

Table 3.3.1.1 Long-term Annual River Runoff at Major Gauging Stations

(Unit : MCM/Annum)

Year	Sefidrud at Manjil Dam	Taleghan at Galinak	Almout at Baghkalyeh	Shahrud at Loshan	Shahrud at Siahdasht	Kharrud at Rahimabad	Abharrud at Poletakestan	Hajiarab at Rostamabad	Kordan at Dehsomeeh	Karaj at Amirkabir Dam	Jajrud at Latian Dam
1946/47											222.92
47/48									71.65		257.89
48/49									130.13		552.76
49/50									91.50		388.70
1950/51									55.82		191.44
51/52									129.38		433.59
52/53									89.36		370.09
53/54									228.40		
54/55				1,244.23					124.66	448.21	288.37
55/56				1,319.97					184.33	653.79	390.35
56/57				1,264.76					157.40	483.70	315.41
57/58				986.00					156.41	460.43	277.29
58/59				1,405.42					122.13	477.48	310.75
59/60		205.71		481.11					31.47	243.35	137.39
1960/61		314.72		648.13					75.02	271.67	165.20
61/62		329.83		837.41					115.14	347.66	221.75
62/63		585.41		1,461.32					122.37	512.56	293.63
63/64		415.17	306.54	1,030.51	698.84	50.73	16.70	8.24	85.49	385.40	214.77
64/65		442.69	323.78	1,100.49	775.70	52.75	16.52	5.90	93.42	419.72	257.63
65/66		447.80	333.14	1,347.54	946.98	70.18	14.29	3.58	85.42	416.51	213.04
66/67		280.92	242.82	833.25	607.71	40.51	8.20	2.87	49.45	306.29	130.18
67/68		412.04	284.15	1,112.18	824.35	124.35	26.53	24.90	95.92	422.98	228.38
68/69		1,144.76	805.67	4,348.82	2,677.69	330.32	177.56	69.34	290.67	954.90	715.19
69/70	4,142.00	348.12	242.95	818.56	619.77	118.73	38.71	23.38	72.38	353.42	205.24
1970/71	3,460.03	441.47	276.21	1,160.93	794.73	127.13	27.93	15.07	80.58	425.36	235.41
71/72	6,894.05	578.32	407.09	1,710.37	1,141.80	247.08	57.55	81.57	110.27	516.24	369.08
72/73	4,389.00	434.91	331.99	1,148.05	813.84	197.07	41.46	49.63	123.75	448.98	308.54
73/74	5,505.01	335.87	263.65	952.66	664.98	211.90	52.80	34.74	90.84	330.63	270.75
74/75	3,741.93	408.30	330.51	1,052.14	723.76	161.40	45.39	40.32	117.34	411.93	278.02
75/76	4,594.04	409.02	361.84	959.21	691.84	144.64	59.92	38.70	127.90	435.88	353.83
76/77	3,311.95	266.44	186.42	580.71	435.70	120.23	49.79	49.89	41.93	280.43	216.89
77/78	3,456.39	345.92	438.31	889.80	646.94	141.64	35.36	22.70	116.64	408.97	334.03
78/79	4,459.30	461.51	394.46	1,233.56	831.41	82.24	33.40	21.96	144.90	486.67	338.56
79/80	3,998.37	358.84	334.52	1,001.34	652.09	203.00	77.41	40.53	101.73	393.48	267.61
1980/81	5,551.24	517.13	374.62	1,376.75	953.27	147.52	75.91	27.38	129.26	454.96	299.81
81/82	3,558.32	330.00	234.54	807.82	531.58	97.87	29.81	13.87	83.55	338.86	241.45
82/83	5,925.55	370.90	271.99	991.04	690.89	194.10	44.32	65.99	100.66	383.85	285.85
83/84	3,490.34	359.52	257.60	1,059.42	746.24	161.87	21.47	30.89	96.47	383.73	249.29
84/85	6,268.76	458.88	358.70	1,375.74	867.42	195.68	44.66	22.92	129.52	480.95	336.63
85/86	3,908.62	399.24	215.03	788.31	598.11	113.66	28.41	24.17	105.03	436.75	308.65
86/87	3,631.58	527.47	355.16	1,219.16	818.81	152.84	33.45	21.43	133.23	547.27	393.44
87/88	7,863.45	617.15	446.78	1,750.06	1,303.63	314.80	83.54	44.65	203.63	627.84	485.02
88/89	3,326.07	304.51	211.26	652.22	515.10	124.90	29.02	19.51	86.24	393.89	346.26
89/90	3,064.25	281.50	240.85	709.34	444.75	84.92	6.44	9.50	64.46	309.98	243.28
1990/91	3,125.04	261.23	188.10	637.43	451.21	82.79	10.53	7.80	85.15	297.56	272.20
91/92	6,738.79	553.63	345.70	1,668.70	1,098.76	266.91	51.83	67.49	188.09	618.07	474.48
92/93	4,557.82	354.24	234.16	772.45	540.83	116.67	16.84	22.23	114.87	471.24	409.80
93/94	7,432.37	543.30	429.79	1,271.90	1,010.30	151.26			163.93	523.71	294.21
94/95	6,431.56	560.62	366.60	1,195.36	1,039.78	292.12			241.60	559.60	436.17
95/96	5,336.69	440.47	339.03	1,167.65	866.85	356.66			145.46	489.37	481.60
96/97	2,597.28	307.21	211.92	455.77	403.75					289.60	
97/98	4,265.44	487.92	284.14	673.19	674.47					452.80	
98/99	1,174.01	197.40	127.41	245.65	169.17						
Mean	4,539.98	421.00	315.48	1,105.48	785.36	159.95	41.86	30.37	118.06	439.92	312.51
Maximum	7,863.45	1,144.76	805.67	4,348.82	2,677.69	356.66	177.56	81.57	290.67	954.90	715.19
Minimum	1,174.01	197.40	127.41	245.65	169.17	40.51	6.44	2.87	31.47	243.35	130.18

