ANNEXES

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Children in Zebak district, Badakshan, 1 September 2003

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ANNEXE I –
AFGHANISTAN LONG-TERM AVERAGE CLIMATIC DATA

Table 58

PRECIPITATION
Long Term Average Yearly Value in mm[1]

	STATION NAME	WMO CODE	LON	LAT	ELEV (mm)	Max.	Normal	Min.
1	**BAMIYAN**	40945	67.49	34.49	2550	382.4	138.6	57.7
2	**BUST**	40988	64.22	31.33	780	196.0	92.7	32.4
3	**CHAKHCHARAN**	40942	68.27	33.32	2183	246.5	187.8	137.5
4	**FAIZABAD**	40904	70.31	37.07	1200	791.0	501.3	300.1
5	**FARAH**	40974	62.11	32.22	700	193.0	90.1	38.0
6	**GARDEZ**	40970	69.14	33.37	2350	521.1	319.3	141.2
7	**GHAZNI**	40968	68.25	33.32	2183	551.2	284.8	90.2
8	**GHELMIN**	0	65.18	34.53	2070	363.1	219.9	125.6
9	**HERAT**	40938	62.13	34.13	964	411.9	222.5	112.5
10	**JABULSARAJ**	40932	69.15	35.08	1630	739.2	465.2	110.3
11	**JALALABAD**	40954	70.28	34.26	580	408.1	171.2	42.5
12	**KABUL-ARIPORT**	40948	69.13	34.33	1791	547.8	316.0	164.9
13	**KALAT**	0	66.54	32.07	1565	461.3	281.3	144.8
14	**KANDAHAR-AIRPORT**	40990	65.51	31.30	1010	311.4	161.4	57.3
15	**KHOST**	40971	69.57	33.21	1146	657.3	449.9	206.2
16	**KUNDUZ**	40913	68.55	36.40	433	560.8	336.0	193.0
17	**LAGHMAN**	40952	70.13	34.39	770	468.9	251.3	117.2
18	**LAL**	0	66.18	34.30	2800	429.3	227.4	168.0
19	**LOGAR**	40950	69.03	34.06	1935	372.2	222.0	101.4
20	**MAZAR-I-SHARIF**	40911	67.12	36.42	378	379.1	189.1	87.4
21	**MAIMANA**	40922	64.46	35.56	815	582.1	353.6	200.3
22	**MOQUR**	40980	67.47	32.50	2000	451.1	239.5	49.3
23	**NORTH-SALANG**	40930	69.01	35.19	3366	1450.6	1018.5	376.5
24	**PAGHMAN**	0	68.59	34.35	2114	620.7	419.6	223.7
25	**PANJAO**	0	67.02	34.23	2710	440.1	284.8	44.4
26	**QADIS**	0	63.25	34.48	1280	450.5	344.8	210.9
27	**SHAHRACK**	0	64.17	34.06	2325	417.0	276.1	60.3
28	**SHEBIRGHAN**	40908	65.43	36.40	360	434.6	231.0	116.5
29	**SOUTH-SALANG**	40931	69.04	35.18	3172	1354.0	1023.3	677.1

* With different length of series

[1] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist.

Graph 144
Long term Average Precipitation

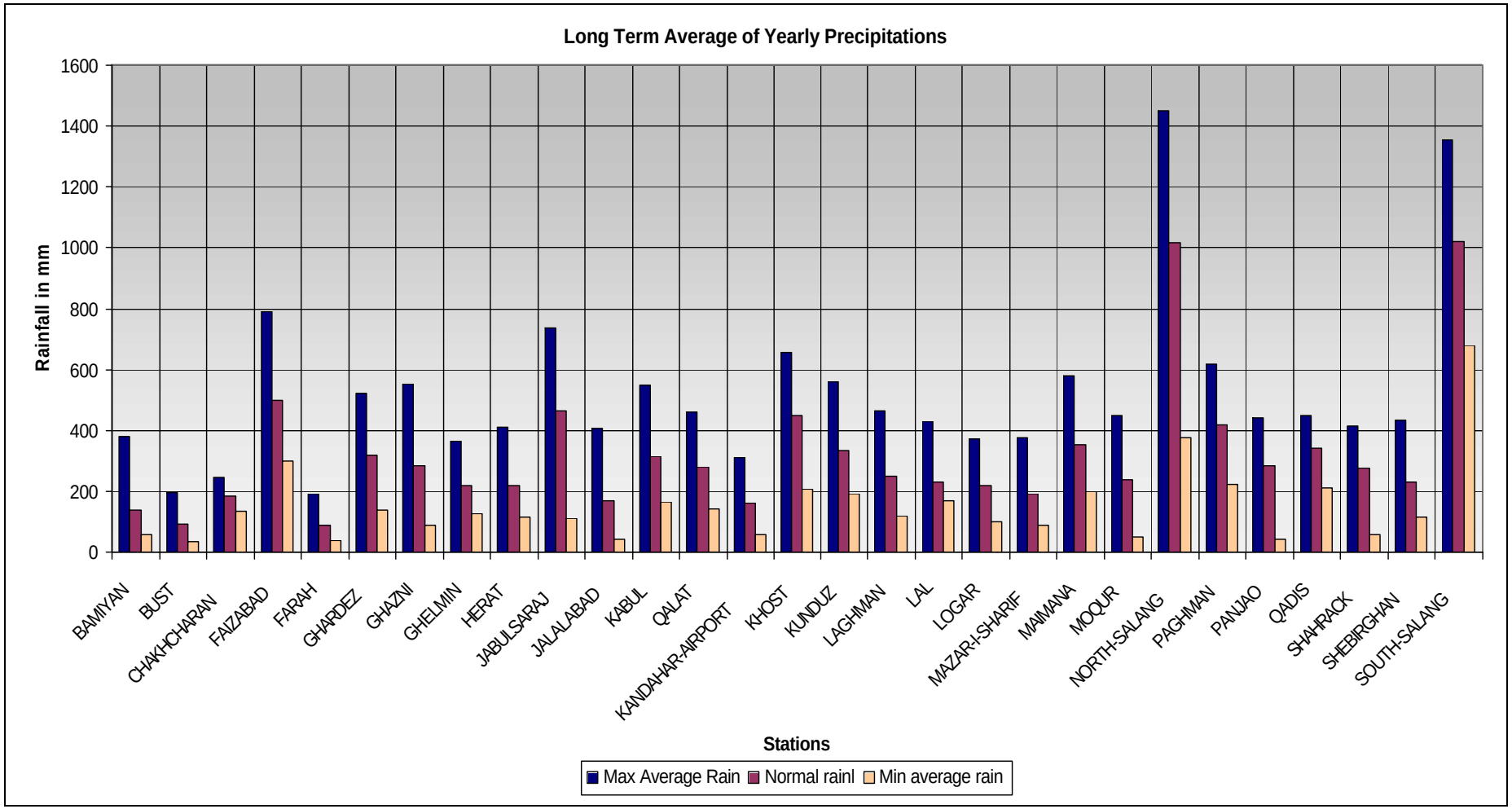

Table 59

PRECIPITATION
Long Term Average Mean Monthly Value in mm[2]

	STATION NAME	WMO CODE	LON	LAT	ELEV (m)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year
1	**BAMIYAN**	40945	67.49	34.49	2550	6.0	8.0	15.0	35.0	25.0	8.0	0.0	0.0	4.0	4.0	8.0	6.0	119.0
2	**BUST**	40988	64.22	31.33	780	22.0	20.0	21.0	9.0	2.0	0.0	0.0	0.0	0.0	0.0	4.0	14.0	92.0
3	**CHAKHCHARAN**	40942	68.27	33.32	2183	36.0	28.0	33.0	41.0	14.0	0.0	0.0	0.0	0.0	6.0	13.0	18.0	189.0
4	**FAIZABAD**	40904	70.31	37.07	1200	47.0	69.0	99.0	98.0	79.0	7.0	10.0	1.0	2.0	24.0	30.0	36.0	502.0
5	**FARAH**	40974	62.11	32.22	700	23.0	23.0	19.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0	4.0	11.0	90.0
6	**GARDEZ**	40970	69.14	33.37	2350	37.0	62.0	65.0	55.0	22.0	5.0	18.0	8.0	1.0	5.0	11.0	31.0	320.0
7	**GHAZNI**	40968	68.25	33.32	2183	41.0	48.0	63.0	53.0	20.0	2.0	16.0	2.0	1.0	1.0	12.0	41.0	300.0
8	**GHELMIN**	0	65.18	34.53	2070	37.0	35.0	43.0	45.0	20.0	0.0	1.0	0.0	0.0	5.0	11.0	23.0	220.0
9	**HERAT**	40938	62.13	34.13	964	49.0	40.0	52.0	30.0	6.0	0.0	0.0	0.0	0.0	1.0	10.0	34.0	222.0
10	**JABULSARAJ**	40932	69.15	35.08	1630	65.0	87.0	100.0	112.0	31.0	2.0	3.0	2.0	4.0	7.0	18.0	36.0	467.0
11	**JALALABAD**	40954	70.28	34.26	580	17.0	25.0	37.0	33.0	16.0	1.0	6.0	5.0	6.0	3.0	8.0	13.0	170.0
12	**KABUL-AIRPORT**	40948	69.13	34.33	1791	34.0	57.0	64.0	82.0	23.0	1.0	7.0	1.0	2.0	2.0	20.0	23.0	316.0
13	**KALAT**	0	66.54	32.07	1565	64.0	70.0	53.0	22.0	3.0	1.0	7.0	4.0	0.0	1.0	11.0	46.0	282.0
14	**KANDAHAR-AIRP**	40990	65.51	31.30	1010	49.0	35.0	29.0	17.0	4.0	0.0	2.0	0.0	0.0	1.0	6.0	38.0	181.0
15	**KHOST**	40971	69.57	33.21	1146	25.0	47.0	53.0	66.0	40.0	20.0	80.0	54.0	32.0	6.0	9.0	13.0	445.0
16	**KUNDUZ**	40913	68.55	36.40	433	46.0	56.0	77.0	57.0	32.0	0.0	1.0	0.0	0.0	8.0	25.0	33.0	335.0
17	**LAGHMAN**	40952	70.13	34.39	770	23.0	34.0	54.0	63.0	21.0	4.0	7.0	5.0	11.0	5.0	8.0	18.0	253.0
18	**LHAL**	0	66.18	34.30	2800	39.0	45.0	51.0	65.0	31.0	2.0	0.0	0.0	1.0	9.0	22.0	24.0	289.0
19	**LOGAR**	40950	69.03	34.06	1935	34.0	42.0	44.0	46.0	16.0	2.0	4.0	3.0	0.0	3.0	12.0	16.0	222.0
20	**MAZAR-I-SHARIF**	40911	67.12	36.42	378	28.0	34.0	43.0	31.0	12.0	0.0	0.0	0.0	0.0	5.0	14.0	23.0	190.0
21	**MAIMANA**	40922	64.46	35.56	815	50.0	56.0	85.0	61.0	28.0	2.0	1.0	0.0	0.0	9.0	24.0	38.0	354.0

