1943	30.5	35.3	41.3	50.0	56.9	58.6	63.2	60.4	50.3	39.5	33.6	37.7	
1944	34.4	35.7	44.5	50.2	59.1	60.6	67.1	63.3	50.2	40.5	36.6	32.3	
1945	31.1	33.1	41.6	49.1	55.2	59.3	63.8	57.2	50.2	38.8	36.2	30.2	
1946	32.6	38.5	40.5	48.9	54.9	60.4	60.0	57.6	47.3	44.4	27.8	26.6	
1947	34.7	-	44.7	48.2	55.8	57.7	59.6	-	-	-	-	-	
Means	33.7	37.3	43.9	50.8	57.9	60.9	63.7	60.3	51.7	45.1	37.2	33.1	48.0
						17 Hrs							
1942	-	-	-	-	67.1	67.9	72.9	68.9	65.6	59.3	56.2	43.6	
1943	40.9	47.0	52.4	57.5	64.4	66.8	73.9	70.8	64.8	56.6	51.3	51.7	
1944	45.1	46.9	54.4	59.2	67.0	68.1	77.1	70.5	66.5	60.2	54.3	42.7	
1945	42.0	47.5	53.8	60.5	64.9	69.2	72.6	70.8	64.2	59.8	55.0	45.6	
1946	44.5	52.3	52.4	65.0	67.2	69.7	70.1	68.2	63.6	64.4	43.5	42.6	
1947	43.6	-	55.6	62.4	66.7	70.0	70.0	-	-	-	-	-	
Means	43.2	48.4	53.7	60.9	66.2	68.6	72.8	69.8	64.9	60.1	52.1	45.2	58.8

U India Weather Review

KANDAHAR, AFGHANISTAN

Relative Humidity % 08, 17 Hrs.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
						08 Hr							
1940	69	68	50	41	36	27	28	32	30	39	47	64	
1941	73	57	50	54	32	31	30	26	31	35	42	66	
1942	74	79	55	50	39	33	39	34	30	40	47	68	
1943	80	60	67	62	54	45	53	59	60	65	76	82	
1944	81	79	74	64	61	50	63	55	60	66	79	86	
1945	83	78	68	62	54	54	59	50	57	65	76	75	
1946	87	76	75	67	62	54	58	46	48	65	73	79	
1947	83	82	84	67	56	56	51	36	38	52	73	87	
1948	81	-	73	69	54	42	54	54	59	74	75	83	
Means	79	72	66	60	50	44	48	44	46	56	65	77	59
						17 Hrs.							
1942	-	-	-	29	25	22	28	25	21	26	32	41	
1943	57	34	32	26	30	23	31	26	24	20	26	44	
1944	50	39	33	24	31	22	41	25	28	27	37	54	
1945	52	38	28	32	25	21	27	23	17	21	32	40	
1946	51	39	27	30	24	20	19	16	14	26	23	36	
1947	46	-	37	30	31	27	19	-	-	-	-	-	
Means	51	38	31	29	28	23	28	23	21	24	30	43	31

India Weather Record

KANDAHAR, AFGHANISTAN

Vapor Pressure m/b 08, 17 hrs

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	ANNUAL
						08 Hr.							
1940	5.9	6.2	6.3	8.1	10.8	10.8	12.0	10.5	7.7	8.0	5.3	4.9	
1941	5.0	5.7	7.8	11.6	10.3	12.2	12.7	10.9	7.9	7.3	4.7	5.8	
1942	6.1	7.0	8.0	10.9	12.1	12.0	16.4	11.3	7.8	7.3	6.2	4.9	
1943	5.0	4.9	7.0	9.5	12.0	11.6	15.1	14.2	9.6	6.5	5.5	7.0	
1944	5.9	6.0	8.4	9.8	13.8	13.4	18.9	15.8	9.6	6.8	6.4	5.6	
1945	5.1	5.2	7.0	7.4	11.0	13.0	16.3	11.6	9.3	6.1	6.2	4.8	
1946	5.6	6.7	7.1	9.5	13.0	13.6	14.0	11.3	7.5	7.8	3.2	4.3	
1947	6.0	-	9.0	9.3	11.6	12.3	12.9	-	-	-	-	-	
Means	5.8	6.0	7.6	9.5	11.8	12.4	14.8	12.2	8.5	7.1	5.4	5.3	8.9
						17 Hr.							
1942	-	-	-	-	12.6	12.2	17.2	13.6	11.9	8.6	8.6	5.5	
1943	6.0	5.5	7.3	8.0	12.0	11.4	18.6	15.2	11.1	6.7	5.5	8.2	
1944	6.8	5.9	8.1	8.2	13.9	12.2	23.5	14.9	13.1	9.6	8.8	6.2	
1945	5.9	6.3	6.7	10.1	11.9	12.9	16.8	14.2	9.0	7.5	8.1	6.5	
1946	6.6	8.9	6.3	12.5	12.1	13.8	13.2	10.7	7.7	11.3	4.8	5.1	
Means	6.3	6.7	7.1	9.7	12.5	12.5	17.9	13.7	10.6	8.7	7.2	6.3	9.9

India Weather Review

KANDAHAR, AFGHANISTAN

Cloud Amount 10ths 08, 17 hrs

?	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
)	3.9	3.7	2.3	1.9	1.3	0.2	0.1	0.5	0.1	0.9	0.3	2.7	
L	2.6	2.3	3.1	3.9	0.7	1.0	0	0	0	0.4	0.7	3.1	
2	5.1	5.1	2.7	2.9	1.3	0.9	1.5	0.6	0.1	1.5	2.5	4.1	
3	4.2	4.9	4.7	4.4	2.6	0.1	1.2	0.4	0.4	0.5	0.9	4.5	
+	6.1	3.8	4.5	2.3	2.2	0.4	1.3	1.7	0	0.2	2.2	5.6	
5	5.1	3.8	4.7	3.6	2.3	0	1.2	0.1	0.3	0.1	3.8	3.7	
6	5.7	4.1	3.6	3.3	0.5	1.4	0	1.3	0.1	0.8	0.5	3.1	
7	3.5	4.6	3.0	0.8	1.8	0.1	1.0	-	-	-	-	-	
ns	4.5	4.0	3.6	2.9	1.6	0.5	0.8	0.7	0.1	0.6	1.6	3.8	2.1
						17 Hrs.							
2	-	-	-	3.8	2.2	1.2	2.1	0.6	0.3	1.5	3.3	5.0	
3	5.1	4.9	5.1	5.0	3.6	0.6	1.2	0.5	0.4	0.9	1.2	4.6	
4	6.0	3.5	5.5	4.3	3.4	0.7	1.2	1.6	0.1	0.9	3.2	5.3	
5	5.2	3.9	5.1	4.6	3.1	0.7	1.4	0.2	0.5	0.3	4.0	4.4	
6	5.9	4.5	4.3	4.2	0.7	0.9	0.2	1.1	0	1.2	1.4	3.2	
7	4.6	3.1	4.0	1.4	2.0	0.2	0.5	-	-	-	-	-	
ns	5.4	4.0	4.8	3.9	2.5	0.7	1.1	0.8	0.3	1.0	2.6	4.5	2.6
						Wind Speed Mi/hr							
0	2.9	3.8	3.6	2.7	3.3	2.5	2.5	2.1	2.5	1.6	1.3	1.9	
1	3.4	2.8	3.4	2.7	2.7	3.3	3.1	2.7	2.5	2.1	1.7	2.1	
2	4.3	3.7	3.1	2.4	3.3	3.1	2.6	2.2	2.1	2.1	1.8	1.7	
3	4.2	4.4	2.9	2.9	3.3	3.0	1.5	2.0	2.1	1.8	1.5	1.4	
4	3.0	4.1	3.1	2.8	3.0	2.7	2.0	2.5	2.1	1.7	1.4	1.9	
5	3.6	2.9	3.5	2.5	2.6	2.7	1.9	1.6	2.0	1.6	1.4	1.4	
6 ~~3.0~~	3.0	3.1	3.0	1.7	2.0	2.3	2.2	1.8	1.6	1.4	1.2	1.5	
7	2.7	3.1	1.9	2.1	1.8	1.9	1.4	-	-	-	-	-	
eans	3.4	3.5	3.1	2.5	2.8	2.7	2.2	2.1	2.1	1.8	1.5	1.7	2.5

KANDAHAR, AFGHANISTAN

No. Days 0.1 in. Precipitation, Inches

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1939	3	7	8	3	0	0	0	0	0	0	0	2	
1940	5	3	1	0	0	0	0	0	0	0	0	3	
1941	3	2	0	5	0	0	0	0	0	0	0	3	
1942	8	9	2	1	1	0	1	0	0	0	2	2	
1943	7	2	5	1	0	0	0	0	0	0	0	2	
1944	6	5	0	0	0	0	2	0	0	0	1	3	
1945	5	1	0	1	1	0	0	0	0	0	0	3	
1946	7	2	3	0	0	0	0	0	0	0	0	3	
1947	2	5	2	0	1	0	0	0	0	0	1	2	
1948	2	4	5	1	0	0	0	0	0	0	0	2	
1949	1	3	6	2	0	0	0	0	0	0	0	2	
1950	5	6	5	2	1	0	0	0	0	0	0	0	
1951	2	4	11	1	3	0	0	0	0	0	0	1	
Means	4.3	4.1	3.8	1.3	0.5	0	0.2	0	0	0	0.3	2.2	16.7

India-Pakistan Consulate Data

Maximum Precipitation in 24 Hours. Inches

1940	3.00	0.38	0.40	0.04	0	0	0	0	0	0.03	0	1.35	
1941	1.79	0.14	0.06	0.53	0	0	0	0	0	0	0	0.26	
1942	0.74	1.18	0.85	0.11	0.16	0.05	0.50	0	0	0.03	0.15	0.62	
1943	1.94	0.15	0.87	0.81	0.08	0	0	0	0	0	0	0.28	
1944	0.77	2.19	0.09	0.04	0.08	0	0.27	0.01	0	0	0.11	0.27	
1945	0.62	0.22	0.06	0.42	0.13	0	0	0	0	0	0	0.56	
1946	1.30	0.69	0.31	0	0.02	0	0	0	0	0.02	0	0.60	
1947	1.17	0.52	0.65	0.01	0.50	0	0	-	-	-	-	-	
Extreme	3.00	2.19	0.87	0.81	0.50	0.05	0.50	0.01	0	0.03	0.15	1.35	3.00
Date	30/1940	27/1944	20/43	5/43	9/47	5/42	8/42	2/44	-	28/40*	24/42	6/40	30/Jan 1940

* Also other dates

India Weather Review

KANDAHAR, AFGHANISTAN

Mean Maximum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1940	61.7	60.9	66.4	81.2	92.9	101.2	102.9	96.5	93.1	85.3	74.3	60.8	
1941	56.6	66.5	77.3	82.2	94.7	100.3	102.3	101.9	92.5	90.4	75.0	58.3	
1942	54.1	54.5	72.3	85.3	93.3	97.0	101.5	97.1	91.6	83.4	78.0	57.8	
1943	49.7	61.9	71.5	78.3	88.4	97.2	100.5	98.6	92.0	80.9	70.8	66.5	
1944	56.2	60.4	72.0	84.0	91.2	98.7	101.6	99.3	91.2	83.3	73.9	53.1	
1945	52.4	61.1	73.7	80.0	89.5	99.1	99.9	100.6	94.1	84.5	73.5	59.5	
1946	56.3	65.7	71.5	89.6	92.3	99.6	102.6	101.2	95.9	91.0	61.5	57.0	
1947	58.3	61.3	72.5	84.2	90.7	96.8	102.3	----	97.0	85.0	78.0	~~64.0~~ 61.0	
48	63.0	----	72.0	84.0	94.0	97.0	101.0	99.0	97.0	85.0	72.0	61.0	
1949	56.0	62.0	71.0	76.0	95.0	94.0	101.0	98.0	95.0	77.0	66.7	61.7	
1950	58.0	53.7	67.1	76.8	91.0	98.0	101.0	98.8	91.3	85.9	68.8	64.0	
1951	61.0	----	67.4	80.1	91.0	96.2	100.0	99.3	96.9	91.7	75.9	67.5	
Means	56.9	60.8	71.2	81.8	92.0	97.9	101.4	99.1	94.0	85.3	72.4	60.7	81.1

Mean Minimum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1940	35.0	37.9	41.3	49.3	59.0	65.1	68.2	62.7	54.1	48.2	37.6	32.5	
1941	31.6	38.1	46.2	54.5	59.8	66.4	67.6	64.5	51.6	48.5	36.8	36.6	
1942	33.8	36.3	45.1	52.5	59.1	63.5	69.6	61.1	50.8	45.4	40.2	29.9	
1943	29.9	35.3	41.4	49.5	56.3	57.8	64.9	61.4	51.2	40.1	34.0	36.6	
1944	31.5	33.4	40.5	47.8	57.3	61.1	67.4	65.8	49.9	40.3	34.6	28.8	
1945	28.5	31.3	39.8	46.2	53.5	60.4	64.8	59.9	50.5	39.3	37.4	28.6	
1946	30.1	37.2	39.7	51.3	55.9	62.8	63.3	64.7	52/3	46.5	29.5	25.6	
1947	30.5	35.3	43.7	48.0	56.3	59.5	63.2	69.0	55.0	43.0	38.0	28.0	
1948	28.0	----	42.0	54.0	57.0	64.0	68.0	63.0	53.0	42.0	29.0	32.0	
1949	27.0	34.0	43.0	52.0	60.0	62.0	66.0	63.0	54.0	38.0	29.8	30.2	
1950	32.0	29.8	39.7	46.1	57.0	59.7	68.0	61.7	47.3	39.8	26.6	----	
1951	30.0	----	40.6	47.2	57.9	56.3	60.5	58.0	50.0	48.0	31.7	26.7	
Means	30.7	34.9	41.9	49.9	57.4	61.6	66.0	62.9	51.6	43.3	33.8	30.5	47.0

India and Pakistan Consulate data

KANDAHAR, AFGHANISTAN

Extreme Monthly Maximum Temperature °F.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1940	70	80	78	96	107	111	107	104	99	90	82	73	111
1941	69	79	85	97	106	106	107	109	97	99	89	77	109
1942	65	63	88	97	101	104	106	104	100	96	87	75	106
1943	59	77	85	88	99	103	105	106	99	87	87	75	106
1944	68	68	83	95	101	102	105	103	99	90	83	70	105
1945	65	78	88	95	97	106	106	107	100	91	80	70	107
1946	68	78	87	97	101	106	107	109	100	100	70	70	109
1947	69	73	81	97	97	102	108	112	105	95	88	71	112
1948	71	70	88	95	100	104	105	105	104	93	81	76	105
1949	72	76	89	98	100	101	104	103	105	95	77	73	105
1950	63	73	77	88	99	102	103	103	98	92	80	71	103
1951	72	78	78	95	101	105	105	105	101	98	85	77	105
Extreme	72	80	89	98	107	111	108	112	105	100	89	77	112

Extreme Monthly Minimum Temperature °F.

1940	28	28	31	33	39	54	63	57	47	42	31	25	25
1941	25	29	38	43	53	57	63	59	48	39	23	22	22
1942	21	30	35	41	52	57	62	52	43	37	32	22	21
1943	25	21	29	37	48	53	61	56	42	34	29	24	21
1944	25	24	36	38	48	51	62	55	40	30	29	15	15
1945	14	24	21	35	43	49	53	54	39	33	30	19	14
1946	23	24	34	43	51	56	55	55	47	37	16	16	16
1947	24	26	38	41	45	52	55	55	45	36	31	19	19
1948	19	24	30	38	49	56	61	54	44	33	25	21	19
1949	13	23	33	40	48	52	62	56	44	25	22	23	13
1950	18	19	29	36	50	56	63	56	39	33	18	10	10
1951	22	14	32	36	49	51	52	46	43	40	25	25	14
Extreme	13	14	21	33	39	49	52	46	39	25	16	10	10

India-Pakistan Consulate Data

KANDAHAR BRITISH CONSULATE, AFGHANISTAN

Precipitation, 1939 (inches)

1939	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1			.03									
4			.09	.11								
7			1.05									
9					.05							
10				.38								
11				.74								
12		0.33		.05								
14	1.00			.05								
15		0.51		.02								
16		0.13										
19	1.44											
20			.12									
21			.25									.05
22		0.89										.20
23			.14									.18
24		0.22										
25			.04									
26		0.48										
27		1.30	.62									
28		0.02	.23									.04
29	1.03		.10									
30			.11									
Sums	3.47	3.88	2.78	1.35	.05	0	0	0	0	0	0	.47
										Annual	12.00	

Precipitation* 1940 (Inches)

3		.17										
6												1.35
7												.14
8		.02										
10		.04		.03								
11	.03											
12		.03										
13		.38	.03									
14	.17		.40									
15	.05		.04									
16	.12											
17	.23											
18	.02	.04										
23												.02
24												.11
28		.35	.05							.03		
29	1.19											
30	3.00			.04								
31	.09											
Sums	4.90	1.03	.52	.07	0	0	0	0	0	.03	0	1.62
									Annual 8.17			

*Where there are discrepancies between this record and the table giving m. by m. data, the latter is taken India Weather record.

KANDAHAR, AFGHANISTAN, BRITISH CONSULATE

Precipitation 1941 (Inches)

1941	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				.11								
2				.04								.10
3		.02										
6			.04									
8				.22								
9												.26
10				.16								
11				.11								
12			.02	.53								
15	.20											
16	1.79											
17	.11	.14										
18		.--		.04								
19		.12										
25			.06									.13
26												.05
Sums	2.10	.28	.12	1.21	0	0	0	0	0	0	0	.54

Annual 4.25

Precipitation 1942

2			.38	.04	.02							
4	.34					.01						
5	.23	.02	.85									
6	.15	.42				.05						
7	.17	.48										
8		.31					.50					
9		1.18	.01									
10		.16										
11				.11								
12				.02								.03
13												.09
15					.16							.11
17	.05	.28								.03		
18		.24										
19		.20										
20		.07										
22	.15	.01									.14	
23	.20	.04									.15	
25		.06		.01								
26	.34	.74										
27	.74	.03										.23
28	.01											.42
30	.05											
31	.09											
Sums	2.52	4.24	1.24	.18	.18	.06	.50	0	0	.03	.29	.88

Annual 10.12

KANDAHAR, AFGHANISTAN, BRITISH CONSULATE

Precipitation 1943 (Inches)

1943	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	.44		.28									
2			.36									
3	.32			.02								
5				.81								
6				.02								
7												.16
8												.12
10					.11							.03
11	1.36				.02							
12	.29				.04							.10
14												.02
15	.02											
17	.76											
19		.07										
20			.87									
21			.10	.02								
23	.15	.15			.03							
24	1.94		.52									
27												.01
28		.12										
29												.09
Sums	5.28	.34	2.13	.87	.20	0	0	0	0	0	0	.53

Annual 9.35

Precipitation 1944 (Inches)

1		.07		.03								
2		.02						.01				.04
4	.10											.10
7	.77											
8												.12
9			.02									
11	.56	.22										
12		.28	.09									
13			.02				.19					
14							.27					
21	.08	.04										.08
22	.48		.03								.03	
23	.11										.11	
24	.54	.32										
25		.61			.08							
26		.04	.04		.02							.02
27		2.19										.27
28												.08
30			.06									
Sums	2.64	3.79	.26	.03	.10	0	.46	.01	0	0	.14	.71

Annual 8.14

KANDAHAR, AFGHANISTAN BRITISH CONSULATE

Precipitation 1945 (Inches)

1945	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1					.13							
3	.31											
4	.28											.05
5				.42								
7	.15											
8	.02	.04										
16		.22			.03							
18												.56
20												.14
21												.04
22	.35											
26		.04										
27		.02	.03									
29	.62		.03									
30	.04			.13								
Sums	1.77	.32	.06	.55	.16	0	0	0	0	0	0	.79

Annual 3.65

Precipitation 1946 (Inches)

1946	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1			.04									
3					.02							
7		.03										
10		.34										
11	.25	.12	.60									
12	1.71		.12									
13	.74											
14	.28											
15	.03											
19		.06										
20												.12
21		.04										.48
22	.21											.41
23	.93											.02
26		.78										
28		.02										
29	.08											
31										.02		
Sums	4.23	1.39	.76	0	.02	0	0	0	0	.02	0	1.03

Annual 7.45

KANDAHAR, AFGHANISTAN, BRITISH CONSULATE

Precipitation 1947 (Inches)

1947	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1					.01							
2	.38	.03	.10									
3	.12	.49										
4		.50										.09
5		.03										.41
6												.85
8					.22							
9	1.17				.33							
10			.65									
11			.02									
14											.12	
20		.03										
21		.45	.31									
22		.10	.16									
25	.04											
27		.26										
28		.03										
Sums	1.71	1.92	1.24	0	.56	0	0	0	0	0	.12	1.35

Annual 6.90

Precipitation 1948 (Inches)

1948												
1		.37										
2			.12									
6			.20									
7			.28									
8				.30								
9				.07								
10			.51	.03								
17			.09	.01								
18		.13		.04								
19		.30		.07								.12
25		.16	.11									
26												.01
27	.21											
28	.19											
30												.12
Sums	.40	.96	1.31	.52	0	0	0	0	0	0	0	.25

Annual 3.44

KANDAHAR, AFGHANISTAN, BRITISH CONSULATE

Precipitation 1949 (Inches)

1949	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		.18										
2		.65										
3		.04										
5				.13								
6			.07	.19								
7			.02									
8			.27									
9			1.47	.06								.10
10			1.30									
11			0.21									
12			.03									.13
13			.06									
14	.16		.18									
15												.02
19			.04									
20			.26									
21		.19										
24	.03											
25								.03			.02	
26											.15	
28	.01											
31												.08
Sums	.20	1.06	3.91	.38	0	0	0	.03	0	0	.17	0.33
										Annual	6.08	

Precipitation 1950 (Inches)

1950												
1				.20								
2				.39								
5		.28										
6		.31										
7		.23			.06							
8		.39			.05							
9					.12							
10			.02		.07							
11	.06											
12	.40											
13	.04		.72									
14		.26										
17			.14									
18	.31											
20		.32	.37									
26	.11											
28	1.82		.07								.03	
29	1.40		.51									
31			.15									
Sums	4.14	1.79	1.98	.54	.30	0	0	0	0	0	.03	0
										Annual	8.78	

The above table for 1950 is taken from Kandahar, Afghanistan, Pakistan Consulate.

KANDAHAR, PAKISTAN CONSULATE (AFGHANISTAN)

Precipitation 1951 (Inches)

1951	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				.56								
4					.09							
5	.48	.01	.03		1.42							
6		.11	.24		.33							
7		1.60			1.26							
8		.86	.03									
9		.10	.05									
10	.14		.14									
15			.25									
16			.25									
17			.31									
18			.16									
22			.16									
23			.03	.02								
24			.36									
25			.14									.05
26												.45
27												.09
29			.61									
31			.14									
Sums	.62	2.68	2.90	.58	3.10	0	0	0	0	0	0	.59

Annual 10.47

ORIGINAL DATA

Inventory of original transmission.

Afghanistan

1. Printed report on "Weather during the First Half of 1941 at Kabul" (14pp.)

2. Publication No. 2 of Afghan Meteorological Service entitled "On Evaporation Capacity in Kabul," by Dr. Edward Stenz, Kabul, 1941.

3. Morrison-Knudson Monthly Meteorological Report for Kandahar for all months of 1951 and 1952, and first four months of 1953. (28 sheets)

4. Same as above, for Chah-I-Anjir. (28 sheets)

5. Morrison-Knudson Monthly Meteorological Report, scattered data on temperature at Kandahar, 1946, 1947, 1949. (one sheet)

6. Monthly Meteorological Report by Dr. Stenz, Kandahar, 1946. (one sheet)

7. Factors of Climate for Kandahar, 1941-50, from records of the British Consulate. (17 sheets) (Enclosed)

8. Factors of Climate for Kandahar, 1946 (2 sheets)

9. Factors of Climate for Kabul, year not specified. (2 sheets)

10. Factors of Climate of the Chakhansur Area, v arious years. (11 sheets)

11. Factors of Climate for Farah, 1944-46 (5 sheets)

12. Factors of Climate for Herat, 1941-48. (6 sheets)

13. Factors of Climate for Chazni, 1944-47. (4 sheets)

14. Summary of Meteorological Data of Sistan River at Ban Zanek, 1951-52. (Two sheets) (This is an adjoining area in Iran.)

MONTHLY METEOROLOGICAL REPORT

STATION Chah-i Anjir 31°38'N 64°30'E DATE Jan 1951

Day	Rainfall (MM)	Evaporation (MM)	Rel. Hum. (%)	Max. Temp (°F)	Min. Temp (°F)	Ave. Daily Temp. (°F)	
1				—	—		
2				66	—		
3				63.5	35.5		
4				62	38.3		
5	11.5			—	42.8		
6				64.4	—		
7				71.6	35.5		
8				77	42.8		
9	8.0			76	46.4		
10	3.0			75	49		
11				75	34.7		
12				75	34.7		
13				74.2	29.3		
14				74.2	33		
15				63	31		
16				63	28.4		
17	0.5			62	30.2		
18				—	33.8		
19				62	—		
20				63.5	32		
21				57.2	30.2		
22				53.6	33		
23				64.4	33.8		
24				66.8	40		
25				68	41		
26				67	30.2		
27				60	31		
28				57	23		
29				64.4	26.6		
30				57	31		
31				46.4	30.2		
Totals	23.0 mm	61.0 mm		65.1°	34.4°		

MONTHLY METEOROLOGICAL REPORT

STATION Chak-1 Anjir DATE Febr. 1951

Day	Rainfall (MM)	Evaporation (MM)	Rel. Hum. (%)	Max. Temp (°F)	Min. Temp (°F)	Ave. Daily Temp. (°F)	
1				43	18		
2				49	29		
3				52	23		
4				60	28		
5	6.0			58	38		
6	38.0			46	44		
7	12.0			51	44		
8	3.0			46.4	45.5		
9				37.4	36		
10				41	37		
11				45.5	37		
12				51	33		
13	1.5			57	35		
14				57	31		
15				—	32		
16				64.4	—		
17	1.5			70	44		
18				67	47		
19				63.5	36		
20				69	44		
21				72.5	47		
22				71.6	41		
23				70	45.5		
24				69	38		
25				71	36.5		
26				78	37.4		
27				76	42		
28				69	36.5		
29		66.6					
30							
31							
Totals	62.0 mm						

MONTHLY METEOROLOGICAL REPORT

STATION Chahyangus DATE March 1951

DAY	RAINFALL (MM)	EVAPOR'TN (~~MM~~) inches	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1		3/16 in.		13.0 C	4.5°C		
2		1/8		14.0	6.0°C		
3		3/16		12.5	10.0		
4		1/8		13.0	10.0		
5		3/16		10.0	7.0		
6	3.5	—		10.0	7.0		
7	1.0	—		11.0	5.0		
8	0.5	—		—	6.5		
9	5.0	—		8.0	—		
10		1/16		4.0	0.5		
11		1/16		10.0	3.5		
12		1/8		13.5	5.0		
13		3/16		15.0	5.0		
14	2.0	—		18.0	8.0		
15	9.0	—		—	10.0		
16		—		9.0	—		
17	4.0	—		9.0	8.0		
18		1/8		8.5	6.5		
19		3/16		10.5	5.0		
20		1/8		12.5	6.0		
21		3/16		12.5	7.5		
22	4.5	—		12.0	10.0		
23	50.0	—		11.0	7.0		
24	1.0	—		9.0	8.0		
25		1/8		10.0	8.0		
26		3/16		10.0	6.0		
27		1/4		13.0	7.0		
28	7.0	—		11.5	10.0		
29	1.5	—		11.0	10.5		
30		3/16		12.5	9.5		
31	4.5	—		10.5	10.0		
TOTALS	93.5 mm	2.56"		51.4 F°	44.8°F		

(Note: no record for april 1951)

MONTHLY METEOROLOGICAL REPORT

STATION Chah-i-anjir DATE May 1951

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)	
1		1/8		25.5	16.5		
2		1/4		27.0	20.0		
3		1/4		27.0	20.0		
4		1/4		28.5	20.0		
5		1/8		25.0	18.5		
6		1/8		25.5	16.0		
7		1/4		27.0	18.5		
8		1/4		28.5	20.0		
9		1/4		28.5	20.0		
10		1/4		29.5	20.0		
11		1/4		29.5	20.0		
12		1/4		30.0	20.0		
13		1/4		30.0	20.0		
14		3/8		33.0	22.5		
15		3/8		33.5	25.0		
16		3/8		33.5	25.0		
17		1/2		34.0	25.5		
18		1/2		36.5	25.5		
19		3/8		36.5	26.0		
20		3/8		37.5	26.5		
21		1/4		37.5	26.5		
22		3/8		38.5	30.0		
23		1/4		38.5	29.5		
24		5/8		38.5	28.0		
25		1/4		38.5	28.0		
26		1/2		38.5	28.0		
27		1/2		39.0	30.0		
28		1/2		39.5	28.0		
29		1/2		39.5	29.0		
30		1/2		39.5	31.0		
31		3/4		39.5	31.0		
TOTALS		11 1/4 11.25" total		33.6 C° 92.3 F°	24.2 C 75.56 F		

MONTHLY METEOROLOGICAL REPORT

STATION Chah-i-anjir DATE June 1951

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1		5/8		39.5C	21.0		
2		1/2		39.5	31.0		
3		1/2		40.0	32.0		
4		1/2		40.0	32.0		
5		1/4		39.0	34.5		
6		1/2		39.5	32.5		
7		1/2		39.5	32.0		
8		1/2		39.5	34.0		
9		1/2		40.0	28.0		
10		1/2		39.0	20.0		
11		3/8		39.5	20.0		
12		3/8		39.5	21.0		
13		3/8		39.5	21.5		
14		3/8		39.5	21.5		
15		1/2		39.5	25.0		
16		3/8		39.5	27.5		
17		3/8		39.5	25.0		
18		5/8		39.0	25.0		
19		3/8		39.0	23.0		
20		3/8		39.5	23.0		
21		1/2		39.5	21.5		
22		1/2		39.5	20.5		
23		1/2		39.5	20.5		
24		1/2		39.0	20.5		
25		3/8		39.0	19.5		
26		1/4		39.0	19.5		
27		3/8		39.5	21.0		
28		3/8		41.0	23.0		
29		1/2		41.5	23.0		
30		1/2		41.5	22.0		
31				39.7	24.6C		
TOTALS		12 7/8 12.88"		103.4	76.4 F°		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-i-Anjir DATE July 1951

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1							
2							
3							
4							
5				Note – No record was			
6				available for July 1951.			
7				Following estimates			
8				prepared at end of month			
9						ok	
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
TOTALS	none	16.62"		106.5	80.8		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-i-Anjir DATE August, 1951

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)
1						
2						
3						
4						
5	Zero	4.75"		106.7	72.0	
6				ave	ave	
7						
8						
9						
10						
11						
12						
13						
14	Zero	3.00"		97.9	72.0	
15				ave	ave	
16						
17						
18						
19						
20						
21	Zero	3.12		99.5	73.2	
22				ave	ave	
23						
24						
25						
26						
27	Zero	2.75		103.1	67.5	
28				ave	ave	
29						
30						
31						
TOTALS		13.62		102.3	73.5	

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Shah-i-Anjir DATE Sept. 1951

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)	
1							
2							
3							
4	zero	2.50"		104.2 ave	67.6 ave		
5							
6							
7							
8							
9							
10							
11	zero	2.39		99.7 ave	63.7 ave		
12							
13							
14							
15							
16							
17							
18	zero	2.62		104.4 ave	68.7 ave		
19							
20							
21							
22							
23							
24							
25							
26	zero	3.37		101.5 ave	67.8 ave		
27							
28							
29							
30							
31							
TOTALS	zero	10.86		102.4	67.0		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE October 1951

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
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							
31							
TOTALS				102.56	64.94		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE Nov. 1951

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1							
2							
3							
4							
5							
6				41	19.5	3/8	
7				40	18.5	3/8	
8				40	18.5	3/8	
9				38.4	18.5	3/8	
10				38	18	1/4	
11				38	19.5	3/8	
12				38	18	3/8	
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
TOTALS				102.38	65.48		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-1-anjir DATE Dec. 1951

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1		4		66	32	clear -	cool
2		-		74	36	"	"
3		8		75	36	"	"
4		3		69	37	scattered	clouds
5		—		67	32	Broken	Overcast
6		1		67	32	Clear	cool
7		2		74	38	clear	
8		1		68	36	hazy	Dust
9		3		70	28	Windy	warm
10		2		71	31	clear	
11		1		70	30	clear	cool
12		2		70	30	"	"
13		—		63	28	"	"
14		1		63	30	"	"
15		1		69	30		Dusty
16		3		72	38		clear
17		1		74	42		warm
18		2		72	38		"
19		3		74	38	warm	clear
20		2		74	42	warm	hazy
21		1		68	42	Warm	
22		2		76	40	"	
23		3		74	46	windy - cloudy	solid overcast
24	1/8	—		66	44	"	"
25	T	—		66	48	Broken	Nimbus
26	—	—		60	50	"	"
27	—	—		52	42	Fog	heavy
28	—	—		50	46	"	"
29	—	—		52	29	Cloudy	overcast
30	—	1		52	26	"	"
31	—			52	22	clear	cold
TOTALS	0.25"	47 mm 1.85					

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-i-Anjir DATE Jan. 1952

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1		–		50	22	cold	clear
2		1		44	18	"	"
3		1		44	18	cold alto	stratus
4		–		45	24	overcast	
5		2		52	22	Cumulus	nimbus
6	3.5	–		44	28	Solid overcast-rain	
7	6.0	–		50	34	overcast fog-clear by noon	
8		–		52	28	Clear	cool
9		–		52	30	clear	
10		–		60	34	Scattered	overcast
11	1.0	2		62	36	clear	
12		1		72	36	Solid overcast-dust	
13		1		58	42	Clear	wind
14		–		54	28	clear	
15		–		54	26	"	
16		4		54	26	"	
17		3		60	34	Scattered	overcast
18		1		70	30	overcast	
19	7.8	–		70	42	Rain	
20		–		56	26	clearing	
21		–		62	36	Scattered	clouds
22		–		60	38	dust	
23		3		70	42	Fog	
24		1		60	40	Clear	
25		2		54	36	Scattered	clouds
26		1		62	38	Overcast	
27	T	2		64	42	Clear	
28	7	1		68	44	overcast-clearing	
29	4.1	–		56	48	Rain	
30	T	–		64	44	Overcast to clearing	
31	4.4	5		62	40	Overcast	
TOTALS	1.46"	31 mm 1.25"		57.6°F	33.3°F		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-i-Anjir Note DATE Febr. 1952

DAY	~~Rainfall~~ Evaporation (MM)	~~Evaporation~~ (MM) Rainfall	REL. HUM. (%)	MAX. TEMP. (°F)	MIN. TEMP. (°F)	AVE. DAILY TEMP. (°F)	
1	1	—		64 ✓	38	overcast	
2	—	3.7		54 ✓	36	Rain	
3	6	—		58 ✓	40	fog	
4	8	—		58 ✓	38	overcast	
5	—	—		70 ✓	40	Sct. clouds	
6	—	—		66 ✓	36	clear	
7	—	—		68 ✓	40	clear	
8	—	—		72 ✓	44	clear	
9	11	—		70 ✓	42	clear	windy
10	4	—		70 ✓	42	cloudy	
11	2	—		76 ✓	48	sultry	windy
12	18	1.0		74 ✓	—	dust-overcast	dust rain
13	—	—		74 ✓	50	overcast	
14	—	2.7		54 ✓	50	clear	Scattered clouds
15	12	1.5		50 ✓	30	cloudy	
16	—	—		54 ✓	28	clear	cool
17	5	—		60 ✓	28	"	"
18	2	—		58 ✓	28	"	cold
19	2	—		62 ✓	33	clear	
20	16	—		68 ✓	32	wind	A.S.
21	—	—		— ✓	40	clear	
22	—	—		73 ✓	—		
23	—	—		74 ✓	38	overcast	warm
24	5	—		75 ✓	48	"	dust
25	6	T		70 ✓	36	haze	dust
26	6	—		77 ✓	40	warm	haze
27	8	—		78 ✓	50	overcast	
28	—	T		76 ✓	58	clear to overcast	
29	— ✓	—		75 ✓	53	clear	
30	112 mm	—					
	4.41" ~~Evaporation~~	0.35" Rainfall		67.1°F	40.2°F		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE March 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	~~REL. HUM.~~ Weather	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	Wind MPH-Ave
1	—	4	Overcast	73.0	55.2		
2	—	3	"	72.0	48.0		
3	T	3	Overcast to clear	79.0	42.2		
4	T	—	Wind Overcast	76.3	49.0		
5	—	3	Wind Overcast	76.1	44.0		15.9
6	—	1	"	64.5	44.1		21.5
7	—	1	Clear	68.0	29.0		10.3
8	—	1	"	72.0	32.0		8.0
9	9.9	—	Rain Overcast	71.6	39.5		8.3
10	—	—	Overcast	71.6	41.0		16.0
11	—	3	Wind Overcast	82.4	52.0		19.3
12	— —	1	Rain Wind	82.4	60.0		13.0
13		8	Rain to clear	69.8	55.4		10.3
14		1	Clear	69.8	51.8		—
15		2	Wind clear	68.0	44.6		18.0
16		5	Clear	71.6	32.0		52.0
17		5	Dust-Wind	73.4	44.6		10.1
18		5	Overcast	87.8	48.2		12.0
19		4	- - - -	87.8	51.8		9.8
20	.1	4	Overcast Rain	84.2	60.8		1.5
21		13	Gale	71.6	48.2		30.0
22		13	Gale to Wind	75.2	39.2		25.0
23		15	Dust Overcast	84.2	46.4		6.2
24	1.2	—	Rain Overcast	86.0	53.6		11.1
25	6.7	—	" "	95.0	55.4		9.7
26	5.5	—	Dust Rain	78.8	62.6		3.1
27	— —	12	Overcast	77.0	51.8		6.3
28	— —	3	Clear	77.0	48.2		—
29	.2	5	Overcast	69.8	46.4		15.1
30	— —	—	Clear	82.4	55.4		6.6
	— —	10	Overcast	82.4	50.0		6.3
	23.6 mm 6.98"	125 mm 4.92"		76.7° ave	48.4° ave		11.0 ave

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE April 1962

DAY	RAINFALL (MM)	EVAPORATION (MM)	~~RELATIVE HUM.~~ Wind MPH	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1	1	5	7.5	87.8	51.8		Rain
2		5	9.0	93.2	53.6		Overcast
3	8	5	9.7	75.2	66.2		Rain
4		10	3.4	69.8	53.6		Clear
5		5	3.4	77.0	53.6		"
6		2	6.1	86.0	51.8		Clear warm
7		6	1.4	93.2	53.6		"
8		5	5.4	95.0	53.6		"
9		10	3.2	96.8	57.2		"
10		10	1.0	96.8	57.2		"
11		12	12.3	98.6	55.4		Overcast - Wind
12		2	5.0	100.4	64.4		hot
13		12	11.0	102.2	64.4		Wind heat
14		5	8.0	104.0	69.8		hot
15		6	3.0	104.0	66.2		hot overcast
16		10	3.0	102.2	77.0		Sultry
17	T	10	1.0	98.6	75.2		Overcast
18	T	10	0.5	93.2	71.6		Overcast
19		10	3.0	93.2	62.6		Clear
20		9	6.0	93.2	59.0		Clear
21		11	7.3	96.8	53.6		Clear
22		8	5.2	104.0	62.6		Clear
23		12		104.0	68.0		Overcast
24		12		102.2	69.8		Hale - ?
25		14		95.0	69.8		Hale - ?
26		10		96.8	66.2		Hot
27		11		89.6	69.8		Sultry
28		14		102.2	68.0		Clear
29		13		91.4	76.0		Wind
30		14		100.4	68.0		
TOTALS	9 mm 0.35"	268 mm 10.54"		94.8°F	63.0°F		

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE May. 1952

DAY	RAINFALL (MM)	EVAPORATION (MM)	REL. HUM. (%)	MAX. TEMP. (°F)	MIN. TEMP. (°F)	AVE. DAILY TEMP. (°F)	
1	1	9		100.4 ✓	53.6 ✓		Wind
2	1	10		98.6 ✓	75.2 ✓		Dust
3		10		91.4 ✓	64.4		Overcast
4		9		95.0 ✓	66.2		Clear
5		8		102.2 ✓	66.2		"
6	2	11		104.0 ✓	68.0		"
7		10		104.0 ✓	69.8		"
8		10		96.8 ✓	75.2		Wind
9		9		87.8 ✓	68.0		Dust
10		9		102.2 ✓	60.8		Clear
11		10		105.8 ✓	66.2		"
12		11		104.0 ✓	66.2		"
13	1	12		93.2 ✓	60.8		Rain
14		10		86.0 ✓	55.4		Wind
15		10		95.0 ✓	51.8		Clear
16		9		96.8 ✓	55.4		"
17		10		98.8 ✓	53.6		"
18		10		104.0 ✓	57.2		"
19		8		105.8 ✓	66.2		Warm
20		7		107.6 ✓	69.8		"
21		10		111.2 ✓	66.2		"
22		12		109.4 ✓	71.6		"
23		15		111.2 ✓	64.4		Hot
24		15		111.2 ✓	71.6		"
25		15		113.0 ✓	68.0		"
26		17		113.0 ✓	75.2		"
27		14		105.8 ✓	75.2		"
28		16		105.8	73.4		"
29		16		109.4 ✓	78.8		Hot gale
30		20		111.2	86.0		Wind
31	✓	20		113.0	82.4		wind
TOTALS	5 mm 0.20"	368 mm 11.6" ave		ave 103.°	ave 67.1°		

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE June 1952

[illegible]	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1		20		114.8 v	78.8		Wind
2		20		113.0 v	78.8		"
3		19		109.4 v	69.8		Heat
4		19		102.2 v	71.6		"
5		19		96.8 v	68.0		"
6		19		102.2 v	62.6		"
7		17		105.8 v	57.2		"
8		8		105.8 v	64.4		"
9		9		107.6 v	73.4		"
10		14		113.0 v	55.4		Wind
11		15		107.6 v	75.2		"
12		14		111.2 v	69.8		"
13		13		113.0 v	71.6		Sand
14		14		114.8 v	69.8		"
15		14		115.4 v	69.8		Wind
16		13		116.6 v	73.4		Heat
17		14		114.8 v	71.6		"
18		15		116.6 v	71.6		"
19		14		117.0 v	73.4		"
20		16		116.6 v	75.2		"
21		17		116.6 v	75.2		Wind
22		18		113.0 v	77.0		Heat
23		16		111.2 v	82.6		"
24		17		109.4 v	80.6		"
25		17		111.2 v	75.2		"
26		18		112.0	84.2		"
27		16		113.0	75.2		"
28		17		111.2	77.0		"
29		18		111.2	77.0		Wind
30		18		109.4	80.6		"
31							
TOTALS	zero	478 mm 15.9		111.1°F	72.9°F		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE July 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	Weather
1		20		107.6	82.4		Hot
2		20		107.6	71.6		Dust
3		20		111.2	69.8		Wind
4		14		111.2	66.2		Breeze
5		15		114.8	69.8		Calm
6		20		114.0	71.6		Hot
7		17		116.6	69.8		Wind
8		18		113.0	87.8		Overcast
9		21		107.6	73.4		Dust-Wind
10		20		113.0	69.8		Dust
11		19		113.0	71.6		Dust
12		17		113.0	71.6		Calm
13		15		116.6	78.8		Wind
14		17		111.2	77.0		Overcast
15		20		109.4	75.2		Warm
16		13		111.2	75.2		"
17		13		107.6	68.0		"
18		13		113.0	71.6		"
19		14		111.2	71.6		"
20		13		113.0	75.2		"
21		14		111.2	78.8		"
22		14		107.6	84.2		"
23		14		102.2	86.0		"
24		12		110.0	82.4		"
25		18		108.0	81.0		"
26		18		107.6	76.2		"
27		18		109.4	71.6		"
28		17		109.9	71.6		"
29		18		109.0	72.0		"
30		18		107.6	75.2		"
		18			73.4		"
TOTALS	nil	501 mm		110.6	74.9		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE August 1952

DAY	RAINFALL (MM)	EVAPORTN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	WEATHER
1		11		107.8 ✓	69.8		Hot
2		11		108.0 ✓	68.0		"
3		11		108.0 ✓	69.8		"
4		11		104.6 ✓	73.4		"
5		12		106.0 ✓	71.6		Wind
6		12		104.0 ✓	68.0		Dust-wind
7		10		105.8 ✓	69.8		Calm
8		10		107.6 ✓	68.0		Warm
9		11		105.8 ✓	69.8		"
10		12		106.0 ✓	68.0		"
11		11		107.6 ✓	69.8		"
12		11		98.6 ✓	68.0		"
13		13		100.4 ✓	62.6		Wind
14		16		104.5 ✓	60.8		Warm
15		19		105.8 ✓	64.4		"
16		21		107.6 ✓	66.2		"
17		20		104.0 ✓	71.6		"
18		20		104.0 ✓	69.8		"
19		19		107.6 ✓	68.0		"
20		13		106.0 ✓	68.0		"
21		13		103.0 ✓	65.0		"
22		13		102.2 ✓	62.6		"
23		13		104.5 ✓	66.2		"
24		13		104.0 ✓	65.0		"
25		13		104.0 ✓	60.8		"
26		13		104.0	63.0		"
27		13		98.6	68.0		"
28		13		96.8	69.4		"
29		13		100.4	64.4		"
30		13		101.0	64.4		"
31		13		104.0	62.6		"
TOTALS	nil	417 mm 16.42"		104.3°F	66.8°F		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE Sept 1952

DAY	RAINFALL (MM)	EVAPORATN (MM.)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	Weather
1		11		105.8	60.0		Warm
2		11		105.8	64.4		"
3		13		105.8	65.0		"
4		13		104.0	66.6		"
5		11		100.4	62.6		"
6		11		100.4	61.0		"
7		10		94.0	63.0		Wind, haze
8		9		90.0	61.0		Cooler
9		8		91.4	59.0		"
10		9		95.7	54.6		Warm
11		9		96.4	54.1		"
12		9		95.0	53.5		"
13		10		95.0	53.0		"
14		11		96.0	52.0		"
15		11		98.6	51.3		"
16		12		103.6	53.5		"
17		12		103.1	61.7		"
18		11		105.1	55.0		"
19		10		90.0	58.9		"
20		10		90.2	55.4		Cool, haze
21		10		93.0	54.0		cooler
22		10		92.7	52.3		"
23		10		97.2	50.0		Warm
24		9		95.0	48.2		"
25		9		95.7	47.8		"
26		9		94.1	46.4		"
27		8		91.8	48.0		"
28		8		92.3	50.0		"
29		9		94.1	49.1		"
30	None	9		91.4	51.8		"
31							
TOTALS		302 11.89		96.9°F	55.9°F		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE October 1962

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1		8		92.7	48.2		Warm
2		8		91.0	47.5		"
3		8		91.4	47.8		"
4		6		83.8	46.8		Dusty, hazy
5	T	6		80.2	46.4		Cloudy
6		7		87.8	59.0		clear
7		7		89.8	53.4		"
8		8		91.2	47.5		"
9		9		90.1	42.8		"
10		9		83.8	41.7		"
11		9		83.3	40.5		"
12		9		83.2	41.9		"
13		10		82.6	40.5		"
14		10		82.4	39.9		"
15		9		86.0	41.7		"
16		7		86.5 V	41.2		"
17		7		85.1 V	37.4		"
18		6		83.7	38.7		"
19		6		72.9	39.4		Hazy
20		6		74.8	36.1		Clear
21		6		73.0	35.1		"
22		6		70.0	31.7		"
23		5		72.0	29.1		"
24		5		78.3	30.6		"
25		5		80.4	32.0		"
26		5		83.1	35.6		"
27		5		84.2	39.0		"
28		5		83.9	38.3		"
29		5		83.5	39.7		"
30		5		84.0	38.5		"
31		5		77.7	36.0		"
TOTALS	Trace	212mm 6.8"		83.0°F	ave 40.8		

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Chah-i-anjir DATE Nov. 1952

DAY	RAINFALL (MM)	EVAPORTN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1		5		74.1 ✓	36.0		Clear
2		5		74.1 ✓	37.2		Hazy
3		6		79.2	36.0		Clear
4		6		84.6	37.4		"
5		6		81.5	43.9		Windy
6		5		84.7	38.7		Clear
7		5		81.3	38.8		"
8		5		79.7	36.3		"
9		6		80.2	39.7		"
10		5		75.2	41.0		"
11		5		68.0	36.1		"
12		5		68.0	32.0		Cloudy-Windy
13	Trace	5		70.9	30.2		"
14		5		72.1	38.5		"
15	1 mm	5		70.0	59.0		"
16	Trace	5		58.6	37.8		"
17		4		66.4	33.8		Clear
18		4		66.7	32.0		"
19		4		67.1	30.0		"
20		4		65.5 ✓	31.6		"
21		4		64.4	27.9		"
22		4		72.3	33.8		Cloudy
23		4		68.7	32.5		"
24		4		68.0	32.0		Clear
25		4		62.6	24.8		"
26		4		64.4	24.8		"
27		4		64.4	28.4		"
28		4		55.4	32.0		"
29		3		59.0	23.0		"
30	Trace	3		62.6	30.2		Cloudy
		128 mm					
TOTALS	1 mm	4.6"		AM 70.3°F	PM 34.3°F		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE December 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP. (°F)	MIN. TEMP. (°F)	AVE. DAILY TEMP. (°F)	
1	nil	3		69.4	33.9		clear
2	"	3		69.8	33.4		
3	"	3		67.3	33.8		
4	"	3		68.4	39.0		
5	"	2		68.9	33.1		
6	"	2		62.8	29.7		
7	"	2		64.9	28.6		
8	"	2		65.5	25.5		
9	"	2		63.9	30.2		
10	"	3		64.2	29.8		
11	"	2		62.4	32.7		Windy
12	"	2		57.6	28.9		"
13	"	2		54.5	23.4		Windy, hazy
14	"	2		58.8	30.4		Overcast
15	4	2		59.7	29.3		"
16	nil	2		57.4	40.3		Clear
17	"	3		54.0	31.8		"
18	"	2		48.6	22.8		"
19	"	2		52.3	17.6		"
20	"	2		51.8	18.0		"
21	"	3		49.3	18.5		Overcast
22	"	3		56.7	26.4		Clear
23	"	3		57.8	18.1		"
24	"	3		54.4	31.6		"
25	"	3		59.0	26.1		"
26	"	3		57.7	22.6		"
27	"	3		57.3	23.7		Overcast
28	2	3		54.1	28.2		"
29	Trace	3		54.5	45.3		"
30	nil	3		59.7	34.3		Clear
31	"	2		55.2	32.5		
TOTALS	6mm.	71		59.1°F	29.0°F		

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Chak-I-Anjir DATE Jan 1953

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1	nil	2		53.6	21.0		Clear
2	"	2		54.0	19.2		"
3	"	2		53.6	19.0		"
4	"	1		57.2	19.6		"
5	"	1		56.3	20.7		"
6	"	1		59.4	18.1		"
7	"	1		62.6	24.4		Windy Cloudy
8	"	1		65.1	28.0		"
9	"	1		65.7	37.0		Overcast
10	"	1		62.6	33.1		Windy
11	"	2		67.1	30.2		"
12	5	2		69.3	39.2		"
13	3	3		53.2	39.2		Stormy
14	Trace	3		52.3	32.0		Cloudy
15	nil	4		52.5	28.0		Clear
16	"	4		52.0	23.4		"
17	Trace	4		53.8	28.4		Cloudy
18	Trace	4		54.0	32.0		Showers
19	nil	4		53.3	24.8		Cloudy
20	"	4		52.5	25.2		"
21	"	4		60.8	35.8		Clear
22	"	3		62.4	26.6		"
23	Trace	3		62.2	36.1		Cloudy
24	nil	2		63.0	39.2		"
25	"	2		73.9	44.0		"
26	"	2		70.7	43.7		"
27	"	3		68.0	32.0		Clear
28	"	3		60.8	27.5		"
29	"	3		62.6	24.8		Cloudy
30	"	3		65.3	28.4		Clear
31	"	4		66.2	30.2		"
TOTALS	8 mm .3"	79 mm 3.1 mm		ave 60.2	ave 29.1		

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE February 1953

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)	
1	nil	4		68.0	37.4		Clear
2	"	4		66.2	49.1		Windy Overcast
3	3	4		71.6	50.0		Cloudy
4	nil	4		65.3	36.5		Clear
5	"	4		63.5	32.9		"
6	"	4		68.0	37.4		"
7	"	4		67.1	47.3		Windy Cloudy
8	"	4		73.4	48.2		Cloudy
9	6	4		59.0	46.4		Cloudy
10	nil	3		50.0	41.0		"
11	17	1		59.0	39.2		Windy Cloudy
12	6	1		49.1	44.6		Rainy Cloudy
13	14	1		64.4	43.7		Cloudy
14	nil	2		60.8	45.5		"
15	"	3		56.3	33.8		Clear
16	"	3		60.8	36.5		"
17	"	3		64.4	38.3		"
18	"	3		64.4	37.4		"
19	"	4		64.4	40.1		Cloudy
20	"	4		72.5	42.8		"
21	"	4		75.2	52.7		Overcast
22	"	4		70.7	51.8		Cloudy
23	"	5		80.2	46.4		"
24	"	5		78.8	49.1		Windy Cloudy
25	"	5		87.8	54.7		Clear
26	"	5		82.6	50.5		"
27	"	5		84.7	52.7		"
28	"	5		86.7	55.8		"
29							
30				ave 68.4°F	ave 44.4°F		
31							
TOTALS	46 mm 1.8 in	102 mm 4.0 in					

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I Anjir DATE March 1953

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1	nil	5		86.4	53.2		Clear
2	"	5		87.8	48.7		"
3	"	6		89.2	54.9		"
4	2	6		86.9	60.8		Cloudy windy
5	nil	6		78.4	57.4		Cloudy
6	nil	6		84.2	57.2		Windy
7	"	6		78.8	46.4		Clear
8	"	6		77.7	46.4		"
9	"	7		91.9	55.7		"
10	"	8		72.0	47.5		Windy
11	"	9		68.9	35.4		"
12	"	10		76.1	38.3		Clear
13	"	10		80.6	44.6		Overcast
14	"	10		86.4	57.2		Shamal
15	"	8		76.6	47.3		Cloudy
16	"	7		74.7	46.4		Overcast
17	"	6		81.5	46.0		Cloudy
18	"	6		79.0	51.1		Clear
19	"	6		79.2	45.5		"
20	"	6		79.7	45.0		"
21	"	6		84.2	59.5		"
22	2	6		84.4	59.0		Cloudy windy
23	6	6		82.7	57.6		Cloudy
24	nil	8		86.2	54.9		Clear
25	"	8		79.5	55.4		"
26	"	7		64.0	42.8		Windy
27	"	7		64.6	35.1		"
28	"	7		68.4	39.2		Clear
29	"	7		62.8	32.7		"
30	"	7		72.6	33.8		"
31	"	6		89.4	42.6		Cloudy
TOTALS	10 mm 39 mm			AVE 79.0	AVE 48.3°F		

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Chah-I-Anjir DATE April 1953

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)	
1	nil	6		84.7	54.7		Cloudy
2	"	6		90.1	50.0		Clear
3	"	7		93.4	55.6		"
4	"	8		92.5	54.9		Sultry
5	"	8		96.1	61.3		Clear
6	"	8		93.2	57.4		"
7	"	7		92.7	63.6		Cloudy
8	"	7		96.1	68.4		Clear
9	1	7		94.6	63.3		Cloudy
10	3	8		89.6	63.0		Clear
11	6	7		71.6	57.6		Overcast
12	nil	6		76.5	53.2		Clear
13	"	6		80.1	49.1		"
14	"	7		86.0	52.9		"
15	"	7		91.4	51.9		"
16	"	7		93.2	52.2		"
17	"	8		89.6	54.1		"
18	"	9		86.0	48.6		"
19	"	9		88.2	47.5		"
20	"	9		89.9	50.0		"
21	"	9		95.0	51.6		"
22	"	8		100.0	58.0		"
23	"	9		103.1	60.8		"
24	"	9		104.0	61.4		"
25	"	8		106.6	64.8		"
26	"	9		106.0	66.8		"
27	"	9		109.6	69.0		"
28	"	10		107.8	72.9		Sultry
29	"	11		104.9	70.5		Windy
30	"	12		102.4	61.9		Clear
Total	10 mm .4 in	241 mm 9.5 in		AM 93.8°F	AM 58.2		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE _____

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)	
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
2							
3				1/4/50	18.2		
4			Temp	2/10/50	19.2		
5	1946						
6		11/27	19.0				
7		11/28	17.7				
8		[illegible]	17.9				
9		30	15.9				
10	1946	12/1	16.0	MAG			
11		2	16.9				
12		3	16.8				
13		4	19.8				
14		5	20.0		None in		
15		6	20.4		1948 & 1949		
16					below 20		
17	1947	12/31	19.0		min. Temp		
18		1/1/47	19.4				
19			—				
20	1949	1/1	21.0				
21			15.0				
22			13.4				
23			14.0				
24			15.0				
25			16.8				
26			16.0				
27			16.0				
28			18.2				
29			16.8				
30		1/11/49	16.4				
31							

Factors of Climate of the Chakhansur Area Located
in Latitude 40°, longitude 30°

The climate of the Chakhansur region, the southern part of Afghanistan, is characterised as being most variable. Reportedly, temperatures drop or raise sharply within a few hours in spring or autumn as seasons do not exist. The highest and lowest officially recorded air temperatures available for the area are 126°F and 4°F respectively. Surface soil temperatures taken in July 1953 indicated 164°F and are probably higher on southern slopes and in areas less effected by air movement. The months of May, June, July and August are the months of highest temperature. As mentioned above, air temperatures may reach 126°F but fall to 115°- 120° F or lower when the wind blows.