Table 3.3.1.2 Annual Runoff Observed (or Estimated) at hydrological Gauging Stations (1-14)

Year	1-3-5-01	1-3-5-10	1-3-6-01	1-3-6-07	1-3-6-10	1-3-6-11	1-3-6-14	1-3-6-15	7-1-1-11	7-1-1-12
30-31	1,878.8									
31-32	4,377.1									
32-33	3,549.1									
33-34	7,395.5									
34-35	2,708.7									
35-36	6,195.6									
36-37	5,782.8									
37-38	3,429.5									
38-39	3,966.8									
39-40	1,800.9	230.4								
40-41	2,210.3	352.5								
41-42	1,262.6	364.0								
42-43	4,140.9	655.7								
43-44	6,972.6	6,304.8	462.0							
44-45	3,822.5	3,001.1	495.8							
45-46	3,679.3	3,352.1	501.5							
46-47	3,478.5	2,953.1	314.7							
47-48	4,744.8	4,181.8	465.4							
48-49	13,917.3	9,842.3	1,282.1							
49-50	4,298.0	4,797.7	389.9							
50-51	3,595.4	3,488.5	494.4							
51-52	6,037.3	5,936.1	647.7							
52-53	4,662.3	4,450.2	487.0							
53-54	5,588.4	5,692.3	379.1							
54-55	4,071.0	4,168.7	457.3							
55-56	4,856.9	4,688.3	458.1							
56-57	3,165.6	3,278.6	298.4							
57-58	3,994.6	3,157.0	387.4							
58-59	4,312.0	4,199.2	516.9							
59-60	4,312.0	4,199.2	516.9							
60-61	5,843.2	5,446.6	579.2							
61-62	3,659.4	3,325.4	374.2							
62-63	6,163.8	5,866.7	415.4							
63-64	3,641.5	3,751.1	402.7							
64-65	6,497.8	6,163.6	518.9							
65-66	4,065.9	4,068.6	447.1							
66-67	3,761.0	3,837.2	390.8							
67-68	8,189.5	8,172.2	691.2							
68-69	3,476.1	3,600.6	341.1							
69-70	3,190.8	3,495.2	315.2							
70-71	3,211.8	3,097.0	392.8							
71-72	6,989.2	5,993.8	619.2							
72-73	4,708.1	4,300.6	396.4							
73-74	7,776.0	6,082.2	199.4							
74-75	6,610.1	6,256.6	248.4							
75-76	5,501.2	492.2								
76-77										
77-78										
78-79										
79-80										
80-81										
81-82										
82-83										
83-84										
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96-97										
97-98										
All Period	4,983.2	4,525.1	480.5	1,379.9	428.3	325.3	1,151.7	448.5	815.6	17.2
63-64-72-73	5,609.8	4,810.8	553.7	494.6	355.4	1,461.1	532.3	990.1	17.3	44.0
73-74-83-83	4,562.7	4,417.3	429.9	164.5	380.4	319.1	984.5	405.8	682.2	16.9
83-84-92-93	4,777.2	4,708.0	461.5	140.8	411.7	285.3	1,063.3	433.8	738.5	16.2
after 92-93	6,629.1	5,755.3	314.8	378.5	1,211.6	433.8	935.0	21.0		
63-64-92-93	4,983.2	4,652.0	481.7	1,272.7	428.9	320.0	1,169.6	439.0	803.6	16.8