[2] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

22	**MOQUR**	40980	67.47	32.50	2000	51.0	56.0	48.0	26.0	8.0	0.0	12.0	8.0	0.0	2.0	6.0	23.0	240.0
23	**NORTH-SALANANG**	40930	69.01	35.19	3366	109.0	147.0	185.0	213.0	128.0	10.0	6.0	7.0	9.0	29.0	70.0	107.0	1020.0
24	**PAGHMAN**	0	68.59	34.35	2114	62.0	67.0	92.0	80.0	26.0	13.0	14.0	5.0	6.0	5.0	27.0	35.0	432.0
25	**PANJAB**	0	67.02	34.23	2710	34.0	49.0	56.0	60.0	24.0	1.0	0.0	0.0	2.0	12.0	13.0	35.0	286.0
26	**QADIS**	0	63.25	34.48	1280	50.0	60.0	84.0	50.0	19.0	2.0	1.0	0.0	1.0	12.0	22.0	45.0	346.0
27	**SHAHRACK**	0	64.17	34.06	2325	58.0	48.0	53.0	38.0	17.0	2.0	0.0	0.0	0.0	6.0	19.0	35.0	276.0
28	**SHEBIRGHAN**	40908	65.43	36.40	360	43.0	42.0	55.0	28.0	11.0	0.0	0.0	0.0	0.0	8.0	13.0	31.0	231.0
29	**SOUTH-SALANG**	40931	69.04	35.18	3172	124.0	171.0	229.0	233.0	78.0	6.0	3.0	1.0	4.0	18.0	66.0	91.0	1024.0

* With different length of series

Table 60

POTENTIAL EVAPOTRANSPIRATION
Long Term Average Monthly Mean Total Value in mm[3]

	STATION NAME	WMO CODE	LON	LAT	ELEV (mm)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Year	Annual Daily Average
1	**BAGHLAN**	0	68.75	36.2	510	14	24	49	79	130	165	172	138	100	61	19	10	961	2.67
2	**BUST**	40988	64.37	31.55	780	38	51	111	147	203	223	237	215	172	109	43	36	1585	4.40
3	**FAIZABAD**	40904	70.52	37.12	1200	10	19	42	70	104	162	182	150	103	56	19	8	925	2.57
4	**FARAH**	40974	62.18	32.37	700	29	43	103	123	181	211	248	199	161	102	41	27	1468	4.08
5	**GHAZNI**	40968	68.42	33.53	2183	17	22	62	97	177	225	227	223	168	83	37	21	1359	3.78
6	**GHELMIN**	0	65.3	34.88	2070	11	19	40	68	107	161	180	153	83	51	21	11	905	2.51
7	**HERAT**	40938	62.22	34.22	964	29	42	80	120	196	263	331	309	188	113	40	26	1737	4.83
8	**JABULSARAJ**	40932	69.25	35.13	1630	20	32	78	101	170	224	252	222	152	89	47	22	1409	3.91
9	**JALALABAD**	40954	70.47	34.43	580	25	42	75	111	172	204	197	169	125	86	47	21	1274	3.54
10	**KABUL-AIRPORT**	40948	69.22	34.55	1791	14	24	53	83	152	207	227	184	126	64	26	13	1173	3.26
11	**KANDAHAR-AIRP**	40990	65.85	31.5	1010	47	56	116	153	224	228	248	208	158	116	51	39	1644	4.57
12	**KARIZIMIR**	40949	69.05	34.63	1905	15	23	47	73	123	153	173	145	105	58	26	14	955	2.65
13	**KHOST**	40971	69.95	33.35	1146	28	40	79	109	162	191	164	143	127	92	42	28	1205	3.35
14	**KUNDUZ**	40913	68.92	36.67	433	14	24	50	82	150	223	244	216	155	87	27	13	1285	3.57
15	**LAL**	0	66.3	34.5	2800	6	12	30	53	91	116	130	115	76	43	16	7	695	1.93
16	**MAZAR-I-SHARIF**	40911	67.2	36.7	378	20	32	66	101	181	228	254	213	139	94	31	17	1376	3.82
17	**MAIMANA**	40922	64.77	35.93	815	19	28	48	78	144	198	216	194	138	88	32	19	1202	3.34
18	**QADIS**	0	63.42	34.8	1280	36	31	58	75	113	165	183	167	123	67	33	39	1090	3.03
19	**SHEBIRGHAN**	40908	65.72	36.67	360	23	32	63	93	186	223	237	207	155	87	36	22	1364	3.79

* With different length of series

[3] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist.

Table 61

POTENTIAL EVAPOTRANSPIRATION
Long Term Average Daily Mean Value in mm[4]

	STATION NAME	WMO CODE	LON	LAT	ELEV (m)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year
1	**BAGHLAN**	0	68.75	36.2	510	0.47	0.80	1.63	2.63	4.33	5.50	5.73	4.60	3.33	2.03	0.63	0.33	2.67
2	**BUST**	40988	64.37	31.55	780	1.27	1.70	3.70	4.90	6.77	7.43	7.90	7.17	5.73	3.63	1.43	1.20	4.40
3	**FAIZABAD**	40904	70.52	37.12	1200	0.33	0.63	1.40	2.33	3.47	5.40	6.07	5.00	3.43	1.87	0.63	0.27	2.57
4	**FARAH**	40974	62.18	32.37	700	0.97	1.43	3.43	4.10	6.03	7.03	8.27	6.63	5.37	3.40	1.37	0.90	4.08
5	**GHAZNI**	40968	68.42	33.53	2183	0.57	0.73	2.07	3.23	5.90	7.50	7.57	7.43	5.60	2.77	1.23	0.70	3.78
6	**GHELMIN**	0	65.3	34.88	2070	0.37	0.63	1.33	2.27	3.57	5.37	6.00	5.10	2.77	1.70	0.70	0.37	2.51
7	**HERAT**	40938	62.22	34.22	964	0.97	1.40	2.67	4.00	6.53	8.77	11.03	10.30	6.27	3.77	1.33	0.87	4.83
8	**JABULSARAJ**	40932	69.25	35.13	1630	0.67	1.07	2.60	3.37	5.67	7.47	8.40	7.40	5.07	2.97	1.57	0.73	3.91
9	**JALALABAD**	40954	70.47	34.43	580	0.83	1.40	2.50	3.70	5.73	6.80	6.57	5.63	4.17	2.87	1.57	0.70	3.54
10	**KABUL-AIRPORT**	40948	69.22	34.55	1791	0.47	0.80	1.77	2.77	5.07	6.90	7.57	6.13	4.20	2.13	0.87	0.43	3.26
11	**KANDAHAR-AIRPORT**	40990	65.85	31.5	1010	1.57	1.87	3.87	5.10	7.47	7.60	8.27	6.93	5.27	3.87	1.70	1.30	4.57
12	**KARIZIMIR**	40949	69.05	34.63	1905	0.50	0.77	1.57	2.43	4.10	5.10	5.77	4.83	3.50	1.93	0.87	0.47	2.65
13	**KHOST**	40971	69.95	33.35	1146	0.93	1.33	2.63	3.63	5.40	6.37	5.47	4.77	4.23	3.07	1.40	0.93	3.35
14	**KUNDUZ**	40913	68.92	36.67	433	0.47	0.80	1.67	2.73	5.00	7.43	8.13	7.20	5.17	2.90	0.90	0.43	3.57
15	**LAL**	0	66.3	34.5	2800	0.20	0.40	1.00	1.77	3.03	3.87	4.33	3.83	2.53	1.43	0.53	0.23	1.93
16	**MAZAR-I-SHARIF**	40911	67.2	36.7	378	0.67	1.07	2.20	3.37	6.03	7.60	8.47	7.10	4.63	3.13	1.03	0.57	3.82
17	**MAIMANA**	40922	64.77	35.93	815	0.63	0.93	1.60	2.60	4.80	6.60	7.20	6.47	4.60	2.93	1.07	0.63	3.34
18	**QADIS**	0	63.42	34.8	1280	1.20	1.03	1.93	2.50	3.77	5.50	6.10	5.57	4.10	2.23	1.10	1.30	3.03
19	**SHEBIRGHAN**	40908	65.72	36.67	360	0.77	1.07	2.10	3.10	6.20	7.43	7.90	6.90	5.17	2.90	1.20	0.73	3.79

(-999): Not Available

* With different length of series

[4] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

Table 62

MEAN TEMPERATURE
Long Term Average Mean Monthly Value in Degree Celsius[5]

	STATION NAME	WMO CODE	LON	LAT	ELEV (m)	Begin. Year	Nbr. Years	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year
1	**BAGHLAN**	0	68.45	36.12	510	1958	12	2.3	5.3	9.6	15.7	21.2	25.8	28.0	25.1	20.1	14.5	7.0	3.2	14.8
2	**BAMIYAN**	40945	67.49	34.49	2550			-7.1	-6.0	0.1	6.9	11.2	15.4	17.8	16.7	12.9	7.1	1.4	-5.2	5.9
3	**BUST**	40988	64.22	31.33	780	1960	11	6.4	10.0	15.8	20.8	26.6	30.9	32.5	29.8	24.4	18.4	11.4	6.9	19.5
4	**CHAKHCHARAN**	40942	68.27	33.32	2183	1977	13	-8.2	-7.5	0.8	9.5	12.6	17.7	19.4	18.2	12.8	7.4	2.5	-2.5	6.9
5	**FAIZABAD**	40904	70.31	37.07	1200			0.3	2.7	7.9	12.9	15.8	23.9	26.5	25.5	20.0	13.6	7.6	2.0	13.2
6	**FARAH**	40974	62.11	32.22	700	1960	11	6.7	8.8	15.8	19.8	25.7	31.2	33.6	31.4	25.8	19.2	11.5	7.3	19.7
7	**GARDIZ**	40970	69.14	33.37	2350			-5.6	-3.6	3.6	9.5	14.7	19.7	22.4	22.1	16.9	9.6	4.0	-2.1	9.3
8	**GHAZNI**	40968	68.25	33.32	2183	1959	12	-6.1	-3.9	4.3	10.4	15.9	21.1	22.9	21.9	16.4	9.9	3.8	-2.3	9.5
9	**GHELMIN**	0	65.18	34.53	2070	1965	6	-6.9	-2.7	4.1	8.6	12.8	17.9	19.6	18.8	13.4	8.5	2.3	-2.6	7.8
10	**HERAT**	40938	62.13	34.13	964	1963	26	2.3	4.6	10.5	16.7	22.0	27.7	29.8	28.1	22.8	16.0	9.9	4.9	16.3
11	**JABUL-SARAJ**	40932	69.15	35.08	1630	1961	10	1.7	3.8	9.3	13.8	19.3	25.0	27.0	26.4	22.4	17.1	10.1	4.2	15.0
12	**JALALABAD**	40954	70.28	34.26	580	1959	12	8.4	11.0	16.7	21.9	27.6	32.6	32.9	32.1	28.2	22.6	15.2	9.3	21.5
13	**KABUL-AIRPORT**	40948	69.13	34.33	1791	1961	30	-1.9	-0.3	6.6	13.3	17.8	23.0	25.1	24.4	20.0	13.7	6.7	1.2	12.5
14	**KALAT**	0	66.54	32.07	1565			-3.3	1.1	8.4	14.1	18.2	25.0	27.4	25.3	19.9	14.0	8.6	2.2	13.4
15	**KANDAHAR-AIRP**	40990	65.51	31.30	1010	1963	26	5.6	7.8	14.1	20.6	25.9	30.4	32.1	29.8	24.2	18.3	11.7	7.7	19.0
16	**KARIZIMIR**	40949	69.03	34.38	1905	1958	13	-2.6	-0.5	5.5	10.6	15.4	20.1	22.5	21.6	17.4	11.4	4.5	-0.1	10.5
17	**KHOST**	40971	69.57	33.21	1146	1962	8	4.8	7.5	12.4	16.9	22.2	28.2	27.5	26.5	23.4	17.8	10.6	5.8	17.0
18	**KUNDUZ**	40913	68.55	36.40	433	1958	12	2.1	5.3	10.6	16.4	22.3	28.7	31.3	29.2	23.5	16.4	8.5	3.9	16.5
19	**LAGHMAN**	40952	70.13	34.39	770			7.2	9.6	13.7	17.7	23.6	30.7	31.2	29.5	25.9	19.7	13.3	7.4	19.1
20	**LAL**	0	66.18	34.30	2800	1965	6	-13.6	-9.6	-2.6	3.9	8.5	13.6	15.8	15.2	9.7	4.3	-2.0	-8.0	2.9
21	**LOGAR**	40950	69.03	34.06	1935			-8.7	1.5	4.4	12.0	14.8	22.5	25.0	24.1	18.7	11.0	5.0	-2.3	10.7