At the end of May or the middle of June the 120 days wind sets in and continues with very few quiet intervals until the middle or the end of September. It will blow at high velocity unceasingly for four or five days at a time, usually attaining its maximum daily velocity between midnight and 5 A.M. and again between 8:00 A.M. and 5:00 P.M. It moderates a little in the early morning and evening. Wind velocities are high during such periods and one record indicated that winds in the Chakhansur area have reached 120 miles per hour and on one occasion blew at a velocity of over 88 miles per hour for sixteen hours. After four or five days of almost continuous wind, air movements will subside for a day or two, only to commence with renewed violence. It apparently blows from one direction, 316½° to 334°, or a little west of north.

The Chakhansur summer is a rainless and cloudless one. Last clouds are seen about the middle of May and it would be unusual to see one before September.

Winter approaches suddenly, generally about November 1 to November 15. Cloudy weather occurs in December and showers of light rain occasionally occur during the winter. Snowfall may occur any time from the first of January to the last of March. Blizzards during this period of time have been reported as being frequent any time from January to March, some of which are very sudden and severe. In one blizzard all the lakes, as well as the flowing Rud-I-Seistan and Rud-I-Parian froze over with a considerable loss of livestock and human life.

The rainfall of the Chakhansur may be expected to be small as characteristic of a desert area. Although few official records are available, from those that do exist and from local reports only traces of precipitation may occur in some years and in ordinary years probably does not exceed 2½-3 inches.

Barometric pressures do not give any indication or forewarning of approaching high winds from an examination of available records.

The temperatures shown below are monthly averages. In the case of the Chakhansur data covers a period of three years for air temperatures only for most months. The general summary of air temperature and precipitation for nearby Ban Zanek on the Sistan River in Iran is included for one year for purposes of comparison for precipitation.

Month	Chakhansur			Ban Zanek		
	Air temperature			Precipitation	Air temperature	
	Maximum	Minimum	Average		Maximum	Minimum
	°F	°F	°F	mm.	°F	°F
January	58.2	31.0	44.6	2	80.6	39.2
February	67.5	35.3	51.4	0	82.4	37.4
March	75.0	44.2	59.6	2	98.6	44.6
April	89.3	55.7	72.5	2	114.8	44.6
May	100.5	65.5	83.0	0	114.8	53.6
June	108.8	69.8	89.3	0	118.4	57.2
July	105.0	75.9	90.4	0	118.4	60.8
August	102.5	75.3	88.9	0	116.6	53.6
September	97.9	64.0	81.0	0	--	--
October	88.2	53.2	70.7	0	100.4	35.6
November	79.1	43.6	61.4	0	75.2	33.8
December	66.1	32.0	49.0	1.8	77.0	21.2
Total				7.8 (0.307 in.)		

Extreme air temperatures of 4°, 8°, 12° and 14° F are recorded during the three-year period occurring during December, January and March.

Climatic Factors of the Chakhansur area located
Latitude 40° Longitude 30°.

The climate of the Chakhansur region, the southern part of Afghanistan is characterized as being most variable reportedly temperatures drop or raise sharply within a few hours and spring or autumn as seasons do not exist. The highest and lowest officially recorded air temperatures for the area available being 126° F and 4° F respectively. Surface soil temperatures taken in July 1953 indicated 164° F and are probably higher on south slopes and in areas less effected by air movement. The months of May, June July and August are months of highest temperature. As above mentioned air temperatures may reach 126° F but fall to 115°-120° F or lower when the wind blows

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little in the early morning and evening. Wind velocities are high during such periods and one record indicated that winds in the Chakhamour area have reached 120 miles per hour and on one occasion blew at a velocity of over 88 miles per hour for sixteen hours. After four or five days of almost continuous wind movement to subside for a day or two, only to commence with renewed violence. It apparently blows from one direction, 316½° to 334°, or a little west of north

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the flowing Rud-I-Listan and Rud-I-Parian ~~with~~ moreover a considerable loss of livestock and human life by freezing.

The rainfall of the Chakhansur may be expected to be small as characteristic of a desert area. Although few official records are available, from those that do exist and from local reports only traces of precipitation may occur in some years and in ordinary years probably does not exceed 2½-3 inches.

Barometric pressure do not give any indication or forwarning of approaching high winds from an examination of available records.

The temperatures — (next page

The temperatures shown below are monthly averages. In the case of the Chakhansur data covers a period of three years for air temperature only for most months. The general summary of air temperature and precipitation for near by Ban Zaneh on the Sistan River in Iran for one year is included for purposes of comparison for precipitation.

Month	Chakhansur Air Temperature			Ban Zaneh		
				Precipitation in mm	Air Temperature °F	
	Max °F	Min °F	Ave °F		Max	min
Jan	58.2	31.0	44.6	2	27.0 (82.6)	4.0 (39.2)
Febr	67.5	35.3	51.4	0	28.0 (82.4)	3.0 (37.4)
March	75.0	44.2	59.6	2	37.0 (98.6)	7.0 (44.6)
April	89.3	55.7	72.5	2	46.0 (114.8)	7.0 (44.6)
May	100.5	65.5	83.0	0	46.0 (114.8)	12.0 (53.6)
June	108.8	69.8	89.3	0	48.0 (118.4)	14.0 (57.2)
July	105.0	75.9	90.4	0	48.0 (118.4)	16.0 (60.8)
August	102.5	75.3	88.9	0	47.0 (116.6)	12.0 (53.6)
Sept	97.9	64.0	81.0	0	—	—
Oct	88.2	53.2	70.7	0	38.0 (100.4)	2.0 (35.6)
Nov	79.1	43.6	61.4	0	24.0 (75.2)	4 (39.8)
Dec	66.1	32.0	49.0	1.8	25 (77.0)	(-6) (21.2)
Total	—	—	—	7.8 mm (0.307 in.)		

OK OK OK

Extreme air temperatures of 4°, 8°, 8°, 12°, and 14°F are recorded during the three-year period occurring during December, January, and March.

Sisetan Temperature Data - Chakhansur

Temperature - Monthly Ave, min, + max

	1903		1904		1905		Average
January			44.5	57.6 31.5	44.6	58.8 30.4	44.6
February			55.8	73.1 38.5	46.5	61.0 32.1	51.2
March			63.0	78.7 47.3	56.2	71.3 41.0	59.6
April	69.1	84.3 53.9	72.5	88.8 56.3	76.0	94.9 57.0	13.5 -?
May	81.1	96.0 66.3	84.8	102.1 67.6	83.1	103.4 62.7	83.0
June	91.2	108.4 74.0	89.4	105.2 73.6	87.4	112.9 61.9	89.3
July	89.0	103.1 74.9	91.8	106.9 76.8			90.4
August	88.3	100.9 75.8	89.4	104.1 74.8			88.8
Sept.	80.7	97.5 63.9	81.2	98.3 64.1			81.0
October	72.2	90.3 54.2	69.1	86.1 52.1			70.6
Nov.	58.2	76.2 40.2	63.0	82.0 47.0			60.6
Dec.	46.9	64.2 27.7	52.1	68.0 36.2			49.0

March 29th 1903 - blizzard - "below freezing"
March 29th 1905 - Temp. 8° F. min
December 27 1903 " 12° F "
January 14 1904 " 14° F
January 23 1905 " 4° F
March 29 1905 " 8° F.

Climate Sistan or Chakhansur - Delta formed by Helmand & Khash rivers

The climate of the Chakhansur area, southern most part of Afghanistan may be summarized as follows:

Climate is characterized from reports as being most variable in short periods of time. Spring and autumn do not exist as temperatures drop or raise sharply, reportedly within a few hours. The highest and lowest official readings for the area being 126° and 4° respectively.

May & first half of June - very hot trying months. Temperature in 1953 reached 126° when wind was not blowing.

At end of May or middle of June, the 120 days winds sets in and blows with but little cessation till the middle or end of September. It will blow unceasingly for four or five days at a time, usually attaining its maximum daily velocity between midnight and 5 A.M. and again between 3 A.M and 5 P.M. It moderates a little in the early morning and evening. After four or five days it drops a little for a day or two, only to commence with renewed violence. It blows with appalling velocity, reaching maximum velocity at times of 72 miles per hour. It apparently blows always from one direction — 316½° - 333¾° - a little west of North.

Recordings indicate that wind in this area have reached 120 miles per hour and on occasions blew at a velocity of over 80 miles per hour for 16 hrs.

The Chakhansur summer is an almost cloudless one. Not clouds are seen about the middle of May and no more are seen until September.

a seistani proverb

"Handum ra mi-khwahi bi-kuni ba-ambar"
"Sunbula ab bi-gir ba-mizan bi-kar"

"If you would fill your granaries, irrigate when the sun is in the Virgin (Aug. 22) and sow when it is in Libra (September 24).

Winter approaches suddenly, generally about November 1 - Nov. 15

Cloudy weather occurs in December and showers of light rain occasionally occur during the winter. Snow fall may occur anytime from 1st of January to last of March. Blizzards during this period of time have been reported as being frequent anytime from January to March, some of which are very severe. In one blizzard all the lakes and Hamuns froze as well as the flowing Rud-i-Sistan and Rud-i-Perian.

The rainfall of Chakhansur may be expected to be small. In some years only traces may occur and in ordinary years probably does not exceed 3 in.

Barometric pressures do not give any indication or forewarning of wind, nor does the wind seem to appreciably effect the barometer.

Plants

Dwarf jand bush - Punjab (indicator of good land?)
Camel thorn - grows nearly everywhere
Sulingi - "Jao" of Punjab, species of Tamarisk?
Salt Tamarisk, ash, morus, date palm, willow, euphratica cultivated trees all irrigated land noted apparently had very high ground water with usual saline condition. Tamarisk & Euphratica best planting beds.

Precipitation – Rainfall – Quetta Records

Year	(Inches) Precipitation	(Inches) Cumulative	Year	Inches Precipitation	Inches Cumulative
1879	4.19	4.19	1921	2.48	394.45
80	2.95	7.14		8.26	402.71
81	12.84	19.98		8.08	410.79
	10.77	30.75		9.42	420.21
	9.59	40.34	25	5.30	425.51
	7.64	47.98		10.50	436.01
85	20.97	68.95		5.67	441.68
	9.96	78.91		8.28	449.96
	4.49	83.40		7.13	457.09
	8.26	91.66	30	11.87	468.96
	8.35	100.01		11.25	480.21
90	4.63	104.64		6.05	486.26
	19.90	124.54		10.04	496.30
	4.96	129.50		5.55	501.85
	16.86	146.36	35	13.27	515.12
	16.15	162.51		7.79	522.91
95	6.82	169.33		13.35	536.26
	11.47	180.80		9.81	546.07
	9.26	190.06		13.77	559.84
	7.37	197.43	40	10.53	570.12
	5.76	203.19		4.76	574.93
1900	11.05	214.24		8.83	583.76
	10.91	225.15		9.94	593.70
	1.86	227.01		14.16	607.86
	13.30	240.31	45	8.09	615.95
	8.50	248.81		7.29	623.24
05	11.86	260.67		7.85	631.10
	13.25	273.92		5.92	637.02
	9.12	283.04	49	9.19	646.21
	4.94	287.98			
	8.29	296.27			
10	6.09	302.36			
	11.34	313.70			
	11.05	324.75			
	9.05	333.80			
	10.99	344.79			
15	9.35	354.14			
	8.53	362.67			
	7.71	370.38			
	7.90	378.28			
	7.91	386.19			
20	5.78	391.79			

by Dr. Stang Degrees C Jan-Dec

MONTHLY METEOROLOGICAL REPORT

STATION: Kandahar DATE: 1946 (6)

DAY	RAINFALL (MM)	EVAPORATION (MM)	REL. HUM. 9:00	3p	9p	MAX. TEMP. (°F)	MIN. TEMP. (°F)	AVG. DAILY TEMP. (°F)	Wind vel mean
1 Jan	99		89	52	72	12.4°C	-0.2°C		2.0
2 Feb.	28.3		73	37	53	18.1	4.1		1.7
3 Mar	12.7		66	28	39	21.7	5.1		1.6
4 Apr.	0		57	22	29	31.5	10.9		1.5
5 May	0.1		46	16	24	36.1	13.8		1.1
6 June	0.0		39	16	18	39.5	18.1		1.2
7 July	0.0		39	17	17	40.2	18.2		1.3
8 Aug	0.0		38	15	25	38.1	17.9		1.1
9 Sept	0.0		44	9	25	34.6	10.8		1.1
10 Oct.	0.1		60	13	35	31.2	7.8		1.0
11 Nov	0.0		65	23	46	18.7	-2.1		0.9
12 Dec.	37.8		69	34	53	12.7	-3.4		1.0
13									
14									
15									
16						July	26/95 3		
17									
18						from	Dr. Stang		
19							records	Office	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTALS									

(8)

Factors of climate for Kandahar, located in latitude ~~62° 10'~~ 65° 40', longitude ~~[redacted]~~ 31°-30', 1946

Month	Precipitation	Relative humidity I 7:00 A.M.	Relative humidity II 1:00 P.M.	Relative humidity III 9:00 P.M.	Air temperature Maximum	Air temperature Minimum	Wind velocity
	mm.				°F	°F	~~[redacted]~~ M/S
January	99.0	87	52	72	54.32	32.36	2.0
February	28.3	73	37	53	64.58	39.38	1.7
March	12.7	66	28	39	71.06	41.18	1.6
April	0.0	57	22	29	88.7	51.62	1.5
May	0.1	46	16	24	96.98	56.84	1.1
June	0.0	39	16	18	103.10	64.58	1.2
July	0.0	39	17	17	104.36	64.76	1.3
August	0.0	38	15	25	100.58	64.22	1.1
September	0.0	44	9	25	94.28	51.44	1.1
October	0.1	60	13	35	88.16	46.04	1.0
November	0.0	65	23	46	65.66	28.22	0.9
December	37.8	69	34	53	54.86	25.88	1.0
Total	178.0 (7.0 in.)						

Data from Afghan meteorological service showing humidity for Kandahar area in more detail.

Climatic Factors for Kandahar located in Latitude 62°-10° Longitude 34°-20' for the year 1946.

Month	Precipitation mm	Relative Humidity I 7:00 a	II 1:00 p	III 9:00 p	Air Temperature °F Minimum	Maximum	Mean Monthly Wind Vel. miles per hr
January	99.0	87	52	72	12.4 (54.32)	0.2 (32.36)	2.0
February	28.3	73	37	53	18.1 (64.58)	4.9 (39.38)	1.7
March	12.7	66	28	39	21.7 (71.06)	5.1 (41.18)	1.6
April	.0	57	22	29	31.5 (88.70)	10.9 (51.62)	1.5
May	0.1	46	16	24	36.1 (96.98)	13.8 (56.84)	1.1
June	0	39	16	18	39.5 (103.10)	18.1 (64.58)	1.2
July	0	39	17	17	40.2 (104.36)	18.2 (64.76)	1.3
August	0	38	15	25	38.1 (100.58)	17.9 (64.22)	1.1
September	00	44	9	25	34.6 (94.28)	10.8 (51.44)	1.1
October	0.1	60	13	35	31.2 (88.16)	7.8 (46.04)	1.0
November	0.0	65	23	46	18.7 (65.66)	-2.1 (28.22)	0.9
December	37.8	69	34	53	12.7 (54.86)	-3.4 (25.88)	1.0
	178.0 (7.0 in)	—	—	—			

Data from Afghan meteorolgical service showing humidity for Kandahar area in more detail.

Factors of climate for Kabul, located in latitude 69° 10', longitude 34° 10'

Month	Air temperature	Wind velocity	Monthly evaporation
	°F	mi.per hr.	mm.
January	32.00	1.20	48
February	31.28	1.50	69
March	43.52	1.57	116
April	53.96	1.35	169
May	65.3	1.38	230
June	73.76	1.70	328
July	78.26	2.05	396
August	74.84	1.37	300
September	66.92	1.47	304
October	55.22	0.96	173
November	44.96	0.76	117
December	34.70	0.82	55
Total			2,305 (91 in.)

Data from publications of the Afghan Meteorological Service.

Factors of climate for Kabul located in latitude 69°-10' longitude 34°-30'

Month	Mean Air Temperature T° F	Mean Wind Velocity m/s	Monthly Evaporation in mms
Jan	32.00 0.0	1.20	48
Febr.	31.28 -0.4	1.50	69
March	43.52 6.4	1.57	116
April	53.96 12.2	1.35	149
May	65.30 18.5	1.38	230
June	73.96 23.2	1.70	328
July	78.26 25.7	2.05	396
Aug.	74.84 23.8	1.37	300
Sept.	66.92 19.4	1.47	304
Oct.	55.22 12.9	0.96	173
Nov.	44.96 7.2	0.76	117
Dec.	34.70 1.5	0.82	55
	correct		2305 (91 in.)

The above data from publication of the Afghan Meteorological Service.

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE Jan 1951

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1				61	28	30	
2				62	29	32	
3				60	29.3	32	
4					30.6	31	
5	12.5			59		—	
6				53	33	43	
7				49	33	31	
8	T			56.5	38	34.5	
9	11.5			59	41	45	
10	0.5			55.5	45.5	48	
11					36	39	
12				52			
13				50	27.5	29	
14				54.5	36	34	
15				50	28.5	30	
16				50	26	28.5	
17				54	29	31	
18					31	42	
19				51			
20				53.5	26.5	29	
21				53.5	25.5	29	
22				59	29	31	
23				60	30.5	35.5	
24				62.5	35.5	39	
25				—	38.5	46.5	
26				67			
27				59	36.5	43	
28				55	25	30	
29				59	28.5	31	
30				58	31	35	
	24.5 mm			44	31.5	34	
				55.8	31.4°C	34.9°C	

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Landahai DATE Febr. 1951

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1				—	20.5	23	
2				43	—	—	
3	3.0			53	15	22	
4				59	23	28.5	
5				56.5	28	42	
6	3.5			44.5	39	39	
7	39.5			44.5	38.5	39	
8	20.5			51.5	39	41	
9				53	—	—	
10				55	12	28	
11				50	23	25	
12				50	26.5	32	
13			32.8	54	31	35	
14				53	29	34	
15			42.0	54	28.5	32	
16				61	28	—	
17				67	36.5	43	
18				62.5	43	46.5	
19			46.5	61.5	34.5	39	
20				69	38.5	42	
21				72.5	41	46	
22			39.6	70	39	44	
23				67	36.5	—	
24				65	36.5	42	
25				66	32	39	
26			37.0	70	33	40	
27				74	38	44	
28			37.3	69	44	52	
29				59.1°C	32.1°C	37.4°C	
30							

66.5 mm

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE March 1957

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1				68	38.5	46	
2				70	37	—	
3				70	36.5	43	
4	10.5			72.5	51	56	
5	5.5			67	47.5	54	
6	—	4		64.5	44.5	47.5	
7	2.0			71	44	53.5	
8	—	3		69	51	52	
9	3.5			63.5	45	—	
10		4		58	34	38	
11				63	36.5	41	
12				69	37	43	
13				71.5	39	46.5	
14		21		79	44.5	52	
15	15.5			65	53.5	54	
16	T	6		66.5	44.5	—	
17	11.0			62	42	47.5	
18				61	43	46.5	
19				65.5	36.5	40	
20				67	36.5	41	
21		16		71.5	41	48	
22	3.5			69	44	53.5	
23	4.0	3		71	48.5	—	
24	13.5			61	46.5	47	
25	1.0			69	46.5	50	
26				65.5	42	47	
27		13		69	45.5	52	
28	9.5			73.5	44	50	
29	4.0			—	44	44	
30		6				—	
31	7.5			avg 67.5	avg 43.9°C	48.0°C	
TOTALS	81.0 mm						

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE April 1951

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1	8.5			68	44.5	50	
2				68	48	50	
3				65	44	47.5	
4				70	40	51	
5				64	45.5	53.5	
6				69	44	—	
7				65.5	39	47.5	
8				71.5	40.5	50	
9				77.5	43	53	
10				82.5	47	55.5	
11				83.5	51	62.5	
12				82.5	54.5	66	
13				86	52	—	
14		62.0		77	53.5	61	
15				80.5	46.5	59	
16				84.5	53	68	
17				77	51	61	
18				80	49.5	50	
19				82	57	66	
20				82.5	56	—	
21				86	47	62.5	
22		54		89.5	61	70	
23	2.0			87	59	69.5	
24				88.5	54	66	
25				89.5	54.5	66	
26				90	54.5	66	
27				93	52	—	
28		20		94	55.5	70	
29				94	59	71.5	
30		16		89	57	68	
TOTALS	10.5 mm			80.6	50.6°F	60.3°F	

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE May 1951

DAY	RAINFALL (MM)	EVAPORTN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)
1				85	52.5	69.5
2				84	57	63.5
3		25.0		96	59.5	66
4	11.5			91.5	56	—
5	21.5			87	62	71.5
6	12.0			89.5	55.5	67
7	7.5			80	52.5	65.5
8				80	51	57
9		17.0		86	55.5	69.5
10				91	57	68
11				93.5	62	—
12	T		58.0	89	69.5	73.5
13		22.0		84	62.5	70
14				89.5	53.5	62.5
15				93	59.5	69
16				96	52.5	71.5
17				99	59	79.5
18				103	61.5	—
19				100.5	60.5	77
20			28.4	103	69.5	73.5
21				105	63.5	80
22				107	68	80.5
23				101.5	73.5	84
24		69.0		104	70	82.5
25				105	68	—
26				106	70	81.5
27				106	72.5	84
28				106	72	83
29				105	71	82.5
30				95	74	80.5
Tot	52.5 mm 2.06 in	59		95.5	63.5	75
TOTALS				95.2	62.1	and 73.1

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE June 1951

DAY	RAINFALL (MM)	EVAPORATN (MM.)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)	
1				97	62	—	
2				99.5	57.5	73.5	
3				103	57.5	73.5	
4				103	63	76	
5				103	63	76	
6				103	71.5	83.5	
7				103	66	83.5	
8		59.0		101.5	64	—	
9				98.5	65.5	77	
10				94	65	71.5	
11				96	63	75	
12				99	59.5	73.5	
13				97	60.5	74.5	
14				98.5	57	70	
15				99	59	—	
16		58.0		97	58.5	73.5	
17				98.5	68	79	
18				97	59	71.5	
19		25.0		102	60	75	
20				104	60	76	
21				103.5	62	75	
22				103	61	—	
23				101.5	63.5	75	
24				100.5	60	71.5	
25				102	60.5	73.5	
26				102.5	59	77	
27				107.5	62	77	
28				110.5	67	80.5	
29		78.0		110	72	—	
30		6.0		99.5	67	79	
TOTALS		226.0mm 8.40 in		AVE 101.1	62.5	75.6	

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE July 1951

DAY	RAINFALL (MM)	EVAPORATION (MM)	REL. HUM. (%)	MAX. TEMP. (°F)	MIN. TEMP. (°F)	AVE. DAILY TEMP. (°F)
1				100	67	75
2				100	66	79
3		20.0		99	59	70
4				101.5	61.5	72.5
5				102.5	67	75
6				102	63	—
7				107.5	62	—
8				110	61.5	79
9				112.5	66	86
10				112	68	87.5
11				108.3	70.8	83.6
12				109.5	68.4	90.4
13				107.5	68	—
14				107	69	83
15				107	82	89
16		81.0		108.5	71	83
17				106	68	81.5
18				100.5	65	77
19				101	64	79
20				100	66	—
21				101.5	65.5	77
22		44.0		104	68	81.5
23				108	67	80
24		16.0		108.5	72.5	87
25				107.5	71.5	86
26				107.5	73.5	89
27				107	71	—
28		33.0		104	71.5	81.5
29				103	71.5	84
30				107	70	81
		25.0		103	71	81.5
TOTALS		219.0 mm 8.65 inches		105.3	67.7	81.5 ave

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE August 1951

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1				105	68	82.5	
2				107	68	80.5	
3				111	70	—	
4				107.5	71	84	
5				107.5	73.5	86	✓
6		28.0		108.5	72.5	82.5	
7				108.5	73.5	84	
8		13.0		107.5	73.5	86	
9				107	78	90.5	
10				107.5	77	—	
11		16.0		107.5	76	84	
12				97	70	77	
13				97.5	68	79	
14				99.5	67	77	
15		29.0		98.5	66	77	✓
16				96	64	72.5	
17				96.5	62	—	✓
18		23.0		94	61	73.5	
19				95	57.5	75	
20				99.5	66	77	
21				96	67.5	75	
22				96	63.5	76	
23		35.0		94.5	62.5	77	
24				95	62	—	
25				93	62.5	75	
26				92.5	59	71	
27				90.5	58	70	
28				93	57	71	
29				91.5	58	73.5	
30				93	54	68	
		56.0		93.5	54	—	
TOTALS		200.mm 7.80 in		99.7	66.0	78.0	

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE Sept. 1951

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1				94	53	70	
2				96	57	72	
3				97	60	71	
4				97	61	71	
5		26.0		95	61	71	
6				90	60	66	
7				91	55	—	
8				92	53	71	
9				90	57	66	
10				88	54	65	
11				90	57	66	
12		41.0		92	54	65	
13				95	59	66	
14				96	58	—	
15				93	57	67	
16		26.0		95	63	70	
17				96	63	71	
18				93	63	70	
19				95	61	68	
20				95	58	66	
21				94	54	—	
22				95	54	68	
23				95	62	72	
24		46.0		93	62	71	
25		6.0		94	57	68	
26				95	57	67	
27				93	57	67	
28				94	57	—	
29				90	57	68	
30		20.0		86	52	61	
31							
TOTALS		165.0 6.50 in		93.3°	55.9°	68.2 ave	

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE Oct. 1951

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP. (°F)	MIN. TEMP. (°F)	AVE. DAILY TEMP. (°F)	
1				87	52	62	
2				89	52	63	
3				92	58	66	
4		20.00		93	59	63	
5				93	56	—	
6				94	56	65	
7				91	61	70	
8		21.0		92	61	66	
9				91	57	66	
10				91	57	64	
11				93	57	66	
12				93	58	—	
13		26.0		89	55	70	
14				92	51	65	
15				87	53	65	
16				85	50	60	
17				78	49	57	
18		17.0		84	49	57	
19				83	50	59	
20				85	50	62	✓
21				84	48	62	
22				84	51	63	
23		29.0		82	53	58	
24				84	53	63	
25				82	57	—	
26	0.5mm	9.0		78	57	64	
27				77	55	61	
28				77	46	54	
29				78	46	53	
30		26.0		77	45	52	
31							
TOTALS	0.02 Trace	148mm 6.50"		are 86.1°F	53.7°F	62.10°F	

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE Nov. 1951

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1				77	46	52	
2				77	44	—	
3				72	44	51	
4				73	46	50	
5				73	43	50	
6				77	42	48	
7		19.0		73	40	46	
8				75	40	46	
9				75	40	—	
10				79	40	50	
11				70	45	50	
12				66	34	37	
13				68	33	40	
14				66	30	37	
15	Snow	30.0		68	32	38	
16				68	32	—	
17				72	32	38	
18				68	31	37	
19	Rain			66	31	37	
20				66	31	37	
21				63	30	36	
22				68	31	36	
23		32.0		68	34	—	
24				64	34	45	
25				62	33	37	
26				60	30	34	
27		18.0		63	28	35	
28				64	36	41	
29				64	31	35	
30		15.0		64	28	—	
TOTALS		114mm 4.49"		69.1	35.8	41.8°F Ave	

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max min DATE Dec. 1957

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)		MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1			50	40				
2			55	33				
3			45	25				
4			52	31				
5			60	32				
6			38	18				
7			40	24				
8			36	28				
9								
10			No					
11			Record					
12								
13								
14								
15								
16								
17			45	23				
18			50	29				
19			63	32				
20			47	25				
21			40	18				
22			44	28				
23			63	45				
24			70	36				
25			77	55				
26			76	58				
27			78	58				
28			77	50				
29			78	55				
30			88	55				
31			95	88				
TOTALS								

MONTHLY METEOROLOGICAL REPORT

STATION KANDAHAR Max Min. DATE Jan 1952

DAY	RAINFALL (MM)	EVAPORTN (MM)	REL HUM (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	8 A.M. TEMP. (°F)	
1			95	82	45	20	—	
2			94	76	39	20	22	
3			94	84	60	20	23	
4	1.5	12	94	84	66	23	—	
5	6.0	2	94	86	50	23	32	
6	11.5		93	93	50	32	36	
7			95	94	46	33	36	
8			94	82	45	29	31	
9			88	55	50	28	32	
10			95	71	55	30	31	
11			91	54	55	31	—	
12	7.0	9	91	76	59	31	43	
13			85	43	49	40	40	
14			92	46	46	27	28	
15			92	55	46	26	27	
16			94	52	48	25	27	
17			86	28	59	27	37	
18			87	21	66	30	—	
19	8.0	21	90	51	62	30	52	
20			93	81	57	42	43	
21			95	91	57	36	37	
22			95	89	57	33	36	
23			95	68	61	32	34	
24			95	64	64	34	36	
25			93	59	64	33	—	
26	1.0	15	95	70	63	33	43	
27			86	54	54	43	43	
28	9.1		91	82	57	43	47	
29	4.5		91	88	54	43	46	
30			94	76	61	42	44	
31		12	94	54	63	39	41	
TOTALS	48.6 mm = 1.91"	91 mm = 2.79"			55.1°	31.5°	36.5°	

MONTHLY METEOROLOGICAL REPORT

STATION KANDAHAR Max Min. DATE Jan. 1952

DAY	RAINFALL (MM)	EVAPORTN (MM)	REL HUM (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	8 A.M. TEMP. (°F)	
1			95	82	45	20	—	
2			94	76	39	20	22	
3			94	84	60	20	23	
4	1.5	12	94	84	66	23	—	
5	6.0	2	94	86	50	23	32	
6	11.5		93	93	50	32	36	
7			95	94	46	33	36	
8			94	82	45	29	31	
9			88	55	50	28	32	
10			95	71	55	30	31	
11			91	54	55	31	—	
12	7.0	9	91	76	59	31	43	
13			85	43	49	40	40	
14			92	46	46	27	28	
15			92	55	46	26	27	
16			94	52	48	25	27	
17			86	28	59	27	37	
18			87	21	66	30	—	
19	8.0	21	90	51	62	30	52	
20			93	81	57	42	43	
21			95	91	57	36	37	
22			95	89	57	33	36	
23			95	68	61	32	34	
24			95	64	64	34	36	
25			93	59	64	33	—	
26	1.0	15	95	70	63	33	43	
27			86	54	54	43	43	
28	9.1		91	82	57	43	47	
29	4.5		91	88	54	43	46	
30			94	76	61	42	44	
31		12	94	54	63	39	41	
TOTALS	48.6 mm = 1.91"	91 mm = 2.79"			55.1°	31.5°	36.5°	

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE Febr. 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL HUM (%) Max.	REL HUM (%) Min.	MAX TEMP. (°F)	MIN. TEMP. (°F)	8 A.M. TEMP. (°F)	
1			91	46	63	36	—	
2	2.5	6	91	73	59	36	45	
3	0.5		90	70	57	42	45	
4		4	94	75	57	35	37	
5			94	65	63	37	40	
6		5	95	63	63	37	39	
7			95	54	64	37	39	
8			91	41	65	37	—	
9			93	45	66	37	41	
10		13	93	35	68	37	43	
11			66	36	74	43	51	
12	4.0	9	86	50	64	56	58	
13	15.5		86	43	70	50	54	
14	12.3		91	41	60	50	50	
15		5	87	44	58	30	—	
16			87	52	52	30	36	
17			90	44	54	32	36	
18			90	36	56	32	36	
19		17	88	31	56	32	36	
20			89	26	60	32	36	
21			87	32	66	34	38	
22			86	27	66	36	—	
23		34	86	30	72	36	44	
24			64	29	74	44	50	
25			85	29	70	40	44	
26		10	89	29	72	42	46	
27			72	34	76	46	54	
28	1.0		85	41	68	48	52	
29		12	85	22	68	38	—	
30								
31								
TOTALS	35.8 mm 1.41 inch	115 mm = 4.54			64.2	38.7	43.8	

V

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max | Min. DATE March 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL HUM (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	8 A.M. TEMP. (°F)	
1			85	22	66	38	44	
2			77	27	70	38	44	
3	2.0	11	84	38	76	44	58	
4	T		87	36	74	54	56	
5		6	87	18	72	48	54	
6			83	10	70	44	48	
7			56	28	65	32	–	
8		13	77	23	67	32	40	
9			80	18	68	38	45	
10			66	23	72	40	48	
11			56	23	77	45	54	
12	19.0	23	88	35	80	52	62	
13	1.0		82	34	65	52	54	
14		12	79	26	68	42	—	
15			80	13	64	42	45	
16			74	16	66	38	49	
17		9	80	19	74	40	46	
18			79	12	78	44	52	
19			64	14	82	50	58	
20	3.0	20	77	26	82	56	62	
21			83	7	82	42	—	
22			58	25	74	42	50	
23			69	24	80	46	56	
24			no record		84	49	56	
25	T	25		23	86	54	70	
26	6.0		81	58	74	62	64	
27		5	82	7	78	54	62	
28			68	12	76	46	—	
29			65	21	76	46	56	
30			63	28	78	52	59	
31		22	76	21	76	52	60	
TOTALS	31.0 mm 1.22"	146 mm 5.75			74.2°	44.4°	53.6°	

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max Min. DATE April 1 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL HUM (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	8 A.M. TEMP. (°F)	
1			62	21	80	50	60	
2			57	15	84	50	62	
3			73	34	80	60	68	
4	5.0	13	82	43	75	54	—	
5	3.0		82	34	78	52	62	
6			80	36	80	56	62	
7			77	26	84	54	64	
8			75	18	88	53	66	
9			68	15	88	56	64	
10			59	19	89	54	66	
11			54	22	90	54	—	
12			58	21	94	61	72	
13			52	15	94	64	76	
14			43	16	94	67	82	
15			46	15	97	69	79	
16	0.5	70	42	27	95	68	79	
17			65	28	94	64	79	
18			50	31	94	64	—	
19		13	57	24	88	56	72	
20			51	5	88	52	68	
21			35	10	90	54	66	
22			33	11	94	58	68	
23			35	11	96	66	72	
24			38	17	97	66	76	
25			37	21	96	66	—	
26	1.0	40	49	25	92	65	76	
27			64	18	88	64	68	
28			40	15	90	62	73	
29			40	10	90	60	74	
30		39	46	11	90	59	76	
31								
TOTALS	9.5 mm 0.37	175 mm 6.90			89.3	59.2	70.5	

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE May 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL HUM (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	8 A.M. TEMP. (°F)	
1	1.0		31	13	97	60	76	
2			55	31	96	61	—	
3			66	26	90	68	74	
4			54	14	88	60	74	
5		25	44	16	94	62	72	
6			38	10	96	62	74	
7			42	17	96	58	76	
8			45	25	97	62	78	
9	T		55	16	96	60	—	
10			38	15	94	62	76	
11			32	1	100	66	78	
12			22	1	96	58	82	
13	T		14	1	85	52	68	
14			27	9	84	55	66	
15			32	1	90	54	66	
16			14	1	92	54	—	
17		88	17	1	92	54	72	
18			18	3	96	60	72	
19			26	12	98	63	80	
20			27	8	100	62	82	
21			23	5	102	66	80	
22			26	4	—	—	82	
23			23	6	102	62	—	
24			29	1	103	63	—	
25			27	1	106	64	—	
26		61	17	1	104	68	86	
27			10	1	98	66	82	
28			14	3	98	66	78	
29			11	1	100	70	82	
30			16	1	101	73	—	
31			10	1	105	68	90	
TOTALS	1mm 0.047				96.5°	62.0°	76.9	

V

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max/Min DATE June 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL HUM (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	8 A.M. TEMP. (°F)	
1			14	1	106	68	88	
2			11	1	106	70	84	
3			18	5	103	66	82	
4	7	30	28	3	100	63	80	
5	8		21	1	96	63	76	
6	6		14	1	100	60	—	
7		2	16	2	99	60	77	
8			21	1	102	68	78	
9			18	1	102	62	84	
10			14	2	105	71	80	
11		32	17	7	103	70	84	
12			22	1	106	71	84	
13			25	1	112	72	—	
14			15	1	112	73	88	
15			9	1	110	70	88	
16		42	8	1	108	74	86	
17			8	1	112	76	92	
18			15	1	112	76	88	
19			16	1	112	76	90	
20		27	18	1	114	76	—	
21			14	1	112	76	92	
22			16	1	110	82	90	
23		24	21	1	108	78	90	
24			15	1	108	72	90	
25		20	13	1	106	78	86	
26			15	1	107	72	92	
27			17	1	108	72	—	
28		26	10	1	107	70	86	
29			10	1	106	70	88	
30			19	1	102	70	86	
31		29						
TOTALS	6	251 mm 9.90"			106.3°	70.7°	85.8°	

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar DATE July 1952

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL HUM (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	8 A.M. TEMP. (°F)	
1			15	1	103	68	88	
2			15	1	104	70	86	
3		30	16	2	106	74	86	
4			16	1	108	72	—	
5			13	2	108	74	86	
6			15	1	110	76	90	
7			14	1	110	74	90	
8			10	1	106	73	86	
9			15	1	104	72	86	
10			13	1	110	74	86	
11			13	1	112	74	—	
12			10	1	108	77	88	
13			14	4	108	76	90	
14			20	11	104	76	90	
15		95	32	13	100	76	84	
16			32	6	102	72	86	
17			24	6	107	72	84	
18			21	2	108	70	—	
19			32	6	108	80	91	
20	Trace		35	2	108	81	91	
21	Trace		32	11	106	81	90	
22			32	15	104	80	88	
23			46	8	104	80	88	
24			35	4	104	80	—	
25			28	1	106	74	—	
26			19	1	104	73	86	
27		100	16	6	104	72	86	
28			22	7	104	74	84	
29			27	6	106	72	86	
30			31	5	105	68	86	
31		40	24	4	105	70	82	
TOTALS					106.1	74.7	87.1	

STATION Kandahar DATE August 1952

DAY	RAINFALL (MM)	EVAPORATION (MM)	REL. HUM. (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	AVE. DAILY TEMP. (°F)	
1			26	3	106	70	—	
2			26	8	108	74	83	
3			23	8	108	74	86	
4			33	14	102	72	83	
5		↓	34	15	102	73	82	
6		57	32	15	102	72	83	
7			34	14	103	70	84	
8			29	10	102	70	—	
9			32	12	102	68	82	
10	T		15	13	102	70	80	
11	T		35	12	100	68	82	
12	T		27	10	100	68	80	
13	T		31	11	100	68	78	
14			31	12	103	70	80	
15			28	11	104	70	—	
16			25	12	106	74	84	
17			40	20	100	70	80	
18			40	19	100	70	80	
19		↓	40	18	101	70	80	
20		114	37	15	101	68	82	
21			34	15	100	68	82	
22			34	20	98	68	—	
23			37	20	100	66	78	
24			36	9	98	65	80	
25			25	6	98	65	78	
26			29	6	101	66	78	
27			27	16	96	66	76	
28			30	15	96	65	78	
29			31	11	96	64	—	
30			28	10	98	66	78	
31		↓ 89	35	7	100	64	78	
TOTALS		260 mm 10.24"			101.10	68.8	80.6	

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max min DATE Sept 1952

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)		MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1		↓	25	5	100	62	78	
2		17	24	6	100	65	74	
3			23	3	98	66	76	
4			20	6	98	64	76	
5			27	9	98	64	—	
6			22	7	98	58	76	
7			28	18	90	60	70	
8			40	17	98	60	70	
9			34	16	90	56	70	
10			34	13	89	58	70	
11			31	13	90	54	69	
12			28	11	88	54	—	
13			26	13	87	52	66	
14		↓	27	12	90	54	68	
15		80	24	9	90	64	68	
16			25	11	93	58	66	
17			25	9	95	57	69	
18			34	10	95	57	70	
19			39	20	90	57	—	
20			47	22	85	57	66	
21			40	19	87	59	67	
22			32	14	88	56	66	
23			28	8	91	53	66	
24			27	6	90	51	63	
25			22	5	90	51	61	
26			25	5	89	49	—	
27			30	7	88	56	70	
28			32	9	88	54	71	
29			34	11	89	56	60	
30		40	29	11	87	52	61	
31					2749	1714	1789	
TOTALS		137 mm 5.40 in.			88.7	55.3°	66.2°	

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max Min DATE Oct. 1952

Day	Rainfall (MM)	Evaporation (MM)	Rel. Hum. (%)		Max. Temp (°F)	Min. Temp (°F)	Ave. Daily Temp. (°F)	
1			30	11	87	51	59	
2		no periods	30	12	89	52	58	
3			32	9	86	50		
4		4.1	42	22	81	58	60	
5	Trace		47	23	81	64	62	
6		1.6	45	24	86	56	74	
7			48	21	85	54	72	
8			35	11	86	52	66	
9		1.7	25	8	85	50	62	
10			27	8	84	46	—	
11			30	11	79	45	60	
12			28	11	80	49	64	
13		2.9	26	11	79	46	60	
14			28	10	77	45	59	
15			32	13	78	43	56	
16		1.7	32	11	77	44	53	
17			27	10	78	93	~~5~~	
18			32	13	76	46	58	
19		1.6	36	21	73	45	55	
20			35	18	73	40	56	
21		.8	34	16	71	39	56	
22			32	12	68	34	48	
23		1.1	36	13	73	36	44	
24			32	12	72	36	—	
25			26	12	71	38	44	
26		.5	24	14	74	38	48	
27		.5	32	12	76	43	46	
28		.2	26	11	76	40	49	
29			29	12	75	39	47	
30		.9	32	12	76	40	48	
31			32	16	76	40		
Totals	Trace	17.6 mm 6.9 in			87.83	45.2		

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max Min DATE Nov. 1952

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)		MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1			39	18	72	38	50	
2			38	14	74	37	46	
3		9	38	14	74	38	44	
4			33	15	72	40	46	
5		4	33	14	74	41	44	
6			35	15	74	42	48	
7		6	32	15	75	40	—	
8			33	15	74	42	46	
9		6	30	13	70	40	47	
10			31	22	68	39	—	
11		6	41	26	65	35	44	
12			46	20	65	35	42	
13			36	10	72	35	42	
14		7	31	8	75	37	42	
15			50	14	74	46	50	
16		7	67	37	65	40	43	
17			71	34	66	37	44	
18			70	32	65	33	34	
19		3	72	30	64	30	34	
20			65	29	65	32	34	
21		5	60	18	68	33	36	
22			50	10	75	34	38	
23		5	45	21	68	33	38	
24			56	26	64	34	38	
25			53	22	62	32	34	
26			52	21	65	28	38	
27			54	16	68	26	32	
28		9	80	14	66	29	32	
29	Trace		80	27	60	32	32	
30			73	27	66	32	32	
31					2075	1067	33	
TOTALS		ave 2.6 in			69.2	35.6		

MONTHLY METEOROLOGICAL REPORT ✓

STATION Kandahar Max. Min. DATE Dec. 1952

DAY	RAINFALL (MM)	EVAPORATION (MM)	RELATIVE HUM. (%)		MAX. TEMP. (°F)	MIN. TEMP. (°F)	AVE. DAILY TEMP. (°F)	
1			73	28	66	33	35	
2		6	79	37	65	31	37	
3			80	31	66	30	36	
4			75	28	70	32	38	
5		3	74	36	67	33	40	
6			84	43	62	32	40	
7			84	27	60	32	38	
8			69	28	58	23	30	
9		16	70	30	61	22	30	
10			69	28	63	25	32	
11			69	19	70	28	33	
12			59	27	64	30	36	
13			72	33	58	29	30	
14			73	32	60	29	30	
15		1	82	31	58	30	30	
16			85	47	60	45	45	
17			85	62	52	35	36	
18			85	45	48	25	25	
19			83	32	50	19	20	
20			80	35	50	18	19	
21			79	35	52	21	21	
22		18	67	37	55	28	28	
23			79	36	53	21	22	
24			71	39	52	25	32	
25			85	49	58	27	28	
26			86	49	58	25	25	
27			85	41	60	24	26	
28			84	39	62	24	26	
29			81	54	58	44	48	
30		2	90	77	57	44	46	
31			90	59	55	38	39	
TOTALS		46 1.8 in.			59°	29°	33°	

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max | Min. DATE Jan. 1953

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)		MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1			88	48	55	29	29	
2			89	46	54	22	25	
3			90	45	55	21	26	
4			90	31	54	22	24	
5			70	16	59	19	22	
6		15	69	12	62	18	22	
7			56	16	67	23	25	
8			63	21	68	26	30	
9			65	25	70	27	30	
10			60	36	65	33	38	
11			64	22	66	42	44	
12		3	60	31	66	45	48	
13	18.5		80	49	53	43	46	
14	1.5		77	20	53	36	36	
15			82	35	55	32	36	
16		9	82	22	60	29	34	
17			85	34	55	28	33	
18	1		85	33	52	38	41	
19			84	27	50	28	29	
20			82	26	51	26	31	
21			85	32	55	31	31	
22			85	33	57	30	32	
23		3	78	40	58	35	35	
24			85	29	64	42	49	
25			80	22	69	49	49	
26			85	28	65	43	44	
27		9	89	31	62	32	35	
28			85	27	55	27	32	
29			81	27	55	25	30	
30		7	83	29	59	28	32	
31			79	16	64	35	40	
TOTALS	21 mm .83 in	46 mm 1.8 in						

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max min DATE Febr. 1953

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)		MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1			79	16	66	34	38	
2			82	34	60	46	50	
3	5		84	60	62	48	48	
4	5		85	28	61	36	38	
5			85	32	62	33	36	
6			81	26	67	37	44	
7	7		85	43	68	48	46	
8	2.5		86	75	62	49	49	
9	12.5		89	86	57	44	41	
10	26.5		89	83	48	42	42	
11	? T		89	64	54	40	43	
12	8		90	85	48	45	46	
13	12.5		90	66	64	46	48	
14	9		87	70	56	47	47	
15			90	60	56	36	38	
16			90	70	59	37	40	
17			90	70	60	39	42	
18			90	68	64	37	42	
19			90	72	66	38	40	
20			90	78	72	38	40	
21			90	76	69	53	54	
22			92	72	66	52	52	
23			92	62	76	46	52	
24			91	58	76	45	50	
25			95	58	85	48	55	
26			94	70	78	49	58	
27			94	62	83	49	58	
28			95	64	84	49	58	
29								
30		Total			Ave 65.3	43.1	43.4	
31	83mm	48mm						
TOTALS	3.25in	1.89in						

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max min DATE March 1953

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)		MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1			97	76	79	51	60	
2		15	97	69	80	46	52	
3			97	61	89	49	54	
4	.5		97	90	78	54	60	
5	.5		97	87	85	60	63	
6		8	97	82	80	61	64	
7			98	78	75	47	54	
8			97	15	76	42	48	
9		15	72	15	84	47	58	
10			62	28	66	44	50	
11			71	24	64	36	42	
12			71	12	70	39	47	
13		20	61	6	79	39	48	
14			48	8	82	59	62	
15			39	14	71	51	56	
16			62	16	69	47	54	
17			63	13	76	43	50	
18			58	25	74	50	55	
19		22	68	22	74	44	52	
20			70	23	76	44	54	
21			62	15	90	54	62	
22	.5	8	62	31	77	63	68	
23			77	23	75	58	60	
24	5.5		75	20	81	56	60	
25			74	12	78	55	62	
26		27	60	12	62	51	57	
27			66	10	63	32	44	
28			28	11	65	48	52	
29		9	53	12	63	33	40	
30			50	5	74	36	46	
31			56	3	80	37	50	
TOTALS	7.0 .28"	113 mm 4.4 in			97.6°F	54.3°F		

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION Kandahar Max Min DATE April 1953

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL HUM. (%)		MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1			54	11	79	45	45	
2			65	27	82	50	60	
3		12	52	29	84	53	62	
4			58	22	90	53	60	
5		10	65	26	90	56	66	
6			60	25	89	58	66	
7			61	31	87	59	65	
8			69	35	87	65	72	
9		22	75	33	86	58	66	
10			77	36	84	60	66	
11	2		88	61	72	60	61	
12	7		88	50	73	53	59	
13		9	75	36	72	50	60	
14		13	84	28	78	48	58	
15			71	27	82	50	62	
16			61	22	85	51	66	
17		21	64	26	82	50	64	
18			73	30	76	46	57	
19			65	25	75	46	56	
20			62	22	80	42	60	
21			70	25	83	44	60	
22			60	25	92	48	64	
23		33	64	28	93	53	69	
24			71	30	94	55	69	
25			62	25	99	59	77	
26			61	25	96	59	70	
27		18	45	15	97	61	74	
28			35	11	98	69	80	
29			35	12	95	66	77	
30		38	35	10	92	57	69	
TOTALS	9 mm .35 in	187 mm 7.4 in			AVE 85.7°F	54.1°F		

Factors of climate for Farah, located in latitude 62°, longitude 32° 10', 1944-46 1/

Month	Precipitation	Air temperature		
		Maximum	Minimum	Extremes
	mm.	°F	°F	
January	26.5	62.96	41.72	17.06 on 1/10/45
February	23.4	75.02	40.64	26.96 on 2/8/45
March	10.5	84.74	47.66	31.46 on 3/4/45
April	1.0	89.24	55.22	36.86 on 4/1/45
May	1.3	99.32	64.94	51.98 on 5/3/44
June	0.0	104.36	69.26	114.8 recorded as high
July	0.0	106.88	80.60	114.98 on 7/8/44
August	0.0	103.64	71.06	112.28 on 8/22/45
September	0.0	95.36	60.26	115.88 on 9/14/45 49.64 recorded as min.
October	0.0	86.36	49.64	40.28 on 10/21/45
November	2/15.0	81.68	50.90	35.42 on 11/8/44
December	2/40.0	2/70.70	2/ 47.30	14.36 on 12/1/45
Total	117.7 (4.6 in.)			