Measurement

Table 3.3.1.2 Annual Runoff Observed (or Estimated) at hydrological Gauging Stations (2-4)

Year	7-1-1-14	7-1-1-15	7-1-1-16	7-1-1-17	7-1-1-18	7-1-1-19	7-1-1-20	7-1-1-21	7-1-1-22	7-1-1-23	7-1-1-24
30-31											
31-32											
32-33											
33-34											
34-35											
35-36											
36-37											
37-38											
38-39											
39-40											
40-41											
41-42											
42-43											
43-44	46.1	9.2	12.4	30.7	3.7	31.4	16.7	2.9	6.9	8.2	3.5
44-45	47.9	9.6	13.4	52.8	5.6	32.6	16.5	2.6	7.3	5.9	3.7
45-46	60.4	7.8	12.5	70.2	2.1	28.6	14.3	2.9	5.2	3.6	2.4
46-47	46.7	9.0	13.2	40.5	2.5	21.8	8.2	2.5	6.8	2.9	1.6
47-48	66.5	24.0	21.3	124.4	14.4	39.8	26.5	16.5	28.5	24.9	2.6
48-49	171.3	55.0	33.0	330.3	169.2	171.1	177.6	17.4	61.2	69.3	12.7
49-50	90.0	15.9	21.6	118.7	6.3	54.7	38.7	3.9	18.5	23.4	3.2
50-51	93.5	18.8	18.6	127.1	12.8	46.7	27.9	5.9	20.4	15.1	3.0
51-52	149.0	42.7	30.3	247.1	51.3	79.1	57.6	19.0	51.7	81.6	8.1
52-53	103.5	15.5	26.7	197.1	16.4	65.1	41.5	15.9	40.4	49.6	3.2
53-54	116.5	30.7	20.9	211.9	36.4	89.1	52.8	9.7	27.8	34.7	8.0
54-55	113.4	34.9	23.5	161.4	28.8	61.5	45.4	9.9	30.4	40.3	3.4
55-56	110.5	31.6	24.3	144.6	28.2	63.2	59.9	11.4	25.9	38.7	4.2
56-57	77.6	60.0	35.1	120.2	50.6	40.2	49.8	12.7	37.6	49.9	3.5
57-58	81.0	20.5	21.1	141.6	30.3	45.2	35.4	5.7	15.8	22.7	4.0
58-59	70.2	27.7	24.3	82.2	19.2	50.6	33.4	6.7	14.1	22.0	3.9
59-60	107.8	22.5	26.0	203.0	81.1	92.1	77.4	12.5	30.0	40.5	7.9
60-61	110.5	19.2	18.3	147.5	26.7	91.5	75.9	6.8	16.4	27.4	3.4
61-62	87.6	16.4	16.8	97.9	9.6	49.7	29.8	7.3	13.2	13.9	2.8
62-63	124.2	29.2	34.8	194.1	38.3	61.2	44.3	13.9	40.4	66.0	4.5
63-64	125.4	27.2	23.1	161.9	42.9	36.9	21.5	5.4	22.5	30.9	5.5
64-65	132.5	27.0	28.3	195.7	34.8	66.3	44.7	8.6	19.6	22.9	6.7
65-66	83.6	18.5	19.8	113.7	13.7	40.1	28.4	6.4	19.5	24.2	3.3
66-67	98.7	21.8	16.5	152.8	10.9	47.2	33.5	6.9	18.8	21.4	7.0
67-68	192.2	40.6	34.5	314.8	72.5	96.2	83.5	12.3	36.3	44.7	8.0
68-69	95.6	16.8	14.5	124.9	17.5	42.7	29.0	6.4	17.7	19.5	3.2
69-70	72.1	13.8	10.5	84.9	6.3	21.1	6.4	3.5	8.6	9.5	3.5
70-71	73.5	11.1	14.6	82.8	10.9	24.8	10.5	3.1	6.9	7.8	2.1
71-72	151.1	45.8	35.0	266.9	43.4	64.7	51.8	13.5	42.3	67.5	9.1
72-73	85.8	22.4	23.3	116.7	13.4	31.1	16.8	7.2	20.3	22.2	
73-74	119.5	24.2		151.3	1.5	88.6			17.8		
74-75	196.0			292.1	41.4	88.8			30.1		
75-76	221.2	45.0		356.7	95.1	148.2			68.1		
76-77											
77-78											
All Period	106.7	25.4	22.3	160.0	29.7	61.0	41.9	8.6	25.1	30.4	4.6
63-64-72-73	87.5	20.7	20.3	135.9	22.4	57.1	42.5	8.9	24.7	28.4	4.4
73-74-83-83	99.9	29.3	24.5	150.5	34.9	64.4	50.4	9.7	25.2	35.6	4.6
83-84-92-93	111.0	34.5	22.0	161.5	26.6	47.1	32.6	7.3	21.2	27.1	4.9
after 92-93	178.9	34.6	26.6	266.7	46.7	108.5			38.7		
63-64-92-93	99.5	24.8	22.3	149.3	28.0	56.2	41.9	8.6	23.7	30.4	4.6