[5] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

22	**MAZAR-I-SHARIF**	40911	67.12	36.42	378	1964	27	3.4	4.9	10.6	18.1	25.0	31.1	33.4	31.2	25.4	17.4	10.4	5.6	18.0
23	**MAIMANA**	40922	64.46	35.56	815	1959	11	3.3	5.5	8.5	14.2	19.6	24.5	26.7	24.8	19.8	13.8	7.9	4.4	14.4
24	**MOQUR**	40980	67.47	32.50	2000			-8.3	-4.1	4.4	10.0	15.5	22.1	24.8	23.3	20.0	12.0	4.7	-1.7	10.2
25	**NORTH-SALANG**	40930	69.01	35.19	3366			-9.9	-8.9	-5.3	-1.2	1.9	6.7	9.2	8.2	4.4	0.1	-4.7	-8.1	-0.6
26	**PAGHMAN**	0	68.59	34.35	2114			-5.3	-5.3	4.9	10.7	12.2	19.5	21.0	20.2	17.4	10.1	4.8	-1.6	9.1
27	**PANJAO**	0	67.02	34.23	2710			-14.8	-11.2	-3.9	3.5	9.3	16.6	17.4	16.6	11.7	4.3	-2.0	-9.6	3.2
28	**QADIS**	0	63.25	34.48	1280	1966	5	1.2	2.3	8.0	12.1	16.0	20.5	22.6	21.4	16.7	11.7	7.2	5.3	12.1
29	**SHAHRACK**	0	64.17	34.06	2325			-13.5	-9.4	-1.8	6.4	10.6	15.0	17.3	15.7	10.9	5.9	-1.6	-9.1	3.9
30	**SHEBIRGHAN**	40908	65.43	36.40	360	1963	8	2.3	5.2	10.5	15.9	22.2	28.2	30.1	27.9	23.6	15.9	9.9	4.9	16.4
31	**SOUTH-SALANG**	40931	69.04	35.18	3172			-7.5	-6.6	-3.0	1.3	4.4	10.1	12.3	11.8	8.6	3.9	-1.8	-6.1	2.3

* With different length of series

Table 63

SEASONAL MEAN TEMPERATURE
Long Term Average Seasonal Mean Value in Degree Celsius[6]

	STATION NAME	WMO CODE	LON	LAT	ELEV	SPRING	SUMMER	AUTUMN	WINTER	Avg. Year
1	**BUST**	40988	64.22	31.33	780	21	31	18	8	19.50
2	**BAGHLAN**	0	68.45	36.12	510	16	26	14	4	15.00
3	**BAMIYAN**	40945	67.49	34.49	2550	6	17	7	-6	6.17
4	**CHAKHCHARAN**	40942	68.27	33.32	2183	8	18	8	-6	7.33
5	**FAIZABAD**	40904	70.31	37.07	1200	12	25	14	2	13.17
6	**FARAH**	40974	62.11	32.22	700	20	32	19	8	19.67
7	**GARDEZ**	40970	69.14	33.37	2350	9	21	10	-4	9.17
8	**GHAZNI**	40968	68.25	33.32	2183	10	22	10	-4	9.67
9	**GHELMIN**	0	65.18	34.53	2070	9	19	8	-4	8.17
10	**HERAT**	40938	62.13	34.13	964	16	29	16	4	16.17
11	**JABULSARAJ**	40932	69.15	35.08	1630	14	26	17	3	15.17
12	**JALALABAD**	40954	70.28	34.26	580	22	33	22	10	21.83
13	**KABUL-AIRPORT**	40948	69.13	34.33	1791	13	24	13	0	12.67
14	**KALAT**	0	66.54	32.07	1565	14	26	14	0	13.67
15	**KANDAHAR-AIRP.**	40990	65.51	31.30	1010	20	31	18	7	19.00
16	**KARIZIMIR**	40949	69.03	34.38	1905	11	21	11	-1	10.67
17	**KHOST**	40971	69.57	33.21	1146	17	27	17	6	16.83
18	**KUNDUZ**	40913	68.55	36.40	433	16	30	16	4	16.33
19	**LAGHMAN**	40952	70.13	34.39	770	18	30	20	8	19.00
20	**LAL**	0	66.18	34.30	2800	3	15	4	-10	3.17
21	**LOGAR**	40950	69.03	34.06	1935	10	24	12	-3	10.83
22	**MAZAR-I-SHARIF**	40911	67.12	36.42	378	18	32	18	5	18.17
23	**MAIMANA**	40922	64.46	35.56	815	14	25	14	4	14.17
24	**MOQUR**	40980	67.47	32.50	2000	10	23	12	-5	10.33
25	**NORTH-SALANG**	40930	69.01	35.19	3366	-2	8	0	-9	-0.83
26	**PAGHMAN**	0	68.59	34.35	2114	9	20	11	-4	9.33
27	**PANJAO**	0	67.02	34.23	2710	3	17	5	-12	3.50
28	**QADIS**	0	63.25	34.48	1280	12	22	12	3	12.17
29	**SHAHRACK**	0	64.17	34.06	2325	5	16	5	-11	4.17
30	**SHEBIRGHAN**	40908	65.43	36.40	360	16	29	16	4	16.17
31	**SOUTH-SALANG**	40931	69.04	35.18	3172	1	11	4	-7	2.33

* With different length of series

[6] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

Table 64

MINIMUM TEMPERATURE
Long Term Average Mean Monthly Value in Degree Celsius[7]

	STATION NAME	WMO CODE	LON	LAT	ELEV (m)	Begin. Year	Nbr. Years	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year
1	**BAGHLAN**	0	68.75	36.2	510	1958	12	-2.5	0.3	5.2	10	13.6	16.7	18.5	16.3	11.7	7	1.7	-1.5	8.1
2	**BUST**	40988	64.37	31.55	780	1960	11	0.6	3.4	8.9	12.3	17.6	21.2	23.9	20.8	14.8	9.1	3.6	0.3	11.4
3	**FAIZABAD**	40904	70.52	37.12	1200	1963	8	-4.7	-3	2.3	6.7	9.2	13.5	16	14.9	9.7	6	1	-2.5	5.8
4	**FARAH**	40974	62.18	32.37	700	1960	11	0.8	3.6	8.6	12.8	17.1	22	24.3	21.2	16.3	10	2.7	-0.3	11.6
5	**GHAZNI**	40968	68.42	33.53	2183	1959	12	-10.7	-8.1	-1.1	3.5	7.2	11.7	14.5	13.9	8	1.9	-3.1	-7.5	2.5
6	**GHELMIN**	0	65.3	34.88	2070	1965	6	-12.7	-7.6	-0.5	3.1	5	7.1	8.7	7.2	2.5	-0.5	-5	-8.4	-0.1
7	**HERAT**	40938	62.22	34.22	964	1958	12	-2.9	0	4.2	8.3	13.2	18.3	21.2	19.1	13.2	6.9	0.6	-2	8.3
8	**JABUL-SARAJ**	40932	69.25	35.13	1630	1961	10	-0.2	0.7	5.8	10.2	14.8	20.8	23.2	21.9	18.3	12.7	5.9	0.7	11.2
9	**JALALABAD**	40954	70.47	34.43	580	1959	12	2.6	6	10.9	15	19.2	24.8	27.1	26.7	22	14.7	6.5	2.9	14.9
10	**KABUL-AIRPORT**	40948	69.22	34.55	1791	1959	12	-7.4	-4.8	1.4	5.5	8.6	12.1	14.8	14	9.2	4	-1.2	-5.1	4.3
11	**KANDAHAR-AIRP**	40990	65.85	31.5	1010	1963	8	0.1	3.1	7.5	12.2	15.5	19.2	22.7	20	13.6	8.8	3.3	0.3	10.5
12	**KARIZIMIR**	40949	69.05	34.63	1905	1958	13	-7.1	-5.1	0.6	4.6	7.1	10.4	13.1	12.5	8.8	3.8	-1.4	-4.9	3.5
13	**KHOST**	40971	69.95	33.35	1146	1962	8	-1.1	1.9	6.5	10.1	14.2	20	21.9	21.4	16.7	11.1	3.4	-0.5	10.5
14	**KUNDUZ**	40913	68.92	36.67	433	1958	12	-2.4	0.9	5.7	10.9	14.9	20.5	23.1	21.4	15.9	9.9	3.5	-1	10.3
15	**LAL**	0	66.3	34.5	2800	1965	6	-21.4	-15.9	-8	-1.7	0.9	3	4.8	3.4	-1.9	-3.9	-8.9	-14.9	-5.4
16	**MAZAR-I-SHARIF**	40911	67.2	36.7	378	1959	12	-2	0.5	5.2	10.9	16.2	22.1	25.5	23.7	16.9	9.1	2.6	-0.7	10.8
17	**MIMANA**	40922	64.77	35.93	815	1959	11	-1.9	3	5.6	8.8	12.1	15.3	17.6	16.2	11.8	6.8	3	-0.4	8.2
18	**QADIS**	0	63.42	34.8	1280	1966	5	-2.6	-1.2	3.5	7.7	10	12.8	14.6	14.9	10	6.2	2.8	1.5	6.7
19	**SHEBIRGHAN**	40908	65.72	36.67	360	1963	8	-1.5	1	5.9	10.5	14.2	18.9	21.5	19.7	14.6	10.4	5.1	1.4	10.1

* With different length of series

[7] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

Table 65

MAXIMUM TEMPERATURE
Long Term Average Mean Monthly Value in Degree Celsius[8]