1/ Data for humidity and wind velocity not available.
2/ Data available for 1945 only.

Factors of climate for Farah located in latitude 62°, longitude 32°-10' for the three year period 1944, 1945 + 1946. The table below indicates the mean monthly averages except for extremes and as otherwise shown. (3)

Month	Precipitation in mm.	Air Temperature Max.	Air Temperature Min.	Air Temperature Extremes
Jan.	26.5	17.2	5.4	-8.3 on 1/10/45
Febr.	23.4	23.9	4.8	-2.8 on 2/8/45
March.	10.5	29.3	8.7	-0.3 on 3/4/45
April	1.0	31.8	12.9	2.7 on 4/1/45
May	1.3	37.4	18.3	11.1 on 5/3/44
June	0	40.2	20.7	46.0 recorded as high
July	0	41.6	27.0	46.1 on 7/8/44
Aug	0	39.8	21.7	44.6 on 8/22/45
Sept	0	35.2	15.7	46.6 on 9/14/45 9.8 recorded as min.
Oct.	0	30.2	9.8	4.6 on 10/21/45
Nov.	15 (1)	27.6	10.5	1.9 on 11/8/44
Dec	40 (1)	21.5 (2)	8.5 (2)	-9.8 on 12/1/45
	112.7 (4.6 in.)			

Data compiled from Afghan records.

(1) Data available for 1945 only

(3) " for humidity and wind velocity not available.

(2) Data available for year 1945 only

Factors of climate for Farah, located in latitude 62°, longitude 32 10', 1944-46 1/

Month	Precipitation	Air temperature		
		Maximum	Minimum	Extremes
	mm.	°F	°F	
January	26.5	62.96 ~~17.2~~	41.72 ~~5.4~~	17.96 ~~-8.3~~ on 1/10/45
February	23.4	75.02 ~~23.9~~	40.64 ~~4.8~~	26.96 ~~-2.8~~ on 2/8/45
March	10.5	84.74 ~~29.3~~	47.66 ~~8.7~~	31.46 ~~-0.3~~ on 3/4/45
April	1.0	89.24 ~~31.8~~	55.22 ~~12.9~~	36.86 ~~2.7~~ on 4/1/45
May	1.3	99.32 ~~37.4~~	64.94 ~~18.3~~	51.98 ~~11.1~~ on 5/3/44
June	0.0	104.36 ~~40.2~~	69.26 ~~20.7~~	114.8 ~~46.0~~ recorded as high
July	0.0	106.88 ~~41.6~~	80.60 ~~27.0~~	114.98 ~~46.1~~ on 7/8/44
August	0.0	103.64 ~~39.8~~	71.06 ~~21.7~~	112.28 ~~44.6~~ on 8/22/45
September	0.0	95.36 ~~35.2~~	60.26 ~~15.7~~	105.88 ~~41.6~~ on 9/14/45
October	0.0	86.36 ~~30.2~~	49.64 ~~9.8~~	40.28 ~~4.6~~ on 10/21/45
November	2/15.0	81.68 ~~27.6~~	50.90 ~~10.5~~	35.42 ~~1.9~~ on 11/8/44
December	2/40.0	70.70 2/~~21.5~~	47.30 2/~~8.5~~	14.36 ~~-9.8~~ on 12/1/45
Total	117.7 (4.6 in.)			

1/ Data for humidity and wind velocity not available.
2/ Data available for 1945 only.

R.K.S. 7/27

Farah – From Afghan records, meteorological bureau – Kabul Dr. Stern

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION Farah DATE 1944

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
Jan 1			1944				
Febr 2	15.3			18.9	2.7	min 2.5	on 7th & 9th
Mar 3	7.7			24.6	9.3	" 2.5	on 1st
April 4	0.0			30.1	13.3	" 7.5	on 6th
May 5	0.9			36.6	18.9	" 11.1	on 3rd
June 6	0			39.9	22.7	max 42.5	on 30th
July 7	0			43.7	25.2	" 46.1	on 8th
Aug 8	0			40.6	22.9	" 43.6	on 12th
Sept 9	0			34.7	16.3	" 39.7	on 1st
Oct 10	0			30.9	10.4	min 8.9	on 24th
Nov 11				30.4	10.4	" 1.9	on 8th
Dec 12			no record.				
13							
14			1945			Extremes	
Jan 15	30.9			12.9	2.6	min −8.3	/ 10th
Febr 16	6.8			17.9	2.2	" −2.8	/ on 8th
Mar 17	11.6			24.9	7.3	" −0.3	on 4th
April 18	3.0			34.4	15.6	" 2.7	on 1st
May 19	—						
Jun 20							
July 21	0			40.3	28.7	max 45.7	on 14
Aug 22	0			33.7	18.7	" 44.6	on 22
Sept 23	0			35.7	15.1	" 46.6	on 14
Oct 24	0			29.4	9.2	min 4.6	on 21
Nov 25	15			24.7	10.7	" 4.6	on 25
Dec 26	40			21.5	8.5	4.0	on 1
27							
28							
29							
30							

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE _____

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	
1			Farah				
2			1946				
Jan 3	22.0			21.5	8.3	max - 38.7 min 7.7 - min	
Febr 4	48.2 -	?		35.1	9.5	9.7 - min	
March 5	12.1 +	?		38.3	11.3	max - 46.7 min 4.6	
April 6	0			30.9	9.7	max 20.0 min 7.8	
May 7	0			38.2	17.7	max 44.9	
June 8	0			40.4	18.6	max 46.0	
July 9	0			40.7	24.7	" 44.8	
Aug 10	0			36.1	23.5	max 41.6	
Sept 11	0			37.6	15.8	min - 9.8	
Oct 12	0						
Nov 13							
Dec 14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Factors of Climate for Herat, located in latitude 62° 10', longitude 34° 20', 1941-48

Month	Precipitation	Relative humidity I 7:00 AM	Relative humidity II 1:00 PM	Relative humidity III 9:00 PM	Air temperature Maximum	Air temperature Minimum	Air temperature Extremes	Wind velocity
	mm.				°F	°F		Mi. per hr.
January	62.0	72.4	49.0	71.2	50.1	~~33.1~~ 30.9	~~29.4~~ 68.72 on 1/3/42 and 1/5/48; ~~-27.5~~ 6.6 on 1/19/43	4.3
February	33.3	73.1	35.6	63.3	54.3	33.8	~~25.3~~ 41.1 on 2/29/48; ~~-10.8~~ 12.66 on 2/3/43	3.6
March	38.7	68.7	36.6	61.6	64.0	40.8	~~31.1~~ 89.98 on 3/30/46; ~~-4.9~~ 23.18 on 3/9/48	3.9
April	8.7	64.8	30.8	50.0	77.7	47.7	~~34.5~~ 94.1 on 4/17/44; ~~-3.4~~ 25.88 on 4/1/45	3.8
May	4.3	56.2	25.4	40.6	87.3	56.1	~~39.2~~ 102.56 on 5/24/44; ~~3.9~~ 39.02 on 5/6/45	3.6
June	0.0	43.4	20.6	25.2	93.6	64.4	~~40.2~~ 104.36 on 6/26/45; ~~8.0~~ 46.4 on 6/7/45	5.2
July	0.0	32.1	17.6	19.5	97.3	72.3	~~43.2~~ 105.76 on 7/8/44; ~~13.9~~ 57.05 on 7/31/47	6.6
August	0.0	31.0	18.6	22.6	94.5	70.5	~~42.4~~ 108.32 on 8/1/41; ~~10.9~~ 51.62 on 8/30/47	7.9
September	0.0	39.7	20.3	26.6	90.1	56.3	~~39.4~~ 102.92 on 9/5/48; ~~3.5~~ 38.3 on 9/20/42	5.2
October	0.01	59.5	26.5	52.3	81.1	44.4	~~36.7~~ 98.06 on 10/1/41; ~~-8.1~~ 28.22 on 10/27/45	2.9
November	7.9	68.3	31.7	54.7	66.9	35.4	~~29.1~~ 84.38 on 11/10/47; ~~-10.3~~ 50.54 on 11/28/46	2.8
December	33.7	73.3	46.2	69.4	51.1	32.2	~~21.7~~ 71.06 on 12/17/43; ~~-21.9~~ -7.42 on 12/21/48	2.7
Total	188.61 (7.43 in.)							

Data compiled from Afghan weather records.

Factors of climate for Herat, located in latitude 62°-10', longitude 34°-20' for the eight year period 1941 to 1948 inc, table below indicating 8 year monthly mean average except for extreme records for period

Month	Precipitation in mm.	Relative Humidity I 7 a.m.	Relative Humidity II 1:00 p.m.	Relative Humidity III 9:00 p.m.	Air Temperature Degrees Fahrenheit Max.	Air Temperature Min.	Extremes	Wind Velocity Miles per hr.
Jan	62.0	72.4	49.0	71.2	50.0 / 10.0	30.9 / -0.6	20.4 on 1/3/42 and 1/5/48 / -17.5 on 1/19/43	4.3
Febr	33.3	73.1	35.6	63.3	54.3 / 12.4	33.8 / 1.0	25.3 on 2/29/48 / -10.8 on 2/3/43	3.6
March	38.7	68.7	36.6	61.6	64.0 / 17.8	40.8 / 4.9	31.1 on 3/30/46 / -4.9 on 3/9/48	3.9
April	8.7	64.8	30.8	50.0	77.7 / 25.4	47.7 / 8.7	34.5 on 4/17/44 / -3.4 on 4/1/45	3.8
May	4.3	56.2	25.4	40.6	87.3 / 30.7	56.1 / 13.4	39.2 on 5/24/44 / 3.9 on 5/6/45	3.6
June	0.0	43.4	20.6	25.2	93.6 / 34.2	64.4 / 18.0	40.2 on 6/26/45 / 8.0 on 6/7/45	5.2
July	0.0	32.1	17.6	19.5	97.8 / 36.3	72.32 / 22.4	43.2 on 7/8/44 / 13.9 on 7/31/47	6.6
August	0.0	31.0	18.6	22.6	94.5 / 34.7	70.5 / 21.4	42.4 on 8/1/41 / 10.9 on 8/30/47	7.9
September	0.0	39.7	20.3	26.6	90.1 / 32.3	56.3 / 13.5	39.4 on 9/5/48 / 3.5 on 9/20/42	5.2
October	0.01	59.5	26.5	52.3	81.1 / 27.3	44.4 / 6.9	36.7 on 10/1/41 / -2.1 on 10/27/45	2.9
November	7.9	68.3	31.7	54.7	66.9 / 19.4	35.4 / 1.9	29.1 on 11/10/47 / -10.3 on 11/28/46	2.8
December	33.7	73.3	46.2	69.4	51.1 / 10.6	32.2 / 0.1	21.7 on 12/17/43 / -21.9 on 12/21/48	2.7
Total	188.61 (7.43 in)	—	—	—	—	—	—	—

Data compiled from Afghan Weather Records

I - 7a (R.K.S 7/27) Herat - Afghan Records, Dr Sterg
II - 1p
III - 9P

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE _____

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%) I II III	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	Wind
1			Herat - 1941				
Jan 2							
Febr 3							
Mar 4							
April 5						Extreme	
May 6							mean ave
June 7							miles per hr.
July 8	0		28 15 18	36.2	20.6	42.0 / 31 14.3 / 20	6.3
Aug 9	0		28 15 21	35.5	21.0	42.4 / 1 12.3 / 27	9.1
Sept 10	0		31 15 25	31.8	14.5	35.9 - 30 8.8 - 24	5.5
Oct 11	0		46.5 19 46	28.9	8.9	36.7 - 1 3.2 - 26	1.5
Nov 12	16.0		63 27 49	20.5	-2.2	29.0 - 11 -8.0 - 1.9	1.9
Dec 13	33.4		77 51 74	13.8	1.3	20.1 - 4 -8.0 - 10	2.0
14							
15			Herat	1942			
Jan 16	93.4		76 51 73	11.9	1.5	20.4 - 3 -6.5 - 8	7.1
Febr 17	44.9		87 53 76	10.8	0.5	17.9 - 28 -4.2 - 16	3.1
Mar 18	59.2		71 39 74	20.1	5.3	29.9 - 30 -3.3 - 10	
Apr 19							
May 20							
June 21							
July 22							
Aug 23	0		26 18 22	32.9	18.5	36.0 - 23 9.5 - 31	9.4
Sept 24	0		35 17 25	—	10.6	39.9 - 11 3.5 - 20	7.3
Oct 25	0.8		57 24 44	—	6.3	-0.7 - 27	3.0
Nov 26	21.9		68 35 58	21.0	3.9	28.5 - 4 -2.3 - 13	2.9
Dec 27				10.9	2.7	19.9 - 5 -12.1 - 28	1.7
28							
29							

Impossible

Herat

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE _____

DAY	RAINFALL (MM)	EVAPORATN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	mean ave wind
			1943				
Jan 2	63.5 - ?		71 61 83	8.1	-4.4	15.9 - 8 -17.5 - 19	3.4
Feb 3	30.2		70 51 68	12.3	-1.5	19.0 - 24 -10.8 - 3	4.2
Mar 4	61.9		73 56 71	14.5	1.3	24.6 - 16 -3.3 - 30	4.1
April 5	3.0		65 40 63	23.2	6.2	27.7 - 19 -1.9 - 1	3.5
May 6	0.0 - ?		55 29 48	28.2	11.5	35.4 - 19 7.5 9	3.0
June 7	0		50 24 33	33.1	16.8	36.5 - 27 11.5 - 10	4.1
July 8	0		37 25 27	35.6	23.0	40.1 - 3 16.7 - 4	8.2
Aug 9	0		35 26 31	33.0	22.0	37.6 - 3 17.1 - 29	7.5
Sept 10	0		40 29 31	29.9	12.2	37.1 - 5 5.3 - 22	4.2
Oct 11	0		64 29 53	24.7	5.3	30.9 - 28 -1.9 - 16	2.9
Nov 12	10.7		84 30 73	17.0	1.8	22.2 - 13 -2.5 - 4	2.2
Dec 13	31.6		84 51 81	13.6	2.5	21.7 - 17 -3.9 - 30	2.4
14							
15			**1944 - Herat**				
16							
Jan 17	50.0		77 45 76	11.9	1.3	17.9 - 16 -5.1 - 29	3.6
Feb 18	28.3		76 30 66	15.0	1.3	20.5 - 19 -9.7 - 6	3.4
Mar 19	19.8		69 33 63	21.3	7.3	28.8 - 31 +2.0 - 12	3.4
April 20	12.4		63 32 64	24.6	9.5	34.5 - 17 1.7 - 4	4.3
May 21	0.0		61 30 42	32.8	14.7	39.2 - 24 6.8 - 1	3.3
June 22	0.0		45 22 28	35.3	18.8	39.3 - 28 12.5 - 3	6.1
July 23	0.0		31 18 19	38.5	25.1	43.2 - 8 17.8 - 8	7.0
Aug 24	0.0		29 16 18	35.9	21.9	41.0 - 6 14.5 - 27	6.8
Sept 25	0.0		36 19 29	29.9	14.6	34.4 - 6 4.9 - 27	5.7
Oct 26	0.0		58 27 48	26.2	7.1	0.1 - 8 32.1 - 20	3.7
Nov 27	1.0		61 26 52	20.0	3.3	28.2 - 9 -7.2 - 30	3.6
Dec 28	61.5		71 52 72	3.0	-6.5	12.2 - 7 -16.5 - 23	3.3
29							

I - 7a
II - 1p
III - 9p

Herat - 1945

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE _____ mean

DAY	RAINFALL (MM)	EVAPORATION (MM)	RELATIVE HUMIDITY I II III	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)	wind
1				1945			
Jan 2	71.0		mean 52%	10.2	-3.7	15.9 - 21 -11.7 - 10	4.3
Feb 3	20.2		67 34 58	11.2	-0.9	22.1 - 23 -7.3 - 7	3.7
Mar 4	33.0		61 26 59	18.1	3.7	28.9 - 13 -4.3 - 31	4.4
Apr 5	6.1		57 20 42	25.0	7.8	34.1 - 28 -3.4 - 1	4.1
May 6	24.5		53 22 58	28.4	12.5	34.6 - 11 3.9 - 6	3.8
June 7	0		48 20 25	34.4	16.8	40.2 - 26 8.0 - 7	6.3
July 8	0		33 17 18	35.7	21.8	41.2 - 15 15.9 - 7	6.9
Aug 9	0		40 22 28	35.2	21.7	39.3 - 10 15.5 - 1	7.0
Sept 10	0		47 25 29	31.9	14.8	39.3 - 8 5.9 - 30	5.2
Oct 11	0		60 25 40	29.1	6.6	-2.1 - 27 33.8 - 12	3.0
Nov 12	8.0		76 35 59	19.1	3.2	26.0 - 2 -2.1 - 16	2.9
Dec 13	43.2		68 36 64	12.4	2.1	21.2 - 2 -10.5 - 22	3.0
14							
15			Jan	1946			
Jan 16	59.5		77 50 71	9.0	-1.5	16.7 - 5 -12.6 - 29	2.9
Feb 17	29.0		71 40 59	15.0	2.8	24.4 - 18 -3.2 - 24	3.6
Mar 18	19.3		64 32 50	18.9	5.9	31.1 - 30 -2.6 - 6	3.5
April 19	1.1		71 34 43	28.4	10.8	33.9 - 14 0.6 - 6	3.3
May 20	0		45 17 22	33.8	16.1	39.0 - 29 10.5 - 1	4.1
June 21	0		29 14 16	35.0	20.1	39.2 - 10 13.8 - 3	4.3
July 22	0		27 12 15	36.3	21.4	42.8 - 30 14.5 - 12	4.8
Aug 23	0		21 13 16	33.6	23.5	37.7 - 9 25.0 - 28	7.8
Sept 24	0		32 13 14	32.3	15.4	35.0 - 23 8.0 - 25	3.2
Oct 25	0		65 26 40	28.2	7.7	35.5 - 4 0.6 - 31	3.1
Nov 26	0		69 34 46	15.3	-2.1	25.5 - 21 -10.3 - 28	3.2
Dec 27	21.4		72 41 56	10.1	-2.9	17.6 - 5 -8.5 - 1	3.0
28							
29							

Herat – 1947

MORRISON-KNUDSEN AFGHANISTAN, INC

MONTHLY METEOROLOGICAL REPORT

STATION _____ DATE _____

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP (°F)	
1			1947				
Jan 2	50.2		61 40 53	12.2	2.0	20.1 - 9 -3.0 - 18	3.5 (est)
Febr 3	66.5		71 36 55	14.1	1.3	-6.3 - 7 22.1 - 18	3.2
Mar 4	59.9		74 34 55	20.6	6.0	25.7 - 16 1.3 - 3	3.4
April 5	0.1		71 28 38	25.9	9.1	33.4 - 15 0.9 - 20	3.4
May 6	1.1		67 29 33	30.4	12.4	35.6 - 21 6.1 - 4	3.6
June 7	0		45 23 24	33.4	17.3	39.3 - 6 9.6 - 9	4.8
July 8	0		31 19 20	35.6	22.5	42.6 - 3 13.9 - 31	5.5
Aug 9	0		37 20 22	36.9	21.5	41.4 - 15 10.9 - 30	4.6
Sept 10	0		57 29 33	31.7	12.2	39. - 4 5.5 - 27	3.9
Oct 11	0		66 36 45	26.4	6.7	34.4 - 6 -0.3 - 18	3.1
Nov 12	1.6		68 35 46	23.6	5.7	29.1 - 10 4.5 - 7	2.8
Dec 13	13.5	Mean monthly temperature 4.8 (Dry bulb)				17.4 - 3 -6.5 - 28	3.0
14							
15			1948				
16							
Jan 17	51.1	"	"	" 6.6	"	20.4 - 5 -3.4 - 19	3.5
Febr 18	14.1			8.7	"	25.3 - 29 -7.8 - 5	3.0
Mar 19	17.9			10.4	"	30.5 - 31 -4.9 - 9	3.2
April 20	29.6			15.8	2 (not used)	34.3 - 30 -3.3 - 4	3.0
May 21	0.1					36.0 - 19 9.2 - 4	4.5
June 22	0					38.4 - 17 12.3 - 5	4.5
July 23	0					40.9 - 16 17.8 - 4	6.0
Aug 24	0					37.4 - 4 13.4 - 26	5.5
Sept 25	0					39.4 - 5 4.5 - 29	5.0
Oct 26	0.3					32.6 - 5 -1.1 - 28	4.0
Nov 27	4.3					24.4 - 15 -6.4 - 21	3.5
Dec 28	31.2					20.5 - 13 -21.9 - 21	3.0
29							

not used in analysis

Est

Factors of climate for Ghazni, located in latitude 68° 20', longitude 33° 30', 1944-47

Month	Precipitation	Relative humidity 1/			Air temperature			Wind velocity 1/
		I	II	III	Maximum	Minimum	Extremes	
	mm.				°F	°F		mi. per hr.
January	41.5	73	67	71	32.9	10.4	47.84 on 1/21/46 -20.74 on 1/8/44	1.7
February	40.7	78	69	77	33.6	11.7	49.82 on 2/10/46 -11.74 on 2/18/46	2.8
March	52.7	75	50	71	39.6	28.2	74.48 on 3/30/46 5.36 on 3/1/45	2.5
April	21.7	63	30	50	52.9	38.7	80.06 on 4/19/44 25.88 on 4/13/47	3.7
May	27.0	59	33	49	72.7	43.5	84.92 on 5/11/46 15.26 on 5/3/47	3.3
June	0.2	44	20	35	84.0	45.3	94.1 on 6/22/46 40.28 on 6/7/45	2.7
July	11.2	58	29	48	88.5	56.3	96.26 on 7/5/47 49.1 on 7/19/44	2.9
August	2.0	58	36	54	103.1	55.4	96.8 on 8/9/47 44.6 on 8/23/46	2.8
September	2.4	48	27	48	81.9	45.0	90.5 on 9/11/47 30.2 on 9/26/44	2.5
October	0.0	49	20	43	69.3	34.5	81.5 on 10/5/46 23.72 on 10/28/45	3.2
November	2.1	55	36	56	51.4	31.1	73.76 on 11/1/47 5.9 on 11/29/46	2.6
December	12.5	73	55	72	37.8	46.6	52.7 on 12/15/45 -7.6 on 12/20/45	3.2
Total	214.0 (8.4 in.)							

Data compiled from Afghan weather records.

1/ Data available for 1944 only.

(Afghan air force data)

Factors of climate for Ghazni, Afghanistan located in latitude 33°-30' longitude 68°-20' for four years 1944-1947 inc. table below indicating monthly mean averages.

Month	Precipitation in mm	Relative Humidity (1) I	II	III	Air Temperature Max °C	Min °C	Extreme max. and min. temp °C	Mean wind velocity in miles per hr (2)
Jan	41.5	73	67	71	32.9 0.5	10.4 -12.0	-8.8 on 1/21/46 -29.3 on 1/8/44	1.7
Feb	40.7	78	69	77	39.6 0.9	11.7 -11.3	9.9 - 2/10/46 -24.3 - 2/18/40	2.8
Mar	52.7	75	50	71	39.6 4.2	28.2 -2.1	23.6 on 3/20/46 -14.8 on 3/1/45	2.5
April	21.7	63	30	50	53.9 11.6	38.7 3.7	26.7 on 4/19/44 -3.4 on 4/18/47	3.7
May	27.0	59	33	49	72.7 22.6	43.5 6.4	29.4 on 5/11/46 -9.3 on 5/3/47	3.3
June	0.2	44	20	35	84.0 28.9	45.3 7.4	34.5 on 6/22/46 4.6 on 6/7/45	2.7
July	11.2	58	29	48	88.5 31.4	56.3 13.5	35.7 on 7/5/47 9.5 on 7/19/44	2.9
Aug	2.0	58	36	54	103.1 39.5	55.4 13.0	36.0 on 8/9/47 7.0 on 8/23/46	2.8
Sept	2.4	48	27	48	81.9 29.7	45.0 7.2	32.5 on 9/11/47 -1.0 on 9/26/44	2.5
Oct	0.0	49	20	43	69.3 20.7	34.5 1.4	27.5 on 10/5/46 -4.6 on 10/28/45	3.2
Nov	2.1	55	36	56	51.4 10.8	31.1 -0.5	23.2 on 11/1/47 -14.5 on 11/29/46	2.6
Dec	12.5	73	55	72	37.8 3.2	46.6 -8.1	11.5 on 12/15/45 -22.0 on 12/20/45	3.2
Total	214.0 (8.4 in)	—	—	—	—	—	—	—

Above data compiled from Afghan weather records.

(1) Data for the year 1944 available only.
(2) Data for the year " " "

Kabul —

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION _____ 1946 DATE Extreme

DAY	RAINFALL (MM)	EVAPORATION (MM)	REL. HUM. (%)	MAX. TEMP (°F)	MIN. TEMP (°F)	~~AVE. DAILY TEMP (°F)~~
J 1	81.7			41.8	-8.4	8.8-21 -15.3-4
F 2	52.9			2.3	-10.0	9.9-10 -24.3-10
M 3	33.8			13.1	-3.2	23.6-30 -14.7-1
A 4	3.9			23.4	6.3	26.2-14 3.9-8
M 5	—			27.2	9.4	29.4-11 21.7-1
J 6				29.7	13.6	34.5-22 12.7-17
J 7	32.0			31.5	15.3	35.2-25 13.2-12
A 8				28.5	12.5	31.4-25 7.0-23
S 9				26.0	7.8	28.3-1 5.7-30
O 10	0.0			22.2	3.3	27.5-5 -1.8-29
N 11				12.3	-4.9	17.4-1 -14.5-29
D 12	12.4			4.0	-10.0	10.2-1 -19.3-25
13			1947			
J 14	8.3			+0.3	-11.9	5.5-31 -7.2-14
F 15	33.5			+1.9	-12.3	6.6-21 -19.2-16
M 16	97.9			10.3	-3.0	17.6-26 -9.3-3
A 17	6.2			20.3	4.1	24.9-15 -3.4-18
M 18	21.7			24.2	6.0	29.0-25 2.2-10
J 19				28.7	10.6	32.5-8 7.0-7
J 20				32.0	12.1	35.[illegible]-5 9.[illegible]-1
A 21				32.5	13.8	36.0-9 14.5-31
S 22				27.4	8.4	32.5-11 3.2-28
O 23				19.7	0.5	26.2-26 -3.3-20
N 24	0.9			15.7	-2.3	23.2-1 -4.9-18
D 25	13.1			+1.8	-3.6	-12.2-9
26						
27						
28						
29						
30						

(R.K.S) 7/27

Ghagni - Afghani Records - Dr. Steng

MORRISON-KNUDSEN AFGHANISTAN, INC.

MONTHLY METEOROLOGICAL REPORT

STATION 1944 - Ghagni DATE for 1944 -

DAY	RAINFALL (MM)	EVAPOR'TN (MM)	REL. HUM. I	II	III	MAX. TEMP (°F)	MIN. TEMP (°F)	AVE. DAILY TEMP. (°F)	Wind vel m/hr
Jan	33.8	—	73	67	71	-0.4	-12.6	7.0-2 -22.0-14	1.7
2 Febr	73.5		78	69	77	1.4	-10.9	6.9-25 -18.0-15	2.8
3 Mar	36.3		75	50	71	9.6	-2.4	16.8-31 16.8 -12.6-1	2.5
4 Apr	23.7		63	30	50	18.9	3.7	26.7-19 -1.4-13	3.7
May	57.0		59	33	49	23.8	7.5	28.7-28 3.7-4	3.3
June 6	0.7		44	20	35	27.9	10.2	31.5-30 6.4-13	2.7
July 7	13.9		58	29	48	31.2	14.5	33.5-2 9.5-19	2.9
Aug 8	1.7		58	36	54	28.3	12.3	30.8-11 7.3-28	2.8
Sept 9	0.1		48	24	48	23.3	4.9	26.1-4 -1.0-26	2.5
Oct 10	0.0		49	20	43	19.9	0.5	22.9-1 -2.3-7	3.2
Nov 11	8.5		55	36	56	1.5	3.1	19.3-5 -4.9-9	2.6
Dec 12	10.9		73	55	72	2.4	-9.4	9.8-2 -19.8-78	3.2
13									
14		1945							
Jan 15	42.3					-2.8	-14.9	3.0-12 -29.3-8	
Febr 16	30.0					1.8	-11.8	7.6-26 -19-4	
Mar 17	43.2					13.3	0.3	21.7-24 -14.8-1	
April 18	53.1					17.1	2.6	23.5-29 -0.1-3	
May 19	4.9					22.9	6.7	27.4-29 2.8-7	
June 20	—					29.1	12.2	34.0-27 4.6-7	
July 21	—					30.8	14.8	34.0-18 13.0-8	
Aug 22	—					29.8	13.6	32.6-17 8.7-30	
Sept 23	9.5					26.4	7.5	29.0-3 2.1-29	
Oct 24	—					20.8	1.3	24.6-12 -4.6-28	
Nov 25	0.0					13.5	2.3	19.9-1 -6.2-16	
Dec 26	13.8					4.7	-9.4	11.5-15 -22.0-20	
27									
28									
29									

THE FOREIGN SERVICE
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EMBASSY OF THE UNITED STATES OF AMERICA KABUL
AUG 11 1953
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

UNCLASSIFIED

ADDRESS OFFICIAL COMMUNICATIONS TO:
American Embassy,
Tehran, Iran.
JUL 18 1953

Gentlemen:

Reference your operations memorandum No. K-33 of June 19, 1953. Attached hereto is a summary of Meteorological data of Sistan river at Ban Zanek from September 24, 1951, to August 21, 1952. This is all the information available at this office on stream flow in that area.

The responsible Iranian agency, Irrigation Bongah, did not start a stream gaging program until 1947. They have at present time only 50 stations and these are primarily located on the streams flowing into Caspian Sea and along the south-west area of Iran.

We have a project agreement with the Bongah whereby additional stations are to be established. The procurement of the necessary equipment is now being made.

Perhaps we can be of more assistance at a later date in the establishment of meteorological and hydrological stations in adjoining areas of Iran which would complement those which you are using in Afghanistan.

Sincerely yours,

Clark S. Gregory for
William E. Warne
U.S. Director of
Technical Cooperation for Iran.

American Embassy,
Kabul, Afghanistan

Encl: Summary of Meteorological data.

87517

SUMMARY OF METEOROLOGICAL DATA OF SISTAN RIVER
at
BAN ZANEK

From Mehr 1330 (September 24, 1951) to Shahrivar 1331 (August 24, 1952.

Month	Temperature (oC) Max.	Temperature (oC) Min.	Total Rainfall (m/m) (millimeters)
Mehr 1330 (Sept 24,'51)	-	-	-
Aban " (Oct. 24,'51)	38	2	-
Azar " (Nov. 23,'51)	24	1	-
Day " (Dec. 23, '51)	25	(-6)	1.8
Bahman " (Jan.22 ,'52)	27	4	2
Esfand " (Feb. 21,'52)	28	3	-
Farvardin 1331 (March21 '52)	37	7	2
Ordibehesht " (April 21, ")	46	7	2
Khordad " (May 22,1951)	46	12	-
Tir " (June 22, ")	48	14	-
Mordad " (July 23, ")	48	16	-
Shahrivar " (August 24")	47	12	-
Year 1330-1331	48	(-6)	7.8

U. S. Department of Commerce
WEATHER BUREAU
WASHINGTON, D. C.

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PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300

Kandahar, Afghanistan

Data from the British and Pakistan

Consulate 1939-1951

Factors of climate for Kandahar, located in latitude 65° 40', longitude 31° 30', 1941-50 1/

Month	Precipitation	Relative humidity	Air temperature		Wind velocity 2/
			Maximum	Minimum	
	mm.		°F	°F	mi. per hr.
January	57.150	80.6	56.6	30.5	2.0
February	39.370	71.8	61.3	33.6	1.7
March	30.988	68.6	72.0	41.6	1.6
April	9.652	61.8	82.0	49.9	1.5
May	3.810	50.5	93.0	58.3	1.1
June	0.152	44.3	97.4	61.7	1.2
July	0.508	53.6	100.6	66.3	1.3
August	0.025	51.3	99.1	63.4	1.1
September	0.076	45.8	94.0	52.4	1.1
October	0.152	56.3	84.4	41.6	1.0
November	1.524	63.2	74.9	33.9	0.9
December	14.478	81.6	59.8	31.8	1.0
Total	157.885 (6.22 in.)				

1/ Data compiled from records of Pakistan Consulate at Kandahar.
2/ Data from Afghan weather records. Air temperatures as low as 18° F are recorded and temperatures under 20° F are not uncommon during months of November, December, January, February and March. Highest air temperature recorded during the period indicates 108° F with air temperatures over 100° F being frequent during June, July and August.

Factors of climate for Kandahar, located in latitude 65° 40' longitude 31°-30' for the ten year period 1941 to 1950 inc., table below indicating 10 year monthly mean averages (1)

Month	Mean monthly air temperature in degrees F. Maximum	Minimum	Precipitation in inches	Mean highest monthly relative humidity	Wind mean velocity (2) Miles per hr
January	56.6	30.5	57.150 2.25	80.6	2.0
February	61.3	33.6	39.370 1.55	71.8	1.7
March	72.0	41.6	30.988 1.22	68.6	1.6
April	82.0	49.9	9.652 0.38	61.8	1.5
May	93.0	58.3	3.810 0.15	50.5	1.1
June	97.4	61.7	0.152 0.006	44.3	1.2
July	100.6	66.3	0.508 0.020	53.6	1.3
August	99.1	63.4	0.025 0.001	51.3	1.1
September	94.0	52.4	0.076 0.003	45.8	1.1
October	84.4	41.6	0.152 0.006	56.3	1.0
November	74.9	33.9	1.524 0.06	63.2	0.9
December	59.8	31.8	14.478 0.57	81.6	1.0
Total	—	—	157.885 6.22	—	—

Note - Precipitation to be an right change to [illegible] with inches indicated below

(2) Data from afghan weather record. Air temperatures as low as 18°F are recorded and temperatures under 20°F are not uncommon during months of Nov., Dec., Jan, Febr. and March. Highest air temperature recorded during the period indicates 108°F with air temperatures over 100°F being frequent during June, July, and August.

(1) - Data compiled from records of Pakistan consulate at Kandahar.

Factors of climate for Kandahar for the ten year period, 1941-1948 inc. Latitude 64°, Longitude 32°

	T°-F Mean Air Temperature Max.	Min.	Precipitation in Inches	Monthly highest mean Relative Humidity	
January	56.6	30.5	2.25	80.6	107°F on 7/8/41
February	61.3	33.6	1.55	71.8	22°F on 12/24/42
March	72.0	41.6	1.22	68.6	21°F on 2/5/43
April	82.0	49.9	0.38	61.8	21°F on 3/3/45
May	93.0	58.3	0.15	50.5	19°F on 1/1/48
June	97.4	61.7	0.006	44.3	18F on 3/4/53 4/1/50
July	100.6	66.3	0.020	53.6	108°F on 8/27/41
August	99.1 (1)	63.4 (1)	0.001	51.3	
September	94.0	52.4 (2)	0.003	45.8	
October	84.4 (3)	41.6	0.006	56.3	
November	74.9	33.9	0.06	63.2	
December	59.8	31.8 (4)	0.57	81.6	
			6.22		

* Data compiled from records of British ~~+ Pakistan~~ Consulate Observatory at Kandahar.

(1) Data for years 1944 + 1946 not available.
2 " " year 1943 not available
3 " " year 1946 not available
4 " " year 1950 not available
5 " based on 8 yr record, 1941-1948 inc.

BRITISH CONSULATE, KANDAHAR.

Monthly Record of RAINFALL, MAXIMUM AND MINIMUM TEMPERATURES and HUMIDITY.

Elevation = 3462 For the YEAR 1941 Latitude = [illegible] Longitude = 32°

Date. & month	RAIN amount in inches. RRR.	TEMPERATURES Fahrenheit Max. Monthly Highest Mean	TEMPERATURES Fahrenheit Min. Monthly Lowest Mean	Barometer Pressure. B.B.B Monthly Highest Mean	HUMIDITY % Monthly Highest Mean
January 1941					
15.1.41	020	69.0 ⌀ 1.1.41 / 57	25.0 ⌀ 4.5.7.8.9 / 32	27.025 ⌀ 30.31 / 26.934	95 ⌀ 17 1/41 / 75
16.1.41	179				
17.1.41	011				
Total	210				
1941	490				
February 1941					
3.2.41	002	79.0 ⌀ 13.2.41 / 67	31.0 ⌀ 10.2.41 / 36	27.125 ⌀ 4.2.41 / 26.906	79 ⌀ 13 2/41 / 57
4.2.41	014				
19.2.41	012				
Total	028				
1940	103				
March 1941					
6.3.41	004	85.0 ⌀ 24.3.41 / 77	39.0 ⌀ 3.3.41 / 46	26.870 ⌀ 13.3.41 / 26.753	76 ⌀ 25 3/41 / 50
12.3.41	002				
25.3.41	006				
Total	012				
1940	252				
April 1941					
1.4.41	011	97.0 ⌀ 28 4/41 / 81	43.0 ⌀ 3.4.4.41 / 55	26.880 ⌀ 3.4.41 / 26.699	88 ⌀ 8.4.41 / 54
2.4.41	004				
8.4.41	022				
10.4.41	016				
11.4.41	011				
12.4.41	053				
18.4.41	004				
Total	121				
1940	007				
May 1941	000	106.0 ⌀ 31 5/41 / 94.70	53.0 ⌀ 9 5/41 / 60.16	26.625 ⌀ 17 5/41 / 26.526	48% ⌀ 20 5/41 / 32.74%
TOTAL	000				
1940	000				
June 1941	000	105.0 ⌀ 26 6/41 / 100.3	57.0 ⌀ 10 6/41 / 66.4	26.545 ⌀ 19 6/41 / 26.367	44% ⌀ 12 6/41 / 31.33%
TOTAL	000				
1940	000				
July 1941	000	107.0 ⌀ 18 7/41 / 102	63.0 ⌀ 23 7/41 / 66	26.442 ⌀ 22.23 7/41 / 26.320	40% ⌀ 4 7/41 / 30
Total	000				
1940	000				
August 1941	000	106.0 ⌀ 30 8/41 / 98.64	59.0 ⌀ 23.27 8/41 / 64.96	26.475 ⌀ 31 8/41 / 26.333	41% ⌀ 19 8/41 / 31.87
TOTAL	000				
1940	000				

Date. & month	RAIN amount in inches. RRR.	TEMPERATURES Fahrenheit Max. Monthly Highest Mean	TEMPERATURES Fahrenheit Min. Monthly Lowest Mean	Barometer Pressure. (BBB) Monthly Highest Mean	HUMIDITY % Monthly Highest Mean
September 1941	000	97.0 ⌀ 30 9/41 / 92.46	48.0 ⌀ 6.20.26 9/41 / 51.63	26.705 ⌀ 27 9/41 / 26.512	57% ⌀ 24 9/41 / 30.6%
TOTAL	000				
1940	000				
October 1941	000	99.0 ⌀ 2.3 10/41 / 90°	39.0 ⌀ 26.31 10/41 / 47°	26.890 ⌀ 21.10.41 / 26.765	55% ⌀ 28 10/41 / 35%
Total	000				
1940	003				
November 1941	000	89.0 ⌀ 8 11/41 / 75°	23.0 ⌀ 21 11/41 / 37°	27.015 ⌀ 26 11/41 / 26.859	54% ⌀ 24.28 11/41 / 42%
Total	000				
1940	000				
December 1941	010	77.0 ⌀ 5 12/41 / 58°	22.0 ⌀ 10.11 12/41 / 36°	27.055 ⌀ 18 12/41 / 26.876	96% ⌀ 27 12/41 / 66
2.12.1941	026				
9.12.41	013				
25.12.41	005				
26.12.41	054				
TOTAL	1.62				
1940					

	1941	1940
Total rainfall of the year =	4.25 inch	8.17 inch
Highest temperature of the year =	107.0° ⌀ 18 7/41	111.0° ⌀ 27 6/40
Lowest " " " " =	22.0° ⌀ 10.11 12/41	25.0° ⌀ 21 12/40

BRITISH CONSULATE, KANDAHAR.

Monthly Record of RAINFALL, MAXIMUM AND MINIMUM TEMPERATURES and HUMIDITY.
For the YEAR 1942. Latitude = 64°, Longitude = 32°

Date.	RAIN amount in inches. RRR.	TEMPERATURES Max.	TEMPERATURES Min.	Barometer Pressure. BBB	HUMIDITY %
January 1942					
4.1.42	.34				
5.1.42	.23				
6.1.42	.15				
[illegible].1.42	.17				
17.1.42	.05				
22.1.42	.15				
23.1.42	.20				
26.1.42	.34				
27.1.42	.74				
28.1.42	.01				
30.1.42	.05				
31.1.42	.09				
Total	2.520	65°+ at 1/1.21.42	21°+ at 1/[illegible].42	26.967 at 1/11.42	92% at 1/28.42
1941		54.1	33.4	26.901	74.5
1940	4.90				
February 1942					
5.2.42	.02				
6.2.42	.42				
7.2.42	.46				
8.2.42	.31				
9.2.42	.116				
10.2.42	.016				
17.2.42	.029				
18.2.42	.024				
19.2.42	.020				
20.2.42	.07				
22.2.42	.01				
23.2.42	.04				
25.2.42	.06				
26.2.42	.074				
27.2.42	.03				
TOTAL	4.248	63°+ at 1/[illegible].42	30°+ at 1/13 & 21.42	27.005 at 1/27.42	96% at 1/6.42
1941	0.26	50.1	37.1	26.883	79%
1940	1.3				
(March 1942)					
2.3.42	.38				
5.3.42	.65				
9.3.42	.01				
Total	1.248	46°+ at 31.3.42	35°+ at 3 & 6.3.42	26.955 at 3.3.42	92% at 5.3.42
1941	.018	74°	45°	26.410	55
1940	.052				
April 1942					
2.4.42	.04				
11.4.42	.14				
12.4.42	.04				
25.4.42	.07				
TOTAL	.18	97°+ at 1/[illegible].42	41°+ at 1/17 & 18.42	26.447 at 1/9.42	94% at 1/11.42
1941	1.21	85°F	53°F	26.706	50%
1940	[illegible]				
May 1942					
3.5.42	.02				
16.5.42	.16				
Total	.18	101°+ at [illegible].42	52°+ at 13.5.42	26.657 at 12.5.42	85% at 13.5.42
1941	.00	93°F	59°F	26.534	39%
1940	DUE				
June 1942					
4.6.42	.01				
6.6.42	.05				
Total	.06	104°+ at 1/29.6.42	54°+ at 1/1.6.42	26.575 at 1/6.6.42	45% at 1/12.6.42
1941	.00	97°F	64°F	26.406	33%
1940	.00				
July 1942					
8.7.42	0.50	106°+ at 1/[illegible].7.42	65°+ at 1/[illegible].7.42	26.323 at 1/23.7.42	57% at 1/[illegible].7.42
Total	0.50	101°F	70°F	26.276	39%
1941	0.00				
1940	0.00				
August 1942					
Total	NIL	[illegible]	[illegible]	26.515 at 1/14.8.42	45% at 1/13.8.42
1941	.00	99°F	52°F	26.412	34%
1940					
September 1942					
Total	.00	100° at 1/[illegible].9.42	45°+ at 1/[illegible].9.42	26.759 at 1/30.9.42	46% at 1/23.9.42
1941	.00	92	51	26.571	30
1940	.00				
October 1942					
17.10.42	.03				
Total	.03	91°+ at 1/10.10.42	37°+ at 1/[illegible].10.42	26.933 at 1/29.10.42	63% at 1/16.10.42
1941	.00	60	45	26.743	37
1940	.03				
November 1942					
22.11.42	.14				
24.11.42	.15				
Total	.29	74° at 1/[illegible].11.42	32°+ at 1/10.11.42	26.880 at 1/3.11.42	75% at 1/24.11.42
1940	.00				
1941	.00	74	40	26.476	47
December 1942					
12.12.42	.03				
13.12.42	.09				
15.12.42	.12	50°+ at 1/[illegible].12.42	28°+ at 1/[illegible].12.42	27.247 at 1/20.12.42	
1941	[illegible]	58	39.9	26.955	
1940	[illegible]				

Total Rainfall of the year = 10.12
Total Snowfall of the year = 106.61
Total Rainfall of the year = 21.[illegible]/1942

BRITISH CONSULATE, KANDAHAR.

1943

Monthly Record of RAINFALL, MAXIMUM AND MINIMUM TEMPERATURES and HUMIDITY.
For the YEAR 1943.