Table 3.3.1.2 Annual Runoff Observed (or Estimated) at hydrological Gauging Stations (2/4)

Year	7-1-1-25	7-1-1-26	7-1-1-27	7-1-1-28	7-1-1-29	7-1-1-30	7-1-1-31	7-1-1-32	7-1-1-33	7-1-1-34	7-1-1-35	7-1-1-37
5051	10.3	13.2	4.8	4.2	5.2	5.6	5.7	2.8	7.8	5.1	19.7	
5152	9.2	13.6	4.9	4.2	6.5	6.0	6.1	3.1	8.6	5.4	17.3	
5253	6.1	9.4	2.7	2.3	4.3	4.0	7.4	2.4	6.7	5.1	20.3	
5354	3.5	4.4	1.4	0.9	0.8	1.2	1.9	1.6	5.4	2.8	17.8	
5455	7.2	8.0	2.5	2.3	5.3	4.5	5.0	3.6	8.3	5.6	18.2	
5556	34.0	35.9	16.0	16.5	27.9	18.6	40.3	11.0	24.5	16.9	5.2	
5657	6.1	7.2	2.3	2.7	3.8	2.7	4.4	1.9	8.3	4.3	20.3	
5758	13.5	15.5	5.5	8.3	7.0	8.3	9.2	3.5	12.9	6.0	17.8	
5859	13.5	19.3	8.9	7.4	13.0	8.0	10.2	4.2	10.1	8.1	16.1	
5960	10.1	14.0	6.2	4.1	10.7	5.8	10.5	4.7	10.3	6.6	6.0	
6061	19.3	16.9	5.3	3.8	6.7	4.5	5.2	2.1	9.3	6.0	18.7	
6162	12.0	18.4	7.3	5.2	8.1	8.7	10.7	5.9	10.8	12.2	5.2	
6263	12.3	10.7	6.2	3.2	6.1	8.8	3.4	6.6	9.0	11.4	23.7	
6364	9.7	12.1	4.5	2.3	9.5	13.5	5.5	5.7	7.0	9.5	22.2	
6465	13.6	16.2	6.1	4.3	6.6	12.3	2.9	2.8	9.7	7.6	15.3	
6566	12.3	13.9	7.7	6.8	9.4	9.8	5.4	5.2	8.9	8.7	27.8	
6667	16.4	25.5	9.3	5.9	8.2	9.1	5.8	2.9	11.6	5.0	25.0	
6768	20.1	18.2	5.4	3.6	11.2	7.3	6.1	3.7	11.6	6.8	26.5	
6869	8.6	10.0	3.5	3.7	7.3	9.7	5.4	1.1	6.7	3.3	20.9	
6970	9.7	13.3	3.5	2.9	6.5	6.0	4.7	3.0	9.4	6.3	19.0	
7071	20.3	13.9	4.8	4.1	7.1	6.0	5.6	2.4	10.2	3.5	24.6	
7172	16.8	20.2	6.1	6.1	10.6	11.0	8.7	3.7	12.4	5.8	24.2	
7273	8.5	11.6	4.1	1.7	1.7	4.6	4.6	2.0	12.1	6.1	26.2	
7374	16.9	23.1	6.9	6.7	12.7	9.3	9.4	5.1	15.3	7.6	22.1	
7475	14.3	26.6	7.2	6.2	14.5	10.3	8.4	6.1	17.5	8.6	18.4	
7576	11.3	10.7	4.7	4.5	6.0	6.0	6.9	3.5	11.7	6.1	15.8	
7677	4.9	11.2	5.3	4.7	6.3	7.0	6.7	3.2	10.8	5.8	19.9	
7778	3.1	13.7	3.8	3.1	7.5	3.9	3.7	3.9	12.2	6.1	20.0	
7879	17.8	31.3	10.3	8.8	14.1	13.4	4.7	4.7	17.3	9.6	15.9	
7980	8.6	12.1	4.2	3.6	5.0	5.4	5.4	2.2	10.9	6.6	20.1	
8081	162.8	18.0			9.5					18.0		
8182	30.1				15.1					16.1		
8283	33.9				20.3					15.7		
8384												
8485												
8586												
8687												
8788												
8889												
8990												
9091												
9192												
9293												
9394												
9495												
9596												
9697												
9798												
All Period	17.2	16.7	5.7	4.8	8.2	8.4	7.6	3.8	10.9	7.0	18.8	
63/64-72/73	11.3	14.0	5.5	5.3	8.4	6.5	10.1	3.9	10.3	6.6	15.9	
73/74-82/83	13.4	15.5	5.9	4.2	8.0	9.0	5.3	3.9	9.4	7.7	20.4	
83/84-92/93	12.2	17.4	5.7	4.9	8.3	7.7	7.3	3.7	13.1	6.6	20.7	
after 92/93	162.8	27.3			15.0						16.6	
63/64-92/93	12.3	15.7	5.7	4.8	8.2	7.7	7.6	3.8	10.9	7.0	19.0	