	STATION NAME	WMO CODE	Begin. Year	Nbr. Years	LON	LAT	ELEV (m)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year	Stand. Dev.
1	**BAGHLAN**	0	1958	12	68.75	36.02	510	8.2	10.8	16.1	22.1	29	35.8	37.4	36.2	31.7	24.7	15	9.3	23.03	10.99
2	**BUST**	40988	1960	11	64.37	31.55	780	15	17.9	24.5	28.9	35.4	40.6	41.7	39.9	35.5	29.7	22.1	16.6	28.98	9.72
3	**FAIZABAD**	40904	1963	-999	70.52	37.12	1200	6.7	8.5	14.5	20.1	24.4	32.7	35.4	35.5	30.1	22.7	15.6	9.5	21.31	10.51
4	**FARAH**	40974	1960	11	62.18	32.37	700	15.9	18.1	23.8	28.7	35	40.4	42.3	40.7	36	30.2	22.8	17.4	29.28	9.63
5	**GHAZNI**	40968	1959	12	68.42	33.53	2183	1.6	3.9	11.1	17.1	23.1	28.8	30.8	30.3	26.8	19.9	12.2	5.3	17.58	10.65
6	**GHELMIN**	0	1965	6	65.3	34.88	2070	2	4.9	10.1	16.3	21.6	27.1	28.9	29.2	25.1	19.6	12.3	6.4	16.96	9.72
7	**HERAT**	40938	1958	26	62.22	34.22	964	10.4	13.2	18.6	23.6	29	34.6	36.4	35.2	31.4	25.4	17.4	12.4	23.97	9.45
8	**JABUL-SARAJ**	40932	1961	10	69.25	35.13	1630	5.9	6.8	14.1	18.2	23.8	29.3	31.4	28.8	27.7	22.5	15.2	8.5	19.35	9.22
9	**JALALABAD**	40954	1959	12	70.47	34.43	580	16	18.6	22.9	27.4	34	40.6	39.8	38.3	35.5	30.4	22.9	17.2	28.63	9.04
10	**KABUL-AIRPORT**	40948	1959	30	69.22	34.55	1791	5.5	6.8	13.2	18.3	23.8	29.5	32.2	32.1	28.8	22.8	14.8	8.5	19.69	9.89
11	**KANDAHAR-AIRP.**	40990	1963	26	65.85	31.05	1010	13.2	15.9	22.9	27.6	33.9	39	40.4	38.6	34.1	28.5	21.9	15.8	27.65	9.70
12	**KARIZIMIR**	40949	1958	13	69.05	34.63	1905	4.6	6.4	12.6	17	22.9	28.5	30.8	30.8	27.2	21.4	13.7	7.8	18.64	9.63
13	**KHOST**	40971	1962	8	69.95	33.35	1146	13.4	14.8	19.6	23.9	29.7	35.3	33.9	32.8	30.8	26.2	19.9	14.8	24.59	7.98
14	**KUNDUZ**	40913	1958	12	68.92	36.67	433	7.3	10.6	16.1	22.2	29.6	37.1	38.7	37	31.8	24.2	15.5	9.5	23.30	11.48
15	**LAL**	0	1965	6	66.3	34.5	2800	-5.4	-2.3	3.5	9.7	16	22.3	25.2	24.9	20.7	13.9	6.3	2.3	11.43	10.66
16	**MAZAR-I-SHARIF**	40911	1959	27	67.2	36.7	378	9.1	11.8	16.6	23.7	30.8	36.7	38.6	37.1	31.8	24.5	15.9	10.5	23.93	10.98
17	**MIMANA**	40922	1959	11	64.77	35.93	815	8.8	10.2	14	19.9	26.8	33.6	35.4	34.1	29.5	21.9	15.3	10.6	21.68	9.98
18	**QADIS**	0	1966	5	63.42	34.8	1280	7	6.9	14	18.1	23.2	28.9	30.4	29.9	25.4	19.9	14.7	11.3	19.14	8.53
19	**SHEBIRGHAN**	40908	1963	8	65.72	36.37	360	7.3	10.1	15.7	22.1	30.5	36.3	37.8	37	31.4	23.6	16.7	9.1	23.13	11.36

(-999): Not Available

* With different length of series

[8] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

Table 66

DAY TIME TEMPERATURE
Long Term Average Mean Monthly Value in Degree Celsius[9]

	STATION NAME	WMO CODE	LON	LAT	ELEV (m)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year	Stand Dev.
1	**BAGHLAN**	0	68.75	36.02	510	4.8	7.5	12.7	18.3	24.1	29.7	31.3	29.7	25.1	18.8	10.5	5.7	18.2	9.8
2	**BUST**	40988	64.37	31.55	780	10.4	13.3	19.6	23.6	29.7	34.4	36.0	33.7	28.7	22.9	16.0	11.2	23.3	9.3
3	**FAIZABAD**	40904	70.52	37.12	1200	3.1	4.9	10.6	15.9	19.6	26.6	29.1	28.8	23.4	17.1	10.7	5.5	16.3	9.4
4	**FARAH**	40974	62.18	32.37	700	11.1	13.5	19.0	23.7	29.3	34.5	36.5	34.3	29.5	23.5	16.1	11.5	23.5	9.3
5	**GHAZNI**	40968	68.42	33.53	2183	-2.3	0.1	7.2	12.8	18.0	23.3	25.5	24.9	20.6	13.9	7.1	1.0	12.7	10.0
6	**GHELMIN**	0	65.3	34.88	2070	-2.6	1.0	6.7	12.1	16.3	20.7	22.4	22.0	17.7	12.9	6.5	1.4	11.4	8.7
7	**HERAT**	40938	62.22	34.22	964	6.2	9.0	14.0	18.8	24.0	29.4	31.5	29.9	25.4	19.2	11.8	7.6	18.9	9.1
8	**JABUL-SARAJ**	40932	69.25	35.13	1630	4.0	4.9	11.5	15.7	20.9	26.6	28.7	26.5	24.6	19.2	12.1	5.9	16.7	9.0
9	**JALALABAD**	40954	70.47	34.43	580	11.8	14.6	19.1	23.5	29.3	35.5	35.7	34.5	31.1	25.2	17.4	12.4	24.2	9.0
10	**KABUL-AIRPORT**	40948	69.22	34.55	1791	1.4	3.1	9.5	14.2	19.0	23.9	26.6	26.2	22.4	16.5	9.5	3.9	14.7	9.2
11	**KANDAHAR-AIRP**	40990	65.85	31.05	1010	9.1	11.9	18.0	22.7	28.0	32.7	34.7	32.5	27.4	22.0	15.7	10.6	22.1	9.1
12	**KARIZIMIR**	40949	69.05	34.63	1905	0.9	2.8	8.8	13.1	17.9	22.7	25.1	24.8	21.2	15.5	8.7	3.5	13.8	8.8
13	**KHOST**	40971	69.95	33.35	1146	8.8	10.7	15.5	19.5	24.8	30.4	30.0	29.1	26.2	21.2	14.4	9.7	20.0	8.1
14	**KUNDUZ**	40913	68.92	36.67	433	4.2	7.5	12.8	18.6	24.9	31.8	33.7	31.9	26.6	19.4	11.5	6.0	19.1	10.7
15	**LAL**	0	66.3	34.5	2800	-10.5	-6.6	-0.1	6.1	11.2	16.1	18.6	17.9	13.3	8.0	1.2	-3.5	6.0	9.9
16	**MAZAR-I-SHARIF**	40911	67.2	36.7	378	5.6	8.2	13.0	19.6	26.2	32.0	34.4	32.7	26.9	19.4	11.4	6.7	19.7	10.6
17	**MAIMANA**	40922	64.77	35.93	815	5.4	7.9	11.3	16.4	22.1	27.7	29.6	28.2	23.7	16.9	11.2	6.9	17.3	8.8
18	**QADIS**	0	63.42	34.8	1280	4.0	4.3	10.7	14.8	19.0	23.8	25.3	25.0	20.3	15.3	10.7	8.0	15.1	7.7
19	**SHEBIRGHAN**	40908	65.72	36.37	360	4.5	7.2	12.6	18.4	25.3	30.7	32.5	31.3	25.9	19.2	12.8	6.5	18.9	10.2

* With different length of series

[9] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

Table 67

NIGHT TIME TEMPERATURE
Long Term Average Mean Monthly Value in Degree Celsius[10]

	STATION NAME	WMO CODE	LON	LAT	ELEV (m)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year	Stand. Dev.
1	**BAGHLAN**	0	68.75	36.02	510	1.5	4.2	9.1	14.2	18.7	22.8	24.2	22	17.2	11.6	5.1	1.2	12.7	8.4
2	**BUST**	40988	64.37	31.55	780	5.8	8.7	14.4	18	23.5	27.4	29.3	26.3	20.7	14.6	8.5	4.5	16.8	8.7
3	**FAIZABAD**	40904	70.52	37.12	1200	-0.5	1.3	6.7	11.4	14.3	19.7	21.8	20.7	15.3	10.3	4.7	0.4	10.5	8.0
4	**FARAH**	40974	62.18	32.37	700	6.3	8.9	14	18.3	23	27.9	29.8	26.8	21.9	15.4	8	4.3	17.1	8.9
5	**GHAZNI**	40968	68.42	33.53	2183	-6.2	-3.7	3.2	8.2	12.5	17.2	19.4	18.6	13.3	6.6	0.9	-4.2	7.2	9.2
6	**GHELMIN**	0	65.3	34.88	2070	-7.3	-3	3.3	7.7	10.5	13.5	14.8	13.5	8.8	4.7	-0.5	-4.7	5.1	7.6
7	**HERAT**	40938	62.22	34.22	964	2	4.8	9.3	13.6	18.4	23.5	25.8	23.7	18.3	11.7	4.9	1.6	13.1	8.8
8	**JABULSARAJ**	40932	69.25	35.13	1630	2	3	8.8	13	17.8	23.5	25.7	23.9	20.9	15.2	8.3	2.7	13.7	8.7
9	**JALALABAD**	40954	70.47	34.43	580	7.5	10.6	15.2	19.3	24.1	29.9	30.9	30	25.8	18.8	10.7	6.5	19.1	9.0
10	**KABUL-AIRPORT**	40948	69.22	34.55	1791	-2.7	-0.5	5.6	10	13.6	17.7	20	19.2	14.7	8.9	2.9	-1.7	9.0	8.2
11	**KANDAHAR-AIRP**	40990	65.85	31.05	1010	4.8	7.7	12.9	17.5	21.6	25.6	28.1	25.4	19.4	14.1	8.2	4.3	15.8	8.4
12	**KARIZIMIR**	40949	69.05	34.63	1905	-2.8	-0.9	4.9	8.9	12.3	16.2	18.4	17.7	13.9	8.4	2.5	-1.7	8.2	7.7
13	**KHOST**	40971	69.95	33.35	1146	4.2	6.6	11.2	14.9	19.3	24.9	25.5	24.7	20.7	15.1	7.7	3.4	14.9	8.2
14	**KUNDUZ**	40913	68.92	36.67	433	1.2	4.5	9.5	14.9	19.8	25.8	27.8	25.8	20.3	13.6	6.5	1.6	14.3	9.7
15	**LAL**	0	66.3	34.5	2800	-15.5	-10.9	-3.9	2.3	5.9	9.2	11	9.6	4.4	0.8	-5	-10.6	-0.2	8.9
16	**MAZAR-I-SHARIF**	40911	67.2	36.7	378	2.1	4.7	9.3	15.4	21.1	26.8	29.4	27.5	21	13	6	2.1	14.9	10.1
17	**MIMANA**	40922	64.77	35.93	815	2.1	5.7	8.6	12.7	17	21.2	23	21.3	16.7	10.7	6.1	2.3	12.3	7.5
18	**QADIS**	0	63.42	34.8	1280	0.9	1.8	7.3	11.3	14.4	18	19.4	19.2	14.3	9.8	5.9	4	10.5	6.6
19	**SHEBIRGHAN**	40908	65.72	36.37	360	1.8	4.4	9.4	14.6	19.6	24.5	26.4	24.6	19.2	13.8	8	3.3	14.1	8.8

* With different length of series

[10] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

Table 68

WIND SPEED
Long Term Average Mean Monthly in m/s[11]