Date.	RAIN amount in inches. RRR.	TEMPERATURES Max. Monthly highest / Mean	TEMPERATURES Min. Monthly lowest / Mean	Barometer Pressure. BBB Monthly highest / Mean	HUMIDITY % Monthly highest / Mean
January 43					
1.1.43	0.44				
3.1.43	0.32				
11.1.43	1.36				
12.1.43	0.29	59 / 07/10/43	25 / 29.30.31	96.2 / 9/1/43	96 / 10/1/43
15.1.43	0.02				
17.1.43	0.76	49.7 mean	mean 29.9	mean 94.4	mean 80.
23.1.43	0.15				
24.1.43	1.94				
Total	5.28				
[illegible]	?				
February 1943					
19.2.43	0.07	77 / 26.2.43	21 / 5.2.43	916.6 / 5.2.43	93 / 07 28.2.43
23.2.43	0.15				
28.2.43	0.12	62.0 average	36.0 average	911.1 average	60. average
	0.34				
1942	4.24				
1941	0.28				
March 1943					
1.3.1943	0.28	85 / 18/19/3	29 / 10/3/43	912.5 / 30/3/43	89 / 1/3/43
2.3.43	0.36				
20.3.43	0.87	mean	mean	mean	mean
21.3.43	0.10	71.5	41.4	906.8	66.9
24.3.43	0.52				
Totale	2.13				
1942	1.24				
1941	0.10				
April 1943					
3.4.43	0.02	88 / 21/4/43	37 / 1/4/43	909.3 / 1/4/43	82 / 07 9/4/43
5.4.43	0.81				
6.4.43	0.02				
21.4.43	0.02	average	average	average	average
Total	0.87	78.3	49.5	905.1	61.9
1942	0.18				
1941	1.21				
May 1943					
10.5.43	0.[illegible]	99 / 22.23.24.27	48 / 6/5/43	902.7 / 1.2/5/43	72 / 07 2/5/43
11.5.43	0.02				
12.5.43	0.04				
23.5.43	0.03				
Total	0.20				

Date.	RAIN amount in inches. RRR.	TEMPERATURES Max. Monthly highest / Mean	TEMPERATURES Min. Monthly lowest / Mean	Barometer Pressure. BBB Monthly highest / Mean	HUMIDITY % Monthly highest / Mean
June 1943	0.00	103°F / D/7/6/43	53°F / D/1/6/1943	897.6 / D/1/6/1943	66% / D/3/6/1943
Totale	0.00				
1942	0.06				
1941	0.00	97.16	57.8	893.69	44.6
July 1943	0.00	105°F / 9/7/43	61°F / D/18, 19, 22, 24 July	895.2 / D/3/43	73% / D/28/43
Total	0.00				
1942	0.50				
1941	0.00	97.5	65.2	890.66	53.8
August 1943	0.00	106°F / 5/8/43	56°F / 30.31/8/43	900.4 / 30.8.43	74% / 4.25/8/43
Total	0.00				
1942	0.00				
1941	0.00	98.6	61.4	892.71	61.4
September 1943	0.00	98°F / D/17/9/43	42°F / D/26, 27, 29, 30 September	905.5 / D/29, 30 September	72% / D/13, 15 September
Total	0.00				
1942	0.00				
1941	0.00	92.0			
October 1943	0.00	89	36	904.5	80%
November 1943	0.00	77	29	915.3	85%
December 1943					
7.12.43	0.16	75°F / D/19.12.43	24°F / D/1.12.43	916.6 / D/17.12.43	93% / D/13.12.43
8.12.43	0.12				
10.12.43	0.03				
12.12.43	0.10				
14.12.43	0.02				
27.12.43	0.01				
29.12.43	0.19				
[illegible]	0.53				
1942	0.88				
1941	0.44				

[illegible] Maximum and Minimum Temperatures and Humidity [illegible] year 1944 [illegible] Consulate, Kandahar Observatory.

Month and Date	Rain Amount in inches RRR	Temperatures Max (monthly highest mean)	Temperatures Min (monthly lowest mean)	Barometer Reduce PPP (monthly highest mean)	Humidity % (monthly highest mean)
July 1944					
13-7-44	0.19	105 [illegible] 104.6	62 [illegible] 67.4	[illegible] 844.4 889.09	86 [illegible]
14-7-44	0.27				
Total	0.46				
1943	0.00				
1942	0.50				
August 1944					
2-8-44	0.01	104 [illegible]	60 F	898.8	84 %
September 1944					
1943	0.00	99 [illegible] 91.16	40 [illegible] 48.4	903.8 899.18	76 % [illegible] 59.83
1942	0.00				
October 1944					
1943	0.00	90 [illegible] 83.5	30 [illegible] 40.3	909.0 MB [illegible] 905.95	70 % [illegible] 66.06
1942	0.03				
November 1944					
22-11-44	0.03	83 [illegible] 80.6	30 [illegible] 35.0	912.5 MB [illegible] 907.8 MB	91 % [illegible] 78.5
23-11-44	0.11				
Total	0.14				
1943	0.00				
1942	0.29				
December 1944					
2-12-44	0.04	70 [illegible] 56.7	15 [illegible] 28.5	917.0 MB [illegible] 913.25 MB	92 % [illegible] 86.32
4-12-44	0.10				
8-12-44	0.12				
21-12-44	0.08				
26-12-44	0.02				
27-12-44	0.27				
28-12-44	0.08				
Total	0.71				
1943	0.53				
1942	0.88				

Remarks

Total rain fall of the year = 8.14 inch
Highest Temperature of the year = 5 [illegible]
Lowest Temperature of the year = 15 [illegible]

Monthly Record of Rain fall, Maximum, Minimum Temperatures and Humidity, Barometer Pressure. For the year, 1945 British Consulate, Kandahar Observatory.

Month and Date	Rain Amount in Inches RRR	Temperatures Max. Fahrenheit Monthly highest / Mean	Temperatures Min. Fahrenheit Monthly Lowest / Mean	Barometer Pressure P.P.P. mb Monthly Highest / Mean	Humidity % Monthly highest / Mean
January 1945					
2-1-1945	0.31	65 / 52.4	14 / 28.5	917.6 / 911.1	95 / 83.2
4-1-1945	0.25				
7-1-1945	0.15				
8-1-45	0.02				
22-1-45	0.35				
24-1-45	0.62				
30-1-45	0.04				
Total	1.77				
February, 1945					
8-2-45	0.04	78 on 25 2/45 / 61.1	24 / 31.6	915.2 on 1 2/45 / 908.264	90 on 11 2/45 / 42
16-2-45	0.22				
26-2-45	0.04				
27-2-45	0.02				
Total	0.32				
March, 1945					
27-3-45	0.03	88 F on 26 3/45 / 71 F	21 F on 3 3/45 / 33.25	913.5 on 27 3/45 / 905.45	88 % / 71.3
29-3-45	0.03				
Total	0.06				
April, 1945					
5-4-45	0.42	95 F on 30 4/45 / 79.6 F	35 on 14 2/45 / 42.6 F	909.0 / 900.500	94 on 5 4/45 / 62.4
30-4-45	0.13				
Total	0.55				
May, 1945					
1-5-45	0.13	97 F on 13 5/45 / 89.4 F	43 F on 7 5/45 / 53.6 F	914.5 on 16 5/45 / 899.800	75 on 15 5/45 / 54
16-5-45	0.03				
Total	0.16				
June 1945					
	0.00	106 on 6 / 99.13	51 on 6 / 60.4	914.8 on 6 / 898.93	75 % on 6 / 93.77
1944	0.00				
1943	0.00				
July 1945					
	0.00	107 on 7 / 97.5	57 on 7 / 64.8	914.8 on 7 / 895.2	79 % / 91.33
1944	0.46				
1943	0.00				

Month and Date	Rain Amount in Inches RRR	Temperatures Max. Fahrenheit Monthly highest / Mean	Temperatures Min. Fahrenheit Monthly Lowest / Mean	Barometer Pressure P.P.P. mb Monthly Highest / Mean	Humidity % Monthly highest / Mean	Remarks
August, 1945						
8/45	nil	102 on 17 8/45 / 96 F	54 on 31 8/45 / 60	915.2 on 3 8/45 / 900	82 on 21 8/45 / 98	
September, 1945						
9/45	0.00	100 on 11 12 20 22 / 94	39 on 28 9/45 / 50	913.3 on 3 9/45 / 894.7	73 on 2 9/45 / 57	
October, 1945						
10/45	0.00	91 on 3 10/45 / 85°	33 on 28 10/45 / 39	911.8 on 31 10/45 / [illegible]	82 on 27 10/45 / 65	
November, 1945						
11/45	0.00	80 F on 5 11/45 / 75 F	30 F on 30 11/45 / 37 F	913.5 on 18 11/45 / 909.7	91 % on 16 11/45 / 76.4 %	
December 1945						
[illegible]	[illegible]	70 on 3 12/45 / 60	19 on 22 12/45 / 29	921.1 on 22 12/45 / 912.2	94 on 23 12/45 / 95 %	
December, 1945						
4-12-45	0.05					
18-12-45	0.56					
20-12-45	0.14					
21-12-45	0.04					
Total	0.79					

Monthly Record of Rainfall, Maximum, Minimum Temperatures, Humidity and Barometer Pressure for the year 1946, British Consulate Kandahar Observatory.

Month & Date	Amount of Rainfall in inches R.R.R.	Temperatures Max: Monthly highest / Mean	Temperatures Min: Monthly lowest / Mean	Barometer Pressure I.T.I. mb Monthly highest / Mean	Humidity % Monthly highest / Mean	Remarks.
January, 1946						
11.1.46	0.25 inches.					
12.1.46	1.71 "					
13.1.46	0.74 "					
14.1.46	0.28 "					
15.1.46	0.03 "					
22.1.46	0.21 "					
23.1.46	0.93 "					
29.1.46	0.08 +					
Total	4.23 +	68° on 8.1.46 / 56	23° on 30 & 31.1.46 / 31	917.7 on 30.1.46 / 916.1	95% on 16.1.46 / 87.1%	
February, 1946						
7-2-46 =	0.03					
10-2-46 =	0.34					
11-2-46 =	0.12					
19-2-46 =	0.06					
21-2-46 =	0.04					
26-2-46 =	0.78					
28-2-46 =	0.02					
Total =	1.39	79°F on 19 & 20.2.46 / 66F	24°F dated 1.2.46 / 37F	916.9 dated 3.2.46 / 909.4	95% dated 12, 13 & 14.2.46 / 76%	
March, 1946.						
1.3.46 =	0.04					
11.3.46 =	0.60					
12.3.46 =	0.12					
Total =	0.76	87°F dated 27.3.46 / 71.5	34°F on 4 & 5.3.46 / 39.7	912.8 on 13.3.46 / 907.1	96% on 12.3.46 / 75%	
April, 1946						
Rainfall	0.00	97°F Dated 21, 18 & 24.4.46 / 90.9	43°F Dated 9 & 10.4.46 / 51.3	907.2 Dated 4.4.46 / 902.9	84% Dated 8.4.46 / 67%	
May, 1946						
Rainfall						
3-5-46 =	0.02	101°F Dated 31.5.46 / 92.3	51°F Dated 1, 2, 23 & 5.5.46 / 55.9	901.8 Dated 7 & 8.5.46 / ~~897.6~~ 897.6	75% Dated 5.5.46 / 62%	
June, 1946						
Rainfall =	0.00	100°F Dated 28.6.46 / 99.6	56°F Dated 9 & 10.6.46 / 62.4	896.6 Dated 15.6.46 / 893.0	74% Dated 4 & 16.6.46 / 54%	
July, 1946						
Rainfall =	0.00	107°F Dated 31.7.46 / 102	65°F on 13 & 19.7.46 / 63	893.2 on 18.7.46 / 889.4	73% Dated 1st July 1946 / 57%	

Monthly Record of Rainfall, Maximum, Minimum Temperatures, Humidity and Barometer Pressure for the year 1946, British Consulate Kandahar Observatory.

Month & Date	Amount of Rainfall in inches R R R	Temperatures Max: Min: Fahrenheit Monthly highest / Mean	Temperatures Max: Min: Fahrenheit Monthly lowest / Mean	Barometer Pressure P P P mb Monthly Highest / Mean	Humidity % Monthly highest / Mean	Remarks.
August 1946	Rainfall = 0.00	109°F D/11.8.46 / 13.0	55°F D/30.8.46 / 64.7	895.0 D/29.8.46 / 891.6	65% D/4.8.46 / 46%	
September, 1946	Rainfall = 0.00	100°F D/21.9.46 / 95.9	47°F D/30.9.46 / 52.4	902.1 D/20,21,22,23,24,25.9.46 / 899.1	58% D/24.9.46 / 47%	
October, 1946	Rainfall = 0.02	100°F D/6.10.46 / 120.0 ? Not reasonable [illegible]	37°F D/29-10.46 / 46.5	909.3 D/31.10.46 / 903.6	77% 29.10.46 / 65%	
November, 1946	Rainfall = 0.00	83°F D/2.11.46 / 69.2	16°F D/30.11.46 / 29.6	916.0 D/30.11.46 / 911.2	100% D/27-29-30.11.46 / 73%	
December, 1946	20.12.46 = 0.12 21.11.46 = 0.48 22.11.46 = 0.41 23.11.46 = 0.02 Total = 1.03	70°F D/28.12.46 / 57.0	16°F D/1.12.46 / 25.6	917.2 D/24.12.46 / 912.2	100% D/3-26-28-29-31.12.46 / 79%	

Monthly Record of Rainfall, Maximum, Minimum Temperatures, Dew Point Humidity and Barometer Pressure for the Year 1947 at the British Consulate, Kandahar Observatory.

Month and Date	Amount of Rainfall in inches. RRR	Temperatures Maximum Fahrenheit Monthly Highest / Mean	Temperatures Minimum Fahrenheit Monthly Lowest / Mean	Barometer Pressure PPP (mb) Monthly Highest / Mean	Humidity % Monthly Highest / Mean	Dew Point TsTs Monthly Highest / Mean
January, 1947						
2.1.47	0.38	74°F Dt 31.1.47 / 58.0	24°F Dt 11-13.1.47 / 31.0	915.9 Dt 13.1.47 / 911.0	100% Dt 5.1.47 / 83%	
3.1.47	0.12					
9.1.47	1.17					
25.1.47	0.04					
	1.71 inches					
February 1947						
2.2.47	0.03	73°F Dt 25.2.47 / 61.3	26°F Dt 15.2.47 / 36.3	913.8 Dt 22-23-2-47 / 909.6	100% Dt 5-6-15-23-2.47 / 82%	51° Dt 27.2.47 / 35°
3.2.47	0.49					
4.2.47	0.50					
5.2.47	0.03					
20.2.47	0.03					
21.2.47	0.45					
22.2.47	0.10					
27.2.47	0.26					
28.2.47	0.03					
	1.92					
March 1947						
2.3.47	0.10	81°F Dt 26-31.3.47 / 73°	38°F Dt 4.3.47 / 44°	910.0 Dt 23.3.47 / 907.2	100% Dt 4-12.3.47 / 84%	50° Dt 10-22.3.47 / 42°
10.3.47	0.65					
11.3.47	0.02					
21.3.47	0.31					
22.3.47	0.16					
	1.24					
April 1947						
Rain Nil		97°F Dt 18.4.47 / 84°	41°F Dt 20-22.4.47 / 48°	907.7 Dt 1.4.47 / 903.4	98% Dt 4.4.47 / 67%	64° Dt 29.4.47 / 47°
May 1947						
1.5.47	0.01	97°F Dt 16-17-22-31 / 91°	45°F Dt 6.5.47 / 56°	905.2 Dt 8.5.47 / 900.5	86% Dt 8.5.47 / 56%	64° Dt 16.5.47 / 53°
8.5.47	0.22					
9.5.47	0.33					
	0.56					
June 1947						
Rain - Nil		102°F Dt 3-7-25-6 / 97°	52°F 16-6.47 / 59°	897.0 Dt 18.6.47 / 894.2	75% Dt 20.6 / 56%	67° Dt 7.6.47 / 54°
July 1947						
Rain - Nil		108°F Dt 27.8.47 / 102°	55°F 1.8.47 / 63°	894.5 Dt 12.8.47 / 890.7	69% 2.8.47 / 51%	59° Dt 15-17.8.47 / 51°

Month and Date	Amount of Rainfall in inches RRR	Temperatures Maximum Highest / Mean	Temperatures Minimum Lowest / Mean	Barometer Pressure PPP (mb) Monthly Highest / Mean	Humidity % Monthly Highest / Mean	Dew Point TsTs Highest / Mean
August 1947						
Rain Nil	1	112°F Dt 14-17-18-2 / 107°	55°F Dt 30.8.47 / 69°	894.9 Dt 9-29/8/47 / 892.4	70% Dt 9/8/47 / 36%	64° Dt 6.8.47 / 51°
September 1947						
Rain Nil		105°F Dt 6-7-11-9 / 97°	45°F Dt 24-27-9-47 / 55°	903.8 Dt 21-9-47 / 897.5	62% Dt 12.9.47 / 38%	53° Dt 17-18/9/47 / 38°
October 1947						
Rain Nil		95°F Dt 2-10/47 / 85°	36°F Dt 19.10.47 / 43°	909.8 Dt 28.10.47 / 905.7	71% Dt 26.10.47 / 52%	50° Dt 31.10.47 / 33°
November 1947						
Rain - 14.11.47 - 0.12		88°F Dt 1-11-47-6-3-11-47 / 78°	31°F Dt 25-26-11-47 / 38°	911.8 Dt 19.11.47 / 909.0	92% Dt 15.11.47 / 73%	55° Dt 2-13-11-47 / 47°
December 1947						
Rain fall 4.12.47 - 0.09; 5.12.47 - 0.71; 6.12.47 - 0.85; Total 1.35		71°F Dt 2-12-43-12-47 / 61°	19°F Dt 29-3-3-12-47 / 28°	910.3 Dt 15-12-47 / 91.8	100% Dt 7-8-9-0-11-13-47 / 87%	50° Dt 5-11-47 / 36°

1948

Monthly Record of Rainfall, Maximum, Minimum Temperatures, Humidity and Barometer Pressure for the year 1948.
British Consulate Gandahar Observatory

Month & Date	Amount of Rainfall in Inches R R R	Temperatures Max. / Min. Fahrenheit Monthly highest / Monthly lowest Mean / Mean	Barometer Pressure P P I mb Monthly highest / Mean	Humidity % Monthly highest / Mean	Remarks
January 1948	27.1.48 - 0.21 28.1.48 - 0.14 Total - 0.40	71°F St. 7.1.48 / 63° 19°F St. [illegible] / 28°	915.9 St. 1.1.48 / 912.1	100% St. 25.29.1.48 / 81%	
February 1948	1.2.48 - 0.37 14.2.48 - 0.13 16.2.48 - 0.30 25.2.48 - 0.16 Total - 0.96	76°F St. 16.2.48 24°F St. 4.2.48	914.5 St. 6.2.48	100% St. 1.3.4.2.9/2/48	
March 1948	2.3.48 - 0.12 6.3.48 - 0.20 7.3.48 - 0.28 10.3.48 - 0.51 17.3.48 - 0.09 25.3.48 - 0.11 Total 1.31	88°F St. 30.3.48 / 72° 30°F St. 12.4.13.3.48 / 42°	910.3 St. 6.3.48 / 906.3	98% St. 26.3.48 / 73%	
April 1948	Rainfall. 8.4.48 - 0.30 9.4.48 - 0.07 10.4.48 - 0.03 17.4.48 - 0.01 18.4.48 - 0.04 30.4.48 - 0.07 0.52	95°F St. 1.25.6.25/4 / 84° 38°F St. 4.5/4/48 / 54°	908.3 St. 11/4/48 / 903.2	100% St. 3/4/48 / 69%	
May 1948	Rainfall - NIL -	100°F St. 6/5/48 / 94° 49°F St. 15/5/48 / 57°	900.6 St. 15/5/48 / 898.9	95% St. 1.15/5/48 / 54%	
June 1948	Rainfall - NIL -	104°F St. 21.22/6/48 / 97° 56°F St. 6.9/6/48 / 64°	898.3 St. 1.6.48 / 893.7	65% St. 2.6.48 / 42%	
July 1948	Rainfall - NIL -	105°F St. 12/7/48 / 101° 61°F St. 1/7/48 / 68°	895.2 St. 1/7/48 / 890.7	72% St. 28/7/48 / 54%	
August 1948	Rainfall - NIL -	105°F - 4.7.9/8/48 / 99° 54°F 25/8/48 / 63°	896.9 St. 31-8-48 / 892.8	93% St. 8.8.48 / 54%	
September 1948	Rainfall - NIL -	104°F St. 5/9/48 / 97° 44°F St. 29.9.48 / 53°	902.7 St. 29.9.48 / 898.6	74% St. 30.9.48 / 59%	

1948

Monthly [illegible]rd of Rainfall, Maximum, Minimum Temperatures, Humidity [illegible] Barometer Pressure for the year 1948.
[illegible]ritish Consulate Kandahar Observatory.

Month & Date	Amount of Rainfall in Inches R R R	Temperatures Max: Fahrenheit Monthly highest Mean	Temperatures Min: Fahrenheit Monthly lowest Mean	Barometer Pressure P P P mb Monthly highest Mean	Humidity % Monthly highest Mean	Remarks
October 1948	Rain NIL	93°F Dt. 4 10/48, 5 10/48, 7 10/48 / 85°	33°F Dt. 31.10.48 / 42°	911.5 Dt. 31.10.48 / 906.2	88 % 25.10.48 / 74 %	
November 1948	Rain NIL	81°F Dt. 16.11.48 / 72°	25°F Dt. 13 11/48, 6 11/48 / 29°	915.5 Dt. 13.11.48 / 912.4	94 % Dt. 12.11.48 / 75 %	
December 1948	Rainfall 19.12.48 - 0.12; 26.12.48 - 0.01; 30.12.48 - 0.12; Total - 0.25	76°F Dt. 1 12/48 / 61°	21°F Dt. 31.12.48 / 32°	916.0 Dt. 22 12/48 / 911.6	100 % Dt. 8 12/48, 17 12/48, 22 12/48 / 83 %	

1949

Monthly Record of Rainfall, Maximum, Minimum Temperatures, Dew Point and Barometer Pressure for the year 1949
British Consulate Kandahar Observatory.

Month and Date	Amount of Rainfall in Inches R R R	Temperatures Max: Fahrenheit Monthly highest Mean	Temperatures Min: Fahrenheit Monthly lowest Mean	Barometer Pressure P P P mb Monthly highest Mean	Dew Point Monthly highest Mean	Remarks
Jany. 1949	Rain fall 14.1.49 - 0.16; 24.1.49 - 0.03; 25.1.49 - 0.41	76F 19.20-28 / 56	19F 13 2/49 / 27	921.1 St. 10 2/49 / 913.2	46 St. 21 1/49 / 34	
Feby. 1949	Rain fall 1.2.49 - 0.18; 3.2.49 - 0.65; 5.2.49 - 0.04; 6.2.49 - 0.19	76F 28 2/49 / 62	23F 12 2/49 / 34	912.5 St. 15-16 2/49 / 907.8	47 St. 1 2/49 / 30	
March 1949	6.3.49 - 0.07; 7.3.49 - 0.02; 8.3.49 - 0.07; 9.3.49 - 1.47; 10.3.49 - 1.30; 11.3.49 - 0.91	89F 27 3/49 / 71	33F 4 3/49 / 43	912.2 St. 14 3/49 24 3/49 / 907.3	79 St. 27 3/49 / 51	Rain fall 12.3.49 - 0.03; 13.3.49 - 0.06; 14.3.49 - 0.18; 19.3.49 - 0.04; 20.3.49 - 0.26; Total 3.91
April 1949	5.4.49 - 0.13; 6.4.49 - 0.14; 9.4.49 - 0.06; Total 0.38	98F 28 4/49 / 76.9	40F 10 4/49 - 8 4/49 / 52	909.3 St. 10.4.49 / 904.1	89 St. 22.4.49 / 65	
May 1949	Rainfall - NIL -	100F St. 8.17 5/49 / 95	48F St. 3 5/49 / 60	906.6 St. 2 5/49 / 898.9	68 St. 7 5/49 - 21 5/49 / 59	
June 1949	Rainfall - NIL -	101F St. 25 6/49 / 94	52F 9 6/49 / 62	898.9 St. 13 6/49 / 894.3	75 St. 30 6/49 / 60	
July 1949	Rainfall - NIL -	104F St. 7.20 9/49 / 101	62F 26 7/49 / 66	890.3 St. 25 7/49 / 890.8	76 St. 11 7/49 - 28 7/49 / 61	
Aug. 1949	Rain 25 8/49 - 0.03 - NIL	103F St. 3 8/49 / 98	56F 21 8/49 / 63	899.3 St. 28 8/49 / 893.4	84 St. 4 8/49 / 78	
Sept. 1949	Rainfall - NIL -	105 St. 11 9/49 / 95	44F 17 9/49 / 54	901.8 St. 21 9/49 / 898.3	84 St. 11 8/49 / 76	
Octr. 1949	Rainfall - NIL -	45F St. 6 10/49 / 77	25F 27 10/49 / 38	913.2 St. 24 10/49 / 907.6	72 St. 1 10/49 - 3 10/49 / 47	
Novr. 1949	25.11.49 - 0.02; 26.11.49 - 0.15; Total 0.17	77F St. 4 11/49 / 66.7	22F St. 22 11/49 / 29.8	911.8 St. 20 - 30 11/49 / 909.6	49 St. 4 11/49 / 36.1	
Decr. 1949	9.12.49 - 0.10; 12.12.49 - 0.13; 15.12.49 - 0.02; 22.12.49 - 0.08; Total 0.33	73F St. 8 12/49 / 61.7	23F St. 24 12/49 / 30.2	916.6 St. 16 12/49 19 12/49 / 911.4	58 St. 28 12/49 30 12/49 / 45.7	

1950

Monthly Record of Rainfall, Maximum, Minimum Temperatures, Dew Point and Barometer Pressure for the year 1950.
Pakistan Consulate Kandahar Observatory.

Month and Date	Amount of Rainfall in Inches R R R	Temperatures Max: Fahrenheit Monthly highest / Mean	Temperatures Min: Fahrenheit Monthly lowest / Mean	Barometer Pressure P P P mb Monthly highest / Mean	Dew Point Monthly highest / Mean	Remarks
Jany. 1950.	11.1.50 = 0.06 12.1.50 = 0.40 13.1.50 = 0.04 18.1.50 = 0.31 26.1.50 = 0.11 28.1.50 = 1.82 29.1.50 = 1.40 Total 4.14	58	32	914.5 Bl. 9 1/50 908.2	55 Bl. 15.1.50 47	
Feby. 1950.	5.2.50 = 0.28 6.2.50 = 0.31 7.2.50 = 0.23 8.2.50 = 0.39	53.7	29.8	917.6 Bl. 21 2/50 911.2	59 Bl. 27.2.50 45.3	14.2.50 = 0.25 20.2.50 = 0.32 Total = 1.79
March 1950.	10.3.50 = 0.02 13.3.50 = 0.72 19.3.50 = 0.14 26.3.50 = 0.37 28.3.50 = 0.07 29.3.50 = 0.51	67.1	39.7	914.5 Bl. 4 3/50 907.7	59 Bl. 8.3.50 44.8	31.3.50 = 0.15 Total = 1.98
April 1950.	1.4.50 = 0.20 2.4.50 = 0.39 Total = 0.59	[illegible]	46.1	909.3 Bl. 22 4/50 904.9	56 Bl. 26 4/50 43.8	
May 1950.	7.5.50 = 0.06 8.5.50 = 0.05 9.5.50 = 0.12 10.5.50 = 0.02 Total = 0.30	91.0	57.0	904.1 Bl. 5 5/50 899.9	74 Bl. 18 5/50 & 27 5/50 61.3	
June 1950.	— NIL —	[illegible]	59.7	897.9 Bl. 5 6/50 893.1	85 Bl. 14 6/50 & 15 6/50 76.2	
July 1950.	— NIL —	101.0	68	893.5 Bl. 8 7/50 890.0	87 Bl. 27 7/50 77	
Aug. 1950.	— NIL —	[illegible]	61.7	896.2 Bl. 21 9/50 891.4 (24 days)	84 Bl. 28 8/50 77.9	
Sept. 1950.	— NIL —	91.3	47.3	xxx. +	78 Bl. 10 9/50 69.6	
[illegible] 1950.	— NIL —	[illegible]	[illegible]	902.6 Bl. 27 13/50 898.8	61 Bl. 1 10/50 45.1	
[illegible]	[illegible]	[illegible]	[illegible]	907.5 Bl. 25 [illegible] 904.1	46 Bl. 22 [illegible] 38.6	
[illegible]	— NIL —	[illegible]	[illegible]	[illegible] Bl. [illegible] 902.2	[illegible] Bl. 19 [illegible] 40.2	

1951

Monthly Record of Rainfall, Maximum, Minimum temperatures, Dew Point and Barometer Pressure for the year 1951.

Pakistan Consulate Kandahar Observatory.

Month and Date	Temperatures MAX Fahrenheit Monthly Highest Mean	Temperatures MIN Fahrenheit Monthly Lowest Mean	Barometer Pressure PPP mb Monthly highest Mean	Dew Point Monthly highest Mean	Amount of Rainfall in Inches
Jany 1951	78.72F ☐ 24 1/51 / 61	29F ☐ 28 1/51 / 30	912.5 ☐ 3 1/51 / 904.2	56 ☐ 7 1/51 / 50	5-1.51 — 0.48 10.1.51 — 0.14 Total — 0.62
Feb 1951	78.0F ☐ 28 3/51 / 70	14.0F ☐ 2 2/51 3 2/51 / 20	907.4 ☐ 14 2/51 / 902.2	58 ☐ 27 2/51 / 50	5 2/51 — 0.01 6 2/51 — 0.11 7 2/51 — 1.60 8 2/51 — 0.86 9 2/51 — 0.10 Total — 2.68
March 1951	78F ☐ 5 3/51 / 67.4	32F ☐ 10 3/51 / 40.6	904.0 ☐ 1 3/51 11 3/51 / 898.7	49 ☐ 15 3/51 16 3/51 / 41.6	5 3/51 — 0.03 6.3.51 0.24 8.3.51 0.03 9.3.51 0.05 0.35 0.35 10 3/51 0.14 15 3/51 0.25 16 3/51 0.25 17 3/51 0.31 18 3/51 — 0.16 22 3/51 — 0.16 23 3/51 — 0.03 24 3/51 0.36 25 3/51 0.14
April 1951	95F ☐ 30 4/51 / 80.1	36F ☐ 7 4/51 / 47.2	904.4 ☐ 9 4/51 15 4/51 / 896.2	54 ☐ 22 4/51 / 45.4	1.4.51 0.56 23.4.51 0.02 — ~~Nil~~ — 29 2/51 — 0.61 31 2/51 — 0.19
May 1951	101F ☐ 19 5/51 20 5/51 / 91.0	49F ☐ 3 5/51 8 5/51 / 57.9	898.7 ☐ 8 5/51 / 893.6	72 ☐ 21 5/51 / 57.2	— ~~Nil~~ — 4.5.51 0.09 5.5.51 1.42 6.5.51 0.33 7.5.51 1.26
June 1951	105F ☐ 29 6/51 / 96.2	51 ☐ 3 6/51 4 6/51 / 56.3	891.5 ☐ 27 6/51 / 887.3	74 ☐ 2 6/51 / 57.7	— NIL —
July 1951	105F ☐ 10 26 28 / 100	52F ☐ 3 7/51 / 60.5	889.1 ☐ 9 7/51 / 886.4	70 ☐ 26 7/51 / 58.5	— NIL —
Aug 1951	105F ☐ 4 8/51 8 8/51 / 99.3	46F ☐ 30 8/51 / 58.0	893.6 ☐ 31 8/51 / 887.4	73 ☐ 8 8/51 30 8/51 / 68	— NIL —
Sept 1951	101F ☐ 4 9/51 / 96.9	43F ☐ 30 9/51 / 50.0	896.3 ☐ 29 9/51 / 893.0	76 ☐ 3 9/51 / 64	— NIL —
Octr 1951	98F ☐ 6 10/51 6 10/51 / 91.7	40F ☐ 31 10/51 / 48.0	905.3 ☐ 29 10/51 / 896.7	74 ☐ 0 10/51 / 57.3	— NIL —
Novr 1951	85F ☐ 1 11/51 26 11/51 / 75.9	25F ☐ 14 11/51 / 31.7	906.7 ☐ 29 11/51 / 901.2	56 ☐ 9 11/51 / 41.4	— NIL —
Decr 1951	77F ☐ 23 12/51 / 67.5	25F ☐ 5 12/51 14 12/51 / 26.7	905.7 ☐ 5 12/51 / 902.6	52 ☐ 8 12/51 25 12/51 / 37	25.12.51 = 0.05 26.12.51 = 0.45 27.12.51 = 0.09 Total = 0.59

BRITISH [illegible] KANDAHAR.

Monthly Record of RAINFALL, MAXIMUM AND MINIMUM TEMPERATURES and HUMIDITY. [illegible] the year 194[illegible]. Latitude 64°. Longitude 32°.

Elevation = 3462.

Date.	Rainfall Amount in Inches.	Temperature Fahrenheit Max. Monthly Highest Mean	Min. Monthly Lowest Mean	Barometer Pressure. Monthly Highest Mean	% Monthly Highest Mean
January 194[illegible]					
11.1.4[illegible]	003				
14.1.4[illegible]	017				
15.1.4[illegible]	005	62°/s	29°/s	26.92/s	92%/s
16.1.4[illegible]	012				
17.1.4[illegible]	023				
18.1.4[illegible]	002				
29.1.4[illegible]	119				
30.1.4[illegible]	300				
31.1.4[illegible]	009				
Total	4.90				
FEBUARY 194[illegible]					
3.2.4[illegible]	017				
6.2.4[illegible]	002				
10.2.4[illegible]	004	40°/27.3.40	29°/16.2.40	27.003/16.2.40	91%/18.5.40
12.2.4[illegible]	003	60.9	37.9	27.615	64.5%
13.2.4[illegible]	038				
14.2.4[illegible]	004				
28.2.4[illegible]	035				
TOTAL	1.03				
MARCH 194[illegible]					
13.3.4[illegible]	003	75°/13.3.40	31°/16.3.40	[illegible]	[illegible]
14.3.4[illegible]	040	66.0	41	26.047/29.3.40	50%
15.3.4[illegible]	004			26.705	
28.3.4[illegible]	005				
TOTAL	052				
APRIL 194[illegible]					
10.4.4[illegible]	003	96°/4/40	33°/2/40	26.926/2/40	64°/10/40
30.4.4[illegible]	004	61.0	50.0	26.656	41%
Total	007				
MAY 194[illegible]					
—	NIL	107°/4/40	44°/1/40	26.629/6/40	69°/13/40
		93	59	26.423	36%
JUNE 194[illegible]					
—	NIL	111°/26/6	54°/6/40	26.515/10/6/40	55°/24/6/40
		101.0	65.0	26.305	27%
JULY 194[illegible]					
—	NIL	107°/3/4	63°/14/2	26.592/11/4	61°/3/4
		103.0	64.0	26.262	26%
AUGUST 194[illegible]					
—	NIL	96°/4/4	52°/4	26.397/7	44°/6/4
					22%
SEPTEMBER 194[illegible]					
—	NIL.	97°/4/5.2.40	47°/1/29/2	26.669/29/2	46°/6/19/2
		93.0	54.0	26.494	30%
OCTOBER 194[illegible]					
24.10.4[illegible]	003	90°/5/4.11.37/6	43°/5/3.5/6	26.[illegible]/29/10	66°/25/11
Total	003	45.0	46.0	26.759	37%
NOVEMBER 194[illegible]					
—	NIL	82°/5/20.5	31°/23/4	26.963/22/4	64°/23/4
		75.0	34.0	26.474	[illegible]%
DECEMBER 194[illegible]					
6.12.4[illegible]	135	73°/4/12	35°/21/12	27.227/26/12	96°/6/12
7.12.4[illegible]	014	61.0	33.0	27.079	75%
23.12.4[illegible]	002				
24.12.4[illegible]	011				
Total	1.62				

194[illegible]

TOTAL RAINFALL of the year = [illegible]

HIGHEST TEMPRATURE of the year = 111.0° on 27.6.40

LOWEST " " " " = 25.0° on 21.12.40

British Consulate, K A N D A H A R

Record of RAIN FALL for the year 1939.

(8 A.M. to 8 A.M. 24 hourly record)

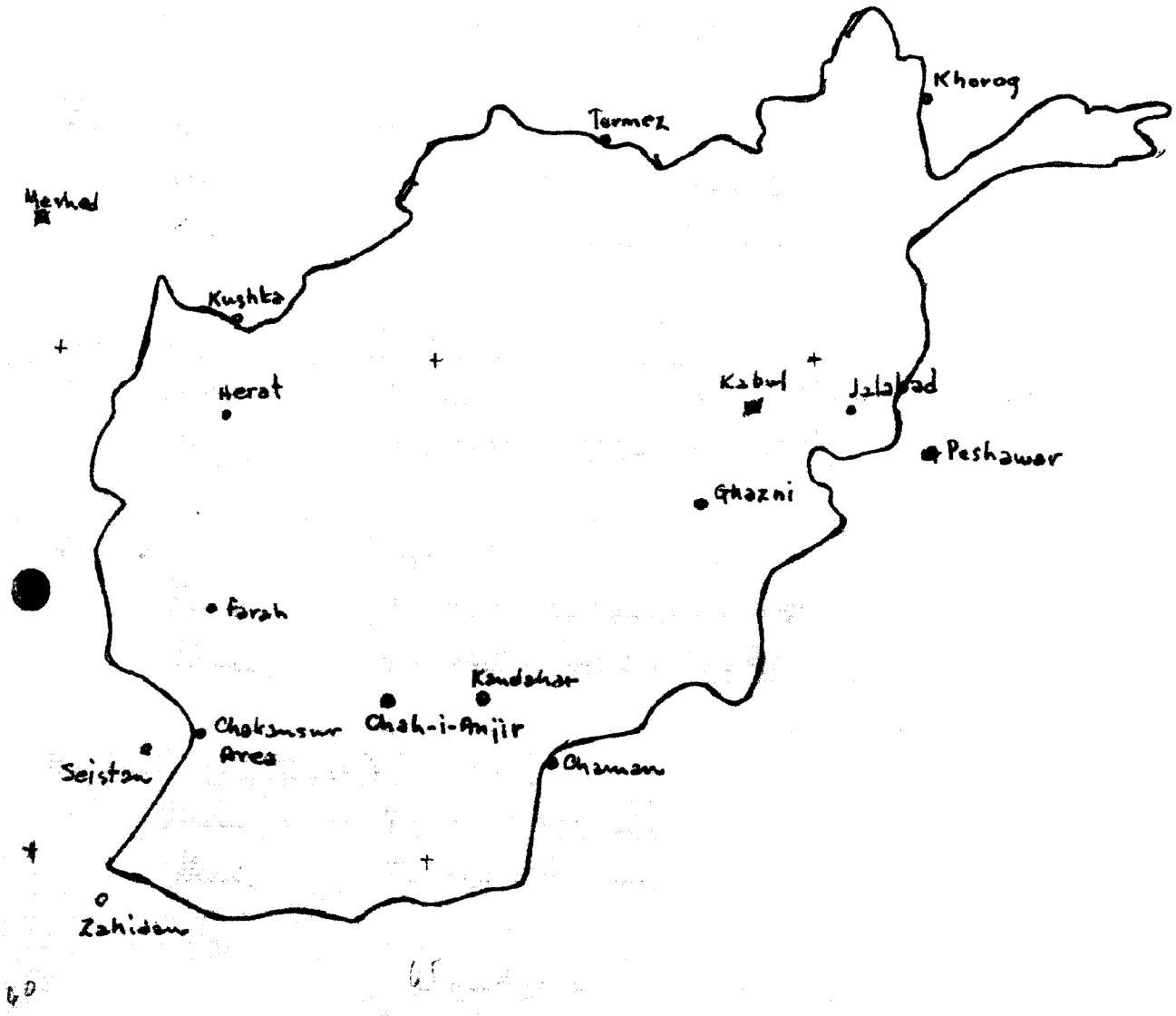
Date	Amount in Inches		Date	Amount in Inches		Date	Amount in Inches
18.1.39	1.0	Jan. 3.47	29.3.39	0.10	March 0.18		
19.1.39	1.44		30.3.39	0.11			
29.1.39	1.03		4.4.39	0.11	April 1.35		
12.2.39	0.33	Feb. 3.89	10.4.39	0.34			
15.2.39	0.51		11—4.39	0.74			
16.2.39	0.13		12.4.39	0.05			
22.2.39	0.89		14.4.39	0.05			
24.2.39	0.22		15.4.39	0.02			
26.2.39	0.48		9.5.39	0.05	May .05		
27.2.39	1.30		21.12.39	0.05	Dec 0.47		
28.2.39	0.02		22.12.39	0.20			
1.3.39	0.03		23.12.39	[illegible]			
4.3.39	0.09		24.12.39	0.04			
7.3.39	1.05						
20.3.39	0.12						
21.3.39	0.25						
23.3.39	0.14						
25.3.39	0.04						
27.3.39	0.12						
28.3.39	0.23						

Grand Total :- 12.20

WORK SHEETS

Stations, location and period of record,

Kabul	34°30'N	69°13'E	5955 ft	1944 - 1947
Chah-i-Anjir	31°38'N	64°20'E	(~~3100 ft~~)	1951 - 1953
Kandahar	31°30'N	65°41'E	3462 ft	1939 - 1953
Farah	32°24'N	62°07'E	2460 ft	1944 - 1946
Herat	34°20'N	62°09'E	3030 ft	1941 - 1948
Ghazni	33°44'N	68°18'E	7279 ft	1944 - 1947
Jalalabad	34°26'N	70°27'E	1950 ft	1940 - 1947
Seistan	31°07'N	61°30'E	(India Monthly)	



Base Map

Based on National Geographic

Afghanistan temperatures (monthly means of max & min)
Harmonic constants.

~~Chakhansur~~ Chah-i-Anjir

Max $T = 86.0 + 27.7 \sin(x + 280°)$

Min $T = 52.1 + 21.7 \sin(x + 292°)$

Farah Farah

Max $T = 84.6 + 23.5 \sin(x + 273°)$

Min $T = 54.1 + 21.3 \sin(x + 279°)$

Ishagzai Ishagzai

Max $T = 63.4 + 27.3 \sin(x + 269°) + 4.0 \sin(2x + 276°)$

Min $T = 35.4 + 22.3 \sin(x + 271°)$

Herat Herat

Max $T = 75.7 + 23.3 \sin(x + 267°) + 3.0 \sin(2x + 285°)$

Min $T = 48.0 + 20.12 \sin(x + 273°) + 3.27 \sin(2x + 56°)$

Kabul (normal) Kabul

Max $T = 67.7 + 25.9 \sin(x + 261°) + 2.4 \sin(2x + 258°)$

Min $T = 41.4 + 19.1 \sin(x + 270°) + 1.0 \sin(2x + 280°)$

Kandahar Kandahar

Max $T = 81.1 + 21.9 \sin(x + 267°) + 2.4 \sin(2x + 278°)$

Min $T = 47.0 + 17.5 \sin(x + 281°) + 1.6 \sin(2x + 40°)$

Jalalabad Jalalabad

Max $T = 83.9 + 21.5 \sin(x + 269°) + 2.6 \sin(2x + 242°)$

Min $T = 58.4 + 22.3 \sin(x + 273°) + 1.6 \sin(2x + 25°)$

WB Form 9302 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Kandahar and Chah-i-Anjir State _____ Country Afghanistan

Latitude ____°, ____', N. S. Longitude ____°, ____', E. W. Elevation ____ m. ____ ft.

Data Comparative. Temperature Units (definition) °F Hour(s) of observation _____

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
Mean monthly maximum															
1952 K	54.9	64.2	74.2	89.2	96.5	106.5	106.0	101.1	91.6	78.3	68.8	59.0			
1952 Ch	57.6	67.1	76.8	94.7	103.0	111.1	110.7	104.3	96.8	83.0	70.3	59.1			
Ch-K	+2.7	+2.9	+2.6	+5.5	+6.5	+4.6	+4.7	+3.2	+5.2	+4.7	+1.5	+0.1			
1953 K	59.1	65.3	75.3	85.7											
1953 Ch	60.2	68.4	79.1	93.9											
Ch-K	+1.1	+3.1	+3.8	+8.2											
Mean	+1.9	+3.0	+3.2	+6.9	+6.5	+4.6	+4.7	+3.2	+5.2	+4.7	+1.5	+0.1			
Mean monthly minimum															
1952 K	31.5	38.7	45.6	61.3	62.2	70.8	74.3	68.8	57.1	45.2	35.7	29.1			
1952 Ch	33.3	40.2	48.5	63.1	67.1	72.9	74.9	66.9	55.5	40.8	34.3	29.0			
Ch-K	+1.8	+1.5	+2.9	+1.8	+4.9	+2.1	+0.6	-1.9	-1.6	-4.4	-1.4	-0.1			
1953 K	31.1	43.3	47.6	52.5											
1953 Ch	29.4	44.4	48.3	58.3											
Ch-K	-1.7	+1.1	+0.7	+5.8											
Mean	0.0	+1.3	+1.8	+3.8	+4.9	+2.1	+0.6	-1.9	-1.6	-4.4	-1.4	-0.1			
$\frac{d_m + d_m}{2}$	+1.0	+2.2	+2.5	+5.4	+5.7	+3.4	+2.7	+0.7	+1.8	+0.2	+0.1	0.0	+2.1		
Years															
Sums															
Means (Ch+d)	45.0	52.7	62.0	75.4	84.8	88.7	91.2	84.6	76.8	66.1	52.4	44.1			
Means ( )	"comparative normal"														

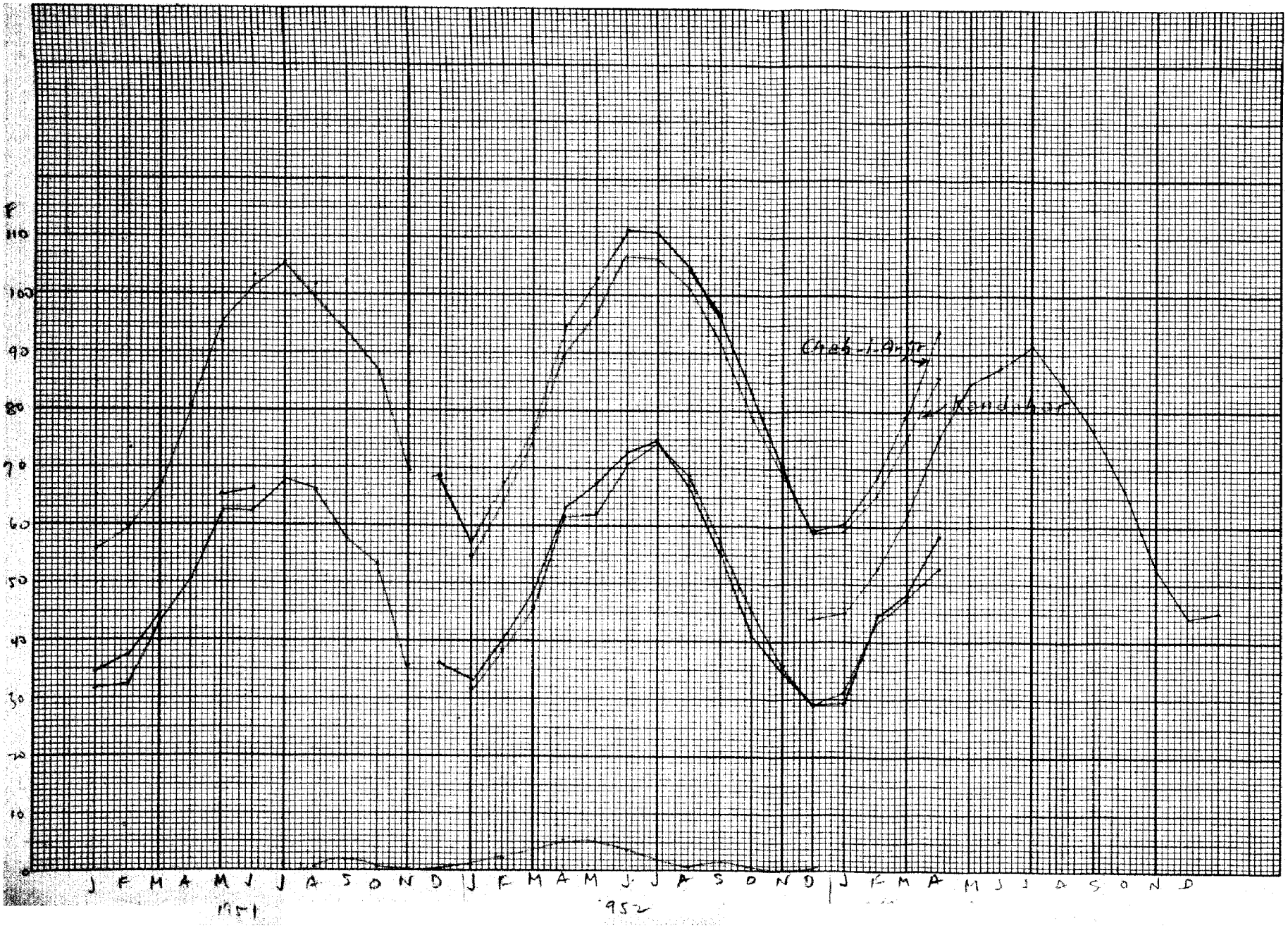
REFERENCES AND REMARKS

p. _____

c. _____

✓ _____

(WB—2-27-47—5M) 278


F
110
100
90
80
70
60
50
40
30
20
10
0
Cheb-i-Anjir
Kandahar
J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
1951
1952

WB FORM 920-1
(Formerly 5003)

Chah-i-Anjir

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

~~Chakhansur~~ Mean maximum temperature

Harmonic Smoothing

Sheet of

Computed by	Date	Checked by	Date

			Cos.		Sin.	
Jan	58.9	-27.1	1.	-27.1	0	0
Feb	67.8	-18.2	.866	-15.8	.5	-9.1
Mar	77.9	-8.1	.5	-4.1	.866	-7.0
Apr	92.8	+6.8	0	0	1	+6.8
May	103.0	+17.0	-.5	-8.5	.866	+14.7
June	107.2	+21.2	-.866	-18.4	.5	+10.6
July	110.6	+24.6	-1	-24.6	0	0
Aug	104.3	+18.3	-.866	-15.8	-.5	-9.1
Sept	93.7	+7.7	-.5	-3.9	-.866	-6.7
Oct	83.0	-3.0	0	0	-1	+3.0
Nov	70.3	-15.7	.5	-7.9	-.866	+13.6
Dec	62.9	-23.1	.866	-20.0	-.5	+11.6
	1032.4			+146.1		+27.8
	86.0		(M)	-24.4		+4.6
	0	.5				

$p_1 = -24.4$ log 27.3 = 1.43616

$q_1 = +4.6$ log 4.6 = 0.66276

$(A_1) = 80°26'$ log tan A_1 0.77340

$a_1 = 27.7$ log 27.3 = 1.43616

$A = 280.$ log sin A_1 = 7.99392

a_1 27.7 1.44224

$T = 86.0 + 27.7 \sin (x + 280)$

Jan	0	-80	.98481	-27.3	58.7
Feb	30	-50	.76604	-21.2	64.8
Mar	60	-20	.34202	-9.5	76.5
April	90	+10	.17365	4.8	90.8
May	120	+40	.64279	17.8	103.8
June	150	+70	.93969	26.0	112.0
July	180	+80		27.3	113.3
Aug	210	+50		21.2	107.2
Sept	240	+20		9.5	95.5
Oct	270	-10		-4.8	81.2
Nov	300	-40		-17.8	68.2
Dec	330	-70		-26.0	60.0

Commerce-Weather Bureau, Washington, D. C.