Table 3.3.1.2 Annual Runoff Observed (or Estimated) at hydrological Gauging Stations (4/4)

Year	7-1-1-38	7-1-1-40	7-1-1-42	7-1-1-43	7-1-2-02	7-1-2-04	7-1-2-05	7-1-2-13	7-1-2-14	7-1-2-46
50:51	55.8				191.4				299.9	191.4
51:52	129.4				433.6				790.2	433.6
52:53	89.4				370.1				686.1	370.1
53:54	228.4								1082.6	550.3
54:55	124.7				448.2				398.8	439.7
55:56	184.3				653.8				584.3	768.6
56:57	157.4				483.7				430.3	794.8
57:58	156.4				469.4				409.6	482.7
58:59	122.1				477.5				424.8	486.5
59:60	31.5				243.4				216.5	233.9
60:61	75.0				271.7				241.7	244.4
61:62	115.1				347.7				309.3	299.1
62:63	122.4				512.6				456.0	513.4
63:64	85.5	20.4			385.4	50.6			367.5	411.8
64:65	93.4	24.1			419.7	63.2			390.9	465.4
65:66	85.4	9.1			416.5	83.1			397.8	446.0
66:67	49.5	8.5			306.3	159.2			281.5	344.3
67:68	95.9	35.7			423.0	126.0			412.8	437.0
68:69	296.7	440.4			954.9	715.2	19.2		852.6	1023.4
69:70	72.4	21.8			353.4	205.2	33.6		315.6	405.1
70:71	80.6	17.2			425.4	235.4	57.4		410.0	449.0
71:72	110.3	81.8			516.2	369.1	178.1		463.3	578.3
72:73	125.8	43.2			449.0	308.5	66.4		389.0	539.4
73:74	90.8	50.3			339.6	270.8	175.2		395.2	368.1
74:75	117.3	48.3			411.9	278.0	102.0		367.8	470.8
75:76	127.9	22.3	2.1		435.9	353.8	111.0		410.8	475.2
76:77	41.9	29.3	3.2		280.4	216.9	117.7		108.2	250.4
77:78	116.6	31.8	3.1		409.0	334.0	230.2		349.6	500.7
78:79	144.9	31.3	2.3		486.7	338.6	244.5		418.1	586.2
79:80	101.7	92.8	3.6		393.5	267.6	277.9		344.9	466.4
80:81	129.3	10.9	1.6		455.0	299.8	368.7		133.8	406.3
81:82	83.6	19.2	1.4		338.9	241.5	278.3		139.3	291.4
82:83	100.7	67.4	10.3		383.9	285.9	386.9		137.8	342.7
83:84	96.5	22.5	2.7		383.7	249.3	169.3		342.6	450.2
84:85	129.5	80.5	1.1		481.0	336.6	319.4		169.7	429.4
85:86	105.0	17.3	3.8		436.8	308.7	287.5		184.0	390.0
86:87	133.2	30.7	2.1		547.3	393.4	299.4		198.4	513.2
87:88	205.6	115.3	1.3		627.8	485.0	309.5		221.1	560.6
88:89	86.2	50.2	1.1		393.9	346.3	324.2		235.2	355.8
89:90	64.5	16.7	1.0		310.0	243.3	297.1		228.8	281.1
90:91	85.2	19.6	0.8		297.6	272.2	299.7		232.5	254.9
91:92	188.1	73.6			618.1	474.5	331.4		222.3	571.2
92:93	114.9	10.4			471.2	409.8	331.7		284.0	420.7
93:94	163.9	19.6	0.6		573.7	294.2	333.5		281.4	468.1
94:95	241.6		0.8		559.6	436.2	338.8		283.9	510.9
95:96	145.5	268.4	1.0		489.4	481.6	317.4		289.1	418.4
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Table 3.3.1.3(1) Monthly River Runoff (Taleghan River at Kumakan)