	STATION NAME	WMO CODE	Begin. Year	Nbr. Years	LON	LAT	ELEV (m)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year
1	**BAGHLAN**	0	1958	12	68.75	36.2	510	0.9	1.1	1.1	1.1	1.1	1	0.8	0.5	0.8	0.9	0.8	0.8	0.9
2	**BUST**	40988	1960	11	64.37	31.55	780	2	2	1.9	1.8	1.8	1.8	1.8	1.8	2	1.5	1.4	1.8	1.8
3	**FAIZABAD**	40904	1963	8	70.52	37.12	1200	0.7	0.8	1	1	0.9	1.2	1.3	0.8	0.8	0.7	0.6	0.6	0.9
4	**FARAH**	40974	1960	11	62.18	32.37	700	1.4	1.5	1.8	1.4	1.4	1.4	1.9	1.3	1.7	1.4	1.1	1	1.4
5	**GHAZNI**	40968	1959	12	68.42	33.53	2183	2.9	2.9	3.1	3	3.4	3.2	3.2	3.3	3.2	3.1	2.8	2.9	3.1
6	**GHELMIN**	0	1965	6	65.3	34.88	2070	1	1.1	1	1.7	1.6	1.7	2	1.6	1.1	1.2	1.3	1	1.4
7	**HERAT**	40938	1958	12	62.22	34.22	964	2.3	2.6	3.2	2.7	2.8	3.4	4.6	4.2	2.9	2.3	1.9	1.9	2.9
8	**JABULSARAJ**	40932	1961	10	69.25	35.13	1630	1.3	1.7	2.7	2.3	3.2	3.7	4.2	3.7	2.8	1.9	1.7	1.1	2.5
9	**JALALABAD**	40954	1959	12	70.47	34.43	580	0.9	1	1	1.1	1.3	1.2	1.2	0.9	0.7	0.8	1	0.8	1.0
10	**KABUL-AIRPORT**	40948	1959	12	69.22	34.55	1791	1.3	1.3	1.8	1.7	2.3	2.4	2.6	1.8	1.5	1.2	1.3	1.2	1.7
11	**KANDAHAR-AIRP**	40990	1963	8	65.85	31.5	1010	3	2.7	2.2	2.3	2.3	1.9	2	1.7	1.7	1.7	1.7	2.2	2.1
12	**KARIZIMIR**	40949	1958	13	69.05	34.63	1905	1	1	1.1	1.2	1.3	1.2	1.4	1	1	1	1	0.9	1.1
13	**KHOST**	40971	1962	8	69.95	33.35	1146	1.5	1.6	1.7	1.7	1.6	1.7	1.9	1.5	1.7	1.6	1.7	1.6	1.7
14	**KUNDUZ**	40913	1958	12	68.92	36.67	433	1.4	1.7	1.7	1.8	1.8	2	2.2	2.1	2	1.8	1.4	1.4	1.8
15	**LAL**	0	1965	6	66.3	34.5	2800	1.1	1.3	1.4	1.5	1.5	1.2	1.4	1.2	1.1	1.3	1	0.9	1.2
16	**MAZAR-I-SHARIF**	40911	1959	12	67.2	36.7	378	1.7	2.3	2.6	2	2.1	2.6	2.9	2.5	1.8	1.9	1.7	1.7	2.2
17	**MAIMANA**	40922	1959	11	64.77	35.93	815	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	2	1.9	2	1.9
18	**QADIS**	0	1966	5	63.42	34.8	1280	3.5	2.1	2	1.7	1.2	1.5	1.7	1.8	1.7	1.5	1.5	2.9	1.9
19	**SHEBIRGHAN**	40908	1963	8	65.72	36.67	360	2.4	2.6	2.6	2.1	2.2	2	2	1.9	1.9	2	1.9	2.2	2.2

* With different length of series

[11] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

Table 69

SUNSHINE
Long Term Average Mean Monthly Ratio[12]

	STATION NAME	WMO CODE	Begin. Year	Nbr. Years	LON	LAT	ELEV (m)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year	Stand. Dev.
1	**BAGHLAN**	0	1958	12	68.75	36.02	510	0.35	0.42	0.42	0.49	0.62	0.73	0.75	0.79	0.8	0.65	0.59	0.39	0.58	0.16
2	**BUST**	40988	1960	11	64.37	31.55	780	0.65	0.58	0.72	0.65	0.76	0.68	0.73	0.83	0.88	0.76	0.82	0.67	0.73	0.09
3	**FAIZABAD**	40904	1963	8	70.52	37.12	1200	0.39	0.38	0.36	0.45	0.57	0.68	0.66	0.73	0.7	0.64	0.52	0.45	0.54	0.14
4	**FARAH**	40974	1960	11	62.18	32.37	700	0.68	0.64	0.63	0.64	0.78	0.82	0.78	0.84	0.85	0.82	0.76	0.69	0.74	0.08
5	**GHAZNI**	40968	1959	12	68.42	33.53	2183	0.56	0.62	0.65	0.65	0.68	0.81	0.8	0.85	0.88	0.8	0.81	0.7	0.73	0.10
6	**GHELMIN**	0	1965	6	65.3	34.88	2070	0.48	0.41	0.44	0.48	0.66	0.79	0.82	0.82	0.77	0.65	0.58	0.53	0.62	0.15
7	**HERAT**	40938	-999	-999	62.22	34.22	964	0.43	0.41	0.44	0.43	0.67	0.8	0.83	0.85	0.85	0.72	0.59	0.45	0.62	0.18
8	**JABULSARAJ**	40932	1961	10	69.25	35.13	1630	0.59	0.55	0.54	0.55	0.71	0.8	0.81	0.81	0.82	0.74	0.72	0.58	0.69	0.11
9	**JALALABAD**	40954	1959	12	70.47	34.43	580	0.62	0.61	0.57	0.55	0.66	0.77	0.76	0.73	0.78	0.77	0.7	0.64	0.68	0.08
10	**KABUL-AIRPORT**	40948	1959	12	69.22	34.55	1791	0.56	0.6	0.53	0.57	0.71	0.81	0.8	0.83	0.81	0.81	0.77	0.64	0.70	0.12
11	**KANDAHAR-AIRP.**	40990	1963	6	65.85	31.05	1010	0.64	0.57	0.67	0.61	0.84	0.89	0.84	0.87	0.88	0.88	0.84	0.78	0.78	0.12
12	**KARIZIMIR**	40949	1958	13	69.05	34.63	1905	0.64	0.61	0.53	0.58	0.68	0.77	0.77	0.8	0.8	0.8	0.72	0.64	0.70	0.09
13	**KHOST**	40971	1962	8	69.95	33.35	1146	0.73	0.63	0.63	0.56	0.68	0.69	0.59	0.61	0.73	0.79	0.78	0.66	0.67	0.07
14	**KUNDUZ**	40913	1958	12	68.92	36.67	433	0.35	0.42	0.42	0.49	0.63	0.73	0.75	0.79	0.8	0.64	0.58	0.39	0.58	0.16
15	**LAL**	0	1965	6	66.3	34.5	2800	0.54	0.46	0.52	0.5	0.7	0.83	0.85	0.87	0.89	0.77	0.71	0.6	0.69	0.16
16	**MAZAR-I-SHARIF**	40911	1959	12	67.2	36.7	378	0.38	0.41	0.39	0.47	0.7	0.58	0.8	0.81	0.78	0.69	0.55	0.5	0.59	0.16
17	**MAIMANA**	40922	1959	11	64.77	35.93	815	0.43	0.41	0.44	0.43	0.67	0.8	0.83	0.85	0.85	0.72	0.59	0.45	0.62	0.18
18	**QADIS**	0	1966	5	63.42	34.8	1280	0.43	0.41	0.44	0.43	0.67	0.8	0.83	0.85	0.85	0.72	0.59	0.45	0.62	0.18
19	**SHEBIRGHAN**	40908	1963	8	65.72	36.37	360	0.29	0.42	0.4	0.46	0.69	0.82	0.85	0.86	0.79	0.62	0.6	0.41	0.60	0.20

(-999): Not Available

* With different length of series

[12] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

Table 70

GLOBAL RADIATION
Long Term Average Daily Value in MJ/m²/Day[13]

	STATION NAME	WMO CODE	LON	LAT	ELEV (m)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Year	Stand Dev.
1	**BAGHLAN**	0	68.45	36.12	510	7.2	10.0	12.9	16.9	21.2	24.2	24.0	22.7	19.5	13.7	9.8	6.8	15.7	7
2	**BUST**	40988	64.22	31.33	780	11.1	12.9	18.0	20.0	23.7	23.0	23.5	23.7	21.6	16.3	13.5	10.5	18.2	5
3	**FAIZABAD**	40904	70.31	37.07	1200	6.7	8.6	10.9	15.2	19.7	23.2	22.2	21.7	17.9	13.2	8.6	6.6	14.6	6
4	**FARAH**	40974	62.11	32.22	700	11.1	13.4	16.5	19.7	24.1	25.7	24.5	23.9	21.0	16.8	12.7	10.4	18.3	6
5	**GHAZNI**	40968	68.25	33.32	2183	9.4	12.6	16.4	19.6	22.2	26.0	25.3	24.5	21.8	16.5	13.0	10.1	18.1	6
6	**GHELMIN**	0	65.18	34.53	2070	8.2	9.6	12.7	16.1	21.8	25.6	25.8	23.8	19.6	14.0	10.0	8	16.4	7
7	**HERAT**	40938	62.13	34.13	964	8.3	10.3	13.5	16.1	22.1	25.4	25.5	23.9	20.6	15.1	10.5	7.8	16.6	7
8	**JABUL-SAR**	40932	69.15	35.08	1630	9.2	11.2	14.2	17.4	22.8	25.8	25.6	23.6	20.4	15.2	11.4	8.3	17.1	6
9	**JALALABAD**	40954	70.28	34.26	580	9.9	12.5	15.3	18.0	21.9	24.8	24.2	21.9	19.6	15.6	11.4	9.3	17.0	6
10	**KABUL-AIRPORT**	40948	69.13	34.33	1791	9.1	12.1	14.2	17.9	22.9	26.0	25.3	24.0	20.3	16.4	12.2	9.1	17.5	6
11	**KANDAHAR-AIRP**	40990	65.51	31.30	1010	11.0	12.8	17.3	19.3	25.2	26.9	25.6	24.4	21.6	17.8	13.8	11.4	18.9	6
12	**KARIZIMIR**	40949	69.03	34.38	1905	9.9	12.2	14.2	18.1	22.2	25.1	24.7	23.4	20.2	16.2	11.6	9.1	17.2	6
13	**KHOST**	40971	69.57	33.21	1146	11.2	13.0	1.3	18.3	22.3	23.3	21.0	19.9	19.0	16.2	12.5	9.8	15.6	6
14	**KUNDUZ**	40913	68.55	36.40	433	6.5	9.3	12.0	16.1	21.1	24.3	24.2	23.0	19.7	13.4	9.5	6.3	15.4	7
15	**LAL**	0	66.18	34.30	2800	8.9	10.3	14.0	16.5	22.6	26.5	26.4	24.9	21.8	15.8	11.5	8.8	17.3	7
16	**MAZAR-I SHARIF**	40911	67.12	36.42	378	7.3	9.8	12.4	16.5	22.6	21.3	24.9	23.0	19.1	14.1	9.4	7.5	15.7	6
17	**MAIMANA**	40922	64.46	35.56	815	7.5	9.3	12.5	15.0	22.0	25.9	26.0	24.4	20.8	14.7	9.8	7.0	16.2	7
18	**QADIS**	0	63.25	34.48	1280	7.8	9.6	12.7	15.1	22.0	25.8	26.0	24.4	21.0	15.0	10.1	7.3	16.4	7
19	**SHEBIRGHAN**	40908	65.43	36.40	360	6.6	9.9	12.6	16.3	22.4	25.9	25.9	23.9	19.3	13.3	9.8	6.9	16.1	7