WB FORM 920-1
(Formerly 5008)

Chah-i-Bahar

U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

~~Chokhansur~~ Mean minimum temperature

Harmonic smoothing

Sheet of

Computed by Date Checked by Date

			Cos		sin	
Jan	32.3	-19.8	1	-19.8	0	0
Feb	40.6	-11.5	.866	-10.0	.5	-5.8
Mar	47.0	-5.1	.5	-2.6	.866	-4.4
April	60.6	+8.5	0	0	1	+8.5
May	67.2	+15.1	-.5	-7.6	.866	+13.1
June	72.9	+20.8	-.866	-18.0	.5	+10.4
July	74.9	+22.8	-1	-22.8	0	0
Aug	66.8	+14.7	-.866	-12.7	-.5	-7.4
Sept	55.4	+3.3	-.5	-1.7	-.866	-2.9
Oct	40.8	-11.3	0	0	-1	+11.3
Nov	34.3	-17.8	.5	-8.9	-.866	+15.4
Dec	32.6	-19.5	.866	-16.9	-.5	+9.8
	605.4			-121.0		+48.0
	52.1			-20.2		+8.0
	.2	.2				

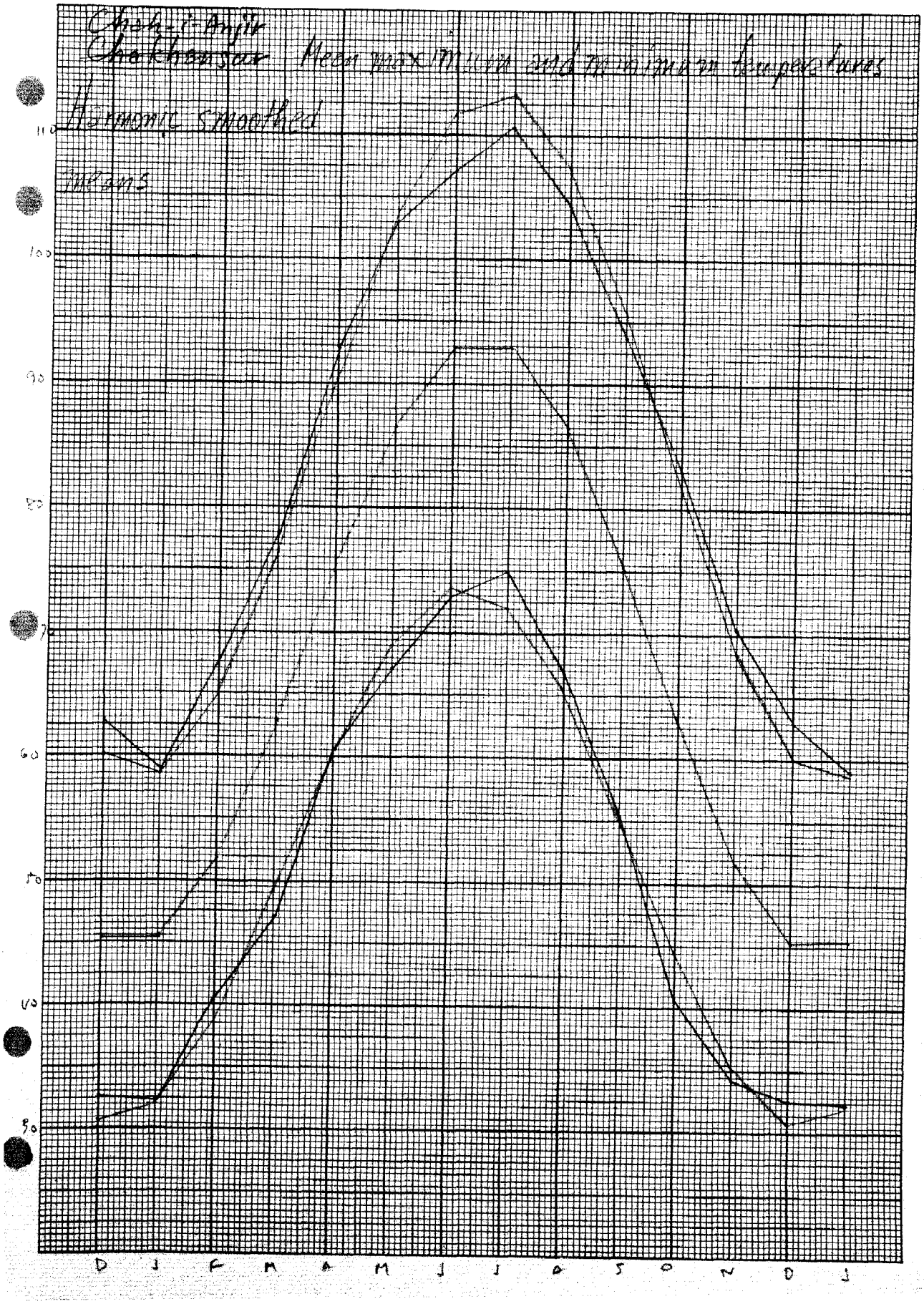
$p_1 = -20.2$ log 20.2 = 1.30535
$q_1 = +8.0$ 8.0 = 0.90309
$(A_1) = 68°24'$ lt A_1 68°24' = 0.40226

$a_1 = 21.7$ log 20.2 = 1.30535
$A_1 = 24$ ls A_1 7.96838
a_1 21.7 1.33697

$T = 52.1 + 21.7 \sin(x + 24)$

Jan	0	-68	.92718	-20.1	32.0
Feb	30	-38	.61566	-13.4	38.7
Mar	60	-8	.13917	-3.0	49.1
Apr	90	+22	.37461	+8.1	60.2
May	120	+52	.78801	+17.1	69.2
June	150	+82	.99027	+21.5	73.6
July	180			+20.1	72.2
Aug	210			+13.5	65.5
Sept	240			+3.0	55.1
Oct	270			-8.1	44.0
Nov	300			-17.1	35.0
Dec	330			-21.5	30.6

Commerce-Weather Bureau, Washington, D. C.


Chah-i-Anjir
Mean maximum and minimum temperatures
Harmonic Smoothed
means
110
100
90
80
70
60
50
40
30
D J F M A M J J A S O N D J

WB Form 1078B (172)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

Data, Farah Afg. Mean Max Temp.

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Farah 1944	—	66.0	76.3	86.2	97.9	103.8	110.7	105.1	94.5	87.6	~~86.7~~	—	
Herat	—	59.0	70.3	76.3	91.0	95.5	101.3	96.6	85.8	79.2	68.0	—	
Zahidan	—	62.8	72.6	81.6	90.1	97.0	101.5	96.2	86.7	81.5	72.0	—	
Seistan	—	68.7	79.1	87.4	98.7	104.1	109.8	102.0	93.0	—	—	—	
Ratio	—	.346	.344	.351	.350	.350	.353	.357	.356			—	
1945	55.2	64.2	76.8	~~93.9~~	—	—	104.5	~~92.7~~	96.3	84.9	76.5	~~70.7~~	
Herat	50.4	OR 52.2	64.6	77.0	—	—	96.3	95.4	89.4	84.4	66.4	54.3	
Zahidan	53.4	62.0	74.5	80.4	—	—	98.1	97.8	89.5	83.0	72.3	59.3	
Seistan	—	—	—	—	—	—	—	—	—	—	—	62.0	
R					—	—						.403	
1946	~~70.7~~	~~95.2~~	100.9	87.6	100.8	104.7	105.3	97.0	~~99.7~~	—	—	—	
Herat	48.2	59.0	66.0	83.1	92.8	95.0	97.3	92.5	90.1	—	—	—	
Zahidan	55.0	64.1	70.9	87.1	94.7	96.6	97.9	93.8	88.4	—	—	—	
Seistan	57.4	67.4	77.9	92.1	101.4	102.6	103.7	100.5	95.3	—	—	—	
R	.440			.334	.349	.356	.352	.338	.364	—	—	—	
F/S 1944	(993) ~~(998)~~	.96 6	.96 3	.98 6	.99 2	.99 7	1.01	1.03	1.02	(993) ~~(998)~~	~~(998)~~	~~(998)~~	
1945	×	×	×	×	—	—	×	×	×	×	×	~~1.14~~	
1946	~~1.23~~			.95 1	.99 4	1.02	1.02	.96 5	~~1.04~~	—	—	—	
F/Z 1944	—	1.05	1.05	1.06	1.08 9	1.07	1.09	1.09	1.09	1.08 7	~~1.20~~	(1.06)	
1945	1.04 3	1.04	1.03	~~1.17~~	—	—	1.07	~~1.09~~	1.07 8	1.02	1.06	~~1.19~~	
1946	~~1.23~~			1.01	1.06 1.16	1.08	1.08	1.07	~~1.13~~	—	—	—	
F/H 1944	—	1.12	1.08	1.13	1.07	1.08	1.09	1.09	1.10	1.11	—	—	
1945	1.10	1.23	1.19	—	—	—	1.09	—	1.08	1.00	1.15	—	
1946	—	—	—	1.05	1.09	1.10	1.08	1.05	~~1.11~~	—	—	—	
"Normal" based													
on Seistan		62.4	70.4	82.5	92.8	99.8	109.4	99.6	96.0			61.0	by ~~slide~~ rule
" Zahidan	55.8	64.0	69.5	80.9	100.0	103.3	106.0	101.0	95.2	84.2	73.0	61.6	
" Mean	55.8	63.2	70.0	81.7	96.4	101.6	107.7	100.3	95.6	84.2	73.0	61.3	

Using a constant factor:

REMARKS

Seistan .993	56.3	63.9	72.5	84.3	93.1	100.0	102.6	100.1	93.3	84.2	71.0	60.6	machine
Zahidan 1.06	56.8	64.8	70.9	82.8	94.8	101.9	103.9	101.1	93.4	85.0	72.9	61.6	
Mean	56.6	64.4	71.7	83.6	94.0	101.0	103.3	100.6	93.4	84.6	72.0	61.1	82.2
$\frac{M+m}{2}$	44.0	50.7	57.5	68.9	78.5	85.5	88.4	85.4	76.9	67.2	55.7	47.2	
Minor from Herat (factor .919)	53.5	59.6	67.5	~~80.4~~	92.5	101.4	104.7	102.1	94.0	83.6	70.9	58.9	80.8

WB Form 1078B (172)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

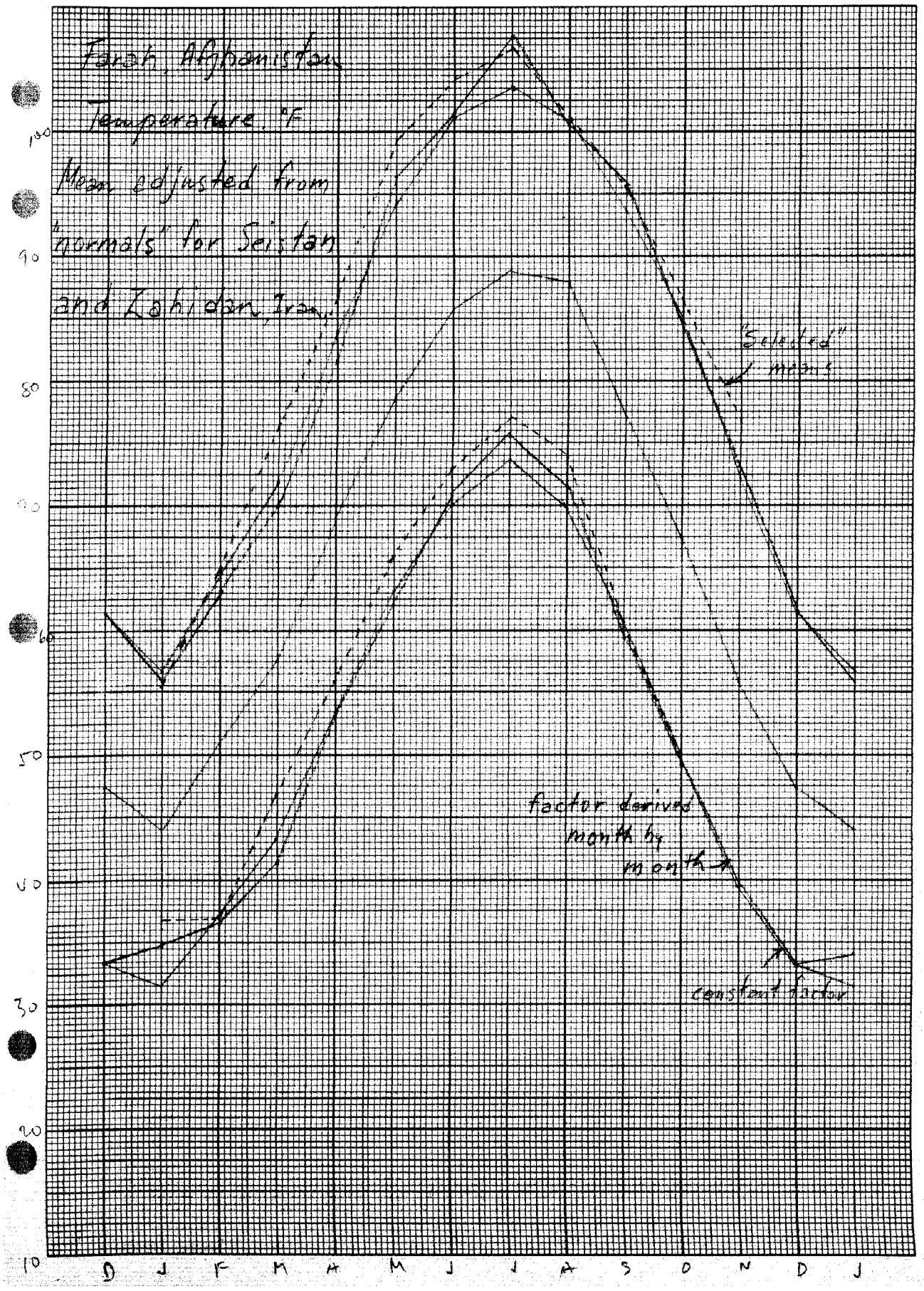
Data, Farah. Minimum Temperature

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Farah 1944	-	36.9	48.7	55.9	66.0	72.9	77.4	73.2	61.3	50.7	~~50.7~~	—	
Herat		34.3	45.1	49.1	58.5	65.8	77.2	71.4	58.3	44.8	37.9		
Seistan		38.4	51.6	66.4	70.4	76.2	84.1	78.7	68.5	54.6	45.2		
Zahidan		36.1	47.0	53.3	63.2	67.5	71.8	66.4	53.5	47.8	40.4		
F/(H+S+Z)		.313	.339	.331	.344	.348	.332	.338	.292	.344	—		
Farah 1945	36.7	~~36.0~~	45.1	~~60.1~~	—	—	~~83.7~~	~~65.9~~	59.2	48.6	~~51.3~~	~~47.3~~	
Herat	38.7	30.4	38.7	46.0			71.2	70.2	58.6	43.9	37.8	35.8	
Seistan	34.7	34.7	48.1	57.5			79.2	79.5	(68.7)	52.6	46.9	32.6	
Zahidan	31.6	36.1	47.7	53.7			68.6	67.7	56.3	45.8	42.9	30.6	
F/(H+S+Z)	.346	.356	.335	.382			.382	.302	.322	.342	.402	.478	
Farah 1946	~~46.9~~	~~49.1~~	~~52.3~~	~~49.3~~	~~63.9~~	~~65.5~~	76.5	74.3	60.4	—	—	—	
Herat	29.3	37.0	42.6	51.4	61.0	68.2	70.5	74.3	59.7				
Seistan	34.3	41.4	49.5	62.4	71.0	76.1	77.5	77.9	70.4				
Zahidan	31.5	39.1	44.1	58.1	63.1	68.2	68.0	(64.5)	54.5				
	.493	.418	.384	.287	.328	.308	.354	.343	.327				
F/S 1944	—	.961	.942	.848	.939	.957	.920 ~~.918~~	.930	.895	.928	.931 ~~(.936)~~	~~(.934)~~	
1945	1.06	1.04	.937	1.05	—	—	1.06	.827	(.861)	.925	1.04	1.50	
1946	1.36	1.19	1.06	.790	.900 ~~.989~~	.861	.987	.955	.858	—	—	—	
F/Z 1944	—	1.02	1.04	1.05	1.04	1.08	1.08	1.10	1.14	1.06	(1.08)	(1.08)	
1945	1.16	.998	.945	1.12	—	—	1.22	.970	1.05	1.06	1.20	1.55	
1946	1.48	1.26	1.18	.848	1.01	.960	1.13	(1.15)	1.11				
F/H 1944	—	1.08	1.08	1.13	1.14	1.11	1.00	1.03	1.05	1.13	—	—	
1945	.948	1.18	1.16	1.31	—	—	1.16	.935	1.01	1.11	1.36	1.32	
1946	1.60	1.33	1.22	.961	1.05	.960	1.08	1.00	1.01				
"Normals"													
from Seistan	~~35.6~~	~~37.3~~	~~43.9~~	~~54.1~~	~~62.9~~	~~71.0~~	~~75.5~~	~~72.0~~	~~58.5~~	~~49.9~~	~~39.4~~	~~33.0~~	
" Zahidan	33.6	35.6	38.6	52.5	61.0	70.5	75.4	70.9	60.3	48.5	39.6	33.4	
mean of S+Z	34.6	36.5	41.3	53.3	62.0	70.8	75.5	71.5	59.4	49.2	39.5	33.2	

Using a constant factor

REMARKS

Seistan (.931)	31.2	36.1	43.5	54.1	62.4	69.1	73.6	71.1	62.1	50.2	39.2	32.8
Zahidan (1.08)	31.3	37.8	42.8	54.1	63.5	70.6	73.3	68.0	58.6	49.5	39.4	33.5
[illegible]an	31.3	37.0	43.2	54.1	63.0	69.9	73.5	69.6	60.3	49.8	39.3	33.2


Farah, Afghanistan
Temperature °F
Mean adjusted from
"normals" for Seistan
and Zahidan, Iran
"Selected" means
factor derived month by month
constant factor
100
90
80
70
60
50
40
30
20
10
D
J
F
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J

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Farah Afghanistan Mean Monthly Maximum Temperatures
Harmonic Smoothing

Sheet of

Computed by Date Checked by Date

			Cos		Sin	
Jan	55.2	-29.4	1	-29.4	0	0
Feb	65.1	-19.5	.866	-16.9	.5	-9.8
Mar	76.6	-8.0	.5	-4.0	.866	-6.9
Apr	86.9	+2.3	0	0	1	+2.3
May	99.4	+14.8	-.5	-7.4	.866	+12.8
June	104.3	+19.7	-.866	-17.1	.5	+9.9
July	106.8	+22.2	-1	-22.2	0	0
Aug	101.1	+16.5	-.866	-14.3	-.5	-8.3
Sept	95.4	+10.8	-.5	-5.4	-.866	-9.4
Oct	86.3	+1.7	0	0	-1	-1.7
Nov	76.5	-8.1	.5	-4.1	-.866	+7.0
Dec	(61.1)	-23.5	.866	-20.4	-.5	+11.8
	1014.7			-141.2		+7.7
	84.6			-23.5		+1.3
	-.5	-.5				

$p_1 = -23.5$ log 23.5 = 1.37107
$q_1 = +1.3$ 1.3 = 0.11394
$(A_1) = 86°50'$ lt A_1 1.25713

a_1 23.5 log 23.5 1.37107
$A_1 = 273°$ log sin A_1 7.99934
23.5 1.37173

T = 84.6 + 23.5 (sin x + 273°)

Jan	0	-87	.99863	-23.5	61.1
Feb	30	-57	.83867	-19.7	64.9
Mar	60	-27	.45399	-10.7	73.9
Apr	90	+3	.05234	+1.2	85.8
May	120	+33	.54464	+12.8	97.4
June	150	+63	.89101	+20.9	105.5
July	180	+87		+23.5	108.1
Aug	210			+19.7	104.3
Sept	240			+10.7	95.3
Oct	270			-1.2	83.4
Nov	300			-12.8	71.8
Dec	330			-20.9	63.7

Grid 10 May 54

Commerce-Weather Bureau, Washington, D. C.

WB FORM 920-1
(Formerly 5008)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Farah, Afghanistan Mean Monthly Minimum Temperature
Harmonic Smoothing

Sheet of

Computed by Date Checked by Date

			cos		sin	
Jan	36.7	-17.4	1.	-17.4	0	0
Feb	36.9	-17.2	.866	-14.9	.5	-8.6
Mar	46.9	-7.2	.5	-3.6	.866	-6.2
Apr	55.9	+1.8	0	0	1	+1.8
May	66.0	+11.9	-.5	-6.0	.866	+10.3
June	72.9	+18.8	-.866	-16.3	.5	+9.4
July	77.0	+22.9	-1	-22.9	0	0
Aug	73.8	+19.7	-.866	-17.1	-.5	-9.9
Sept	60.3	+6.2	-.5	-3.1	-.866	-5.4
Oct	49.7	-4.4	0	0	-1	+4.4
Nov	(39.3)	-14.8	.5	-7.4	-.866	+12.8
Dec	(33.2)	-20.9	.866	-18.1	-.5	+10.5
	608.6			-126.8		+19.1
	54.1			-21.1		+3.2
	-.6	-.6				

$f_1 =$ -21.1 Log 21.1 1.32428
$g_1 =$ +3.2 3.2 0.50515
$(A_1) =$ 81°23' log tan A_1 = 0.81913

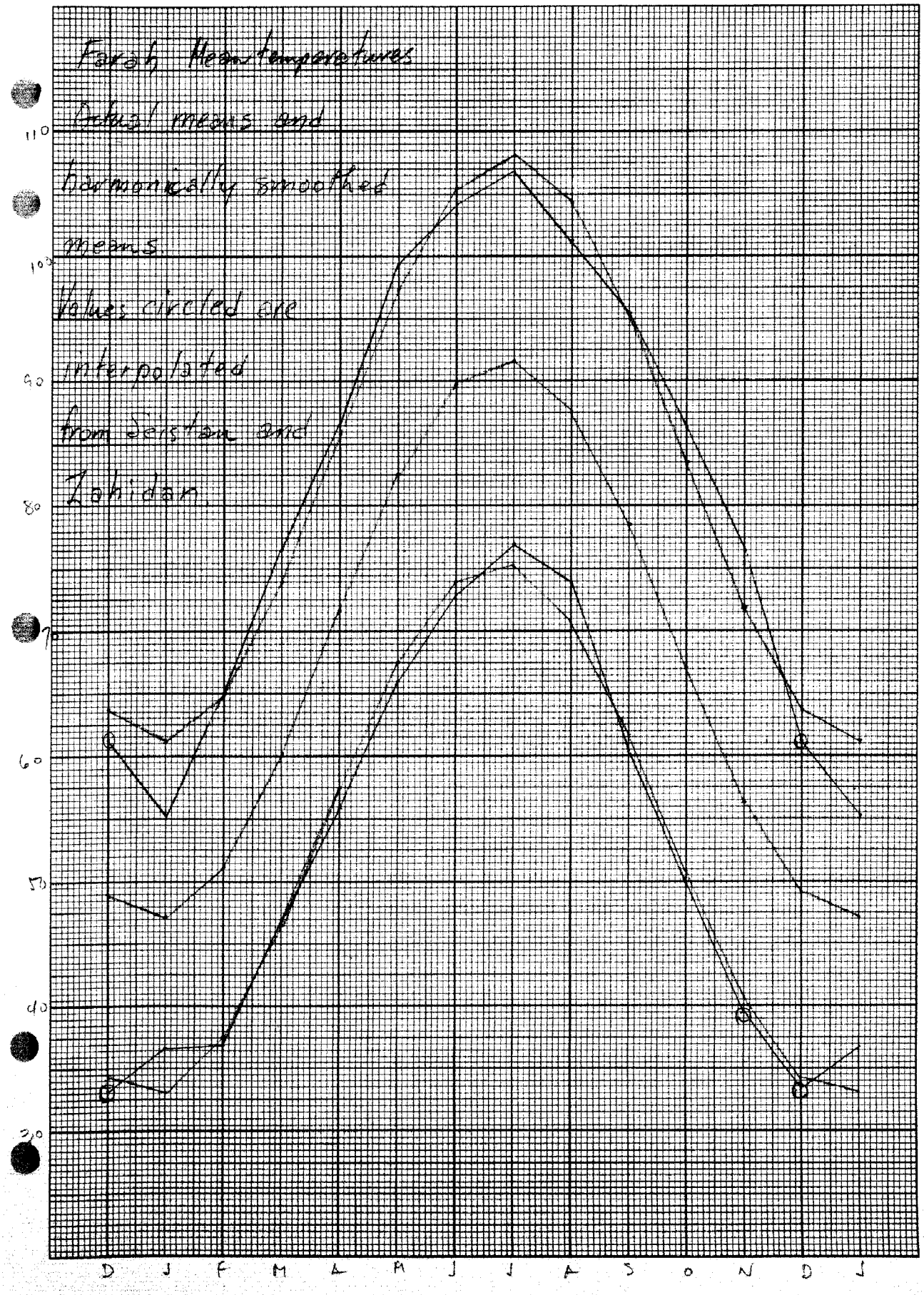
$a_1 =$ 21.3 1.32428
$A_1 =$ 279° log sin A_1 1.99507
a_1 1.82921

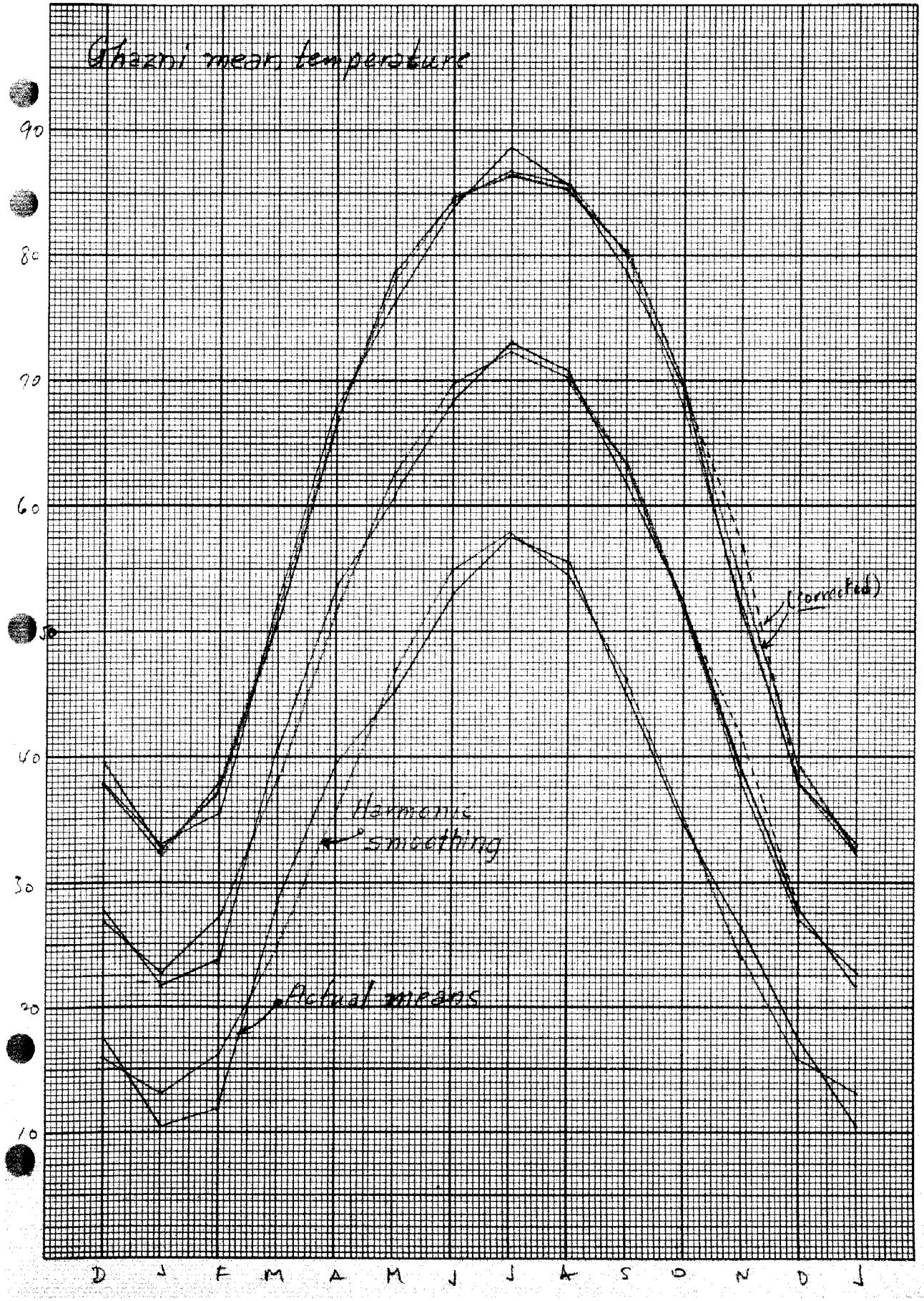
$T =$ 54.1 + 21.3 (sin x + 279°)

Jan	-81	.98769	-21.0	33.1
Feb	-51	.77715	-16.6	37.5
Mar	-21	.35837	-7.6	46.5
Apr	+9	.15643	+3.3	57.4
May	+39	.62932	+13.4	67.5
June	+69	.93358	+19.9	74.0
July	+81		+21.0	75.1
Aug			+16.6	70.7
Sept			+7.6	61.7
Oct			-3.3	50.8
Nov			-13.4	40.7
Dec			-19.9	34.2

Corrections

Commerce-Weather Bureau, Washington, D. C.


Farah Mean temperatures
Actual means and
harmonically smoothed
means.
Values circled are
interpolated
from Jerstan and
Zahidan.
110
100
90
80
70
60
50
40
30
D J F M A M J J A S O N D J


Ghazni mean temperature
90
80
70
60
50
40
30
20
10
(corrected)
Harmonic smoothing
Actual means
D J F M A M J J A S O N D J

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Ghazni Mean Maximum Temperature
Correlation with $\bar{M}$ Kabul

Sheet of

Computed by Date Checked by Date

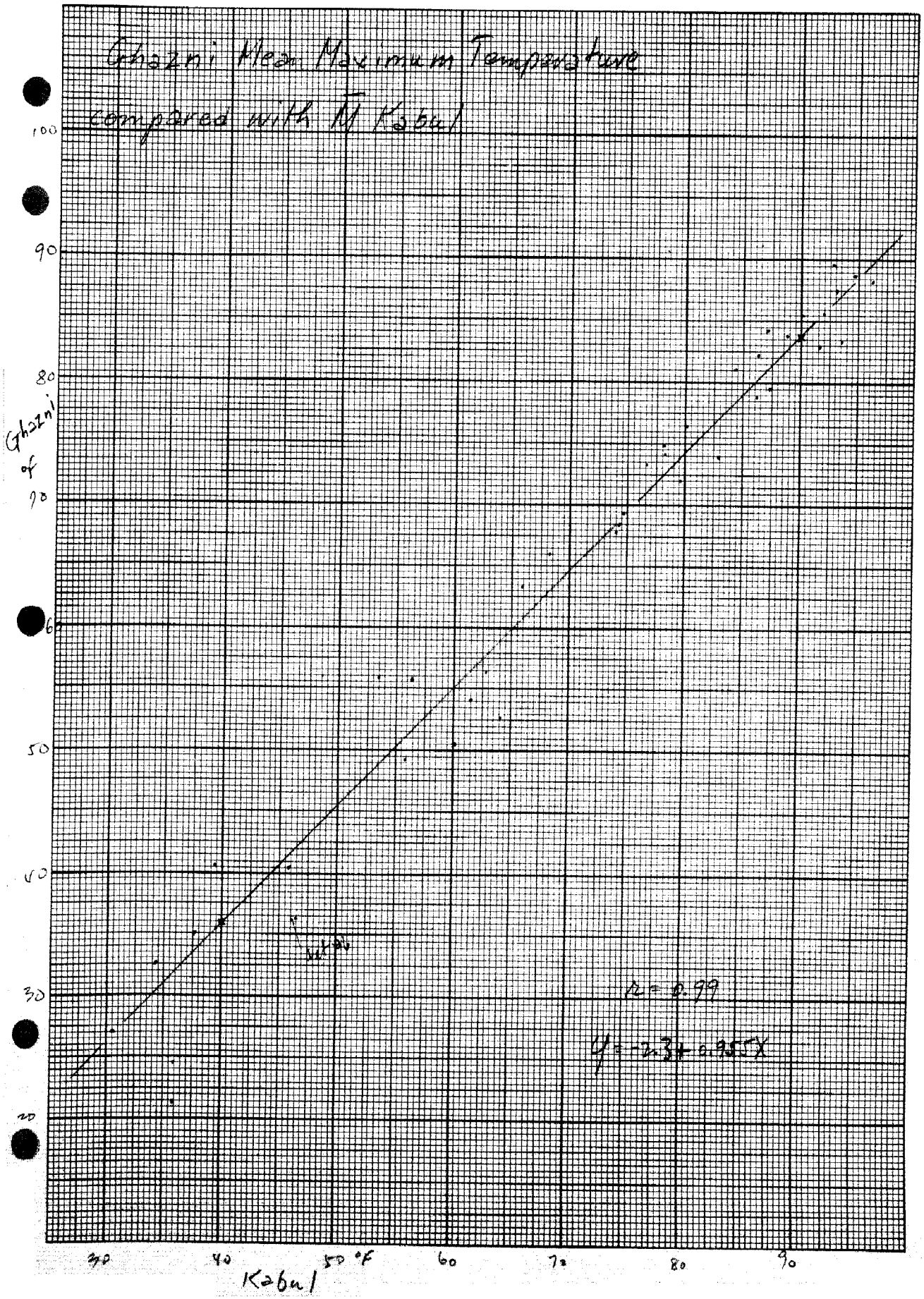
Gh	Kab	d_y	d_x	xy	y^2	x^2
34.5	35.9	-28.5	-32.5	+ 926.25	812.25	1056.25
66.0	68.2	+3.0	-0.2	- .60	9.00	.04
82.2	86.4	+19.2	+18.0	+ 345.60	368.64	324.00
82.9	91.6	+19.9	+23.2	+ 461.68	396.01	538.24
67.8	74.0	+4.8	+5.6	+ 26.88	23.04	31.36
36.3	46.4	-26.7	-22.0	+ 587.40	712.89	484.00
27.0	30.5	-36.0	-37.9	+ 1364.40	1296.00	1436.41
55.9	53.5	-7.1	-14.9	+ 105.79	50.41	198.81
73.2	76.6	+10.2	+8.2	+ 83.64	104.04	67.24
87.4	93.2	+24.4	+24.8	+ 605.12	595.36	615.04
79.5	87.4	+16.5	+19.0	+ 313.50	272.25	361.00
56.3	62.8	- 6.7	-5.6	+ 37.52	44.89	31.36
36.1	46.1	-26.9	-22.3	+ 599.87	723.61	497.29
74.1	78.3	+11.1	+9.9	+ 109.89	123.21	98.01
85.5	90.1	+22.5	+21.7	+ 488.25	506.25	470.89
83.3	93.6	+20.3	+25.2	+ 511.56	412.09	635.04
72.0	79.6	+9.0	+11.2	+ 100.80	81.00	125.44
32.5	34.2	-30.5	-34.2	+ 1043.10	930.25	1169.64
50.5	60.1	-12.5	-8.3	+ 103.75	156.25	68.89
76.5	80.1	+13.5	+11.7	+ 157.95	182.25	136.89
				+ 7972.35	7801.69	8345.84
12595.	13686				390.08	417.29
63.0	68.4			$r = 0.9879$		
-.5	+.6	-.5	+.6	$\sigma_y = 19.75$		
				$\sigma_x = 20.43$		

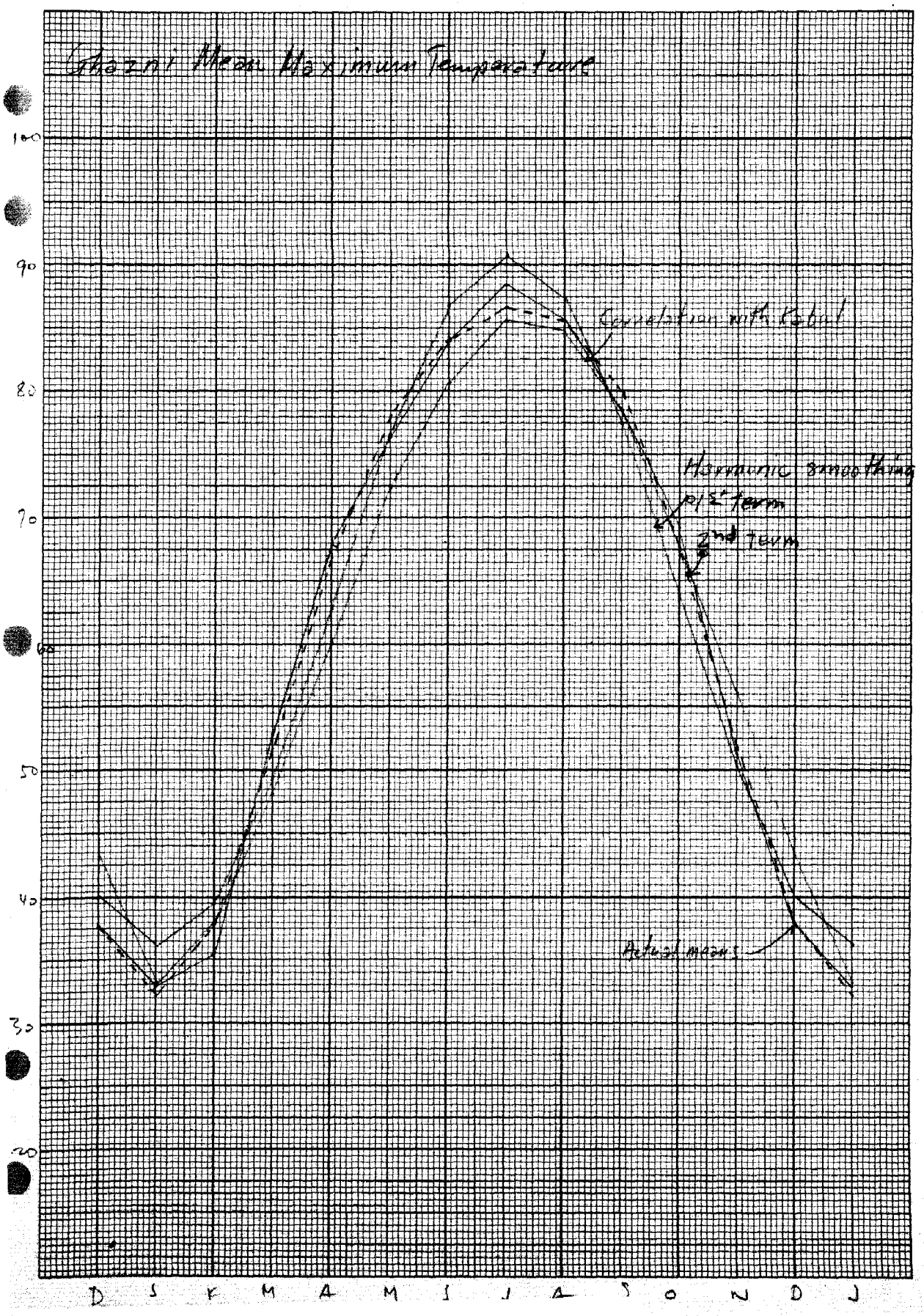
$b = \frac{\sigma_y r}{\sigma_x} = 0.9551$

$a = M_y - b M_x$
$= 63.0 - 0.955 \cdot 68.4$
$= -2.3$

$y = -2.3 + 0.955X$

log 7802	3.89221
(.½)	1.94611
log 8346	3.92148
(.½)	1.96074
	1.94611
	3.90685
log 7972	3.90157
	3.90685
0.9879	$\bar{1}.99472$
log 390.08	2.59115
(.½) 19.75	1.29558
log 417.29	2.62045
20.43	1.31023
19.75	1.29558
.98	$\bar{1}.99472$
	1.29030
	1.31023
.9551	$\bar{1}.98007$


Ghazni Mean Maximum Temperature
compared with Kabul
100
90
80
70
60
50
40
30
20
Ghazni
of
30
40
50 °F
60
70
80
90
Kabul
r = 0.99
y = -2.34 + 0.955X


Ghazni Mean Maximum Temperature
100
90
80
70
60
50
40
30
20
Correlation with Kabul
Harmonic smoothing
0/1st term
2nd term
Actual means
D S K M A M J J A S O N D J

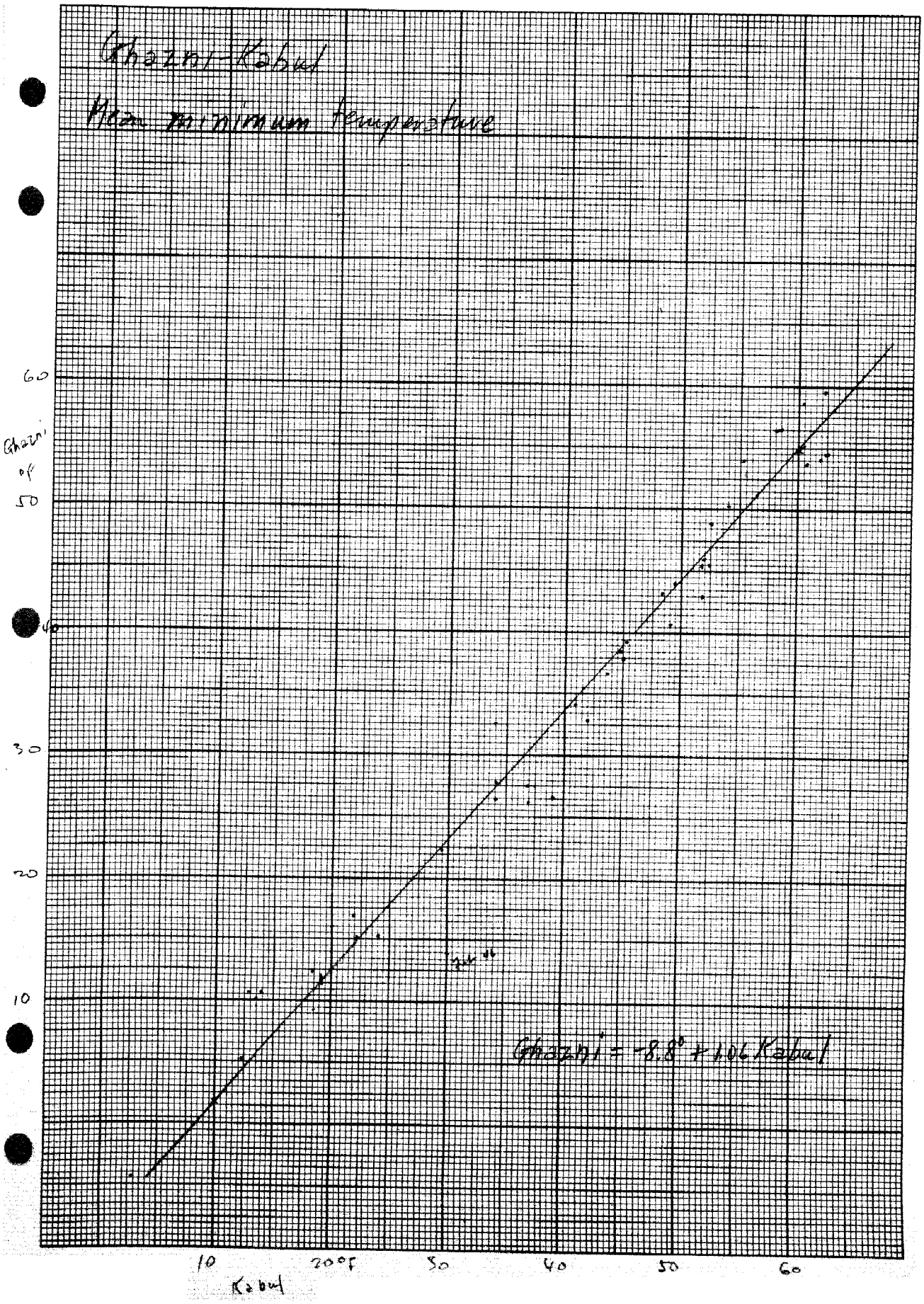
WB FORM 920-1
(Formerly 5008)

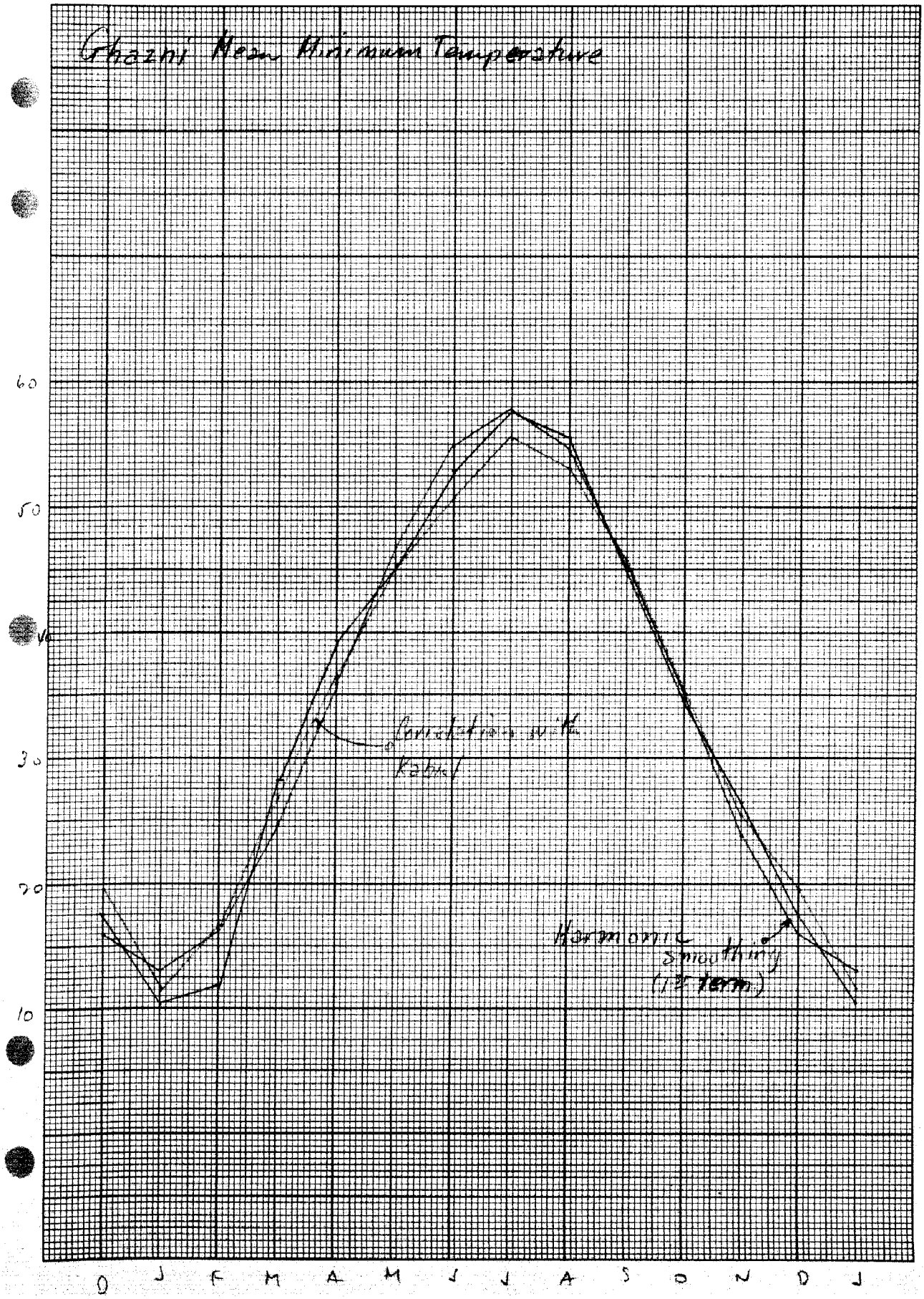
U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Ghazni Mean Minimum Temperature
Correlated with m Kabul

Sheet of

Computed by				Date			Checked by			Date		
Ghazni	Kabul	Y	X		xy		x^2					
9.3	18.5	-26.7	-23.6	+	630.12		556.96		$Y = a + bX$			
12.4	18.4	-23.6	-23.7	+	559.32		561.69					
27.7	36.9	-8.3	-5.2	+	43.16		27.04		$b = \frac{\Sigma(xy)}{\Sigma(x^2)} = 1.0646$			
38.7	44.9	+2.7	+2.8	+	7.56		7.84					
45.5	52.4	+9.5	+10.3	+	97.85		106.09		$36.0 = a + 1.0646(42.1)$			
50.4	54.0	+14.4	+11.9	+	171.36		141.61					
58.1	63.1	+22.1	+21.0	+	464.10		441.00		$a = 36.0 - 44.8$			
54.1	61.9	+18.1	+19.8	+	358.38		392.04		$= -8.8$			
40.8	49.0	+4.8	+6.9	+	33.12		47.61					
32.9	42.0	-3.1	-0.1	+	.31		.01		$Y = -8.8 + 1.06X$			
26.4	34.0	-9.6	-8.1	+	77.76		65.61					
15.1	24.0	-20.9	-18.1	+	378.29		327.61					
5.2	12.3	-30.8	-29.8	+	917.84		888.04		"Normal" Temps			
10.8	12.8	-25.2	-29.3	+	738.36		858.49					
32.5	34.0	-3.5	-8.1	+	28.35		65.61			Ghazni	Kabul	
36.7	43.1	+0.7	+1.0	+	.70		1.00		Jan	11.6	19.2	
44.1	49.5	+8.1	+7.4	+	59.94		54.76		Feb	16.6	24.0	
54.0	55.2	+18.0	+13.1	+	235.80		171.61		Mar	26.8	33.6	
58.6	60.3	+22.6	+18.2	+	411.32		331.24		April	36.5	42.7	
56.5	58.4	+20.5	+16.3	+	334.15		265.69		May	45.4	51.1	
45.5	51.9	+9.5	+9.6	+	91.20		92.16		June	50.6	56.0	
34.3	40.9	-1.7	-1.2	+	2.04		1.44		July	55.4	60.6	
27.9	34.0	-8.1	-8.1	+	65.61		65.61		Aug	53.0	58.3	
15.1	22.1	-20.9	-20.0	+	418.00		400.00		Sept	45.7	51.4	
16.9	21.9	-19.1	-20.2	+	385.82		408.04		Oct	35.1	41.4	
14.0	30.0	-22.0	-12.1	+	266.20		146.41		Nov	25.4	32.3	
26.2	36.9	-9.8	-5.2	+	50.96		27.04		Dec	19.5	26.7	
43.3	48.3	+7.3	+6.2	+	45.26		38.44					
48.9	52.5	+12.9	+10.4	+	134.16		108.16					
56.5	58.2	+20.5	+16.1	+	330.05		259.21					
59.5	62.2	+23.5	+20.1	+	472.35		404.01					
54.5	62.4	+18.5	+20.3	+	375.55		412.09					
46.0	51.9	+10.0	+9.8	+	98.00		96.04					
37.9	45.0	+1.9	+2.9	+	5.51		8.41					
23.2	29.5	-12.8	-12.6	+	161.28		158.76					
1259.5	1472.2				8449.78		7937.37					
36.0	42.1											
.5	1.3	-.5	-1.3									


Ghazni-Kabul
Mean minimum temperature
60
Ghazni °F
50
40
30
20
10
10
20°F
30
40
50
60
Kabul
Ghazni = -8.8° + 1.06 Kabul


Ghazni Mean Minimum Temperature
60
50
40
30
20
10
Correlation with Kabul
Harmonic Smoothing (12 term)
O J F M A M J J A S O N D J

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Ghazni Mean Maximum Temperature
Correlation with $\bar{M}$ Kandahar.