(unit = MCM)

Code = 1-3-6-01 River = Taleghan Station = Kumakan Long = 50-41 Lat = 36-11 Elev = 1,700m C.A = 960sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
59-60	12.49	9.28	12.78	6.97	6.09	10.16	24.29	78.91	42.29	13.94	7.79	5.41	230.42
60-61	4.92	12.49	8.24	10.34	8.22	8.06	30.41	140.99	58.50	22.94	20.28	7.10	352.49
61-62	5.88	7.83	8.01	10.60	13.94	12.42	37.50	113.70	95.99	28.30	19.18	10.61	363.96
62-63	11.30	13.17	10.81	11.22	16.74	20.53	68.70	160.49	208.78	87.38	31.79	14.73	655.65
63-64	11.15	13.71	12.60	12.29	11.66	27.32	82.79	157.49	88.49	23.95	11.57	9.03	462.04
64-65	7.67	8.19	8.76	8.63	10.89	35.12	58.50	161.08	131.40	38.62	16.10	10.85	495.81
65-66	21.33	25.87	14.05	12.05	16.28	32.81	57.59	154.78	101.99	36.86	17.65	10.26	501.53
66-67	15.97	15.58	10.68	11.28	10.34	15.24	30.91	77.08	86.41	23.12	9.32	8.73	314.65
67-68	7.83	8.42	8.99	7.83	8.99	25.25	58.79	101.08	138.58	64.15	19.20	12.29	461.42
68-69	10.34	29.00	24.65	21.02	18.30	73.15	247.78	398.97	261.28	121.05	48.91	27.69	1,282.14
69-70	24.39	38.62	17.86	16.28	15.81	20.27	76.20	68.41	64.50	23.87	14.06	9.67	389.93
70-71	9.05	8.68	9.75	10.96	10.16	24.88	67.50	166.19	119.99	40.36	16.61	10.29	494.41
71-72	17.94	13.09	15.97	10.73	10.78	20.84	83.41	158.40	185.69	86.21	28.82	15.83	647.70
72-73	13.45	22.06	15.53	14.33	16.51	36.86	61.50	129.58	107.99	38.02	17.60	13.61	487.04
73-74	8.97	11.07	10.99	8.79	9.05	24.44	75.00	90.58	78.58	32.81	11.95	16.90	379.13
74-75	10.63	9.18	8.79	9.12	7.78	18.25	84.91	130.20	109.79	40.64	16.66	11.36	457.29
75-76	10.11	9.64	10.73	11.12	12.00	13.87	74.41	117.29	111.58	53.99	21.24	12.11	458.08
76-77	9.95	10.96	11.56	11.35	9.75	23.87	37.79	59.70	82.20	23.51	10.98	6.78	298.41
77-78	9.77	17.99	14.77	13.89	13.89	27.55	71.41	87.91	73.20	31.65	14.28	11.09	387.40
78-79	9.49	11.40	15.71	13.48	15.81	21.36	107.08	120.90	116.99	49.64	22.50	12.51	516.87
79-80	11.15	15.03	10.42	9.72	9.72	15.06	108.58	98.08	101.40	29.32	15.80	8.52	432.80
80-81	10.01	20.01	14.52	13.04	15.89	31.36	80.41	157.20	125.08	74.91	24.00	12.80	579.21
81-82	15.16	13.22	11.35	9.67	10.50	16.61	77.70	116.40	56.70	25.22	13.18	8.44	374.16
82-83	21.98	19.10	15.66	12.49	12.18	17.94	49.20	120.58	87.58	31.36	15.53	11.78	415.40
83-84	10.08	11.38	16.74	11.40	14.05	22.91	59.09	94.49	96.29	37.74	16.90	11.57	402.65
84-85	15.24	18.17	25.66	17.31	22.65	29.32	95.99	118.20	94.49	39.48	22.74	19.61	518.86
85-86	10.11	11.15	15.06	13.82	13.87	26.59	53.09	124.17	107.75	41.71	19.07	10.74	447.11
86-87	10.89	13.45	12.49	13.40	18.58	31.99	91.68	185.51	123.69	50.80	25.98	12.32	590.78
87-88	16.38	36.96	22.24	23.85	20.84	36.78	109.98	193.97	120.58	62.67	28.52	18.45	691.23
88-89	15.47	15.76	14.72	13.06	13.53	25.95	68.17	76.50	53.51	22.94	13.26	8.20	341.06
89-90	8.29	9.02	10.01	10.26	11.17	23.46	48.75	94.09	55.52	24.11	12.08	8.46	315.22
90-91	8.48	13.94	8.79	8.16	9.38	16.28	63.21	76.07	49.55	21.46	10.02	7.50	292.84
91-92	8.74	9.85	10.63	10.11	8.35	15.94	72.58	149.99	187.49	96.16	33.48	15.88	619.20
92-93	14.07	13.87	12.26	11.33	11.77	18.04	62.41	86.24	90.53	38.36	26.52	10.98	396.38
93-94	10.99	22.68	25.19	28.51	19.83	29.86	97.76	162.04	114.37	53.40	24.83	18.75	608.21
94-95	14.93	46.92	62.73	26.85	25.27	32.94	77.14	131.51	114.37	54.17	24.78	13.95	625.56
95-96	13.09	14.28	9.95	8.50	12.52	20.84	79.01	162.85	102.58	41.99	14.95	11.60	492.16
Mean	12.10	16.24	14.86	12.80	13.33	24.44	74.36	130.31	106.64	43.97	19.41	12.06	480.52
Maximum	24.39	46.92	62.73	28.51	25.27	73.15	247.78	398.97	261.28	121.05	48.91	27.69	1,282.14
Minimum	4.92	7.83	8.01	6.97	6.09	8.06	24.29	59.70	42.29	13.94	7.79	5.41	230.42