* With different length of series

[13] Source : Department of Meteorology, Department of Transport and Tourism. The data were entered by FAO Agro-meteorology department in Kabul and analyzed by Rabah Lekhal, FAO Agro-meteorologist

ANNEXE II -
HISTORICAL HYDROLOGICAL STATIONS AND AGRO-METEOROLOGICAL STATIONS COORDINATES

Table 71
Hydrological Stations – Amu Darya River Basin[14]

#	STATION NAME	RIVER BASIN	WATERSHED	RIVER	*LAT N (O)*	*LAT N (')*	LAT DD	*LON E (O)*	*LON E (')*	LON DD	YEAR INST.	LAST REC.	ACTIVE YEARS	CODE
1	Pul-i-Alchin	Amu Daria	Khanabad	Farkhar	*36*	*48*	36.8	*68*	*51*	68.85	-	-	-	14- 1.R00- 1T
2	Pul-i-Bangi	Amu Daria	Khanabad	Bangi	*36*	*42*	36.7	*69*	*15*	69.25	64	78	14	14- 1.1L0- 1A
3	Pul-i-Chugha	Amu Daria	Khanabad	Farkhar	*36*	*44*	36.7333	*69*	*12*	69.2	64	78	14	14- 1.R00- 2A
4	Takcha Khana	Amu Daria	Khanabad	Namakab	*36*	*36*	36.6	*69*	*38*	69.6333	-	-	-	14- 1.2L0- 2T
5	Taloqan	Amu Daria	Khanabad	Farkhar	*36*	*38*	36.6333	*69*	*43*	69.7167	66	78	12	14- 1.R00- 5A
6	Khojagar	Amu Daria	Kokcha	Kokcha	*37*	*5*	37.0833	*69*	*28*	69.4667	64	78	14	15- 0.000- 1M
7	Near Baharak	Amu Daria	Kokcha	Warduj	*36*	*58*	36.9667	*70*	*54*	70.9	69	78	9	15-10.R00- 2A
8	Near Faizabad	Amu Daria	Kokcha	Kokcha	*37*	*8*	37.1333	*70*	*37*	70.6167	-	-	-	15- 7.R00- 2W
9	Near Jurm	Amu Daria	Kokcha	Kokcha	*36*	*56*	36.9333	*70*	*52*	70.8667	69	78	9	15- 0.000- 6M
10	Near Keshem	Amu Daria	Kokcha	Keshem	*36*	*55*	36.9167	*70*	*3*	70.05	69	78	9	15- 1.L00- 1A
11	Near Keshem	Amu Daria	Kokcha	Kokcha	*36*	*57*	36.95	*70*	*3*	70.05	69	78	9	15- 0.000- 3M
12	Shashpul	Amu Daria	Kokcha	Warduj	*37*	*1*	37.0167	*70*	*50*	70.8333	69	78	9	15-10.R00- 1A
13	Ahangaran	Amu Daria	Kunduz	Bamyan	*34*	*49*	34.8167	*67*	*55*	67.9167	75	78	3	14- 9.R00- 6T
14	Baghlan	Amu Daria	Kunduz	Kunduz	*36*	*6*	36.1	*68*	*40*	68.6667	68	78	10	14- 0.000- 4M
15	Bamyan	Amu Daria	Kunduz	Bamyan	*34*	*50*	34.8333	*67*	*49*	67.8167	69	78	9	14- 9.R00- 8A
16	Bamyan	Amu Daria	Kunduz	Foladi	*34*	*49*	34.8167	*67*	*49*	67.8167	69	78	9	14- 9.4R0- 1T
17	Char Dara	Amu Daria	Kunduz	Kunduz	*36*	*42*	36.7	*68*	*50*	68.8333	64	78	14	14- 0.000- 2M
18	Dasht-i-Safed (Doab)	Amu Daria	Kunduz	Kunduz	*35*	*17*	35.2833	*67*	*57*	67.95	67	78	11	14- 0.000- 8M
19	Doab	Amu Daria	Kunduz	Bamyan	*35*	*16*	35.2667	*67*	*59*	67.9833	67	78	11	14- 9.R00- 1A
20	Doshi	Amu Daria	Kunduz	Andarab	*35*	*36*	35.6	*68*	*41*	68.6833	64	78	14	14- 5.R00- 1A
21	Gerdab	Amu Daria	Kunduz	Kunduz	*36*	*22*	36.3667	*68*	*52*	68.8667	64	78	14	14- 0.000- 3M
22	Kulukh Tepa	Amu Daria	Kunduz	Kunduz	*36*	*59*	36.9833	*68*	*18*	68.3	65	78	13	14- 0.000- 1M
23	Pul-i-Khumri	Amu Daria	Kunduz	Kunduz	*35*	*56*	35.9333	*68*	*43*	68.7167	50	68	18	14- 0.000- 5S
24	Pul-i-Konda Sang	Amu Daria	Kunduz	Kunduz	*35*	*36*	35.6	*68*	*36*	68.6	67	78	11	14- 0.000- 6M

[14] Source, Government of Afghanistan, MIRWE, Hydrological Yearbooks.

Table 72
Hydrological Stations – Hari Rod River Basin[15]

#	STATION NAME	RIVER BASIN	WATERSHED	RIVER	*LAT N (O)*	*LAT N (')*	LAT DD	*LON E (O)*	*LON E (')*	LON DD	YEAR INST.	LAST REC.	ACTIVE YEARS	CODE
25	Bala Murghab	Harirod-Murghab	Bala Murghab	Murghab	*35*	*35*	35.5833	*63*	*19*	63.3167	69	78	9	9- 0.000- 1M
26	Chichaktu	Harirod-Murghab	Bala Murghab	Chichaktu	*35*	*44*	35.7333	*64*	*5*	64.0833	70	78	8	9- 4.R00- 8A
27	Lula-i-Surkh	Harirod-Murghab	Bala Murghab	Boom	*35*	*14*	35.2333	*63*	*28*	63.4667	69	78	9	9- 5.L00- 1A
28	Qala-i-Niazkhan	Harirod-Murghab	Bala Murghab	Murghab	*35*	*2*	35.0333	*64*	*1*	64.0167	66	78	12	9- 0.000- 5M
29	Babulai	Harirod-Murghab	Kushk wa Kashan Rod	Kashan	*35*	*20*	35.3333	*62*	*55*	62.9167	73	78	5	9- 3.000- 1A
30	Char Takhta	Harirod-Murghab	Kushk wa Kashan Rod	Gulran	*35*	*23*	35.3833	*62*	*2*	62.0333	77	78	1	-
31	Chil Dukhtaran	Harirod-Murghab	Kushk wa Kashan Rod	Kushk	*35*	*13*	35.2167	*62*	*17*	62.2833	70	78	8	9- 2.000- 1A
32	Khush Rabat	Harirod-Murghab	Lower Hari Rod	Senjab	*34*	*41*	34.6833	*62*	*7*	62.1167	69	78	9	8- 1.R00- 9T
33	Near Herat	Harirod-Murghab	Lower Hari Rod	Karukh	*34*	*26*	34.4333	*62*	*28*	62.4667	72	77	5	8- 2.R00- 3A
34	Pul-i-Hashimi	Harirod-Murghab	Lower Hari Rod	Hari Rud	*34*	*20*	34.3333	*61*	*56*	61.9333	72	78	6	8- 0.000- 2M
35	Pul-i-Pashtoon	Harirod-Murghab	Lower Hari Rod	Hari Rud	*34*	*17*	34.2833	*62*	*13*	62.2167	63	77	14	8- 0.000- 3M
36	Robat-i-Akhund	Harirod-Murghab	Lower Hari Rod	Hari Rud	*34*	*16*	34.2667	*62*	*56*	62.9333	66	78	12	8- 0.000- 4M
37	Tirpul	Harirod-Murghab	Lower Hari Rod	Hari Rud	*34*	*36*	34.6	*61*	*16*	61.2667	69	78	9	8- 0.000- 1M
38	Chekcheran	Harirod-Murghab	Upper Hari Rod	Hari Rud	*34*	*31*	34.5167	*65*	*15*	65.25	61	78	17	8- 0.000- 7M
39	Daulatyar	Harirod-Murghab	Upper Hari Rod	Hari Rud	*34*	*33*	34.55	*65*	*46*	65.7667	69	78	9	8- 0.000- 9M
40	Langar	Harirod-Murghab	Upper Hari Rod	Kowgan	*34*	*13*	34.2167	*63*	*0*	63	62	78	16	8- 3.L00- 1A
41	Shinya	Harirod-Murghab	Upper Hari Rod	Lal	*34*	*30*	34.5	*65*	*40*	65.6667	76	78	2	-
42	Tagab Ghaza	Harirod-Murghab	Upper Hari Rod	Hari Rud	*34*	*21*	34.35	*63*	*39*	63.65	61	78	17	8- 0.000- 5M
43	Tangi Azu	Harirod-Murghab	Upper Hari Rod	Kowgan	*34*	*8*	34.1333	*64*	*12*	64.2	62	78	16	8- 3.L00- 6A

[15] Source, Government of Afghanistan, MIRWE, Hydrological Yearbooks.

Table 73
Hydrological Stations – Hilmand River Basin[16]