Sheet of

Computed by Date Checked by Date

Gh	Kan	d_y	d_x	xy	y^2	x^2
31.3	56.2	-32.2	-24.8	+ 798.56	1036.84	615.04
49.3	72.0	-14.2	-9.0	+ 127.80	201.64	81.00
74.8	91.2	+11.3	+10.2	+ 115.26	127.69	104.04
88.2	101.6	+24.7	+20.6	+ 508.82	610.09	424.36
73.9	91.2	+10.4	+10.2	+ 106.08	108.16	104.04
52.7	73.9	-10.8	-7.1	+ 76.68	116.64	50.41
35.2	61.1	-28.3	-19.9	+ 563.17	800.89	396.01
62.8	80.0	-0.7	-1.0	+ .70	.49	1.00
84.4	99.1	+20.9	+18.1	+ 378.29	436.81	327.61
85.6	100.6	+22.1	+19.6	+ 433.16	488.41	384.16
69.4	84.5	+5.9	+3.5	+ 20.65	34.81	12.25
40.5	59.5	-23.0	-21.5	+ 494.50	529.00	462.25
40.6	56.3	-22.9	-24.7	+ 565.63	524.41	610.09
55.6	71.5	-7.9	-9.5	+ 75.05	62.41	90.25
81.0	92.3	+17.5	+11.3	+ 197.75	306.25	127.69
88.7	102.6	+25.2	+21.6	+ 544.32	635.04	466.56
78.8	95.9	+15.3	+14.9	+ 227.97	234.09	222.01
54.1	69.3	-9.4	-11.7	+ 109.98	88.36	136.89
32.5	58.3	-31.0	-22.7	+ 703.70	961.00	515.29
50.5	72.5	-13.0	-8.5	+ 110.50	169.00	72.25
76.5	90.7	+13.0	+9.7	+ 126.10	169.00	94.09
89.6	102.3	+26.1	+21.3	+ 555.93	681.21	453.69
13960	17826			+ 6840.60	8322.24	5750.98
63.5	81.0					
-1.0	.6	-1.0	.6			

$r = \frac{6841}{\sqrt{8322}\sqrt{5751}} = 0.9888$

$b = \frac{\sigma_y r}{\sigma_x} = 1.190$

$\sigma_y = \sqrt{\frac{8322}{22}} = 19.45$

$\sigma_x = 16.17$

$a = M_y - b M_x$

$= 63.5 - 1.19 \cdot 81.0$

$= -32.9$

$Y = -32.9 + 1.19X$

log 5751	3.75974
22	1.34242
(.½)	2.41732
16.17	1.20866
log r	$\bar{1}.99513$
σ_y	1.28891
	1.28404
σ_x	1.20866
1.190	0.07538

log 8322	3.92023
(.½)	1.96012
log 5751	3.75974
(.½)	1.87987
	1.96012
	3.83999
log 6841	3.83512
	3.83999
log 0.9888	$\bar{1}.99513$
log 8322	3.92023
22	1.34242
(.½)	2.57781
19.45	1.28891

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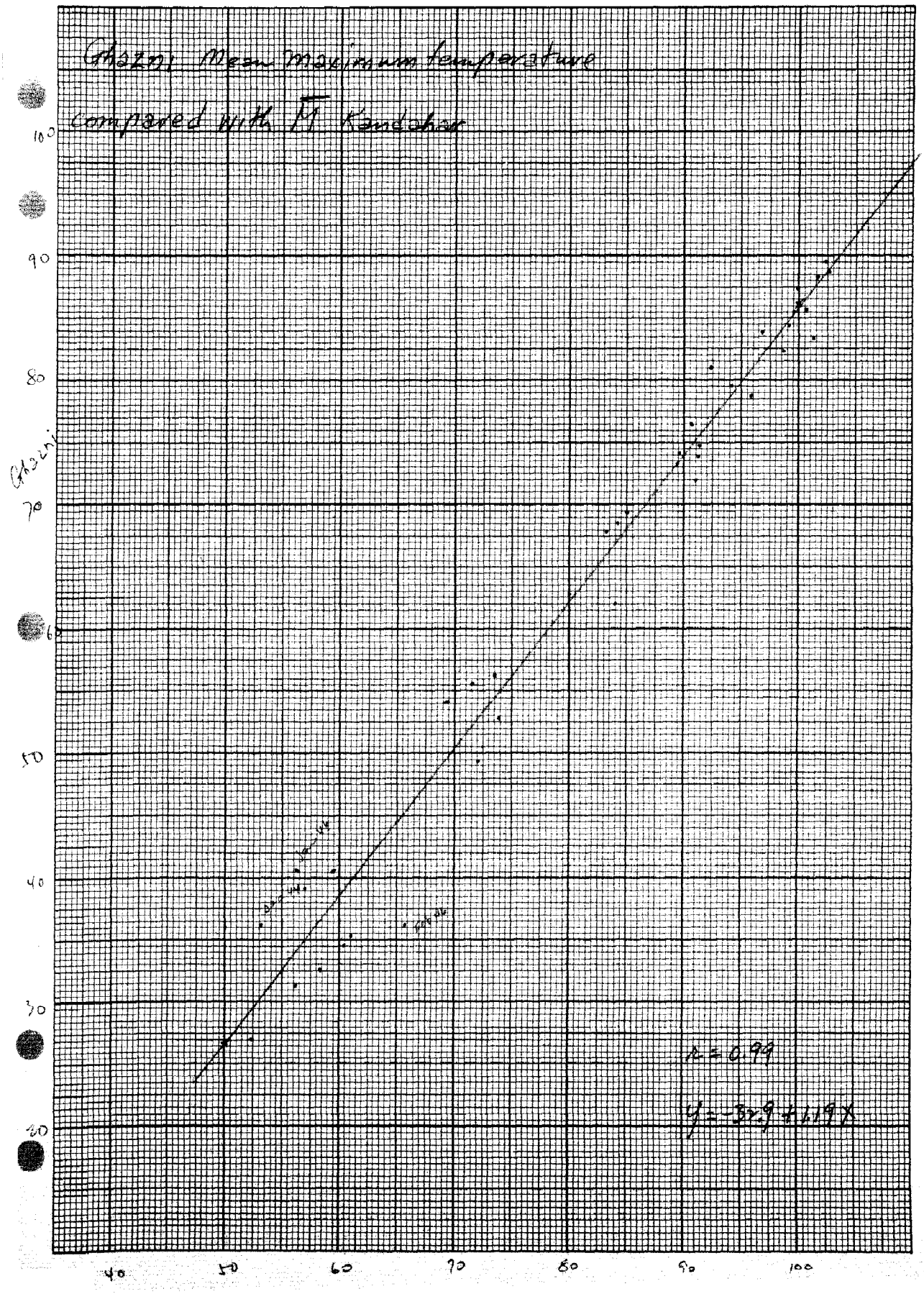

Ghazni: Mean maximum temperature
compared with Kandahar
Ghazni
100
90
80
70
60
50
40
30
20
40
50
60
70
80
90
100
r = 0.99
y = -32.9 + 1.19 X

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Ghazni Mean Maximum Temperature
Harmonic Smoothing

Sheet of

Computed by Date Checked by Date

			Cos 1		sin 1		Cos 2		sin 2	
Jan	32.9	-30.9	+1	-30.9	0	0	+1	-30.9	0	0
Feb	35.3	-28.5	+.866	-24.7	+.5	-14.3	+.5	-14.3	+.8	-24.7
Mar	52.8	-11.0	+.5	-5.5	+.8	-9.5	-.5	+5.5	+.8	-9.5
Apr	67.9	+4.1	0	0	+1	+4.1	-1	-4.1	0	0
May	76.4	+12.6	-.5	-6.3	+.8	+10.9	-.5	-6.3	-.8	-10.9
June	84.0	+20.2	-.8	-17.5	+.5	+10.1	+.5	+10.1	-.8	-17.5
July	88.5	+24.7	-1	-24.7	0	0	+1	+24.7	0	0
Aug	85.6	+21.8	-.8	-18.9	-.5	-10.9	+.5	+10.9	+.8	+18.9
Sept	78.4	+14.6	-.5	-7.3	-.8	-12.6	-.5	-7.3	+.8	+12.6
Oct	69.2	+5.4	0	0	-1	-5.4	-1	-5.4	0	0
Nov	56.9	-6.9	+.5	-3.5	-.8	+6.0	-.5	+3.5	-.8	+6.0
Dec	37.8	-26.0	+.8	-22.5	-.5	+13.0	+.5	-13.0	-.8	+22.5
	765.7			-161.8		-8.6		-26.6		-2.6
	63.8		1/6	-27.0		-1.43		-4.43		-0.433
	+.1	✓								

p_1 -27.0 tan A_1 = 18.881 log tan 1.27602 p_2 = -4.43 Tan A_2 1.02309 ltan 1.00991
q_1 -1.43 sin A_1 = 0.9986 log sin 9.99939 q_2 = -0.433 sin A_2 0.9953 ls 9.99793
(A_1 = 86°58') (A_2) = 84°25'
a_1 = 26.96 a_2 = 4.41
A_1 = 266°58' A_2 = 264°25'

$$T = 63.8° + 27.0(\sin x + 267°) + 4.4(\sin 2x + 264°)$$

Jan	-27.0	-4.4	32.4
Feb	-24.1	-2.6	37.1
Mar	-14.7	+1.8	50.9
Apr	-1.4	+4.4	66.8
May	+12.3	+2.6	78.7
June	+22.6	-1.8	84.6
July	+27.0	-4.4	86.4
Aug	+24.1	-2.6	85.3
Sept	+14.7	+1.8	80.3
Oct	+1.4	+4.4	69.6
Nov	-12.3	+2.6	54.1
Dec	-22.6	-1.8	39.4

[illegible] 9 July 54

Commerce-Weather Bureau, Washington, D. C.

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Ghazni Mean Minimum Temperature
Harmonic Smoothing

Sheet of

Computed by Date Checked by Date

			Cos		sin	
Jan	10.5	-24.9	1.	-24.9	0	0
Feb	11.8	-23.6	.866	-20.4	.5	-12.8
Mar	28.3	-7.1	.5	-3.6	.866	-6.1
April	39.5	+4.1	0	0	1.	+4.1
May	45.3	+9.9	-.5	-5.0	.866	+8.6
June	53.0	+17.6	-.866	-15.2	.5	+8.8
July	57.5	+22.1	-1.	-22.1	0	0
Aug	55.5	+20.1	-.866	-17.4	-.5	-10.1
Sept	44.9	+9.5	-.5	-4.8	-.866	-8.2
Oct	34.5	-0.9	0	0	-1.	+0.9
Nov	26.4	-9.0	.5	-4.5	-.866	+7.8
Dec	17.4	-18.0	.866	-15.6	-.5	+9.0
	424.6			-133.5		+2.0
	35.4		(1/6)	-22.3		+0.333
	.2	-.2				

$p_1 = -22.3$ log 22.3 1.34830
$q_1 = +0.333$ log 0.333 T. 52244
$(A_1) = 89°9'$ log tan A_1 = 1.82586

$a_1 = 22.3$ log 22.3 1.34830
$A_1 = 270°51'$ log sin A_1 T. 99995
a_1 22.3 1.34835

$T = 35.4 + 22.3(\sin x + 271°)$

Jan	0	-89	.99985	-22.3	13.1
Feb	30	-59	.85717	-19.1	16.3
Mar	60	-29	.48481	-10.8	24.6
April	90	+1	.01745	+0.4	35.8
May	120	+31	.51504	+11.5	46.9
June	150	+61	.87462	+19.5	54.9
July	180	+89		+22.3	57.7
Aug	210			+19.1	54.5
Sept	240			+10.8	46.2
Oct	270			-0.4	35.0
Nov	300			-11.5	23.9
Dec	330			-19.5	15.9

WB FORM 920-1
(Formerly 5008)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Herat Mean Maximum Temperature
Smoothed by harmonic analysis

Sheet of

Computed by	Date	Checked by	Date

			cos		sin		cos		sin				
Jan	51.0	-24.9	1.	-24.9	0	0	+1	-24.9	0	0			
Feb	55.5	-20.4	.866	-17.7	.5	-10.2	+.5	-10.2	+.8	-17.7			
Mar	66.1	-9.8	.5	-4.9	.866	-8.5	-.5	+4.9	+.8	-8.5			
April	77.8	+1.9	0	0	1	+1.9	-1	-1.9	0	0			
May	87.3	+11.4	-.5	-5.7	.866	+9.9	-.5	-5.7	-.8	-9.9			
June	92.6	+17.7	-.866	-15.3	.5	+8.9	+.5	+8.9	-.8	-15.3			
July	97.4	+21.5	-1.	-21.5	0	0	+1	+21.5	0	0			
Aug	94.5	+18.6	-.866	-16.1	-.5	-9.3	+.5	+9.3	+.8	+16.1			
Sept	88.2	+12.3	-.5	-6.2	-.866	-10.7	-.5	-6.2	+.8	+10.7			
Oct	81.1	+5.2	0	0	-1	-5.2	-1	-5.2	0	0			
Nov	66.9	-9.0	.5	-4.5	-.866	+7.8	-.5	+4.5	-.8	+7.8			
Dec	51.1	-24.8	.866	-21.5	-.5	+12.4	+.5	-12.4	-.8	+21.5			
	910.5	-.2		-138.3		-3.0		-17.4		+4.7			
(½)	75.9			-23.1		-0.5		-2.90		+0.783			
											log		
	$p_1 = -23.1$			log 23.1 =		1.36361		$p_2 = -2.90$			2.90	0.46240	
	$q_1 = -0.5$			log 0.5		7.69897		$q_2 + 0.783$			0.783	7.89376	
	A_1 88° 46'			log tan A_1		1.66464		A_2	74°53'		tA_2	0.56864	
	$a_1 = 23.1$			log 23.1		1.36361		$a_2 = 3.0$			2.90	0.46240	
	$A = 268° 46'$			log sin A_1 =		7.99990		$A_2 = 285°07'$			sA_2	7.98471	
				a_1		1.36371					3004	0.47769	
		T =	75.9	+ 23.1	sin	(x + 268°) +		3.0	sin	(2x + 285°)			
	Computed												
Jan	0	-89	.99985	-23.1	52.8		-2.9	49.9					
Feb	30	-61	.87462	-20.2	55.7		-0.8	54.9					
Mar	60	-31	.51504	-11.9	64.0		+2.1	66.1					
Apr	90	-1	.01745	-0.4	75.5		+2.9	78.4					
May	120	+29	.48481	+11.2	87.1		+0.8	87.9					
June	150	+59	.85717	+19.8	95.7		-2.1	93.6					
July	180	+89		+23.1	99.0		-2.9	96.1					
Aug	210			+20.2	96.1		-0.8	95.3					
Sept	240			+11.9	87.8		+2.1	89.9					
Oct	270			+0.4	76.3		+2.9	79.2					
Nov	300			-11.2	64.7		+0.8	65.5					
Dec	330			-19.8	56.1		-2.1	54.0					
								75.9					

Commerce-Weather Bureau, Washington, D. C.

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Herat Afghanistan
Smoothed Minimum Temperatures

Sheet of

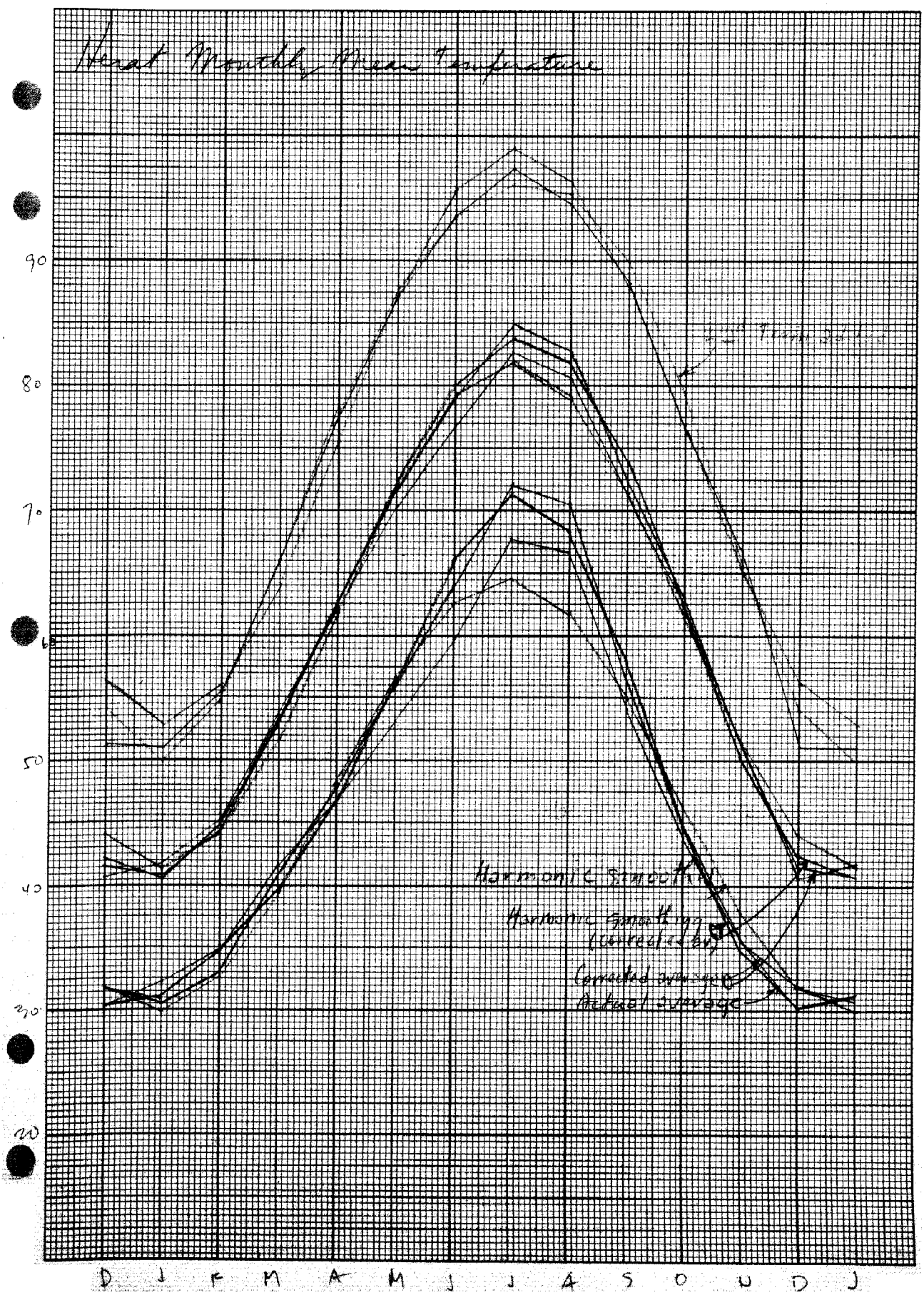
Computed by			Date				Checked by			Date			
			Cos 1		Sin 1		Cos 2		Sin 2				
Jan	30.6	-18.0	+1.	-18.0	0	0	+1	-18.0	0	0			
Feb	33.0	-15.6	+.866	-13.5	+.5	-7.8	+.5	-7.8	+.8	-13.5			
Mar	40.8	-7.8	+.5	-3.9	+.866	-6.8	-.5	+3.9	+.8	-6.8			
April	47.6	-1.0	0	0	+1.	-1.0	-1	+1.0	0	0			
May	56.2	+7.6	-.5	-3.8	+.8	+6.8	-.5	-3.8	-.8	-6.8			
June	64.3	+15.7	-.8	-13.6	+.5	+7.9	+.5	+7.9	-.8	-13.6			
July	72.3	+23.7	-1.	-23.7	0	0	+1	+23.7	0	0			
Aug	70.6	+22.0	-.8	-19.1	-.5	-11.0	+.5	+11.0	+.8	+19.1			
Sept	56.3	+7.7	-.5	-3.9	-.8	-6.7	-.5	-3.9	+.8	+6.7			
Oct	44.5	-4.1	0	0	-1.	+4.1	-1	+4.1	0	0			
Nov	35.5	-13.1	+.5	-6.6	-.8	+11.3	-.5	+6.6	-.8	+11.3			
Dec	31.8	-16.8	+.8	-14.5	-.5	+8.4	+.5	-8.4	-.8	+14.5			
Sum	5835			-120.6		+5.2		+16.3		+10.9			
Mean	48.6			-20.1		+0.880		+2.72		+1.82			
	+3												
											log		
p_1 =	-20.1		log 20.1 =	1.30320			p_2 =	2.72			2.72	0.43457	
q_1 =	+.88		.88	$\bar{1}$.94448			q_2 =	+1.82			1.82	0.26007	
a_1 =	20.12		lt A_1	1.35672			(A_2) =	56°13'			tan A_2	0.17450	
(A_1) =	87°25'						a_2 =	3.273					
A_1 =	272°35'		20.1	1.30320			A_2 =	56°13'			2.72	0.43457	
			ls A_1	$\bar{1}$.99956							sin A_2	$\bar{1}$.91968	
			20.12	1.30364							3.273	0.51489	

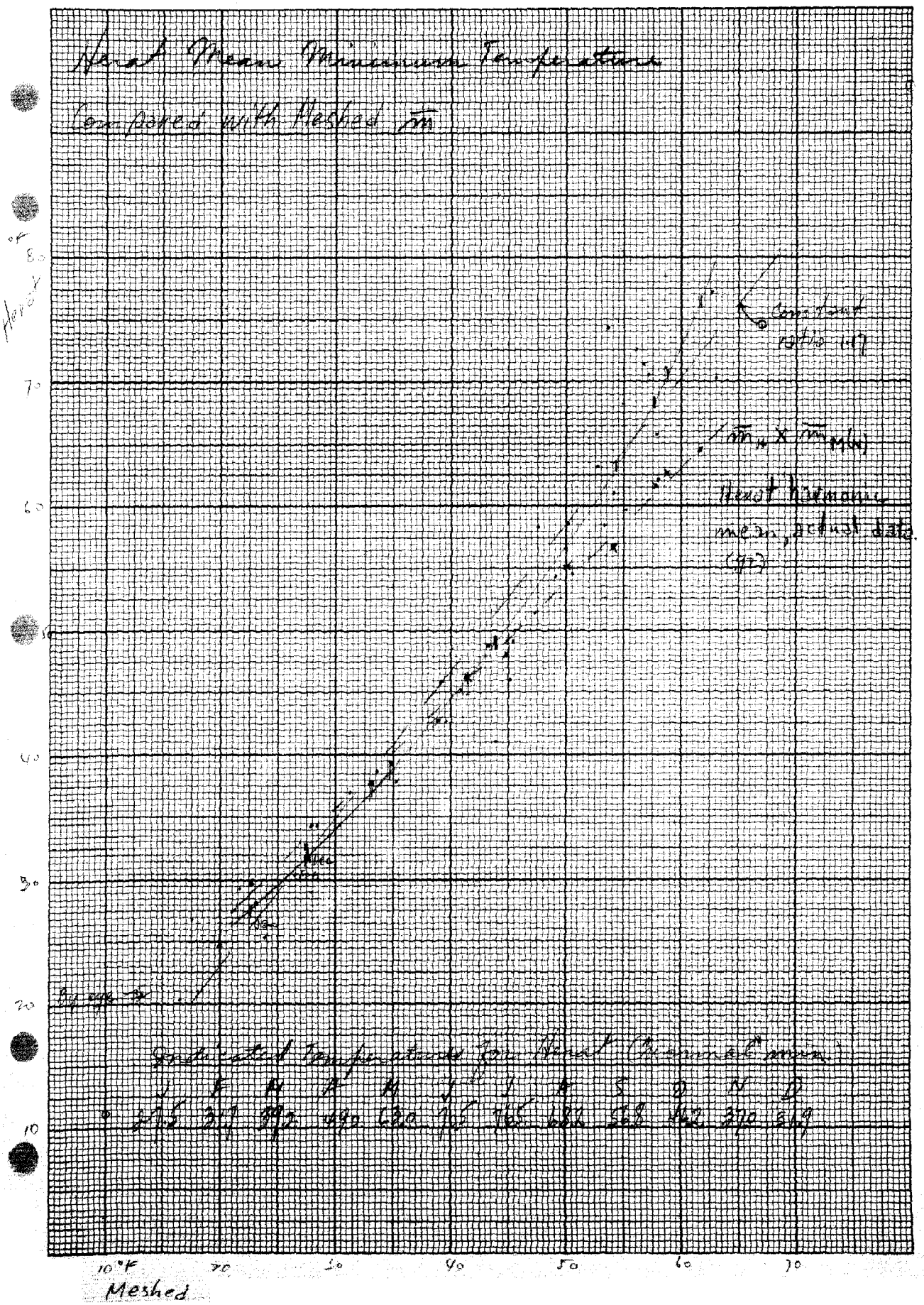
$$T = 48.60 + 20.12(\sin x + 273) + 3.27(\sin 2x + 56)$$

	1st	2nd	
Jan	-20.09	+2.71	31.22
Feb	-16.87	+2.94	34.67
Mar	-9.13	+0.23	39.70
Apr	+1.05	-2.71	46.94
May	+10.96	-2.94	56.62
June	+17.93	-0.23	66.30
July	+20.09	+2.71	71.40
Aug	+16.87	+2.94	68.41
Sept	+9.13	+0.23	57.96
Oct	-1.05	-2.71	44.84
Nov	-10.96	-2.94	34.70
Dec	-17.93	-0.23	30.44

[illegible] 13 July '84

Commerce-Weather Bureau, Washington, D. C.


Normal Monthly Mean Temperature
90
80
70
60
50
40
30
20
Harmonic Smoothing
Harmonic Smoothing corrected by
Corrected average
Actual average
D J F M A M J J A S O N D J


Herat Mean Minimum Temperature
Compared with Meshed $\bar{m}$
Constant ratio 1.17
$\bar{m}_H \times \bar{m}_{M(N)}$
Herat harmonic mean, actual data (yr)
By eye
Indicated Temperature for Herat (Nominal min)
J F M A M J J A S O N D
0 27.5 31.7 39.2 49.0 63.0 70.5 76.5 68.2 56.8 46.2 37.0 31.9
Herat °F
80
70
60
50
40
30
20
10
10 °F
20
30
40
50
60
70
Meshed

WB Form 1078B (172)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

Data, Herat Mean Minimum Temperature

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Herat 1944	34.3	34.3	45.1	49.1	58.5	65.8	77.2	71.4	58.3	44.8	37.9	20.3	5970
Meshed	+5.8 28.4	+2.9 30.3	+6.2 40.9	+0.5 45.4	-1.1 53.3	-1.0 57.8	+0.9 62.6	-1.0 56.6	-2.5 47.5	-0.1 41.3	+2.2 35.3	-11.1 16.5	
Zahidan	+6.1 35.1	+1.1 36.1	+7.4 47.0	+3.2 53.3	+4.4 63.2	+2.1 67.5	+3.9 71.8	+3.4 66.4	-0.8 53.5	+2.0 47.8	+3.9 40.4	-0.9 30.1	6122
Farah	—	36.9	48.7	55.9	66.0	72.9	77.4	73.2	61.3	50.7	—	—	
Seistan	+3.2 36.8	-0.4 38.4	+4.9 51.6	+2.1 66.4	+3.4 70.4	+2.0 76.2	+5.0 84.1	+2.3 78.7	+1.8 68.5	+0.7 54.6	+3.1 45.2	-3.4 31.8	7027
Herat 1945	25.3	30.4	38.7	46.0	54.5	62.2	71.2	70.2	58.6	43.9	37.8	35.8	5746
Meshed	+1.3 23.9	-0.9 26.5	-1.1 33.6	+0.3 45.2	-3.9 50.5	-0.8 58.0	-3.1 58.6	+5.4 63.0	+0.1 50.1	-0.4 41.0	—	+0.7 28.3	
Zahidan	+2.6 31.6	+1.1 36.1	+8.1 47.7	+3.6 53.7	+2.1 60.9	+0.8 66.2	+0.7 68.6	+4.7 67.7	+2.0 56.3	0 45.8	+6.4 42.9	-0.4 30.6	6081
Farah	36.7	—	45.1	—	—	—	—	—	57.2	48.6	—	—	
Seistan	+1.1 34.7	-4.1 34.7	+7.4 48.1	-0.6 57.5	-1.3 65.7	+1.7 75.9	+0.1 79.2	+3.1 79.5	—	-1.3 52.6	+4.8 46.9	-2.6 32.6	6074
Herat 1946	29.3	37.0	42.6	51.4	61.0	68.2	70.5	74.3	59.7	45.9	28.2	26.8	5949
Meshed	-0.9 21.7	+3.9 31.3	+4.9 39.6	+2.4 47.3	-0.3 54.1	-3.9 54.9	-4.5 57.2	-0.4 53.6	-4.8 45.2	-2.1 39.3	-10.0 23.1	-10.1 17.5	
Zahidan	+2.5 31.5	+4.1 39.1	+4.5 44.1	+8.0 58.1	+4.3 63.1	+2.8 68.2	+0.1 68.0	—	+0.7 54.5	+5.8 51.6	-3.1 33.4	-3.4 27.6	5392
Farah	—	—	—	—	—	—	76.5	74.3	60.4	—	—	—	
Seistan	+0.7 34.3	+2.6 41.4	+2.8 49.5	+4.3 62.4	+4.0 71.0	+1.9 76.1	-1.6 77.5	+1.5 77.9	+3.7 70.4	+2.8 56.7	-2.9 39.2	-3.9 31.3	6877
Herat 1947	35.6	34.3	42.8	48.4	54.3	63.1	72.5						3510 21175
Meshed	—	+0.5 27.9	+4.1 38.8	-1.5 43.4	-5.3 49.1	-6.1 52.7	-5.6 56.1	H/M	1.171				
Zahidan	+8.6 37.6	+0.9 35.9	+5.8 45.4	+2.7 52.8	+2.5 61.3	0 65.4	-0.6 67.3	H/Z	.961				20432 3657 21252
Seistan	+5.1 38.7	-0.4 38.4	+3.6 50.3	+1.1 59.2	+0.6 67.6	-2.0 72.7	+0.6 79.7	H/S	.856				4066 24044
$\overline{m}$ (Meshed) 1.171	26.5	32.1	40.6	52.6	63.7	68.9	72.3	67.4	58.6	48.5	38.8	32.3	
$\overline{m}$ (Zahidan) .961	27.9	33.6	38.1	48.1	56.5	62.8	65.3	60.5	52.2	44.0	35.1	29.8	
Mean	27.2	32.9	39.4	50.4	60.1	65.9	68.8	64.0	55.4	46.3	37.0	31.1	

REMARKS

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Heat Mean Minimum Temperature
Smoothing by Harmonic analysis

Sheet of

Computed by Date Checked by Date

Jan	32.3	-14.9	1.	-14.9	0	0
Feb	34.8	-12.4	.866	-10.7	.5	-6.2
Mar	41.7	-5.5	.5	-2.8	.866	-4.8
April	46.6	-0.6	0	0	1	-0.6
May	53.1	+5.9	-.5	-3.0	.866	+5.1
June	59.7	+12.5	-.866	-10.8	.5	+6.3
July	67.9	+20.7	-1.	-20.7	0	0
Aug	66.7	+19.5	-.866	-16.9	-.5	-9.8
Sept	54.2	+7.0	-.5	-3.5	-.866	-6.1
Oct	43.9	-3.3	0	0	-1	+3.3
Nov	35.6	-11.6	.5	-5.8	-.866	+10.0
Dec	30.3	-16.9	.866	-14.6	-.5	+8.5
	566.8	✓.4		-103.7		+5.7
(1/6)	47.2			-17.3		+1.0

$p_1 =$ -17.3 log 17.3 = 1.23805
$q_1 =$ +1.0 1 0.
$(A_1) = 86°40'$ log tan A_1 1.23805

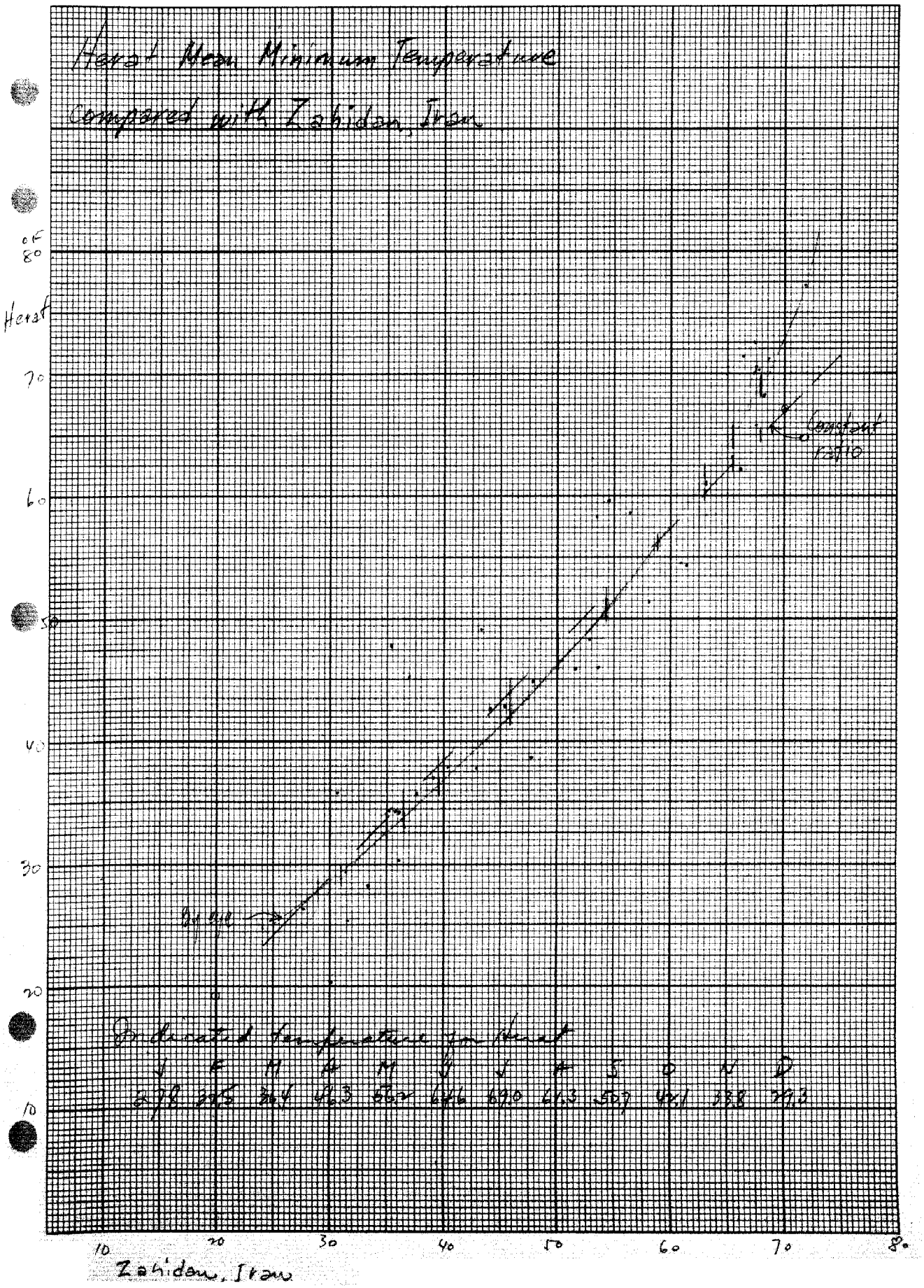
$a_1 = 17.3$ log 17.3 1.23805
$A_1 = 273°19'$ log sin A_1 7.99927
log a_1 1.23878

T = 47.2 + 17.3 (sin x + 273°)

Computed:

Jan	0	-87	.99863	-17.3	29.9
Feb	30	-57	.83867	-14.5	32.7
Mar	60	-27	.45399	-7.9	39.3
Apr	90	3	.05234	0.9	48.1
May	120	33	.54464	9.4	56.6
June	150	63	.89101	15.4	62.6
July	180	87		17.3	64.5
Aug	210			14.5	61.7
Sept	240			7.9	55.1
Oct	270			-0.9	46.3
Nov	300			-9.4	37.8
Dec	330			-15.4	31.8

Commerce-Weather Bureau, Washington, D. C.


Herat Mean Minimum Temperature
Compared with Zahidan, Iran
°F
80
Herat
70
60
50
40
30
20
10
Constant ratio
By eye
Indicated temperature for Herat
J F M A M J J A S O N D
27.8 32.5 36.4 46.3 56.2 64.6 69.0 61.3 50.7 42.1 33.8 29.3
10 20 30 40 50 60 70 80
Zahidan, Iran

WB Form 1078B (172)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

Data, Herat. Comparison of monthly mean max. temp.

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Herat 1944	53.4	59.0	70.3	76.3	91.0	95.5	101.3	96.6	85.8	79.2	68.0	37.4	
Meshed	50.1	57.1	68.0	73.5	86.8	94.2	101.5	96.8	87.6	77.3	66.0	39.4	
Zahidan	59.3	62.8	72.6	81.6	90.1	97.0	101.5	96.2	86.7	81.5	72.0	48.5	
Farah	—	66.0	76.3	86.2	97.9	102.8	110.7	105.1	94.5	87.6	—	—	
Herat 1945	50.4	57.2	76.8	77.0	83.1	93.9	96.3	95.4	89.4	84.4	66.4	54.3	
Meshed	45.3	46.0	55.5	71.3	76.4	88.7	93.0	95.7	87.7	83.2	—	54.2	
Zahidan	53.4	62.0	74.5	80.4	89.3	96.0	98.1	97.8	89.5	83.0	72.3	59.3	
Farah	55.2	64.2	76.8	—	—	—	104.5	-	96.3	84.9	76.5	—	
Herat 1946	48.2	59.0	66.0	83.1	92.8	95.0	97.3	92.5	90.1	82.8	59.5	50.2	
Meshed	40.7	54.8	60.7	74.8	88.8	90.1	93.8	90.6	92.8	79.9	61.9	46.8	
Zahidan	55.0	64.1	70.9	87.1	94.7	96.6	97.9	93.8	88.4	86.0	67.7	55.3	
Farah	—	—	—	87.6	100.8	104.7	105.3	97.0	—	—	-	—	
Herat 1947	54.0	57.4	69.1	78.6	86.7	92.1	96.1						
Meshed	-	51.1	66.0	74.3	81.3	92.5	93.6						
Zahidan	60.5	62.4	70.3	80.3	88.9	95.3	97.3						
Ratio													
H/M 1944	+.074 1.066	+.045 1.033	+.041 1.034	+.025 1.038	+.015 1.018	-.016 1.014	-.023 .998	-.042 .998	-.057 .979	-.022 1.025	-.105 1.030	-.039 .949	1.018 1.012
1945	1.113	1.135	1.384	1.080	1.088	1.059	1.035	.997	1.019	1.014	—	1.002	11.926
1946	1.184	1.077	1.087	1.111	1.045	1.054	1.037	1.021	.977	1.036	.961	1.073	12.657
1947	1.141 —	1.092 1.123	1.138 1.047	1.072 1.058	1.062 1.066	1.036 .996	1.044 1.027	1.005 —	.998	1.025	.996	1.008	1.049 6.317
H/Z 1944	.901	.939	.968	.935	1.015	.985	.998	1.004	.990	.972	.944	.771	.951 11.417
1945	.944	.842	1.031	.958	.931	.978	.982	.975	.999	1.017	.918	.916	11.491
1946	.876	.920	.931	.954	.980	.983	.994	.986	1.019	.963	.879	.908	11.343
1947	.893	.920	.963	.979	.975	.966	.988	.988	1.003	.984	.914	.865	.953 6.704
H/F 1944	—	.894	.921	.885	.930	.920	.915	.919	.908	.904	—	—	.911 8.196
1945-46	.913	.813	1.000	.949	.921	.907	.924	.954	.928	.994	.868	—	11.093

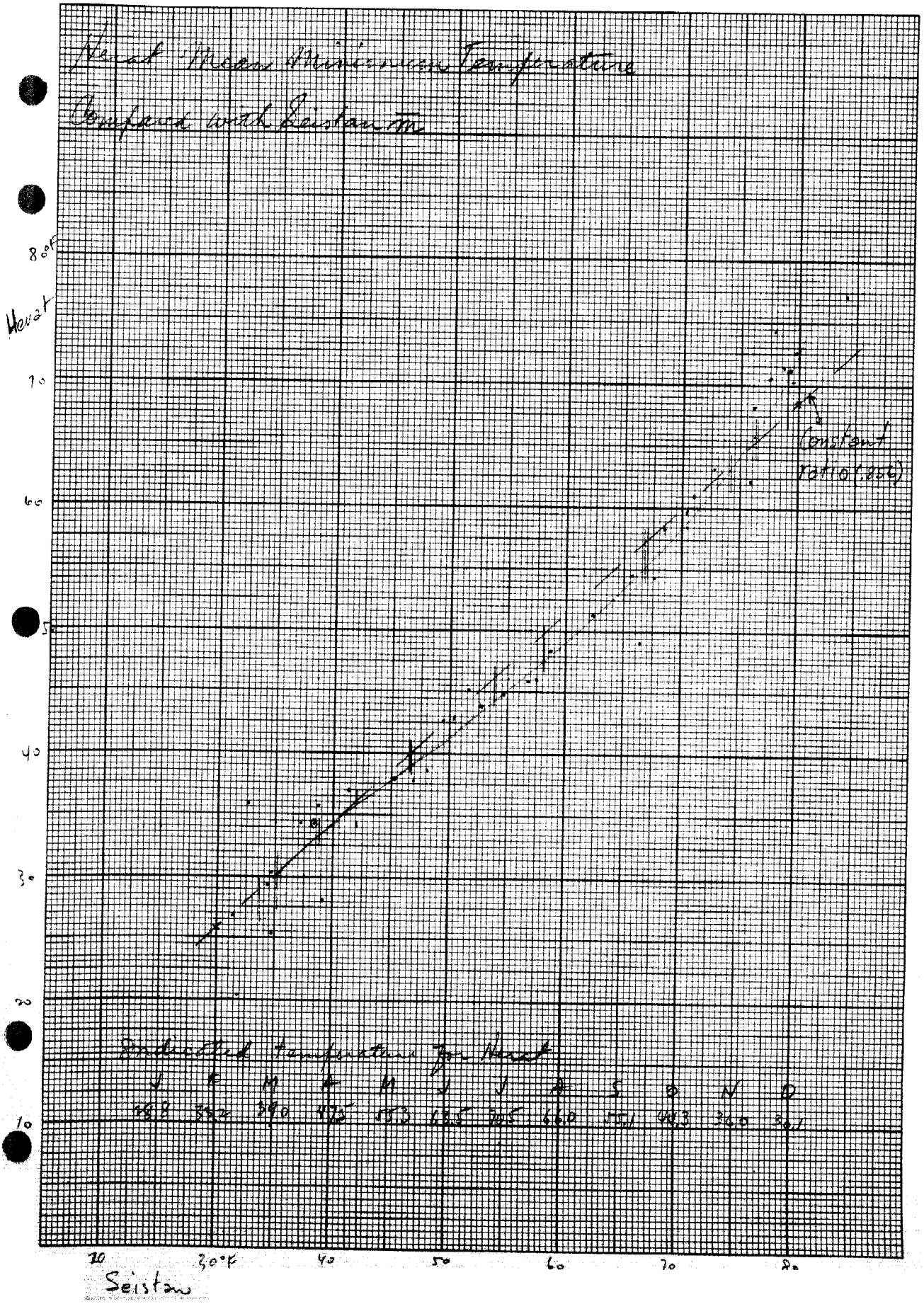
Mean monthly ratio in green.

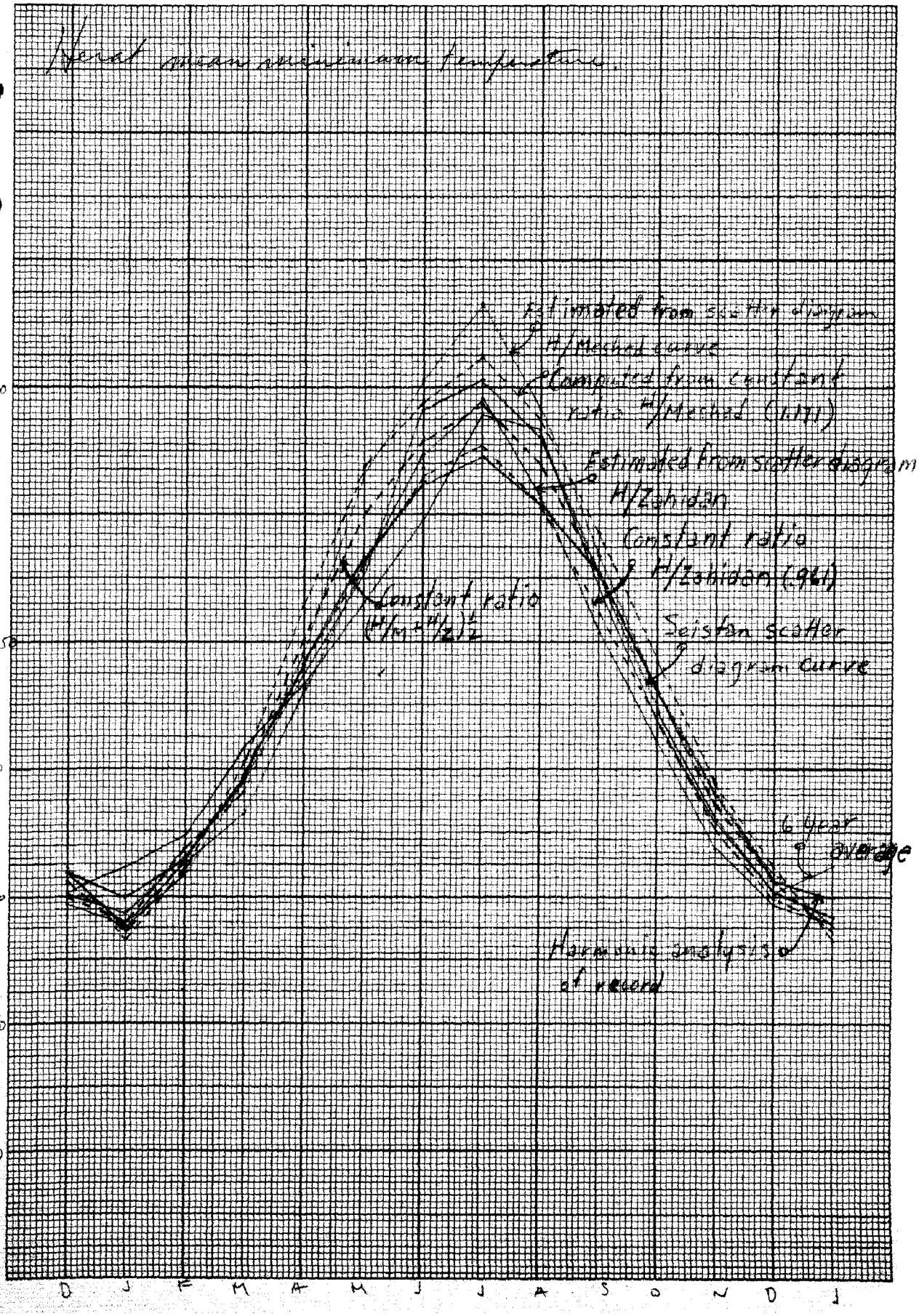
REMARKS

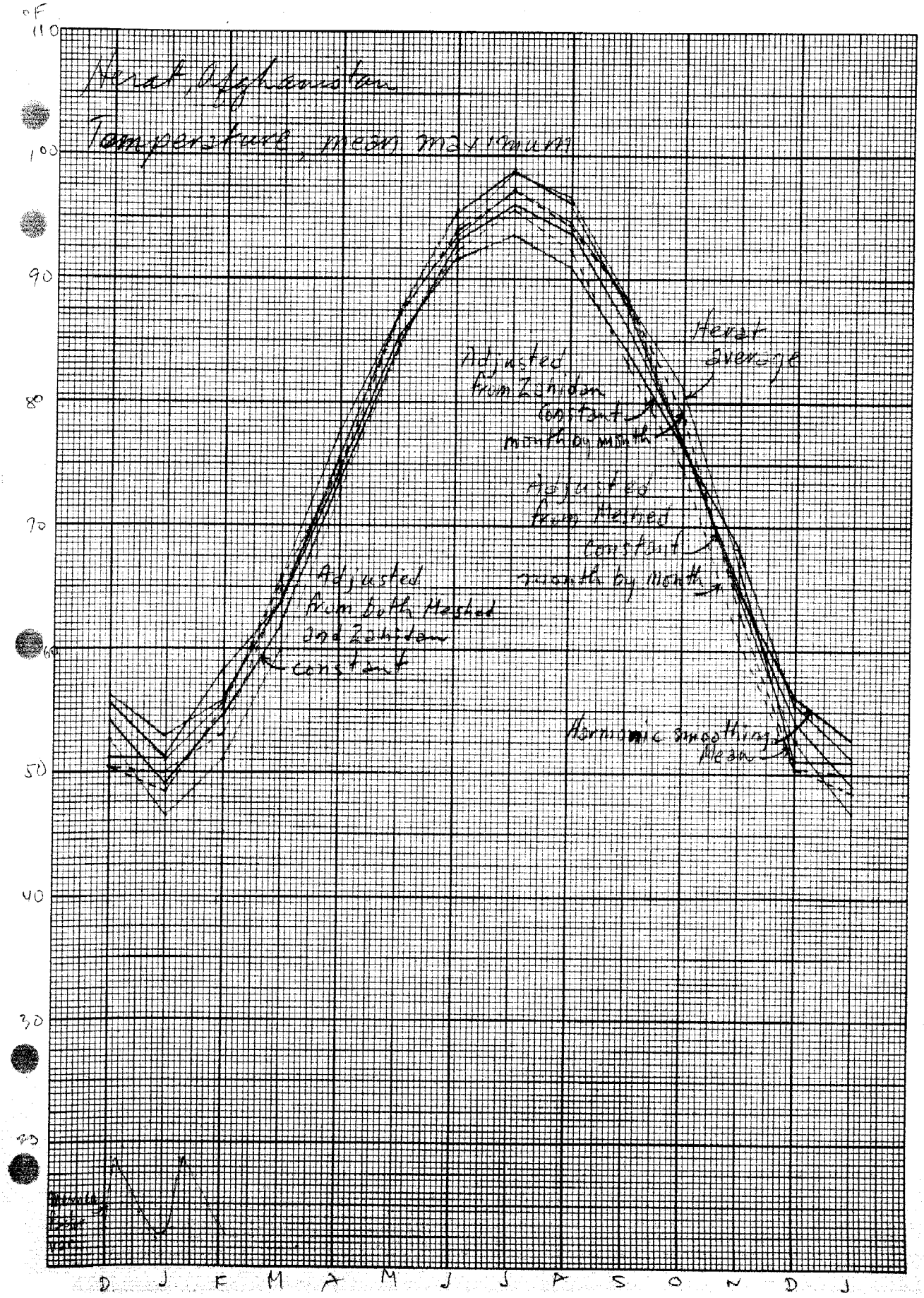
H/M 43.112 41 mo 1.052 H/Z 41.005 43 mo. .954 1.0482 H/F 19.289 21 mo .919

Constant ratio:

Herat (Meshed) 1.052	46.9	51.0	59.9	72.9	84.2	94.2	98.5	96.4	88.3	76.8	64.3	54.6	
Herat (Zahidan) .954	51.1	58.3	63.8	74.5	85.3	91.7	95.5	91.0	84.1	76.5	65.6	55.4	
Herat	49.0	54.7	61.9	73.7	84.8	93.0	96.0	93.7	86.2	76.7	65.0	54.0	74.1


Herat Mean Minimum Temperature
Compared with Seistan
80°F
Herat
70
60
50
40
30
20
10
Constant ratio (.806)
Indicated temperature for Herat
J F M A M J J A S O N D
28.8 33.0 39.0 47.5 55.2 65.5 70.5 66.0 55.1 44.3 36.0 30.1
20
30°F
40
50
60
70
80
Seistan


Herat mean monthly temperature.
70
60
50
40
30
20
10
Estimated from scatter diagram
H/Mashad curve
Computed from constant
ratio H/Mashad (.911)
Estimated from scatter diagram
H/Zahidan
Constant ratio
H/Zahidan (.961)
Constant ratio
(H/M + H/Z)½
Seistan scatter
diagram curve
6 year
average
Harmonic analysis
of record
O J F M A M J J A S O N D J


°F
110
100
90
80
70
60
50
40
30
20
Herat, Afghanistan
Temperature, mean maximum
Adjusted from Zahidan constant month by month
Herat average
Adjusted from Herat constant month by month
Adjusted from both Herat and Zahidan constant
Harmonic smoothing mean
D J F M A M J J A S O N D J

WB Form 1078B (172)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

Data, Herat. Comparison mean maximum temperature.