Table 3.3.1.3(2) Monthly River Runoff (Taleghan River at Ziaran Tunnel)

(unit = MCM)

Code = 1-3-6-07 River = Taleghan Station = Ziaran Tunnel Long = 50-41 Lat = 36-11 Elev = 1,700m C.A = -sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
77-78	5.96	2.83	0.00	0.00	0.00	0.00	1.69	16.79	16.18	14.00	10.55	7.37	75.36
78-79	6.35	4.46	0.00	0.00	0.00	0.00	0.00	16.98	22.23	15.37	14.89	9.48	89.76
79-80	8.55	9.31	7.18	0.00	0.00	0.00	0.00	23.54	29.73	15.86	8.81	5.73	108.72
80-81	5.83	7.62	6.14	1.97	0.00	0.00	1.71	27.05	30.67	17.96	16.47	10.42	125.85
81-82	9.31	9.33	5.37	4.04	0.00	0.00	0.00	24.16	30.40	17.70	8.97	6.54	115.82
82-83	5.96	6.14	2.90	0.00	0.00	0.00	0.00	31.79	27.61	19.39	10.58	6.94	111.32
83-84	5.88	6.19	3.78	0.00	0.00	0.00	4.77	27.45	30.64	19.39	10.95	6.54	115.60
84-85	5.99	7.98	3.01	0.00	0.00	0.00	3.99	27.86	42.05	23.22	12.00	8.01	134.11
85-86	7.00	7.00	7.98	3.99	3.01	0.00	11.01	27.05	42.05	19.36	12.00	6.99	147.44
86-87	7.00	8.99	5.99	0.00	0.00	0.00	3.99	40.98	42.85	19.36	13.98	8.01	151.16
87-88	5.99	3.99	2.00	0.00	0.00	0.00	9.00	38.03	53.84	30.97	23.01	9.99	176.82
88-89	10.01	10.99	7.00	0.00	0.00	0.00	3.99	50.89	40.98	17.42	8.01	5.01	154.29
89-90	5.99	7.98	3.01	0.00	0.00	0.00	9.99	40.98	39.10	13.56	6.99	5.01	132.61
90-91	5.00	7.00	7.00	0.00	0.00	0.00	3.00	45.00	39.00	14.52	6.99	5.01	132.51
91-92	5.99	7.00	3.99	0.00	0.00	0.00	0.70	20.01	30.29	24.21	16.31	11.60	120.09
92-93	7.10	8.89	4.69	0.00	0.00	0.00	5.70	42.90	31.40	22.90	11.00	6.40	143.05
93-94	6.10	5.80	2.90	7.80	13.80	6.40	35.30	66.30	69.30	29.60	11.90	6.90	199.39
94-95	11.30	6.30	0.00	11.40	22.30	22.70	24.00	52.50	58.90	28.70	14.50	8.70	248.44
95-96	9.90	0.70	4.90	2.50	3.60	5.20	4.20	33.10	66.60	31.10	10.30	7.40	179.50
96-97	6.50	7.70	7.10	0.00	0.00	6.50	17.00	53.10	51.10	21.00	8.40	5.70	184.10
97-98	6.30	9.30	8.60	4.90	0.00	0.60	20.20	50.80	57.50	35.50	13.00	9.20	217.90