#	STATION NAME	RIVER BASIN	WATERSHED	RIVER	*LAT N (O)*	*LAT N (')*	LAT DD	*LON E (O)*	*LON E (')*	LON DD	YEAR INST.	LAST REC.	ACTIVE YEARS	CODE
44	Adraskan	Hilmand	Adraskan Rod	Adraskan	*33*	*38*	33.6333	*62*	*16*	62.2667	63	78	15	7- 0.000- 7M
45	Near Adraskan	Hilmand	Adraskan Rod	Rud-i-Gaz	*33*	*42*	33.7	*62*	*17*	62.2833	63	78	15	7- 5.R00- 1A
46	Near Kandahar	Hilmand	Arghistan	Arghistan	*31*	*26*	31.4333	*65*	*55*	65.9167	52	79	27	4- 1.22R- 1A
47	Shinkay	Hilmand	Arghistan	Lora	*32*	*0*	32	*67*	*18*	67.3	-	-	-	4- 1.222R-6A
48	Takhtapul	Hilmand	Arghistan	Dori	*31*	*13*	31.2167	*65*	*57*	65.95	-	-	-	4- 1.2L0- 5A
49	Farah	Hilmand	Farah Rod	Farah	*32*	*22*	32.3667	*62*	*4*	62.0667	53	78	25	6- 0.000- 3M
50	Near Daulatabad	Hilmand	Farah Rod	Farah	*32*	*45*	32.75	*62*	*37*	62.6167	63	72	9	6- 0.000- 4S
51	Near Petch Tangi	Hilmand	Farah Rod	Farah	*32*	*51*	32.85	*62*	*52*	62.8667	60	78	18	6- 0.000- 5M
52	Near Shawalat	Hilmand	Farah Rod	Malmand	*32*	*51*	32.85	*63*	*18*	63.3	61	78	17	6- 2.L00- 1A
53	Dehmazang	Hilmand	Khash Rod	Khash	*31*	*55*	31.9167	*63*	*7*	63.1167	77	78	1	-
54	Dilaram	Hilmand	Khash Rod	Khash	*32*	*9*	32.15	*63*	*26*	63.4333	52	78	26	5- 0.000- 5M
55	Ghurghuri	Hilmand	Khash Rod	Khash	*31*	*28*	31.4667	*62*	*38*	62.6333	-	-	-	5- 0.000- 2M
56	Near Zaranj	Hilmand	Khash Rod	Shele Char	*31*	*2*	31.0333	*61*	*52*	61.8667	55	79	24	4- 0.000- 1M
57	Arghandab Below Reservoir	Hilmand	Lower Arghandab	Arghandab	*31*	*50*	31.8333	*65*	*52*	65.8667	47	79	32	4- 1.L00- 4A
58	Khushk-i Nakhud	Hilmand	Lower Arghandab	Arghandab	*31*	*37*	31.6167	*65*	*4*	65.0667	-	-	-	4- 1.1R0- 3T
59	Near Kandahar (Bagh-i Pul)	Hilmand	Lower Arghandab	Arghandab	*31*	*37*	31.6167	*65*	*34*	65.5667	69	80	11	4- 1.L00- 3A
60	Qala-i-Bust	Hilmand	Lower Arghandab	Arghandab	*31*	*30*	31.5	*64*	*23*	64.3833	47	80	33	4- 1.L00- 1A
61	Darweshan	Hilmand	Lower Hilmand	Hilmand	*31*	*8*	31.1333	*64*	*11*	64.1833	56	79	23	4- 0.000- 5M
62	Lashkargah	Hilmand	Lower Hilmand	Hilmand	*31*	*34*	31.5667	*64*	*21*	64.35	53	80	27	4- 0.000- 6M
63	Grishk	Hilmand	Middle Hilmand	Hilmand	*31*	*48*	31.8	*64*	*35*	64.5833	46	49	3	4- 0.000- 6S
64	Near Musa Qala	Hilmand	Middle Hilmand	Musa Qala	*32*	*14*	32.2333	*64*	*48*	64.8	52	79	27	4- 4.R00- 2A
65	Sangin	Hilmand	Middle Hilmand	Sangin Wash	*32*	*4*	32.0667	*64*	*51*	64.85	-	-	-	4- 3.L00- 2T
66	Ab-i Istada	Hilmand	Sardih wa Ghazni Rod	Ghazni	*32*	*33*	32.55	*67*	*54*	67.9	-	-	-	3- 0.000- 1S
67	Gardez	Hilmand	Sardih wa Ghazni Rod	Jilga	*33*	*35*	33.5833	*69*	*13*	69.2167	70	78	8	3- 4.L00- 7A
68	Ghazni Bridge	Hilmand	Sardih wa Ghazni Rod	Ghazni	*33*	*33*	33.55	*68*	*25*	68.4167	68	80	12	3- 0.000- 7M
69	Nauburja	Hilmand	Sardih wa Ghazni Rod	Ghazni	*33*	*38*	33.6333	*68*	*25*	68.4167	61	67	6	3- 0.000- 7S
70	Near Gardez	Hilmand	Sardih wa Ghazni Rod	Derang Khwa	*33*	*36*	33.6	*69*	*4*	69.0667	-	-	-	3- 4.4R0- 6W
71	Near Gardez	Hilmand	Sardih wa Ghazni Rod	Kanay Khwa	*33*	*29*	33.4833	*69*	*12*	69.2	-	-	-	3- 4.6L0- 5W
72	Near Makawa	Hilmand	Sardih wa Ghazni Rod	Makawa Khwa	*33*	*32*	33.5333	*68*	*55*	68.9167	-	-	-	3- 4.2R0- 5W
73	Near Mechalgu	Hilmand	Sardih wa Ghazni Rod	Jilga	*33*	*49*	33.8167	*69*	*23*	69.3833	70	78	8	3- 4.L00- 9T
74	Near Mullayan	Hilmand	Sardih wa Ghazni Rod	Mullayan	*33*	*34*	33.5667	*69*	*1*	69.0167	-	-	-	3- 4.3R0- 7W
75	Near Sarafsar	Hilmand	Sardih wa Ghazni Rod	Paltu	*33*	*8*	33.1333	*69*	*5*	69.0833	49	52	3	3- 4.1L0- 8T
76	Near Shinia	Hilmand	Sardih wa Ghazni Rod	Ghazni	*32*	*42*	32.7	*68*	*6*	68.1	67	79	12	3- 0.000- 2M
77	Park Dasht	Hilmand	Sardih wa Ghazni Rod	Park	*33*	*0*	33	*68*	*52*	68.8667	68	70	2	3- 1.1L0- 5T

[16] Source, Government of Afghanistan, MIRWE, Hydrological Yearbooks.

Table 74
Hydrological Stations – Hilmand River Basin[17]

#	STATION NAME	RIVER BASIN	WATERSHED	RIVER	*LAT N (O)*	*LAT N (')*	LAT DD	*LON E (O)*	*LON E (')*	LON DD	YEAR INST.	LAST REC.	ACTIVE YEARS	CODE
78	Sardeh Above Dam	Hilmand	Sardih wa Ghazni Rod	Jilga	*33*	*18*	33.3	*68*	*37*	68.6167	69	79	10	3- 4.L00- 3T
79	Sardeh Above Dam	Hilmand	Sardih wa Ghazni Rod	Paltu	*33*	*16*	33.2667	*68*	*42*	68.7	69	80	11	3- 4.1L0- 1A
80	Sardeh Below Dam	Hilmand	Sardih wa Ghazni Rod	Jilga	*33*	*18*	33.3	*69*	*37*	69.6167	-	-	-	3- 4.L00- 2A
81	Seraj Above Reservoir	Hilmand	Sardih wa Ghazni Rod	Sarab	*33*	*46*	33.7667	*68*	*21*	68.35	68	80	12	3- 8.R00- 1W
82	Seraj Below Reservoir	Hilmand	Sardih wa Ghazni Rod	Barikab	*33*	*46*	33.7667	*68*	*21*	68.35	68	76	8	3- 0.000- 8W
83	Seraj Below Reservoir	Hilmand	Sardih wa Ghazni Rod	Ghazni	*33*	*45*	33.75	*68*	*23*	68.3833	48	80	32	3- 8.1L0- 1W
84	Syahgel	Hilmand	Sardih wa Ghazni Rod	Syahgel	*33*	*31*	33.5167	*68*	*21*	68.35	68	76	8	3- 5.R00- 3T
85	Zurmat	Hilmand	Sardih wa Ghazni Rod	Gawyana	*33*	*25*	33.4167	*69*	*10*	69.1667	-	-	-	3- 4.5L0- 6W
86	Char Burjak	Hilmand	Sistan-Hilmand	Hilmand	*30*	*17*	30.2833	*62*	*2*	62.0333	48	79	31	4- 0.000- 3M
87	Khwabgha	Hilmand	Sistan-Hilmand	Hilmand	*30*	*48*	30.8	*61*	*46*	61.7667	69	79	10	4- 0.000- 2M
88	Malakhan	Hilmand	Sistan-Hilmand	Hilmand	*30*	*27*	30.45	*63*	*22*	63.3667	70	78	8	4- 0.000- 4M
89	Near Kandahar	Hilmand	Tarnak	Tarnak	*31*	*35*	31.5833	*65*	*54*	65.9	-	-	-	4- 1.21R- 2A
90	Near Qalat	Hilmand	Tarnak	Tarnak	*32*	*1*	32.0167	*66*	*49*	66.8167	-	-	-	4- 1.21R- 5T
91	Near Shahjuy	Hilmand	Tarnak	Tarnak	*32*	*32*	32.5333	*67*	*28*	67.4667	69	80	11	4- 1.21R- 7A
92	Arghandab Above Reservoir	Hilmand	Upper Arghandab	Arghandab	*31*	*57*	31.95	*66*	*2*	66.0333	51	79	28	4- 1.L00- 5A
93	Arghandab Res.	Hilmand	Upper Arghandab	Arghandab	*31*	*51*	31.85	*65*	*53*	65.8833	52	80	28	4- 1.L00- 4W
94	Arghandab Reservoir	Hilmand	Upper Arghandab	Shajoi Wash	*31*	*54*	31.9	*65*	*54*	65.9	-	-	-	4- 1.4R0- 2T
95	Mizan	Hilmand	Upper Arghandab	Arghandab	*32*	*10*	32.1667	*66*	*27*	66.45	73	80	7	4- 1.L00- 6A
96	Sang-i-Masha	Hilmand	Upper Arghandab	Arghandab	*33*	*8*	33.1333	*67*	*28*	67.4667	69	80	11	4- 1.L00- 9A
97	Anarjuy	Hilmand	Upper Hilmand	Tirin	*32*	*38*	32.6333	*65*	*34*	65.5667	52	80	28	4- 5.L00- 1A
98	Dahane Rishqa	Hilmand	Upper Hilmand	Markhana	*34*	*21*	34.35	*67*	*29*	67.4833	69	78	9	4-14.R00- 1A
99	Dehraut	Hilmand	Upper Hilmand	Hilmand	*32*	*42*	32.7	*65*	*28*	65.4667	52	79	27	4- 0.000- 8M
100	Gardandewal	Hilmand	Upper Hilmand	Hilmand	*34*	*30*	34.5	*68*	*16*	68.2667	69	80	11	4- 0.000-10M
101	Gizab	Hilmand	Upper Hilmand	Hilmand	*33*	*23*	33.3833	*66*	*17*	66.2833	71	79	8	4- 0.000- 9M
102	Kajakai Below Reservoir	Hilmand	Upper Hilmand	Hilmand	*32*	*19*	32.3167	*65*	*6*	65.1	47	80	33	4- 0.000- 7M
103	Kajaki Reservoir	Hilmand	Upper Hilmand	Hilmand	*32*	*19*	32.3167	*65*	*7*	65.1167	53	80	27	4- 0.000- 7W
104	Near Gardandewal	Hilmand	Upper Hilmand	Syahsang	*34*	*34*	34.5667	*68*	*11*	68.1833	70	80	10	4-16.R00- 3A
105	Tirin	Hilmand	Upper Hilmand	Tirin	*32*	*3*	32.05	*65*	*56*	65.9333	69	79	10	4- 5.L00- 4A
106	Uruzgan	Hilmand	Upper Hilmand	Tirin	*32*	*58*	32.9667	*66*	*39*	66.65	70	80	10	4- 5.L00- 8A
107	Waras	Hilmand	Upper Hilmand	Panjab	*34*	*1*	34.0167	*66*	*55*	66.9167	69	79	10	4-13.R00- 4A
108	Yakhdan	Hilmand	Upper Hilmand	Kaj	*32*	*58*	32.9667	*65*	*30*	65.5	73	80	7	4- 6.R00- 1A

[17] Source, Government of Afghanistan, MIRWE, Hydrological Yearbooks.