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ratio H/M mean	1.121	1.092	1.138	1.072	1.062	1.031	1.074	1.005	.990	1.025	.996	1.008	1.047
dif. from mean	+.074	+.045	+.091	+.025	+.015	-.016	-.073	-.042	-.057	-.022	-.051	-.039	
$\bar{M}$ marked from monthly mean ratio	50.0	53.0	64.8	74.3	85.0	92.3	95.7	92.3	83.1	74.8	60.9	50.4	
Ratio H/Z mean	.904	.905	.978	.957	.974	.978	.991	.988	1.003	.984	.914	.865	.953
dif. from monthly mean ratio	-.049	-.048	+.025	+.004	+.021	+.025	+.038	+.035	+.050	+.031	-.039	-.088	
$\bar{M}$ Zehidan	48.5	55.3	65.4	74.7	87.1	94.0	97.1	94.3	88.4	78.9	62.9	50.3	
Harmonic smoothed (actual data):													
Mean max	52.8	55.7	64.0	75.5	87.1	95.7	99.0	96.1	87.8	76.3	64.7	56.1	75.9
Mean min	29.9	32.7	39.3	48.1	56.6	62.6	64.5	61.7	55.1	46.3	37.8	31.8	47.2
Mean $\frac{\bar{M}+\bar{m}}{2}$	41.4	44.2	51.7	61.8	71.9	79.2	81.8	78.9	71.5	61.3	51.3	44.0	61.6
Dif. from actual mean	-0.3	-1.0	-2.2	-0.4	+1.7	+2.5	-0.9	-1.7	+0.3	-1.2	0	+2.3	

REMARKS

WB Form 1078B (172)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

Data, Temperature

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Mean Maximum													
Meshed 1944	50.1	57.1	68.0	73.5	86.8	94.2	101.5	96.8	87.6	77.3	66.0	39.4	
Herat 1944	53.9	59.0	70.3	76.3	91.0	95.5	101.3	96.6	85.8	79.2	68.0	37.4	
H/M ratio	1.07	1.03	1.03	1.04	1.05	1.01	1.00	1.00	.98	1.02	1.03	.95	
Meshed 1945	45.3	46.0	55.5	71.3	76.4	88.7	93.0	95.7	87.7	83.2	–	54.2	
Herat 1945	50.4	52.2	64.6	77.0	83.1	93.9	96.3	95.4	89.4	84.4	66.4	54.3	
H/M ratio	1.11	1.13	1.16	1.08	1.09	1.06	1.03	1.00	1.02	1.01	–	1.00	
Meshed 1946													
Herat 1946	48.2	59.0	66.0	83.1	92.8	95.0	97.3	92.5	90.1	82.8	59.5	50.2	
H/M ratio													
Meshed 1947													
Herat 1947	54.0	52.4	69.1	78.6	86.7	92.1	96.1	98.4	89.1	79.5	73.4	–	
H/M ratio													
Mean ratio													
Corrected Herat Mean Maximum													

REMARKS

WB Form 9302 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Jalalabad State _____ Country Afghanistan

Latitude 34 °, 26 ', N. S. Longitude 70 °, 27 ', E. W. Elevation _____ m. 1950 ft.

Data Mean temperatures Units (definition) °F Hour(s) of observation _____

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
Max	59.4	63.5	74.3	84.8	95.1	104.2	103.1	99.0	95.3	86.6	76.2	64.7	83.9		
Min	36.8	41.0	49.9	58.3	68.4	77.7	81.2	79.0	69.1	56.7	45.3	37.1	58.4		
Mean	48.1	52.3	62.1	71.1	81.8	91.0	92.2	89.0	82.2	71.7	60.8	50.9	71.2		
	Harmonically smoothed														
$\bar{M}$	60.1	67.9	72.9	85.8	96.5	102.2	103.1	100.5	95.1	86.6	75.7	65.4	83.9		
$\bar{m}$	36.8	41.3	49.1	58.9	68.9	77.4	81.4	78.7	69.4	56.5	44.7	37.6	58.4		
Mean	48.5	52.1	61.0	72.4	82.7	89.8	92.3	89.6	82.3	71.6	60.2	51.5	71.2		
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

Data from India Weather Review

p. _____
c. _____
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(WB-3-22-0-RE) 278

WB Form 9302 — U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU — C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Jalalabad State _____ Country Afghanistan

Latitude 34 °, 26 ', N. Longitude 70 °, 27 ', E. Elevation _____ m. 1950 ft.

Data Vapor pressure Units (definition) inches Hour(s) of observation 08, 17 hrs

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
	08 hours														
1940	6.71 .158	7.52 .222	9.96 .294	13.11 .387	11.70 .346	—	—	—	—	13.68 .404	—	5.89 .174			
1941	5.38 .159	— .94	— 9.28	— 14.22	— 21.59	— 27.16	— 32.63	— 33.52	— 21.30	— 14.39	— 9.98	— 6.37			
1942	—	.205	.274	.420	.637	.802	.993	.984	.629	.425	.277	.188			
1943															
1944															
1945															
1946															
1947															
No. Yrs															
Sums															
Means															
	17 hrs														
1942	—	—	—	15.10 .446	—	32.58 .962	34.78 1.027	35.42 1.046	24.11 .712	18.39 .540	12.46 .368	8.74 .258			
1943															
1944															
1945															
1946															
1947															
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

Data from India Weather Review

p. _____
c. _____
✓ _____

(WB-3-27-17-5M) 278

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Jalalabad Afghanistan

Mean Monthly Maximum Temperature, Harmonically Smoothed

Sheet of

Computed by	Date	Checked by	Date

		cos		sin		cos		sin						
Jan	59.4	1.	-24.5	0	0	+1	-24.5	0	0	-24.5				
Feb	63.5	.866	-17.7	+.5	-10.2	+.5	-10.2	+.866	-17.7	-20.4				
Mar	74.3	.5	-4.8	+.866	-8.3	-.5	+4.8	+.866	-8.3	-9.6				
Apr	84.8	0	0	+1.	+0.9	-1	-0.9	0	0	+0.9				
May	95.1	-.5	-5.6	+.866	+9.7	-.5	-5.6	-.866	-9.7	+11.2				
June	104.2	-.866	-17.6	+.5	+10.2	+.5	+10.2	-.866	-17.6	+20.3				
July	103.1	-1.	-19.2	0	0	+1	+19.2	0	0	+19.2				
Aug	99.0	-.866	-13.1	-.5	-7.6	+.5	+7.6	+.866	+13.1	+15.1				
Sept	95.3	-.5	-5.7	-.866	-9.9	-.5	-5.7	+.866	+9.9	+11.4				
Oct	86.6	0	0	-1.	-2.7	-1	-2.7	0	0	+2.7				
Nov	76.2	.5	-3.9	-.866	+6.7	-.5	+3.9	-.866	+6.7	-7.7				
Dec	64.7	.866	-16.6	-.5	+9.6	+.5	-9.6	-.866	+16.6	-19.2				
	1006.2		-128.7		-1.6		-13.5		-7.0					
	83.9	(1/6)	-21.5		-0.27		-2.3		-1.2					
	.6									-.6				

$f_1 = -21.5$ Log 21.5 = 1.33244 $f_2 = -2.3$ Log 2.3 = 0.36173

$g_1 = -0.27$ 0.27 7.43137 $g_2 = -1.2$ 1.2 = 0.07918

$(A_1) = 89°17'$ Log tan A_1 = 19.2187 $(A_2) = 62°27'$ Log tan A_2 = 0.28255

$a_1 = 21.5$ Log 21.5 1.33244 $a_2 = 2.6$ Log 2.6 0.36173

$A_1 = 269°17'$ Log sin A_1 7.99997 $A_2 = 242°27'$ Log sin A_2 = 7.94773

$a_1 = 21.5$ 1.33247 a_2 2.6 0.41400

$T = 83.9 + 21.5 \sin(x + 269°) + 2.6 \sin(2x + 242°)$

Jan	0	-89	-21.5	-62	-2.3	60.1
Feb	30	-61	-18.8	-58	-2.2	62.9
Mar	60	-31	-11.1	+2	+0.1	72.9
Apr	90	-1	-0.4	+62	+2.3	85.8
May	120	+29	+10.4	+58	+2.2	96.5
June	150	+59	+18.4	-2	-0.1	102.2
July	180	+89	+21.5	-62	-2.3	103.1
Aug	210		+18.8	-58	-2.2	100.5
Sept	240		+11.1	+2	+0.1	95.1
Oct	270		+0.4	+62	+2.3	86.6
Nov	300		-10.4	+58	+2.2	75.7
Dec	330		-18.4	-2	-0.1	65.4

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Jalalabad Afghanistan
Mean Monthly Minimum Temperature Harmonically Curved

Sheet of

Computed by	Date	Checked by	Date

			Corr		Corr		Corr		Corr				
Jan	36.8	-21.6	+1	-21.6	0	0	+1	-21.6	0	0			
Feb	41.0	-17.4	+.866	-15.1	+.5	-8.7	+.5	-8.7	+.866	-15.1			
Mar	49.9	-8.5	+.5	-4.3	+.866	-7.4	-.5	+4.3	+.866	-7.4			
April	58.3	-0.1	0	0	+1	-0.1	-1	+0.1	0	0			
May	68.4	+10.0	-.5	-5.0	+.866	+8.7	-.5	-5.0	-.866	-8.7			
June	77.7	+19.3	-.866	-16.7	+.5	+9.7	+.5	+9.7	-.866	-16.7			
July	81.2	+22.8	-1	-22.8	0	0	+1	+22.8	0	0			
Aug	79.0	+20.6	-.866	-17.8	-.5	-10.3	+.5	+10.3	+.866	+17.8			
Sept	69.1	+10.7	-.5	-5.4	-.866	-9.3	-.5	-5.4	+.866	+9.3			
Oct	56.7	-1.7	0	0	-1	+1.7	-1	+1.7	0	0			
Nov	45.3	-13.1	+.5	-6.6	-.866	+11.3	-.5	+6.6	-.866	+11.3			
Dec	37.1	-21.3	+.866	-18.4	-.5	+10.7	+.5	-10.7	-.866	+18.4			
	700.5			-133.7		+6.3		+4.1		+8.9			
	58.4	(b)		-22.3		+1.05		+0.68		+1.48			
	-.3	-.3											

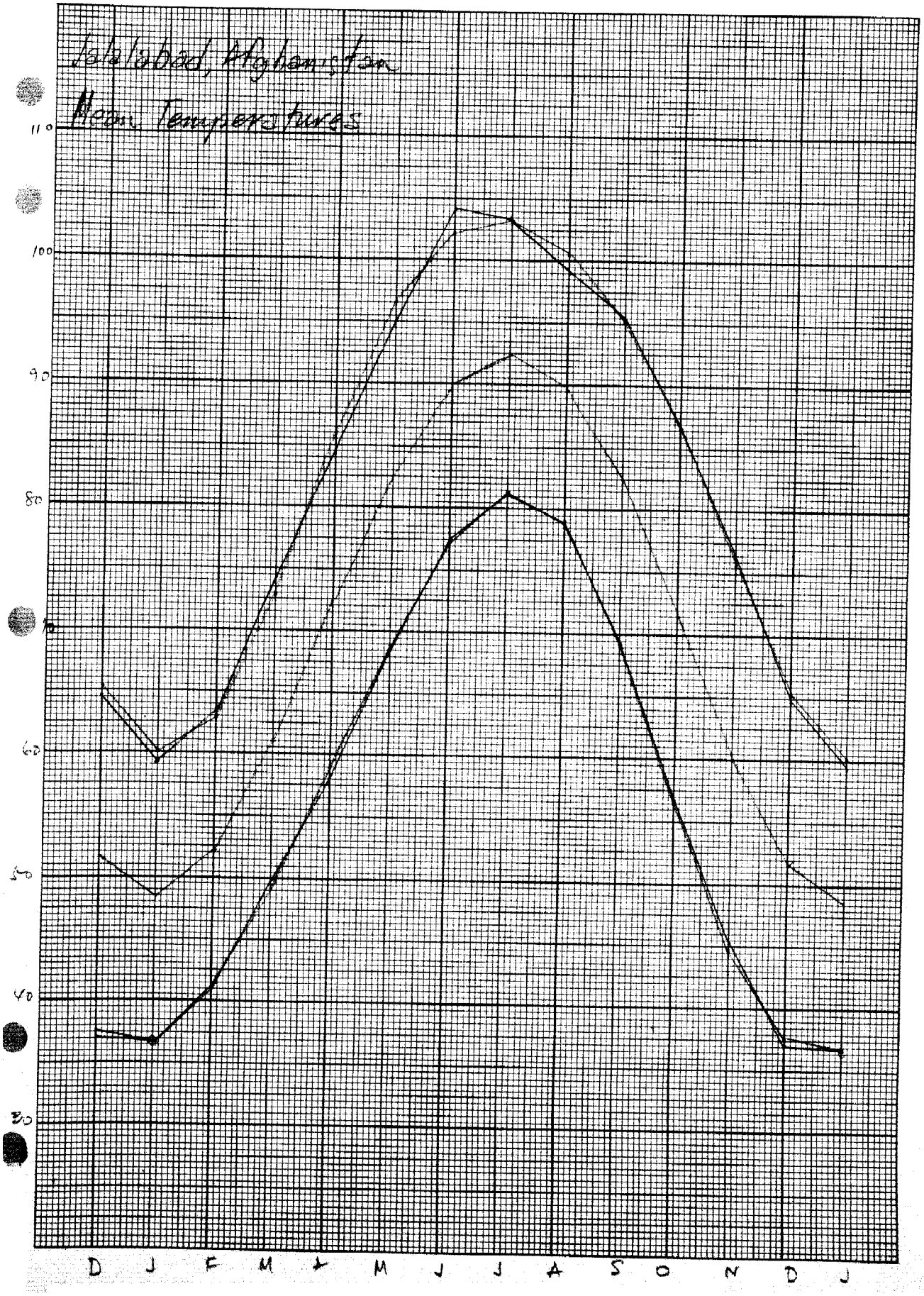
$f_1 = -22.3$ Log 22.3 1.34830 $f_2 = +0.68$ Log 0.68 = T.83251
$g_1 = +1.05$ 1.05 0.02119 $g_2 = +1.48$ 1.48 0.17026
$(A_1) = 87°18'$ Log tan A_1 1.32711 $(A_2) = 24°41'$ Log tan A_2 T.66225

$a_1 = 22.3$ Log 22.3 1.34830 $a_2 = 1.6$ Log 0.68 T.83251
$A_1 = 172°42'$ Log sin A_1 T.99522 $A_2 = 24°41'$ Log sin A_2 T.62076
a_1 22.3 1.34878 a_2 1.63 0.21175

$T = 58.4 + 22.3 (\sin x + 273°) + 1.6 (\sin 2x + 75°)$

Jan	-22.3	+0.7	36.8
Feb	-18.7	+1.6	41.3
Mar	-10.1	+0.9	49.1
Apr	+1.2	-0.7	58.9
May	+12.1	-1.6	68.9
June	+19.9	-0.9	77.4
July	+22.3	+0.7	81.2
Aug	+18.7	+1.6	78.7
Sept	+10.1	+0.9	69.4
Oct	-1.2	-0.7	56.5
Nov	-12.1	-1.6	44.7
Dec	-19.9	-0.9	37.6

Commerce-Weather Bureau, Washington, D. C.


Jalalabad, Afghanistan
Mean Temperatures
110
100
90
80
70
60
50
40
30
D J F M A M J J A S O N D J

581

WB Form 9302 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Kabul State Country Afghanistan

Latitude 34 °, 30 ', N. Longitude 69 °, 13 ', E. Elevation m. 5955 ft.

Data Units (definition) English Hour(s) of observation

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
Pressure Mean	821.3	820.1	820.5	819.4	817.9	814.7	812.2	813.9	817.1	820.7	822.3	821.8	818.5	1927-32	
Highst	831.3	826.5	826.5	824.5	824.3	821.3	817.8	821.0	823.1	827.9	827.9	828.9	827.9		"
Lowest	808.6	812.9	801.3	812.3	809.9	807.1	804.5	807.3	809.3	813.4	811.3	810.5	809.3		"
Temperature of Max	42.8	45.3	56.5	69.7	80.5	87.8	92.4	91.9	86.4	75.3	64.7	50.5	70.3	1893-1919;	
Min	18.4	21.2	33.5	43.1	50.7	55.8	59.9	58.6	50.6	40.7	32.7	25.4	40.9	1924-1938	
Mean	30.6	33.2	45.0	56.4	65.6	71.8	76.2	75.2	68.5	58.0	48.7	38.0	55.6	"	
Hst	75	77	87	99	102	109	112	107	102	98	92	82	112	1893---	
Lst	-7	-5	9	20	31	31	45	45	34	20	5	0	-7	1938	
Precip Total	1.72	1.80	3.25	2.59	0.97	0.21	0.11	0.12	0.05	0.35	0.50	0.95	12.62	29 yrs to 1938	
Max 24 hrs	3.90	0.98	1.68	1.13	0.91	0.60	0.29	0.25	0.30	1.18	0.75	1.04	3.90	1924-38	
Days .01	3.4	3.8	7.2	5.7	2.2	0.6	0.4	0.4	0.1	0.5	1.4	1.7	27.4	22 yrs	
Days Snow	5.0	7.4	1.6	0	0.1	0	0	0	0	0.4	0.1	4.0	18.6	1924-32	
Days Pa	0	0	2	6	7	1	3	2	*	2	*	*	23	1924-32	
Days Gales	1.6	2.0	1.7	2.7	2.7	3.5	4.4	1.2	1.4	1.0	0	0.7	22.9	1924-32	
Days Min ≤ 32°F	29.1	26.4	11.1	0.1	0	0	0	0	0	4.0	20.1	25.1	115.9	1924-32	
Max ≤ 32	2.6	1.3	1.0	0	0	0	0	0	0	0	0	1.7	6.6	1924-32	
Days Fog	0.6	0	0	0	0	0.2	0	0.8	0.2	0	1.0	0.2	3.0	1924-32	
Rel. Hum. 8a	68	68	60	48	39	31	34	34	30	34	45	62	46	1931-38	
Clouds 8a	4.2	4.9	4.5	4.2	3.0	1.5	1.5	1.5	0.9	1.4	2.6	4.0	2.8	1924-38	
Wind Prev. Dir.	SW	SW	S	S	S	S/SW	S	S	S	SW	SW	SW	S	1931-38	
Wind Speed	3.0	2.8	2.5	1.8	2.0	2.3	2.0	1.6	1.5	2.0	1.9	2.4	2.2	1931-38	
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

Data taken from Index of Climatic Data card # 4563.

Sources: Met. Zeit. 51, 1934: Iven, H.E.: Zum Klima von Kabul

Reed: Temperatures in Asia. India Weather Review.

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(WB-9-27-47-5M) 278

WB Form 9302 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Kabul State Country Afghanistan

Latitude °, ', N. S. Longitude °, ', E. W. Elevation m. ft.

Data Mean Temperatures Units (definition) °F Hour(s) of observation

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
"Normal"															
Max	37.2	42.2	52.8	65.3	78.2	86.9	92.0	91.0	84.5	73.3	61.1	47.6	67.7		
Min	19.2	24.0	33.6	42.7	51.1	56.0	60.6	58.3	51.4	41.4	32.3	26.7	41.4		
Mean	28.2	33.1	43.2	54.0	64.7	71.5	76.3	74.7	78.0	57.4	46.7	37.2	54.6		
Harmonically smoothed															
Max	39.8	41.9	52.1	65.9	78.6	87.1	91.0	90.3	84.7	74.1	60.0	46.9			
Min	21.3	24.6	32.4	42.4	51.3	57.3	59.5	57.6	51.6	42.4	32.1	24.3			
Mean	30.6	33.3	42.3	54.2	65.0	72.2	75.3	74.0	68.2	58.3	46.1	35.6			
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

p.

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(WB—2-27-47—5M) 278

WB Form 9302

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Kabul State _____ Country Afghanistan

Latitude 34 °, 30 ', N. Longitude 69 °, 13 ', E. Elevation Ht m. 5955 ft.

Data "Normal" Units (definition) English Hour(s) of observation _____

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
Temp °F Max	37.2	42.2	52.8	65.3	78.2	86.9	92.0	91.0	84.5	73.3	61.1	47.6	67.7		
Min	19.2	24.0	33.6	42.7	51.1	56.0	60.6	58.3	51.4	41.4	32.3	26.7	41.4		
Vapor Pres. mb	2.81	3.18	4.57	7.21	8.94	9.18	10.73	10.46	7.52	4.47	3.42	2.87	6.32		
R.H. 8hrs	75	75	63	60	48	39	38	42	43	49	60	84	56		
Sky Cloud (%)	4.6	5.4	4.4	3.7	2.3	0.7	0.7	0.9	0.5	1.1	2.5	4.8	2.6		
Precip. in. Total	1.29	1.49	3.59	3.30	0.85	0.17	0.07	0.09	0.04	0.40	0.60	0.66	12.46		
Days 0.10 in.	3.1	3.4	7.1	6.3	2.5	0.5	0.3	0.4	0.2	0.8	1.5	2.2	27.7		
Wind Speed m/h	3.5	3.5	3.0	2.3	2.3	2.5	2.2	1.8	1.8	2.1	2.1	2.5	2.5		
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

Data from "India Weather Review" 1941-47. "Normals" as computed from "departure from normal" in monthly and annual tables.

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p. _____

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(WB-2-27-47-5M) 278

WB Form 9302 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Kabul State Country Afghanistan

Latitude °, ', N. S. Longitude °, ', E. W. Elevation m. 5955 ft.

Data "Normal" Units (definition) Hour(s) of observation

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
	Kabul Mean Maximum Normal Temperature °F														
	37.2	42.2	52.8	65.3	78.2	86.9	92.0	91.0	84.5	73.3	61.1	47.6	67.7		
	Kabul Mean Minimum Normal Temperature °F														
	19.2	24.0	33.6	42.7	51.1	56.0	60.6	58.3	51.4	41.4	32.3	26.7	41.4		
	Kabul Mean Vapor pressure at 9 hr mb														
	2.81	3.18	4.57	7.21	8.94	9.18	10.73	10.46	7.52	4.47	3.42	2.87	6.32		
	Kabul Mean Relative humidity 9 hr														
	75	75	63	60	48	39	38	42	43	49	60	84	56		
Cloud og													2.6		
	Kabul Total Precipitation, Normal. Inches. Days 0.10 in														
Inches	1.29	1.49	3.59	3.30	0.85	0.17	0.07	0.09	0.04	0.40	0.60	0.66	12.46		
Days	3.1	3.4	7.1	6.3	2.5	0.5	0.3	0.4	0.2	0.8	1.5	2.2	27.7		
Wind mph													2.5		
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

Data from India Monthly Weather Review 1944-1947

p. ---
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(WB-2-27-47-5M) 278

WB FORM 920-1
(Formerly 5008)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Kabul Afghanistan. Normal Max Temperatures
Harmonically smoothed

Sheet of

Computed by Date Checked by Date

			Cos.		sin		Cos		sin				
Jan	37.2	-30.5	+1.	-30.5	0	0	+1.	-30.5	0	0			
Feb	42.2	-25.5	+.866	-22.1	+.5	-12.8	+.5	-12.8	+.866	-22.1			
Mar	52.8	-14.9	+.5	-7.5	+.866	-12.9	-.5	+7.5	+.8	-12.9			
Apr	65.3	-2.4	0	0	+1.	-2.4	-1.	+2.4	0	0			
May	78.2	+10.5	-.5	-5.3	+.8	+9.1	-.5	-5.3	-.8	-9.1			
June	86.9	+19.2	-.8	-16.6	+.5	+9.6	+.5	+9.6	-.8	-16.6			
July	92.0	+24.3	-1.	-24.3	0	0	+1.	+24.3	0	0			
Aug	91.0	+23.3	-.8	-20.2	-.5	-11.7	+.5	+11.7	+.8	+20.2			
Sept	84.5	+16.8	-.5	-8.4	-.8	-14.5	-.5	-8.4	+.8	+14.5			
Oct	73.3	+5.6	0	0	-1.	-5.6	-1.	-5.6	0	0			
Nov	61.1	-6.6	+.5	-3.3	-.8	+5.7	-.5	+3.3	-.8	+5.7			
Dec	47.6	-20.1	+.8	-17.4	-.5	+10.1	+.5	-10.1	-.8	+17.4			
	817.1			-155.6		-25.4		-13.9		-2.9			
	68.7			-25.9		-4.23		-2.32		-0.48			
	-.3	-.3											

$p_1 = -25.9$ log 25.9 = 1.41330 $p_2 = -2.32$ log 2.32 0.36569
$q_1 = -4.23$ 4.23 0.62634 $q_2 = -0.48$ 0.48 $\bar{1}$.68124
$(A_1) = 80°43'$ log tan A_1 0.78696 $(A_2) = 78°19'$ log tan A_2 0.68425

$a_1 = 26.2$ 25.9 1.41330 $a_2 = 2.4$ 2.32 0.36549
$A_1 = 260°43'$ log sin A_1 $\bar{1}$.99427 $A_2 = 258°19'$ log sin A_2 $\bar{1}$.99091
a_1 1.41903 a_2 0.37458

$T = 67.7 + 25.9 \sin(x + 260.7°) + 2.4 \sin(2x + 258.3°)$

Jan	-25.6	-2.3	39.8
Feb	-24.2	-1.6	41.9
Mar	-16.3	+0.7	52.1
Apr	-4.1	+2.3	65.9
May	+9.3	+1.6	78.6
June	+20.1	-0.7	87.1
July	+25.6	-2.3	91.0
Aug	+24.2	-1.6	90.3
Sept	+16.3	+0.7	84.7
Oct	+4.1	+2.3	74.1
Nov	-9.3	+1.6	60.0
Dec	-20.1	-0.7	46.9

Commerce-Weather Bureau, Washington, D. C.

WB FORM 920-1
(Formerly 5008)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Katul Normal min. Temp.
Harmonically Smoothed

Sheet of

Computed by	Date	Checked by	Date

			cos		sin		cos		sin	
Jan	19.2	-22.2	+1.	-22.2	0	0	+1.	-22.2	0	0
Feb	24.0	-17.4	+.866	-15.1	+.5	-8.7	+.5	-8.7	+.866	-15.1
Mar	33.6	-7.8	+.5	-3.9	+.866	-6.8	-.5	+3.9	+.8	-6.8
Apr	42.7	+1.3	0	0	+1.	+1.3	-1.	-1.3	0	0
May	51.1	+9.7	-.5	-4.9	+.8	+8.4	-.5	-4.9	-.8	-8.4
June	56.0	+14.6	-.8	-12.6	+.5	+7.3	+.5	+7.3	-.8	-12.6
July	60.6	+19.2	-1.	-19.2	0	0	+1.	+19.2	0	0
Aug	58.3	+16.9	-.8	-14.6	-.5	-8.5	+.5	+8.5	+.8	+14.6
Sept	51.4	+10.0	-.5	-5.0	-.8	-8.7	-.5	-5.0	+.8	+8.7
Oct	41.4	0	0	0	-1	0	-1.	0	0	0
Nov	32.3	-9.1	+.5	-4.6	-.8	+7.9	-.5	+4.6	-.8	+7.9
Dec	26.7	-14.7	+.866	-12.7	-.5	+7.4	+.5	-7.4	-.8	+12.7
	497.3			-114.8		-0.4		-6.0		+1.0
	41.4			-19.1		-0.067		-1.0		+0.17
	+.5	+.5								

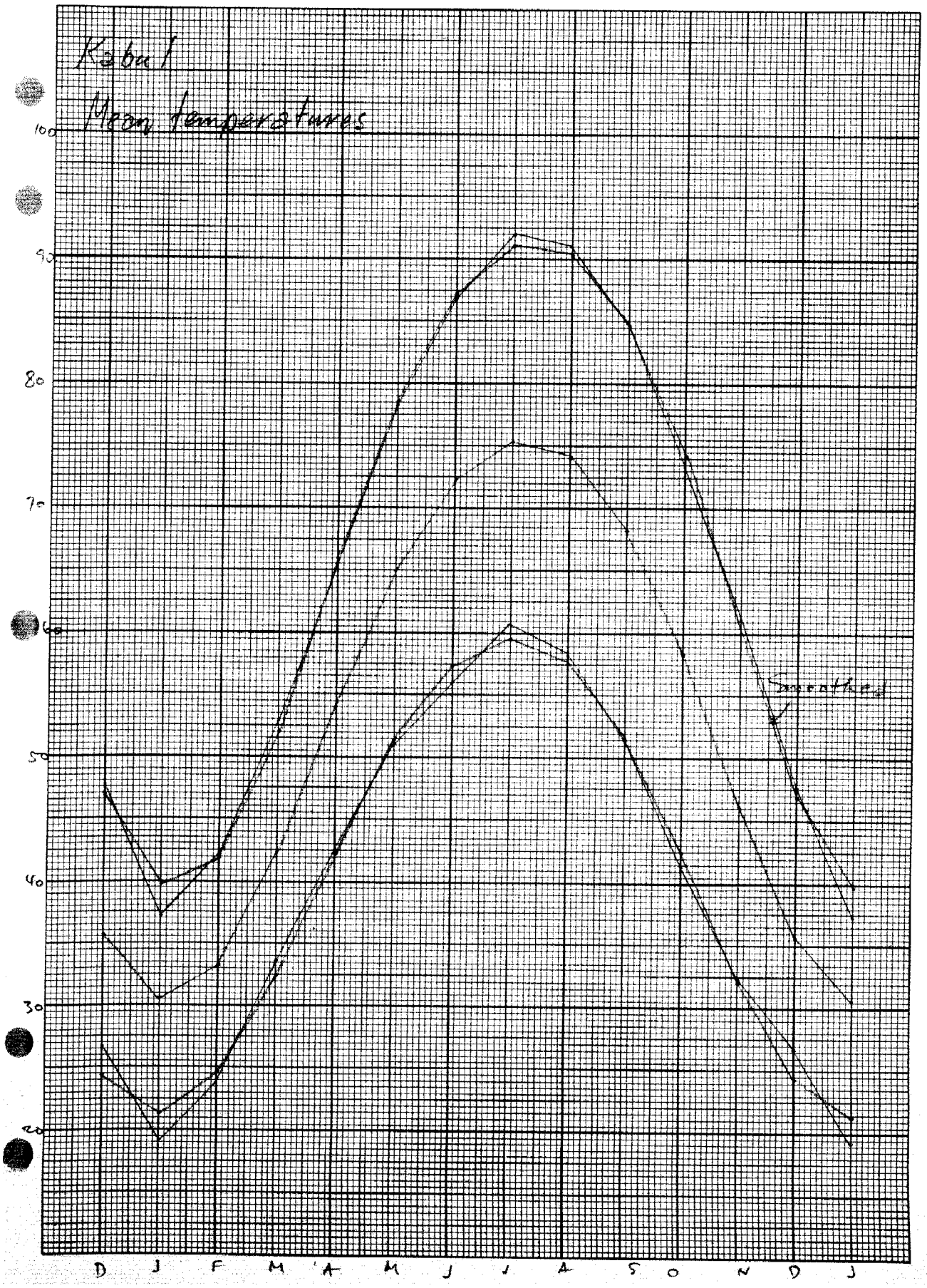
$p_1 = -19.1$ log 19.1 = 1.28103 $p_2 = -1.0$ log 1 0.00000
$q_1 = -.067$ .067 $\bar{2}.82607$ $q_2 = +0.17$ .17 $\bar{1}.23045$
$(A_1) = 89°48'$ lt A_2 2.45496 $(A_2) = 80°21'$ 0.76955

$a_1 = 19.1$ 19.1 1.28103 $a_2 = 1.0$ 0.00000
$A_1 = 269°48'$ lo A_1 0.0 $A_2 = 279°39'$ 7.99381
0.00619

$$T = 41.4 + 19.1 \sin(x + 270) + 1.0 \sin(2x + 280°)$$

Jan	-19.1	-1.0	21.3
Feb	-16.5	-0.3	24.6
Mar	-9.6	+0.6	32.4
Apr	0	+1.0	42.4
May	+9.6	+0.3	51.3
June	+16.5	-0.6	57.3
July	+19.1	-1.0	59.5
Aug	+16.5	-0.3	57.6
Sept	+9.6	+0.6	51.6
Oct	0	+1.0	42.4
Nov	-9.6	+0.3	32.1
Dec	-16.5	-0.6	24.3

Normal


Kabul
Mean temperatures
100
90
80
70
60
50
40
30
20
Smoothed
D
J
F
M
A
M
J
J
A
S
O
N
D
J

WB Form 1078

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

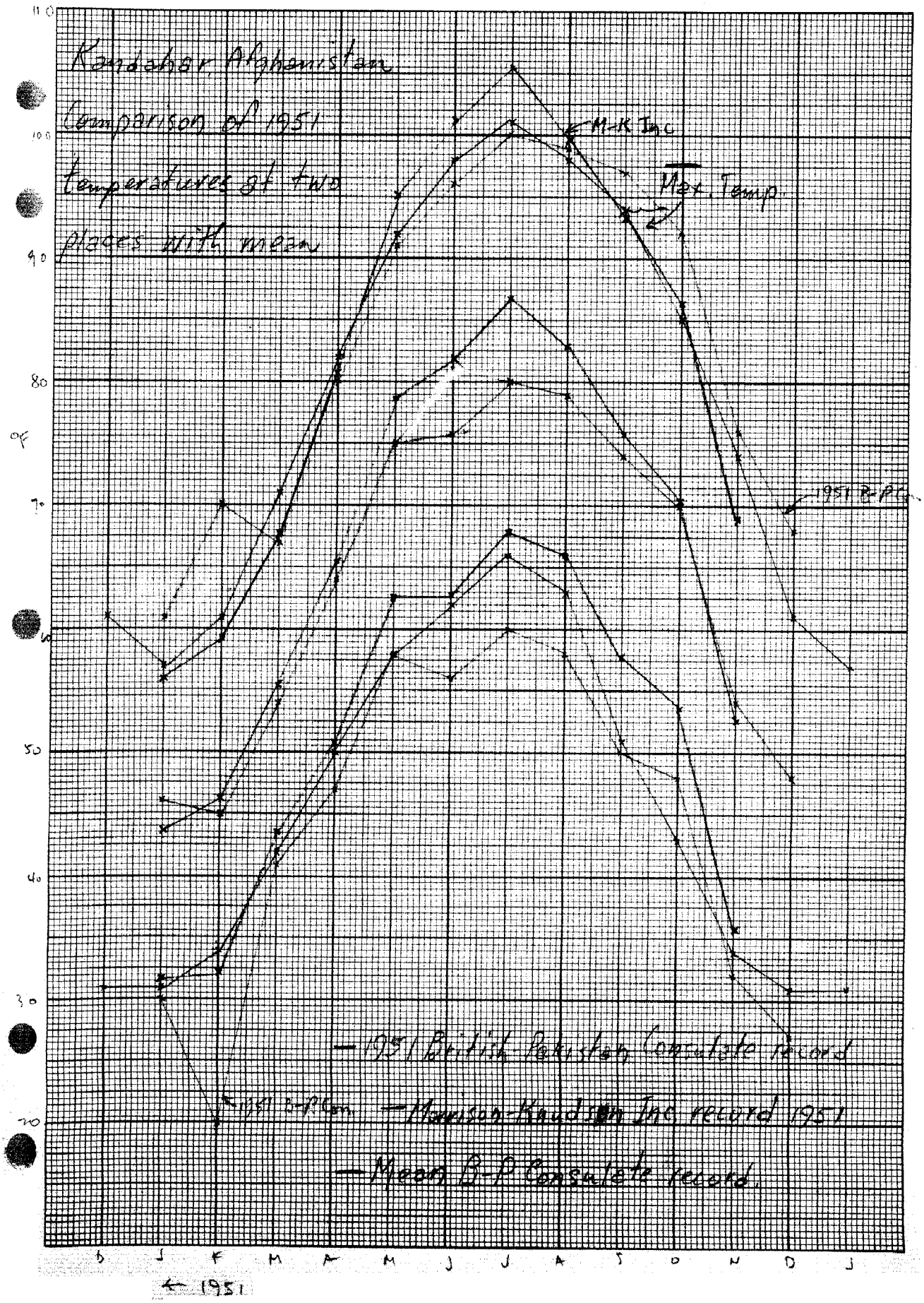
DATA SHEET—DAILY VALUES

Station, Kandahar

Data, Comparison of Temperatures

	19	January	February	March	April	May	June	July	August	September	October	November	December	
T	1951	46.0	45.0	54.0	63.7 64	74.6 75	76.3 81	80.3	79.7 79	73.4 74	69.4 70	54.2 54	48	B-P Consulate
	1951	43.6	46.4	55.4	65.6	78.7	81.8	86.7	82.8	75.8	70.2	52.6	—	M-K Inc
Δ	3	+2.4	+1.4	-1.4	-1.9	-4.3	-5.5	-6.4	-4.1	-2.4	-0.3	+1.2	+1.8	
	4													
ΔN	1951	+2	-3	-2	-2	0	+1	-3	-2	+1	+6	0	+2	B-P Consulate
ΔN	1951	-0.2	-1.1	-1.0	-0.2	+3.6	+2.2	+3.3	+2.2	+3.1	+6.0	-1.3	—	M-K Inc
	7													
N	8	43.8	47.5	56.4	65.8	75.1	79.6	83.4	80.6	72.7	64.2	53.9	46.2	
	9													
	10													
	11													
	12													
	13	Comparison of two temperature records at Kandahar:												
	14													
	15	The exposure of the Morrison-Knudson Co must have												
	16													
	17	been in a more open location than that of the British-												
	18													
	19	Pakistan Consulate. Eleven months of comparative data												
	20													
	21	show the Consulate one to two degrees warmer in winter												
	22													
	23	and 5 to 6 degrees cooler in midsummer. (Feb?)												
	24													
	25													
	26													
	27													
	28													
	29													
	30													
	31													
	Sums													
	Means													

(WB—10-11-41—40M) 284


Kandahar Afghanistan
Comparison of 1951
temperatures at two
places with mean
M-K Inc
Max. Temp.
1951 B-P Con.
1951 B-P Con.
— 1951 British Pakistan Consulate record
— Morrison-Knudsen Inc record 1951
— Mean B-P Consulate record.
°F
110
100
90
80
70
60
50
40
30
20
D J F M A M J J A S O N D J
← 1951

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Kandahar Mean Monthly Maximum Temperature
Harmonic Smoothing.

Sheet of

Computed by			Date				Checked by			Date			
			cos		sin		cos		sin				
Jan	56.9	-24.2	1	-24.2	0	0	1	-24.2	0	0			
Feb	60.8	-20.3	.866	-17.6	.5	-10.2	.5	-10.2	.866	-17.6			
Mar	71.2	-9.9	.5	-5.0	.866	-8.6	-.5	+5.0	.866	-8.6			
Apr	81.8	+0.7	0	0	1.	+0.7	-1.	-0.7	0	0			
May	92.0	+10.9	-.5	-5.5	.866	+9.4	-.5	-5.5	-.866	-9.4			
June	97.9	+16.8	-.866	-14.5	.5	+8.4	.5	+8.4	-.866	-14.5			
July	101.4	+20.3	-1.	-20.3	0	0	1	+20.3	0	0			
Aug	99.1	+18.0	-.866	-15.6	-.5	-9.0	.5	+9.0	.866	+15.6			
Sept	94.0	+12.9	-.5	-6.5	-.866	-11.2	-.5	-6.5	.866	+11.2			
Oct	85.3	+4.2	0	0	-1.	-4.2	-1	-4.2	0	0			
Nov	72.4	-8.7	.5	-4.4	-.866	+7.5	-.5	+4.4	-.866	+7.5			
Dec	60.7	-20.4	.866	-17.7	-.5	+10.2	.5	-10.2	-.866	+17.7			
	973.5			-131.3		-7.0		-14.4		+1.9			
	81.1			-21.9		-1.2		-2.4		+0.3			
	.3	+3.2											

$p_1 = -21.9$ log 21.9 1.34044 $p_2 = -2.4$ log 2.4 0.38012
$q_1 = -1.2$ 1.2 0.07918 $q_2 = +0.32$ .32 $\bar{1}.50515$
$(A_1) = 86°52'$ log tan A_1 1.26126 $(A_2) = 82°24'$ log tan A_2 0.87497

$a_1 = 21.9$ 21.9 1.34044 $a_2 = 2.4$ 2.4 0.38012
$A_1 = 267°$ log sin A_1 $\bar{1}.99935$ $A_2 = 278°$ log sin A_2 $\bar{1}.99617$
$a_1 = 21.9$ 1.34109 $a_2 =$ 0.38395

$T = 81.1 + 21.9(\sin x + 267°) + 2.4(\sin 2x + 278°)$

				2x+278			
Jan	-87	.99863	-21.9	-82	.99027	-2.4	56.8
Feb	-63	.89101	-19.5	-22	.37461	-0.9	60.7
Mar	-33	.54464	-11.9	+38	.61566	+1.5	70.7
April	-3	.05234	-1.1	+82		+2.4	82.4
May	+27	.45399	+9.9	+22		+0.9	91.9
June	+57	.83867	+18.4	-38		-1.5	98.0
July	+87		+21.9	-82		-2.4	100.6
Aug			+19.5	-22		-0.9	99.7
Sept			+11.9	+38		+1.5	94.5
Oct			+1.1	+82		+2.4	84.6
Nov			-9.9	+22		+0.9	72.1
Dec			-18.4	-38		-1.5	61.2

Jul 7 May 54

Commerce-Weather Bureau, Washington, D. C.

WB FORM 920-1
(Formerly 5003)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
COMPUTATION AND TABULATION SHEET

Kandahar Mean Monthly Minimum Temperature
Harmonic Smoothing

Sheet of

Computed by			Date				Checked by			Date			
			Cos₁		Sin₁		Cos₂		Sin₂				
Jan	30.7	-16.3	1.	-16.3	0	0	1.	-16.3	0	0			
Feb	34.9	-12.1	.866	-10.5	+.5	-6.1	.5	-6.1	.866	-10.5			
Mar	41.9	-5.1	.5	-2.6	+.866	-4.4	-.5	+2.6	.866	-4.4			
April	49.9	+2.9	0	0	+1.	+2.9	-1.	-2.9	0	0			
May	57.4	+10.4	-.5	-5.2	+.866	+9.0	-.5	-5.2	-.866	-9.0			
June	61.6	+14.6	-.866	-12.6	+.5	+7.3	.5	+7.3	-.866	-12.6			
July	66.0	+19.0	-1.	-19.0	0	0	1.	+19.0	0	0			
Aug	62.9	+15.9	-.866	-13.8	-.5	-8.0	.5	+8.0	.866	+13.8			
Sept	51.6	+4.6	-.5	-2.3	-.866	-4.0	-.5	-2.3	.866	+4.0			
Oct	43.3	-3.7	0	0	-1.	+3.7	-1.	+3.7	0	0			
Nov	33.8	-13.2	.5	-6.6	-.866	+11.4	-.5	+6.6	-.866	+11.4			
Dec	30.5	-16.5	.866	-14.3	-.5	+8.3	.5	-8.3	-.866	+14.3			
	564.5			-103.2		+20.1		+6.1		+7.0			
	47.0			-17.2		+3.35		+1.0		+1.2			
	.5	.5											

$p_1 = -17.2$ log 17.2 = 1.23553 $p_2 = +1.0$ log 1.0 = 0.00000
$q_1 = +3.35$ 3.35 0.52504 $q_2 = +1.2$ 1.2 = 0.07918
$(A_1) = 78°58'$ log tan A_1 78°58' 0.71049 $(A_2) = 39°48'$ log tan A_2 = $\bar{1}$.92082

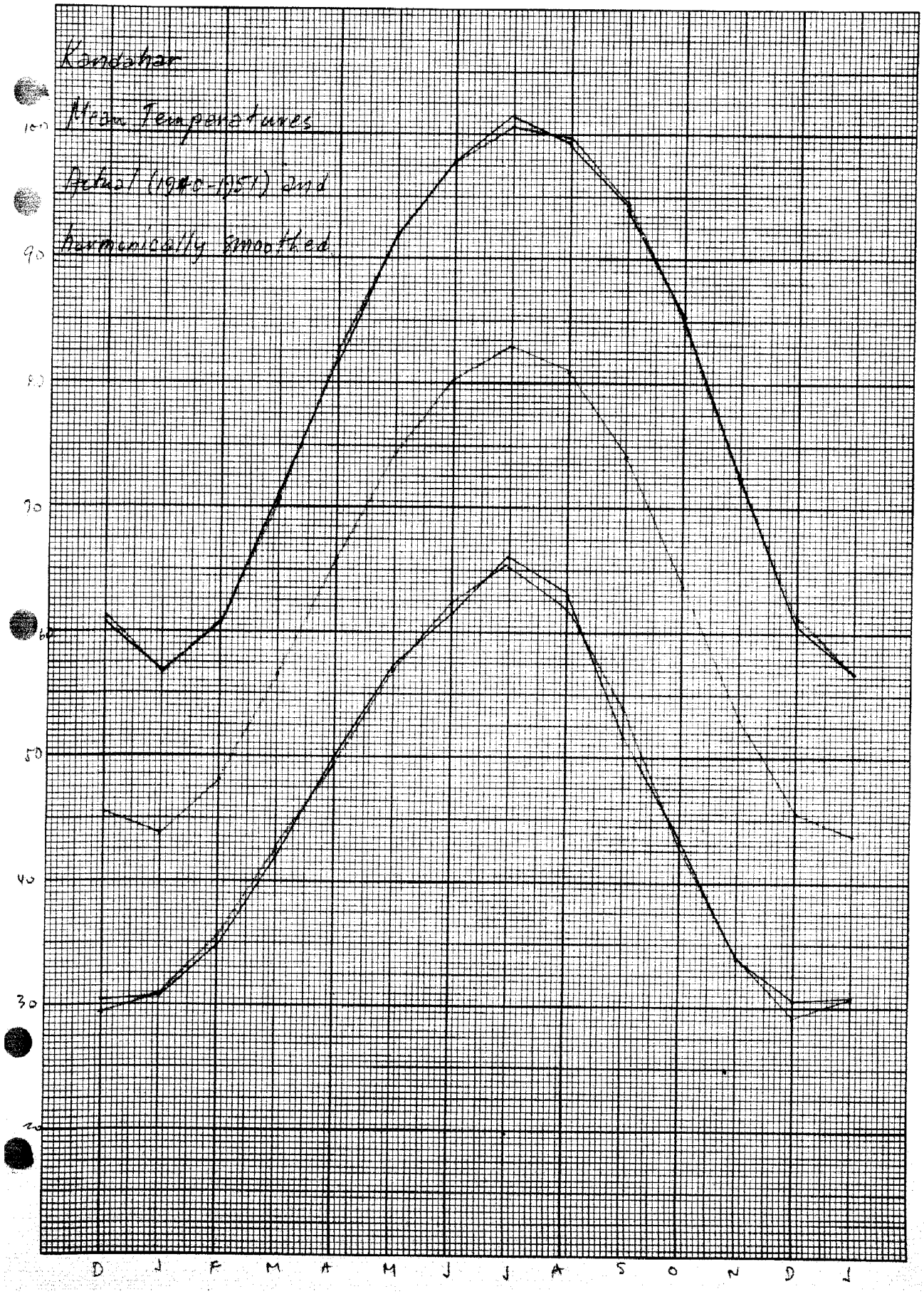
$a_1 = 17.5$ 17.2 1.23553 $a_2 = 1.6$ log 1.0 = 0.00000
$A_1 = 281°$ log sin A $\bar{1}$.99190 $A_2 = 40°$ log sin A_2 = $\bar{1}$.80625
a_1 1.24363 1.56 0.19375

$T = 47.0 + 17.5(\sin x + 281) + 1.6(\sin 2x + 40°)$

Jan	-79	.98163	-17.2	+40	.64279	+1.0	30.8
Feb	-49	.75471	-13.2	+80	.98481	+1.6	35.4
Mar	-19	.32557	-5.7	+50	.76604	+1.2	42.5
Apr	+11	.19081	+3.3	-40		-1.0	49.3
May	+41	.65606	+11.5	-80		-1.6	56.9
June	+71	.94552	+16.5	-50		-1.2	62.3
July	+79		+17.2	+40		+1.0	65.2
Aug			+13.2	+80		+1.6	61.8
Sept			+5.7	+50		+1.2	53.9
Oct			-3.3	-40		-1.0	42.7
Nov			-11.5	-80		-1.6	33.9
Dec			-16.5	-50		-1.2	29.3

Chk'd 21 May 58

Commerce-Weather Bureau, Washington, D. C.