Table 75
Hydrological Stations – Kabul (Indus) River Basin[18]

#	STATION NAME	RIVER BASIN	WATERSHED	RIVER	*LAT N (O)*	*LAT N (')*	LAT DD	*LON E (O)*	*LON E (')*	LON DD	YEAR INST.	LAST REC.	ACTIVE YEARS	CODE
109	Pul-i-Qarghai	Kabul (Indus)	Alingar	Laghman	*34*	*33*	34.55	*70*	*14*	70.2333	60	79	19	1- 6.L00- 1A
110	Band-i-Chak	Kabul (Indus)	Chak wa Logar Rod	Logar	*34*	*6*	34.1	*68*	*34*	68.5667	75	80	5	1-10.R00- 5A
111	Kajab	Kabul (Indus)	Chak wa Logar Rod	Logar	*34*	*14*	34.2333	*68*	*30*	68.5	63	79	16	1-10.R00- 6A
112	Sang-i-Naweshta	Kabul (Indus)	Chak wa Logar Rod	Logar	*34*	*26*	34.4333	*69*	*12*	69.2	61	80	19	1-10.R00- 1A
113	Shekhabad	Kabul (Indus)	Chak wa Logar Rod	Logar	*34*	*5*	34.0833	*68*	*45*	68.75	61	79	18	1-10.R00- 4A
114	Bagh-i-Lala	Kabul (Indus)	Ghorband wa Panjshir	Salang	*35*	*9*	35.15	*69*	*13*	69.2167	61	80	19	1- 8.21L- 1A
115	Gulbahar	Kabul (Indus)	Ghorband wa Panjshir	Panjsher	*35*	*10*	35.1667	*69*	*17*	69.2833	59	80	21	1- 8.L00- 5A
116	Gulbahar	Kabul (Indus)	Ghorband wa Panjshir	Shatul	*35*	*9*	35.15	*69*	*17*	69.2833	67	80	13	1- 8.3R0- 1A
117	Kharwar Dam Above	Kabul (Indus)	Ghorband wa Panjshir	Charkh	*33*	*43*	34.7167	*68*	*52*	68.8667	72	79	7	1-10.1R0- 6W
118	Kharwar Dam Below	Kabul (Indus)	Ghorband wa Panjshir	Charkh	*33*	*44*	34.7333	*68*	*52*	68.8667	72	79	7	1-10.1R0- 5W
119	Omraz	Kabul (Indus)	Ghorband wa Panjshir	Panjsher	*35*	*22*	35.3667	*69*	*38*	69.6333	62	80	18	1- 8.L00- 8A
120	Pul-i-Ashawa	Kabul (Indus)	Ghorband wa Panjshir	Ghorband	*35*	*5*	35.0833	*69*	*8*	69.1333	59	80	21	1- 8.2R0- 1A
121	Shukhi	Kabul (Indus)	Ghorband wa Panjshir	Panjsher	*34*	*56*	34.9333	*69*	*29*	69.4833	66	80	14	1- 8.L00- 3A
122	Tagab	Kabul (Indus)	Ghorband wa Panjshir	Tagab	*34*	*40*	34.6667	*69*	*41*	69.6833	68	79	11	1- 7.L00- 4A
123	Dakah	Kabul (Indus)	Kabul	Kabul	*34*	*14*	34.2333	*71*	*2*	71.0333	68	80	12	1- 0.000- 1M
124	Darunta	Kabul (Indus)	Kabul	Kabul	*34*	*28*	34.4667	*70*	*22*	70.3667	59	64	5	1- 0.000- 4S
125	Maidan	Kabul (Indus)	Kabul	Kabul	*34*	*19*	34.3167	*68*	*51*	68.85	61	80	19	1- 0.000- 9M
126	Naghlu	Kabul (Indus)	Kabul	Kabul	*34*	*37*	34.6167	*69*	*43*	69.7167	59	80	21	1- 0.0000- 5W
127	Pul-i-Sokhta	Kabul (Indus)	Kabul	Paghman	*34*	*30*	34.5	*69*	*8*	69.1333	63	80	17	1-11.L00- 1A
128	Qargha Above Reservoir	Kabul (Indus)	Kabul	Qargha	*34*	*34*	34.5667	*69*	*1*	69.0167	63	80	17	1-11.1L0- 5W
129	Qargha Below Reservoir	Kabul (Indus)	Kabul	Qargha	*34*	*33*	34.55	*69*	*2*	69.0333	64	80	16	1-11.1L0- 4W
130	Shaby	Kabul (Indus)	Kabul	Hazarnow	*34*	*6*	34.1	*70*	*22*	70.3667	76	79	3	1- 2.R00- 7T
131	Sultanpur	Kabul (Indus)	Kabul	Surkhurd	*34*	*25*	34.4167	*70*	*18*	70.3	68	80	12	1- 5.R00- 1A
132	Tangi Gharu	Kabul (Indus)	Kabul	Kabul	*34*	*34*	34.5667	*69*	*24*	69.4	59	80	21	1- 0.000- 6M
133	Tangi Saidan	Kabul (Indus)	Kabul	Kabul	*34*	*24*	34.4	*69*	*5*	69.0833	61	80	19	1- 0.000- 8M
134	Chaghasarai	Kabul (Indus)	Kunar	Pech	*34*	*54*	34.9	*71*	*8*	71.1333	60	79	19	1- 4.1R0- 1A
135	Konari	Kabul (Indus)	Kunar	Konar	*34*	*38*	34.6333	*70*	*49*	70.8167	59	67	8	1- 4.L00- 2T
136	Near Asmar	Kabul (Indus)	Kunar	Konar	*34*	*53*	34.8833	*71*	*10*	71.1667	60	71	11	1- 4.L00- 4T
137	Nowabad	Kabul (Indus)	Kunar	Konar	*34*	*49*	34.8167	*71*	*7*	71.1167	76	79	3	1- 4.L00- 3A
138	Pul-i-Gawerdesh	Kabul (Indus)	Kunar	Landaisin	*35*	*23*	35.3833	*71*	*32*	71.5333	75	78	3	1- 4.2R0- 1A
139	Pul-i-Kama	Kabul (Indus)	Kunar	Konar	*34*	*28*	34.4667	*70*	*33*	70.55	66	79	13	1- 4.L00- 1A

[18] Source, Government of Afghanistan, MIRWE, Hydrological Yearbooks.

Table 76
Hydrological Stations – Kabul (Indus) River Basin[19]

#	STATION NAME	RIVER BASIN	WATERSHED	RIVER	*LAT N (O)*	*LAT N (')*	LAT DD	*LON E (O)*	*LON E (')*	LON DD	YEAR INST.	LAST REC.	ACTIVE YEARS	CODE
140	Ahmadkhel	Kabul (Indus)	Shamal	Khurram	*33*	*50*	33.8333	*69*	*39*	69.65	67	80	13	2- 0.000- 6M
141	Chamkani	Kabul (Indus)	Shamal	Gaber	*33*	*45*	33.75	*69*	*48*	69.8	67	79	12	2- 6.R00- 1A
142	Chamkani	Kabul (Indus)	Shamal	Khurram	*33*	*48*	33.8	*69*	*48*	69.8	62	79	17	2- 0.000- 3M
143	Doda	Kabul (Indus)	Shamal	Khurram	*33*	*48*	33.8	*69*	*39*	69.65	72	79	7	2- 0.000- 5M
144	Domandi	Kabul (Indus)	Shamal	Shamal	*33*	*17*	33.2833	*69*	*35*	69.5833	63	65	2	2- 5.000- 8A
145	Kuzakala	Kabul (Indus)	Shamal	Torobo Khwa	*33*	*24*	33.4	*70*	*8*	70.1333	-	-	-	2- 5.1L0- 1W
146	Matun	Kabul (Indus)	Shamal	Matun	*33*	*23*	33.3833	*69*	*53*	69.8833	62	80	18	2- 5.3L0- 2A
147	Near Cherkota	Kabul (Indus)	Shamal	Shewina Khwa	*33*	*28*	33.4667	*70*	*10*	70.1667	-	-	-	2- 5.11L- 3W
148	Near Matun	Kabul (Indus)	Shamal	Badal Khwa	*33*	*23*	33.3833	*69*	*49*	69.8167	-	-	-	2- 5.51L- 7W
149	Near Matun	Kabul (Indus)	Shamal	Khuni	*33*	*24*	33.4	*69*	*59*	69.9833	-	-	-	2- 5.31L- 7W
150	Near Matun	Kabul (Indus)	Shamal	Ster Lgad	*33*	*20*	33.3333	*69*	*53*	69.8833	-	-	-	2- 5.5L0- 1W
151	Pirkoti	Kabul (Indus)	Shamal	Khurram	*32*	*55*	32.9167	*69*	*15*	69.25	70	78	8	2- 4.000- 5A
152	Pul-i-Bangakh	Kabul (Indus)	Shamal	Khurram	*33*	*48*	33.8	*69*	*53*	69.8833	62	79	17	2- 0.000- 1M
153	Spera	Kabul (Indus)	Shamal	Spera	*33*	*17*	33.2833	*69*	*35*	69.5833	67	79	12	2- 5.8R0- 1A
154	Toratigha	Kabul (Indus)	Shamal	Shamal	*33*	*22*	33.3667	*70*	*10*	70.1667	69	78	9	2- 5.000- 2A
155	Urgun	Kabul (Indus)	Shamal	Dahane Lag	*32*	*58*	32.9667	*69*	*9*	69.15	72	78	6	2-4.4L0- 2T

Table 77
Hydrological Stations – Northern River Basin[20]

#	STATION NAME	RIVER BASIN	WATERSHED	RIVER	*LAT N (O)*	*LAT N (')*	LAT DD	*LON E (O)*	*LON E (')*	LON DD	YEAR INST.	LAST REC.	ACTIVE YEARS	CODE
156	Band-i-Amir Above	Northern	Balkhab	Chakari	*34*	*25*	34.4167	*69*	*23*	69.3833	65	80	15	1- 9.R00- 5W
157	Band-i-Amir Below	Northern	Balkhab	Balkh	*34*	*49*	34.8167	*67*	*10*	67.1667	69	76	7	12- 0.000-10M
158	Kishindeh	Northern	Balkhab	Suf	*36*	*8*	36.1333	*66*	*57*	66.95	69	78	9	12- 1.R00- 1A
159	Near Nayak	Northern	Balkhab	Balkh	*34*	*45*	34.75	*67*	*0*	67	69	78	9	12- 0.000- 9M
160	Rabat-i-Bala	Northern	Balkhab	Balkh	*36*	*35*	36.5833	*66*	*58*	66.9667	64	78	14	12- 0.000- 1M
161	Sayad	Northern	Khulm	Khulm	*36*	*35*	36.5833	*67*	*47*	67.7833	64	78	14	13- 0.000- 2M
162	Tangi Tashqurghan	Northern	Khulm	Khulm	*36*	*40*	36.6667	*67*	*42*	67.7	69	78	9	13- 0.000- 1M
163	Asiabad	Northern	Sari Pul	Sare Pul	*36*	*12*	36.2	*65*	*57*	65.95	64	78	14	11- 0.000- 4M
164	Sare Pul	Northern	Sari Pul	Shorab	*36*	*11*	36.1833	*66*	*2*	66.0333	69	78	9	11- 1.R00- 1A
165	Daulatabad	Northern	Shirin Tagab	Shirin Tagab	*36*	*27*	36.45	*64*	*53*	64.8833	69	78	9	10- 0.000- 4M
166	Khisht Pul	Northern	Shirin Tagab	Shirin Tagab	*35*	*57*	35.95	*64*	*54*	64.9	66	78	12	10- 0.000- 6M
167	Pata Baba	Northern	Shirin Tagab	Maimana	*36*	*32*	36.5333	*64*	*53*	64.8833	67	72	5	10- 1.L00- 1T
168	Pata Baba	Northern	Shirin Tagab	Shirin Tagab	*36*	*35*	36.5833	*64*	*52*	64.8667	64	78	14	10- 0.000- 3M
169	Qaisar	Northern	Shirin Tagab	Qaisar	*35*	*42*	35.7	*64*	*18*	64.3	69	78	9	10- 1.1L0- 7A

[19] Source, Government of Afghanistan, MIRWE, Hydrological Yearbooks.
[20] Source, Government of Afghanistan, MIRWE, Hydrological Yearbooks.

2004 Basin Management Map - MIRWE

ANNEX III