Kandahar
Mean Temperatures
Actual (1940-1951) and
harmonically smoothed
100
90
80
70
60
50
40
30
20
D
J
F
M
A
M
J
J
A
S
O
N
D
J

WB FORM 5003

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU Afghanistan 581

COMPUTATION AND TABULATION SHEET

Kandahar Afghanistan Temperature

Temperature Harmonic analysis. British Consulate data

Sheet of

Computed by			Date				Checked by			Date			
	T		Cos,		Sin,								
Jan	43.8	-20.1	1.	-20.1	0	0	1	-20.1	0	0			
Feb	47.8	-16.1	.866	-14.0	0.5	-8.1	.5	-8.1	.866	-14.0			
Mar	53.9	-10.0	.5	-5.0	.866	-8.7	-.5	+5.0	.866	-8.7			
Apr	65.8	+1.9	0	0	1	+1.9	-1	-1.9	0	0			
May	74.9	+11.0	-.5	-5.5	.866	+9.5	-.5	-5.5	-.866	+9.5			
June	79.6	+15.7	-.866	-13.6	.5	+7.9	.5	+7.9	-.866	-13.6			
July	83.4	+19.5	-1	-19.5	0	0	1	+19.5	0	0			
Aug	80.6	+16.7	-.866	-14.5	-.5	-8.4	.5	+8.4	.866	+14.5			
Sept	72.8	+8.9	-.5	-4.5	-.866	-7.7	-.5	-4.5	.866	+7.7			
Oct	64.2	+0.3	0	0	-1	-0.3	-1	-0.3	0	0			
Nov	53.9	-10.0	.5	-5.0	-.866	+8.7	-.5	+5.0	-.866	+8.7			
Dec	46.2	-17.7	.866	-15.3	-.5	+8.9	.5	-8.9	-.866	+17.7			
Ann.	63.9	(.1)		-117.0		+3.7		-3.5		+2.8			
1/6				-19.5		+0.6		-0.6		+0.5			

$p_1 = -19.5$ log $p_1 = 1.29003$ $p_2 = -0.6$ log $p_2 = \bar{1}.77815$

$q_1 = +0.6$ $q_1 = \bar{1}.77815$ $q_2 = +0.5$ log $q_2 = \bar{1}.69897$

$(A_1) = 88°14'$ log tan $A_1 = 1.51188$ $(A_2) = 50°11'$ log tan A_2 0.07918

$a_1 = 19.5$ log $p_1 = 1.29003$ $a_2 = 0.8$ log $p_2 = \bar{1}.77815$

$A_1 = 271°46'$ log sin $A_1 = \bar{1}.99979$ $A_2 = 309°49'$ log sin $A_2 = \bar{1}.88552$

1.29024 .781 $\bar{1}.89263$

$\bar{T} = 63.9 + 19.5(\sin x + 272°) + 0.8(\sin 2x + 310°)$

Check			sin			·19.5	·0.8		63.9	d
Jan	0	-88	.99939	-50	.76604	-19.5	+0.6	-18.9	45.0	+1.2
Feb	30	-58	.84805	+10	.17365	-16.5	-0.1	-16.6	47.3	-0.5
Mar	60	-28	.46947	+70	.93969	-9.1	-0.8	-9.9	54.0	+0.1
Apr	90	2	.03490	+50		+0.2	+0.6	+0.8	64.7	-1.1
May	120	32	.52992	-10		+10.3	-0.1	+10.2	74.1	-0.8
June	150	62	.88295	-70		+17.3	-0.8	+16.5	80.4	+0.8
July	180	88		-50		+19.5	-0.6	+18.9	82.8	-0.6
Aug	210	58		+10		+16.5	+0.1	+16.6	80.5	-0.1
Sept	240	28		+70		+9.1	+0.8	+9.9	73.8	+1.0
Oct	270	-2		+50		-0.2	-0.6	-0.8	63.1	-0.8
Nov	300	-32		-10		-10.3	+0.1	-10.2	53.7	0.2
Dec	330	-62		-70		-17.3	+0.8	-16.5	47.4	+1.2
										(.2)

WB Form 1078

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

DATA SHEET—DAILY VALUES

Station, Kandahar, Afghanistan.

Data, Daily temperatures based on harmonic analysis of mean monthly temperatures (British-Pakistan Consulate record) 1950-51.

19	January	February	March	April	May	June	July	August	September	October	November	December
1	44.0	45.3	50.9	60.3	69.9	77.7	82.1	82.3	77.4	68.8	58.1	48.9
2	43.9	45.4	51.1	60.6	70.1	77.9	82.2	82.3	77.3	68.8	57.7	48.6
3	43.9	45.5	51.4	61.0	70.5	78.0	82.3	82.1	77.0	68.4	57.4	48.4
4	43.8	45.7	51.7	61.3	70.8	78.2	82.3	82.0	76.8	68.1	57.1	48.1
5	43.8	45.9	52.0	61.7	71.1	78.5	82.4	81.9	76.5	67.7	56.7	47.9
6	43.8	46.0	52.2	62.0	71.3	78.7	82.4	81.9	76.2	67.4	56.4	47.7
7	43.8	46.1	52.5	62.2	71.3	78.9	82.6	81.7	76.0	67.0	56.1	47.5
8	43.8	46.4	52.8	62.6	71.6	79.1	82.6	81.6	75.8	66.6	55.8	47.2
9	43.7	46.5	53.0	62.9	71.9	79.2	82.6	81.5	75.5	66.3	55.4	47.1
10	43.7	46.7	53.4	63.2	72.2	79.3	82.7	81.4	75.2	66.0	55.1	46.9
11	43.7	47.0	53.7	63.6	72.4	79.5	82.7	81.3	74.9	65.6	54.8	46.7
12	43.7	47.1	54.0	63.9	72.7	79.7	82.7	81.1	74.6	65.3	54.3	46.5
13	43.8	47.3	54.3	64.3	73.0	79.8	82.7	81.0	74.4	64.9	54.0	46.3
14	43.8	47.5	54.6	64.5	73.3	80.1	82.8	80.9	74.1	64.5	53.8	46.2
15	43.8	47.8	54.8	64.8	73.6	80.2	82.8	80.7	73.8	64.2	53.5	46.2
16	43.8	48.0	55.1	65.2	73.8	80.3	82.8	80.5	73.5	63.8	53.1	45.9
17	43.8	48.1	55.6	65.5	74.1	80.5	82.8	80.4	73.2	63.5	52.8	45.7
18	43.9	48.3	55.9	65.9	74.3	80.6	82.8	80.2	72.9	63.1	52.5	45.6
19	44.0	48.6	56.2	66.2	74.6	80.8	82.7	80.1	72.6	62.8	52.2	45.4
20	44.0	48.8	56.5	66.4	74.9	80.9	82.7	79.9	72.3	62.4	51.9	45.3
21	44.1	49.0	56.8	66.8	75.2	81.0	82.8	79.8	72.0	62.0	51.6	45.2
22	44.1	49.0	57.1	67.1	75.3	81.2	82.8	79.6	71.7	61.7	51.3	45.0
23	44.3	49.4	57.4	67.4	75.6	81.3	82.7	79.4	71.4	61.4	51.0	44.9
24	44.3	49.6	57.7	67.7	75.9	81.4	82.7	79.2	71.0	60.9	50.7	44.8
25	44.4	49.8	58.0	68.0	76.0	81.5	82.7	79.0	70.7	60.6	50.5	44.7
26	44.5	50.0	58.3	68.4	76.3	81.7	82.7	78.8	70.4	60.2	50.2	44.5
27	44.6	50.3	58.7	68.7	76.5	81.8	82.6	78.6	70.1	59.9	50.0	44.4
28	44.7	50.6	59.0	69.0	76.8	81.9	82.5	78.3	69.8	59.6	49.6	44.3
29	44.8	(50.9)	59.3	69.3	77.0	82.0	82.4	78.2	69.4	59.1	49.4	44.2
30	45.0		59.6	69.6	77.2	82.0	82.5	77.9	69.1	58.8	49.1	44.2
31	45.1		60.0		77.4		82.4	77.7		58.5		44.1
Means												

(WB—10-11-41—400M) 284

9 april 1954 hcB.

WB Form 1078

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

DATA SHEET—DAILY VALUES

Station, Kandahar Afghanistan

June - July

Data, Daily temperature (work sheet) 1

19	x_1 January	x_2 February	19.5 March	0.8 April	d May	63.9 June	x_1 July	x_2 August	19.5 September	0.8 October	d November	63.9 December
1	-78	-78	-19.1	-0.8	-19.9	44.0	+77	-80	+19.0	-0.8	+18.2	82.1
2	-79	-76	-19.2	-0.8	-20.0	43.9	+78	-78	+19.1	-0.8	+18.3	82.2
3	-80	-74	-19.2	-0.8	-20.0	43.9	+79	-76	+19.2	-0.8	+18.4	82.3
4	-81	-72	-19.3	-0.8	-20.1	43.8	+80	-74	+19.2	-0.8	+18.4	82.3
5	-82	-70	-19.3	-0.8	-20.1	43.8	+81	-72	+19.3	-0.8	+18.5	82.4
6	-83	-68	-19.4	-0.7	-20.1	43.8	+82	-70	+19.3	-0.8	+18.5	82.4
7	-84	-66	-19.4	-0.7	-20.1	43.8	+83	-68	+19.4	-0.7	+18.7	82.6
8	-85	-64	-19.4	-0.7	-20.1	43.8	+84	-66	+19.4	-0.7	+18.7	82.6
9	-86	-62	-19.5	-0.7	-20.2	43.7	+85	-64	+19.4	-0.7	+18.7	82.6
10	-87	-60	-19.5	-0.7	-20.2	43.7	+86	-62	+19.5	-0.7	+18.8	82.7
11	-88	-58	-19.5	-0.7	-20.2	43.7	+87	-60	+19.5	-0.7	+18.8	82.7
12	-89	-56	-19.5	-0.7	-20.2	43.7	+88	-58	+19.5	-0.7	+18.8	82.7
13	-90	-54	-19.5	-0.6	-20.1	43.8	+89	-56	+19.5	-0.7	+18.8	82.7
14	-89	-52	-19.5	-0.6	-20.1	43.8	+90	-54	+19.5	-0.6	+18.9	82.8
15	-88	-50	-19.5	-0.6	-20.1	43.8	+89	-52	+19.5	-0.6	+18.9	82.8
16	-87	-48	-19.5	-0.6	-20.1	43.8	+88	-50	+19.5	-0.6	+18.9	82.8
17	-86	-46	-19.5	-0.6	-20.1	43.8	+87	-48	+19.5	-0.6	+18.9	82.8
18	-85	-44	-19.4	-0.6	-20.0	43.9	+86	-46	+19.5	-0.6	+18.9	82.8
19	-84	-42	-19.4	-0.5	-19.9	44.0	+85	-44	+19.4	-0.6	+18.8	82.7
20	-83	-40	-19.4	-0.5	-19.9	44.0	+85	-44	+19.4	-0.6	+18.8	82.7
21	-82	-38	-19.3	-0.5	-19.8	44.1	+84	-42	+19.4	-0.5	+18.9	82.8
22	-81	-36	-19.3	-0.5	-19.8	44.1	+83	-40	+19.4	-0.5	+18.9	82.8
23	-80	-34	-19.2	-0.4	-19.6	44.3	+82	-38	+19.3	-0.5	+18.8	82.7
24	-79	-32	-19.2	-0.4	-19.6	44.3	+81	-36	+19.3	-0.5	+18.8	82.7
25	-78	-30	-19.1	-0.4	-19.5	44.4	+80	-34	+19.2	-0.4	+18.8	82.7
26	-77	-28	-19.0	-0.4	-19.4	44.5	+79	-32	+19.2	-0.4	+18.8	82.7
27	-76	-26	-18.9	-0.4	-19.3	44.6	+78	-30	+19.1	-0.4	+18.7	82.6
28	-75	-24	-18.9	-0.3	-19.2	44.7	+77	-28	+19.0	-0.4	+18.6	82.5
29	-74	-22	-18.8	-0.3	-19.1	44.8	+76	-26	+18.9	-0.4	+18.5	82.4
30	-73	-20	-18.7	-0.3	-18.9	45.0	+75	-24	+18.9	-0.3	+18.6	82.5
31	-72	-18	-18.6	-0.2	-18.8	45.1	+74	-22	+18.8	-0.3	+18.5	82.4
Sums												
Means												

(WB—10-11-41—40M) 264

WB Form 1078

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

DATA SHEET—DAILY VALUES

Station, Kandahar, Afghanistan

Data, Daily temperature (work sheet) 2

19	Feb January X1	February X2	19.5 March	0.8 April	d May	63.7 June	July X1	August X2	14.6 September	0.8 October	d November	63.9 December
1	-71	-16	-18.4	-0.2	-18.6	45.3	+73	-20	+18.7	-0.3	+18.4	82.3
2	-70	-14	-18.3	-0.2	-18.5	45.4	+72	-18	+18.6	-0.2	+18.4	82.3
3	-69	-12	-18.2	-0.2	-18.4	45.5	+71	-16	+18.4	-.2	+18.2	82.1
4	-68	-10	-18.1	-0.1	-18.2	45.7	70	-14	+18.3	-.2	+18.1	82.0
5	-67	-8	-17.9	-0.1	-18.0	45.9	69	-12	+18.2	-.2	+18.0	81.9
6	-66	-6	-17.8	-0.1	-17.9	46.0	68	-10	+18.1	-.1	+18.0	81.9
7	-65	-4	-17.7	-0.1	-17.8	46.1	67	-8	+17.9	-.1	+17.8	81.7
8	-64	-2	-17.5	0	-17.5	46.4	66	-6	+17.8	-.1	+17.7	81.6
9	-63	0	-17.4	0	-17.4	46.5	65	-4	+17.7	-.1	+17.6	81.5
10	-62	+2	-17.2	0	-17.2	46.7	64	-2	+17.5	0	+17.5	81.4
11	-61	4	-17.0	+0.1	-16.9	47.0	63	0	+17.4	0	+17.4	81.3
12	-60	6	-16.9	+.1	-16.8	47.1	62	+2	+17.2	0	17.2	81.1
13	-59	8	-16.7	+.1	-16.6	47.3	61	+4	+17.0	+0.1	17.1	81.0
14	-58	10	-16.5	+.1	-16.4	47.5	60	+6	+16.9	+.1	17.0	80.9
15	-57	12	-16.3	+.2	-16.1	47.8	59	+8	+16.7	+.1	16.8	80.7
16	-56	14	-16.1	+.2	-15.9	48.0	58	+10	+16.5	+.1	16.6	80.5
17	-55	16	-16.0	+.2	-15.8	48.1	57	+12	+16.3	+.2	16.5	80.4
18	-54	18	-15.8	+.2	-15.6	48.3	56	+14	+16.1	+.2	16.3	80.2
19	-53	20	-15.6	+0.3	-15.3	48.6	55	+16	+16.0	+.2	16.2	80.1
20	-52	22	-15.4	+.3	-15.1	48.8	54	+18	+15.8	+.2	16.0	79.9
21	-51	24	-15.2	+.3	-14.9	49.0	53	+20	+15.6	+.3	15.9	79.8
22	-51	24	-15.2	+.3	-14.9	49.0	52	+22	+15.4	+.3	15.7	79.6
23	-50	26	-14.9	+.4	-14.5	49.4	51	+24	+15.2	+.3	15.5	79.4
24	-49	28	-14.7	+.4	-14.3	49.6	50	+26	+14.9	+.4	15.3	79.2
25	-48	30	-14.5	+.4	-14.1	49.8	49	+28	+14.7	+.4	15.1	79.0
26	-47	32	-14.3	+.4	-13.9	50.0	48	+30	+14.5	+.4	14.9	78.8
27	-46	34	-14.0	+.4	-13.6	50.3	47	+32	+14.3	+.4	14.7	78.6
28	-45	36	-13.8	+.5	-13.3	50.6	46	+34	+14.0	+.4	14.4	78.3
29	-(45)	(36)	-13.8	+.5	-13.3	50.6	45	+36	+13.8	+.5	14.3	78.2
30							44	+38	+13.5	+.5	14.0	77.9
31							43	+40	+13.3	+.5	13.8	77.7
Sums												
Means												

(WB—10-11-41—400M) 264

WB Form 1078

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

DATA SHEET--DAILY VALUES

Station, Kandahar, Afghanistan

Data, Daily Temperatures (work sheet) 3

19	Mar January	February	19.5 March	April	May	63.9 June	Sept July	August	September	October	November	63.9 December
1	-44	+38	-13.5	+0.5	-13.0	50.9	+42	+40	+13.0	+.5	+13.5	77.4
2	-43	+40	-13.3	+.5	-12.8	51.1	+44	+44	12.8	.6	13.4	77.3
3	-42	+42	-13.0	+0.5	-12.5	51.4	+40	+40	12.5	.6	13.1	77.0
4	-41	+44	-12.8	+.6	-12.2	51.7	+39	+44	12.3	.6	12.9	76.8
5	-40	+46	-12.5	+.6	-11.9	52.0	+38	+50	12.0	.6	12.6	76.5
6	-39	+46	-12.3	+.6	-11.7	52.2	+37	+52	11.7	.6	12.3	76.2
7	-38	+50	-12.0	.6	-11.4	52.5	+36	+54	11.5	.6	12.1	76.0
8	-37	+52	-11.7	.6	-11.1	52.8	+35	+56	11.2	.7	11.9	75.8
9	-36	+54	-11.5	.6	-10.9	53.0	+34	+58	10.9	.7	11.6	75.5
10	-35	+56	-11.2	.7	-10.5	53.4	+33	+60	10.6	.7	11.3	75.2
11	-34	+58	-10.9	.7	-10.2	53.7	+32	+62	10.3	.7	11.0	74.9
12	-33	+60	-10.6	.7	-9.9	54.0	+31	+64	10.0	.7	10.7	74.6
13	-32	+62	-10.3	.7	-9.6	54.3	+30	+66	9.8	.7	10.5	74.4
14	-31	+64	-10.0	.7	-9.3	54.6	+29	+68	9.5	.7	10.2	74.1
15	-30	+66	-9.8	.7	-9.1	54.8	+28	+70	9.1	.8	9.9	73.8
16	-29	+68	-9.5	.7	-8.8	55.1	+27	+72	8.8	.8	9.6	73.5
17	-28	+70	-9.1	.8	-8.3	55.6	+26	+74	8.5	.8	9.3	73.2
18	-27	+72	-8.8	.8	-8.0	55.9	+25	+76	8.2	.8	9.0	72.9
19	-26	+74	-8.5	.8	-7.7	56.2	+24	+78	7.9	.8	8.7	72.6
20	-25	+76	-8.2	.8	-7.4	56.5	+23	+80	7.6	0.8	8.4	72.3
21	-24	+78	-7.9	.8	-7.1	56.8	+22	+82	7.3	0.8	8.1	72.0
22	-23	+80	-7.6	0.8	-6.8	57.1	+21	+84	7.0	0.8	7.8	71.7
23	-22	+82	-7.3	0.8	-6.5	57.4	+20	+86	6.7	0.8	7.5	71.4
24	-21	+84	-7.0	0.8	-6.2	57.7	+19	+88	6.4	0.8	7.2	71.0
25	-20	+86	-6.7	0.8	-5.9	58.0	+18	+90	6.0	0.8	6.8	70.7
26	-19	+88	-6.4	0.8	-5.6	58.3	+17	+88	5.7	0.8	6.5	70.4
27	-18	+90	-6.0	+0.8	-5.2	58.7	+16	+86	5.4	0.8	6.2	70.1
28	-17	+88	-5.7	0.8	-4.9	59.0	+15	+84	5.1	0.8	5.9	69.8
29	-16	+86	-5.4	0.8	-4.6	59.3	+14	+82	4.7	0.8	5.5	69.4
30	-15	+84	-5.1	0.8	-4.3	59.6	+13	+80	4.4	0.8	5.2	69.1
31	-14	+82	-4.7	0.8	-3.9	60.0						
Sums												
Means												

(WB—10-11-41—8024) 284

WB Form 1078

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

DATA SHEET—DAILY VALUES

Station, Kandahar Afghanistan

Data, Daily temperature (work sheet) 4

19	April January	February	March	April	May	63.9 June	Oct July	August	September	October	November	63.9 December
1	-13	+80	-4.4	+0.8	-3.6	60.3	+12	+78	+4.4	+0.8	+4.9	68.8
2	-12	+78	-4.1	.8	-3.3	60.6	+12	+78	+4.1	.8	+4.9	68.8
3	-11	+76	-3.7	.8	-2.9	61.0	+11	+76	+3.7	.8	+4.5	68.4
4	-10	+74	-3.4	.8	-2.6	61.3	+10	+74	+3.4	.8	+4.2	68.1
5	-9	+72	-3.0	.8	-2.2	61.7	+9	+72	+3.0	.8	+3.8	67.7
6	-8	+70	-2.7	.8	-1.9	62.0	+8	+70	+2.7	0.8	+3.5	67.4
7	-7	+68	-2.4	.7	-1.7	62.2	+7	+68	+2.4	.7	+3.1	67.0
8	-6	+66	-2.0	.7	-1.3	62.6	+6	+66	+2.0	.7	+2.7	66.6
9	-5	+64	-1.7	.7	-1.0	62.9	+5	+64	+1.7	.7	+2.4	66.3
10	-4	+62	-1.4	.7	-0.7	63.2	+4	+62	+1.4	.7	+2.1	66.0
11	-3	+60	-1.0	.7	-0.3	63.6	+3	+60	+1.0	.7	+1.7	65.6
12	-2	+58	-0.7	.7	0	63.9	+2	+58	+.7	.7	+1.4	65.3
13	-1	+56	-0.3	.7	+0.4	64.3	+1	+56	+.3	+.7	+1.0	64.9
14	0	+54	0	.6	+0.6	64.5	0	+54	0	+.6	+0.6	64.5
15	+1	+52	+.3	+.6	+0.9	64.8	-1	+52	-.3	+.6	+0.3	64.2
16	+2	+50	+.7	.6	+1.3	65.2	-2	+50	-.7	+.6	-0.1	63.8
17	+3	+48	+1.0	.6	+1.6	65.5	-3	+48	-1.0	.6	-0.4	63.5
18	+4	+46	+1.4	.6	+2.0	65.9	-4	+46	-1.4	.6	-0.8	63.1
19	+5	+44	1.7	.6	+2.3	66.2	-5	+44	-1.7	.6	-1.1	62.8
20	+6	+42	2.0	.5	+2.5	66.4	-6	+42	-2.0	.5	-1.5	62.4
21	+7	+40	2.4	.5	+2.9	66.8	-7	+40	-2.4	.5	-1.9	62.0
22	+8	+38	2.7	.5	+3.2	67.1	-8	+38	-2.7	.5	-2.2	61.7
23	+9	+36	3.0	.5	+3.5	67.4	-9	+36	-3.0	.5	-2.5	61.4
24	+10	+34	3.4	.4	+3.8	67.7	-10	+34	-3.4	.4	-3.0	60.9
25	+11	+32	3.7	.4	+4.1	68.0	-11	+32	-3.7	.4	-3.3	60.6
26	+12	+30	4.1	.4	+4.5	68.4	-12	+30	-4.1	.4	-3.7	60.2
27	+13	+28	4.4	.4	+4.8	68.7	-13	+28	-4.4	.4	-4.0	59.9
28	+14	+26	4.7	.4	+5.1	69.0	-14	+26	-4.7	.4	-4.3	59.6
29	+15	+24	5.1	.3	+5.4	69.3	-15	+24	-5.1	.3	-4.8	59.1
30	+16	+22	5.4	.3	+5.7	69.6	-16	+22	-5.4	.3	-5.1	58.8
31							-17	+20	-5.7	+.3	-5.4	58.5
Sums												
Means												

(WB—10-11-42—[illegible]) 394

WB Form 1078

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

DATA SHEET—DAILY VALUES

Station, Kandahar, Afghanistan

Data, Daily temperature (Worksheet) 15

19	May ~~January~~	February	March	April	May	63.9 ~~June~~	Nov ~~July~~	August	September	October	November	63.9 ~~December~~
1	+17	+20	+5.7	+0.3	6.0	69.9	-18	+18	-6.0	+.2	-5.8	58.1
2	+18	+18	6.0	+.2	6.2	70.1	-19	+16	-6.4	.2	-6.2	57.7
3	+19	+16	6.4	+.2	6.6	70.5	-20	+14	-6.7	.2	-6.5	57.4
4	+20	+14	6.7	+.2	6.9	70.8	-21	+12	-7.0	.2	-6.8	57.1
5	+21	+12	7.0	+.2	7.2	71.1	-22	+10	-7.3	.1	-7.2	56.9
6	+22	+10	7.3	+.1	7.4	71.3	-23	+8	-7.6	.1	-7.5	56.4
7	+22	+10	7.3	+.1	7.4	71.3	-24	+6	-7.9	.1	-7.8	56.1
8	+23	+8	7.6	+.1	7.7	71.6	-25	+4	-8.2	.1	-8.1	55.8
9	+24	+6	7.9	+.1	8.0	71.9	-26	+2	-8.5	0	-8.5	55.4
10	+25	+4	8.2	+.1	8.3	72.2	-27	0	-8.8	0	-8.8	55.1
11	+26	+2	8.5	0	8.5	72.4	-28	-2	-9.1	0	-9.1	54.8
12	+27	0	8.8	0	8.8	72.7	-29	-4	-9.5	-.1	-9.6	54.3
13	+28	-2	9.1	0	9.1	73.0	-30	-6	-9.8	-.1	-9.9	54.0
14	+29	-4	+9.5	-.1	9.4	73.3	-31	-8	-10.0	-.1	-10.1	53.8
15	+30	-6	+9.8	-.1	9.7	73.6	-32	-10	-10.3	-.1	-10.4	53.5
16	+31	-8	+10.0	-.1	9.9	73.8	-33	-12	-10.6	-.2	-10.8	53.1
17	+32	-10	+10.3	-.1	10.2	74.1	-34	-14	-10.9	-.2	-11.1	52.8
18	+33	-12	+10.6	-.2	10.4	74.3	-35	-16	-11.2	-.2	-11.4	52.5
19	+34	-14	+10.9	-.2	10.7	74.6	-36	-18	-11.5	-.2	-11.7	52.2
20	+35	-16	+11.2	-.2	11.0	74.9	-37	-20	-11.7	-.3	-12.0	51.9
21	+36	-18	+11.5	-.2	11.3	75.2	-38	-22	-12.0	-.3	-12.3	51.6
22	+37	-20	+11.7	-.3	11.4	75.3	-39	-24	-12.3	-.3	-12.6	51.3
23	+38	-22	+12.0	-0.3	11.7	75.6	-40	-26	-12.5	-.4	-12.9	51.0
24	+39	-24	+12.3	-.3	12.0	75.9	-41	-28	-12.8	-.4	-13.2	50.7
25	+40	-26	+12.5	-.4	12.1	76.0	-42	-30	-13.0	-.4	-13.4	50.5
26	+41	-28	+12.8	-.4	12.4	76.3	-43	-32	-13.3	-.4	-13.7	50.2
27	+42	-30	+13.0	-.4	12.6	76.5	-44	-34	-13.5	-.4	-13.9	50.0
28	+43	-32	+13.3	-.4	12.9	76.8	-45	-36	-13.8	-.5	-14.3	49.6
29	+44	-34	+13.5	-.4	13.1	77.0	-46	-38	-14.0	-.5	-14.5	49.4
30	+45	-36	+13.8	-.5	13.3	77.2	-47	-40	-14.3	-.5	-14.8	49.1
31	+46	-38	+14.0	-.5	13.5	77.4						
Sums												
Means												

WB Form 1078

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

DATA SHEET—DAILY VALUES

Station, Kandahar Afghanistan

Data, Daily temperature (work sheet) 6

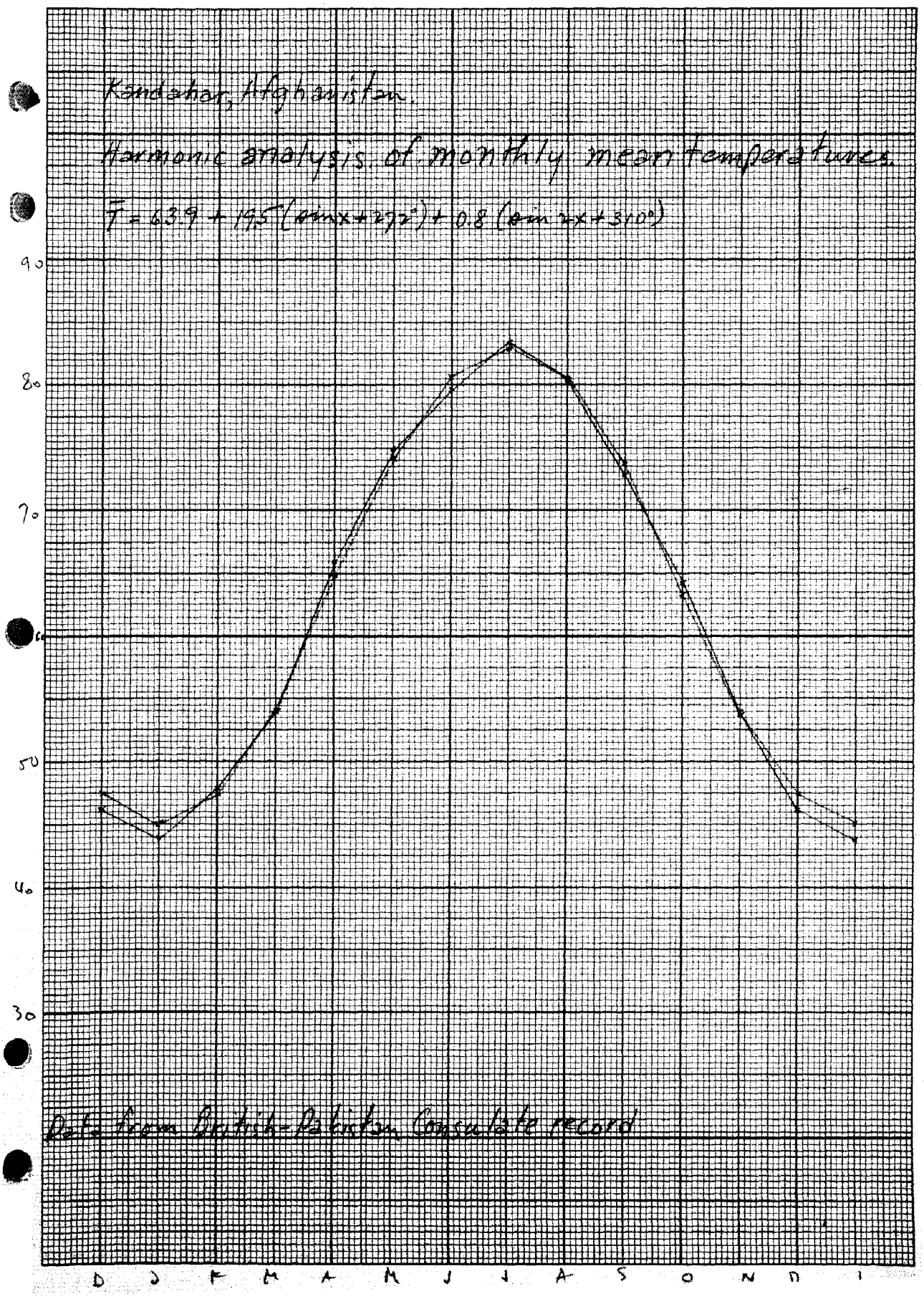
19	January	February	March	April	May	June	July	August	September	October	November	December
	June					63.9	Dec					63.9
1	+47	-40	+14.3	-0.5	+13.8	77.7	-48	-42	-14.5	-0.5	-15.0	48.9
2	+48	-42	14.5	-0.5	14.0	77.9	-49	-44	-14.7	-.6	-15.3	48.6
3	+49	-44	14.7	-.6	14.1	78.0	-50	-46	-14.9	-.6	-15.5	48.4
4	+50	-46	14.9	-.6	14.3	78.2	-51	-48	-15.2	-.6	-15.8	48.1
5	+51	-48	15.2	-.6	14.6	78.5	-52	-50	-15.4	-.6	-16.0	47.9
6	+52	-50	15.4	-.6	14.8	78.7	-53	-52	-15.6	-.6	-16.2	47.7
7	+53	-52	15.6	-.6	15.0	78.9	-54	-54	-15.8	-.6	-16.4	47.5
8	+54	-54	15.8	-.6	15.2	79.1	-55	-56	-16.0	-.7	-16.7	47.2
9	+55	-56	16.0	-.7	15.3	79.2	-56	-58	-16.1	-.7	-16.8	47.1
10	+56	-58	16.1	-.7	15.4	79.3	-57	-60	-16.3	-.7	-17.0	46.9
11	+57	-60	16.3	-.7	15.6	79.5	-58	-62	-16.5	-.7	-17.2	46.7
12	+58	-62	16.5	-.7	15.8	79.7	-59	-64	-16.7	-.7	-17.4	46.5
13	+59	-64	16.7	-.7	16.0	79.9	-60	-66	-16.9	-.7	-17.6	46.3
14	+60	-66	16.9	-.7	16.2	80.1	-61	-68	-17.0	-.7	-17.7	46.2
15	+61	-68	17.0	-.7	16.3	80.2	-61	-68	-17.0	-.7	-17.7	46.2
16	+62	-70	17.2	-.8	16.4	80.3	-62	-70	-17.2	-.8	-18.0	45.9
17	+63	-72	17.4	-.8	16.6	80.5	-63	-72	-17.4	-.8	-18.2	45.7
18	+64	-74	17.5	-.8	16.7	80.6	-64	-74	-17.5	-.8	-18.3	45.6
19	+65	-76	17.7	-.8	16.9	80.8	-65	-76	-17.7	-.8	-18.5	45.4
20	+66	-78	17.8	-.8	17.0	80.9	-66	-78	-17.8	-.8	-18.6	45.3
21	+67	-80	17.9	-.8	17.1	81.0	-67	-80	-17.9	-.8	-18.7	45.2
22	+68	-82	18.1	-.8	17.3	81.2	-68	-82	-18.1	-.8	-18.9	45.0
23	+69	-84	18.2	-.8	17.4	81.3	-69	-84	-18.2	-.8	-19.0	44.9
24	+70	-86	18.3	-.8	17.5	81.4	-70	-86	-18.3	-.8	-19.1	44.8
25	+71	-88	18.4	-.8	17.6	81.5	-71	-88	-18.4	-.8	-19.2	44.7
26	+72	-90	18.6	-.8	17.8	81.7	-72	-90	-18.6	-.8	-19.4	44.5
27	+73	-88	18.7	-.8	17.9	81.8	-73	-88	-18.7	-.8	-19.5	44.4
28	+74	-86	18.8	-.8	18.0	81.9	-74	-86	-18.8	-.8	-19.6	44.3
29	+75	-84	18.9	-.8	18.1	82.0	-75	-84	-18.9	-.8	-19.7	44.2
30	+76	-82	18.9	-.8	18.1	82.0	-76	-82	-18.9	-.8	-19.7	44.2
31							-77	-80	-19.0	-.8	-19.8	44.1
Sums												
Means												

(Rev. 10-11-61) 884

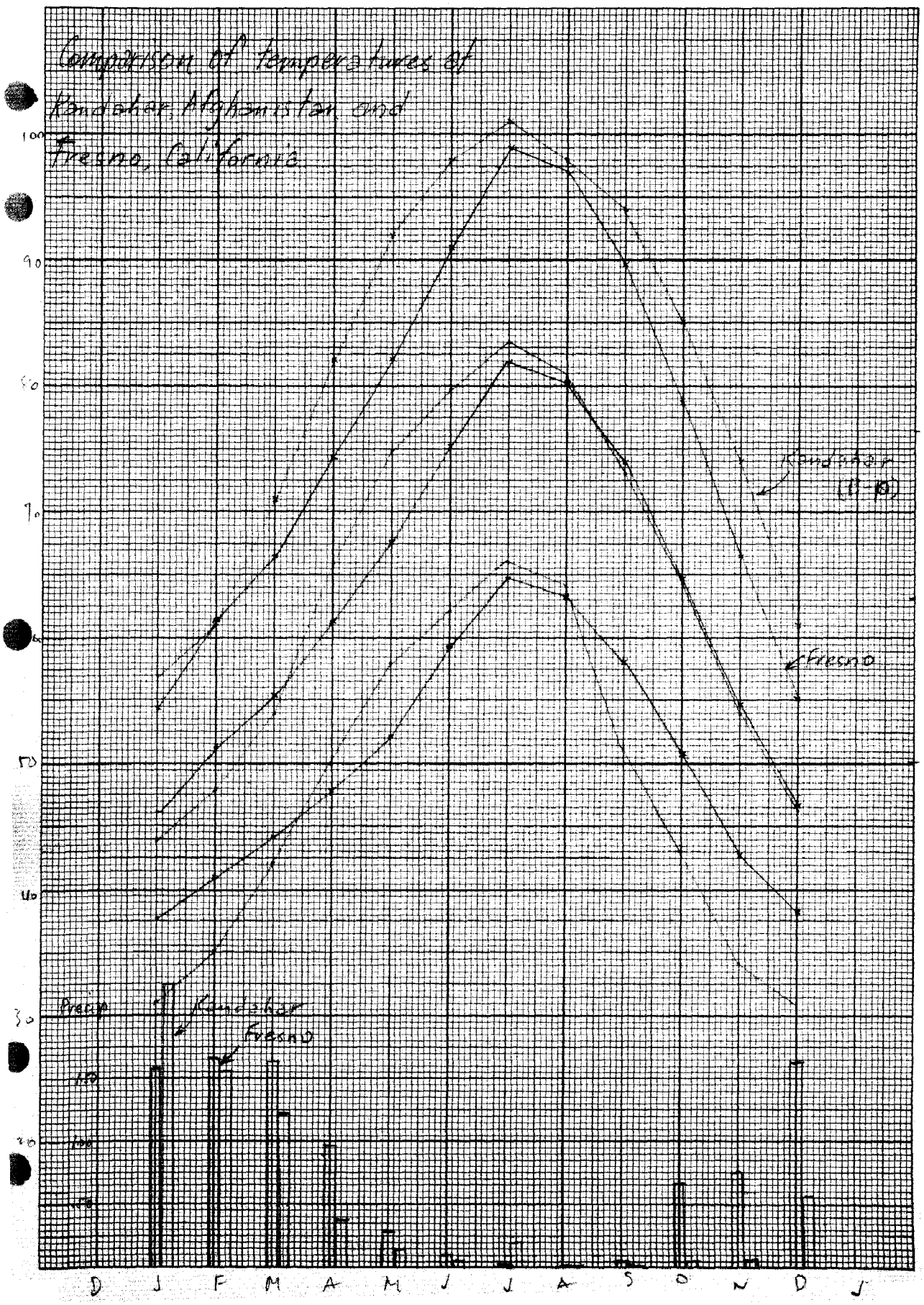
Kandahar, Afghanistan.

Harmonic analysis of monthly mean temperatures.

$T = 63.9 + 19.5^\circ(\sin x + 297^\circ) + 0.8(\sin 2x + 310^\circ)$



Data from British-Pakistan Consulate record


Comparison of temperatures at
Kandahar, Afghanistan and
Fresno, California
100
90
80
70
60
50
40
30
20
Kandahar
(B-P)
Fresno
Precip
Kandahar
Fresno
150
100
50
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WB Form 9302 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Chaman State Country India (Pakistan)

Latitude °, ', N. S. Longitude °, ', E. W. Elevation m. 4311 ft.

Data "Normal" Units (definition) Hour(s) of observation

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
$\bar{M}$ °F	52.4	57.3	66.5	78.6	90.4	98.8	101.1	98.3	90.8	79.8	67.6	57.0	78.2		
$\bar{m}$ °F	34.5	38.1	46.0	56.0	65.1	72.2	76.3	73.3	63.7	53.5	43.4	36.8	54.9		
VP mb	5.65	5.93	6.63	8.63	9.51	10.7	12.90	11.31	7.75	5.69	5.51 ~~4.71~~	5.55	7.92		
RH 09 hr	67	64	56	46	34	29.0	33	23	32	36	45	62	45		
Cloud 09	4.3	3.9	3.8	3.0	1.3	0.5	0.9	0.8	0.3	0.7	1.2	3.6	2.0		
Pft in.	1.64	1.72	1.49	0.77	0.13	.02	0.07	0.04	0.03	0.16	0.23	1.35	7.65		
Days 0.1	4.4	4.4	4.0	2.0	0.4	0	0.2	0.1	0.1	0.2	0.7	3.2	19.70		
Wind mph	4.3	5.1	5.8	5.7	5.7	5.8	5.7	5.2	4.8	4.6	4.0	4.0	5.1		
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

p.

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(WB-2-27-47-6M) 278

WB Form 9302 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Meshed State ' Country Iran

Latitude °, ', N. S. Longitude °, ', E. W. Elevation m. 3,104 ft.

Data "Normal" 1946 Units (definition) Hour(s) of observation

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
$\bar{M}$ °F	44.6	48.5	56.9	69.3	80.0	89.5	93.5	91.8	83.9	73.0	61.1	50.0	70.2		
$\bar{m}$ °F	22.6	27.4	34.7	44.9	54.4	58.8	61.7	57.6	50.0	41.4	33.1	27.6	42.9		
VP mb	4.44	5.5 4.71	6.4 6.37	9.9 7.96	12.1 9.77	12.9 8.38	13.7 13.68	12.2 12.22	9.48	7.48	5.86	5.11			
RH 04hr	86	81	77	65	64	49	43	46	49	58	73	84			
GMT Cloud 04	5.5	6.0	6.1	4.7	3.9	1.5	0.9	0.6	0.7	2.0	4.3	5.1			
Pft. in.	1.11	1.38	2.26	1.87	1.30	0.36	0.05	0.02	0.04	0.35	0.61	0.66			
Days 0.1	2.9	3.3	2.7	4.9	3.5	0.8	0.1	0	0.2	1.0	1.7	2.2			
Wind m/hr	1.1	1.6	1.9	1.9	1.4	1.6	1.6	1.3	1.1	1.1	1.0	0.9			
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

Indian Weather Review 1946

p.

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(WB-3-27-47-6M) 278

WB Form 9302

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Miranshah State N-W Frontier Province Country India (Pakistan)

Latitude ____°, ____', N. S. Longitude ____°, ____', E. W. Elevation ____m. 3026 ft.

Data "Normal" Units (definition) ____ Hour(s) of observation ____

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
$\bar{M}$ °F	56.7	61.1	67.3	78.3	92.9	98.9	96.6	93.5	91.7	83.6	73.4	64.0	79.8		
$\bar{m}$ °F	35.7	41.5	47.7	57.2	69.4	77.1	79.1	76.7	71.1	58.3	46.4	39.1	58.3		
VP mb	4.40	5.96	7.25	9.62	12.90	16.08	23.1	22.5	14.9	6.97	4.13	4.33	11.01		
RH %	59	73	61	52	41	47	59.0	62.0	54.0	46	42	56	54		
Cloud %	3.2	3.3	3.1	2.6	1.3	1.2	2.3	2.8	0.7	0.6	1.5	3.8	2.2		
Precip in	0.80	1.56	2.54	1.63	1.14	0.91	1.57	1.21	.73	0.03	0.02	0.70	12.84		
Days 0.01 in	1.9	4.1	5.4	3.9	2.4	1.6	3.3	2.6	1.7	0	0	1.8	~~28.2~~		
Wind mph	4.1	4.0	5.4	5.2	5.6	6.0	6.7	6.2	5.3	4.5	3.7	3.0	5.0		
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

India Weather review 1946

p. ____

c. ____

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(WB—9-27-47—6M) 278

WB Form 9302

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Peshawar State NW Frontier Provinces Country India (Pakistan)

Latitude 34 °, 01 ', N. Longitude 71 °, 35 ', E. Elevation _____ m. 1164 ft.

Data "Normal" Units (definition) _____ Hour(s) of observation _____

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
$\bar{t}$ °F	63.0	66.2	74.8	85.2	97.0	105.0	102.5	98.2	95.0	87.8	76.8	66.7	85.0		
$\bar{m}$ °F	40.4	44.0	52.4	60.5	70.4	77.2	80.2	78.9	71.8	60.5	48.9	40.9	60.5		
VP mb	6.00	8.13	10.67	13.58	14.08	16.79	25.43	26.78	28.01	11.54	6.81	6.13	13.85		
RH 09hr	72	79	72	59	39	39	60	70	64	57	58	67	61		
Cloud 09hr	5.7	6.4	5.3	4.6	3.1	2.1	3.5	4.0	1.9	1.3	2.7	5.0	3.8		
Ppt in	1.44	1.53	2.44	1.76	0.77	0.31	1.26	2.03	0.83	0.23	0.31	0.67	13.56		
in days of	2.9	3.3	4.6	3.8	2.0	0.9	2.0	2.5	1.5	0.6	0.6	1.6	26.3		
Wind m/s	1.4	1.8	2.1	2.2	2.6	2.5	2.3	2.0	1.5	1.2	1.0	1.2	1.8		
Daily mean	50.5	54.0	63.4	73.4	83.2	90.3	89.6	87.1	81.9	72.3	60.4	51.8	71.5	1	A28
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

1. India Weather Review, annual 1944 Part A
2. India Weather Review, Monthly 1944 [redacted]

p. _____
c. _____
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(WB—2-27-47—5M) 228

WB Form 9302 U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Seistan State _____ Country Iran

Latitude ____°, ____', N. S. Longitude ____°, ____', E. W. Elevation ____ m. ____ ft.

Data "Normals" Units (definition) °F Hour(s) of observation _____

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
$\bar{M}$ °F	56.7	64.4 ~~65.0~~	73.0	84.9	93.8	100.7	103.3	100.8	94.0	84.8	71.5	61.0	82.4		
$\bar{m}$ °F	33.6	38.8	46.7	58.1 ~~64.3~~	67.0	74.2	79.1	76.4	66.7	53.9	42.1	35.2	56.0		
Pft in.	0.54	0.44	0.55	0.13	0.03	0	0	0	0	0.04	0.04	0.39	2.16		
Days 0.1	1.7	1.5	1.8	0.6	0.2	0	0	0	0	0.2	0.2	0.9	7.1		
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

p. _____

c. _____

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(WB—2-27-47—5M) 378

584

WB Form 9302

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Termez State Country U.S.S.R.

Latitude 37 °, 14 ', N. Longitude 67 °, 17 ', E. Elevation m. 988 ft.

Data Units (definition) English Hour(s) of observation

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
Temp 1 pm	44.2	51.3	59.0	74.8	86.9	97.2	101.7	97.9	88.2	73.9	63.5	53.1	74.3	7 years	
Mean	37.4	42.3	50.9	64.6	77.0	86.4	89.6	86.0	74.8	61.2	52.7	42.1	63.8	19 years	
Highest	73	79	86	95	107	118	115	113	106	100	89	79	118	19 years	
Precip. in	0.69	0.60	1.14	0.73	0.46	0.01	0.01	0.00	T	0.19	0.33	0.57	4.73	1900-14 12 yrs	
days	7	5	6	5	4	0.4	0.1	0	1	1	4	3	36	1900-08	
Snow days	2	0.9	0.4	0	0	0	0	0	0	0	0.8	0.1	4	1900-08	
Rs days	0.4	0.1	0.9	2	5	2	0.4	0	0	0.4	0.2	0.1	12	1900-08	
≥ 34 mph days	2	2	3	1	2	1	0.8	1	1	0.9	0.9	1	17	1900-08	
Fog days	1	0.3	0.1	0.1	0	0.1	0	0.1	0.1	0.2	1	1	4	1900-08	
Days Clear	6	8	7	10	13	23	27	29	26	20	10	8	187	1899-1908	
P.C	17	13	17	15	15	7	4	2	4	9	14	16	133		
Cldy	8	7	7	5	3	0.1	0.4	0.1	0	2	6	7	45		
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

Data from Index of Climatic Data card # 2921

p.

c.

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(WB-2-27-47-4M) 278

WB Form 9302

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

C&HS

WORK SHEET FOR FOREIGN WEATHER STATISTICS

Station Zahidan State Country Iran

Latitude °, ', N. S. Longitude °, ', E. W. Elevation m. ft.

Data "Normals" Units (definition) Hour(s) of observation

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Ref.	Page
$\bar{M}$ °F	53.6	61.1	66.9	78.1	89.4	96.1	98.0	95.4	88.1	80.2	68.8	58.1	77.8		
$\bar{m}$ °F	29.0	35.0	39.6	50.1	58.8	65.4	67.9	63.0	54.3	45.8	36.5	31.0	48.0		
Ppt in.	0.76	0.58	0.32	0.21	0.09	0	0	0	0	0.07	0.19	0.33	2.55		
Days 0.1	2.4	2.0	1.4	1.1	0.4	0	0	0	0	0.1	0.3	1.2	8.9		
Years															
Sums															
Means ( )															
Means ( )															

REFERENCES AND REMARKS

p.

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(WB—2-27-47—5M) 276