98-99	9.30	9.80	10.20	5.80	0.00	12.00	24.90	41.10	24.20	10.70	4.50	3.00	155.50
Mean	7.15	7.06	4.72	1.93	1.94	2.43	8.42	36.29	39.85	20.99	11.64	7.27	146.33
Maximum	11.30	10.99	10.20	11.40	22.30	22.70	35.30	66.30	69.30	35.50	23.01	11.60	248.44
Minimum	5.00	0.70	0.00	0.00	0.00	0.00	0.00	16.79	16.18	10.70	4.50	3.00	75.36

Table 3.3.1.3(3) Monthly River Runoff (Taleghan River at Galinak)

(unit = MCM)

Code = 1-3-6-10 River = Taleghan Station = Galinak Long = 50-46 Lat = 36-10 Elev = 1,800m C.A = 775sq.km													
Year	MEHR	ABAN	AZAR	DAY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHA	ANNUAL
59-60	11.15	8.29	11.40	6.22	5.44	9.07	21.70	70.44	37.77	12.44	6.96	4.82	205.71
60-61	4.41	11.15	7.36	9.23	7.34	7.21	45.00	125.88	52.23	20.48	18.11	6.35	314.72
61-62	5.26	7.00	7.15	9.46	12.44	11.09	33.48	106.36	85.71	25.27	17.11	9.48	329.83
62-63	10.08	11.77	9.64	10.03	14.96	18.33	61.34	143.29	186.42	78.02	28.39	13.15	585.41
63-64	9.95	12.23	11.25	10.96	10.42	24.39	76.55	140.62	79.01	21.38	10.34	8.06	415.17
64-65	6.84	7.31	7.83	7.70	9.72	31.36	52.23	143.83	117.31	34.47	14.38	9.70	442.69
65-66	19.05	23.09	12.55	10.76	14.54	29.29	51.43	138.21	91.07	32.92	15.75	9.16	447.80
66-67	14.26	13.92	9.54	10.06	9.23	13.61	27.59	68.83	77.14	20.63	8.33	7.79	280.92
67-68	7.00	7.52	8.04	7.00	8.04	22.55	52.50	90.26	123.74	57.28	17.14	10.98	412.04
68-69	9.23	25.89	22.01	18.77	16.33	65.32	221.24	356.23	233.29	108.09	43.66	24.72	1,144.76
69-70	21.77	34.47	15.94	14.54	14.13	18.09	68.03	61.07	57.59	21.31	12.56	8.62	348.12
70-71	8.09	7.75	8.71	9.80	9.07	22.21	60.26	148.38	107.14	36.03	14.84	9.19	441.47
71-72	16.02	11.69	14.26	9.59	9.62	18.61	74.46	141.42	165.79	76.98	25.74	14.14	578.32
72-73	12.00	19.70	13.87	12.80	14.75	32.92	54.91	115.71	96.42	33.96	15.72	12.16	434.91
73-74	8.01	9.88	9.82	7.85	8.09	21.82	66.96	80.89	67.52	29.29	10.66	15.08	335.87
74-75	9.49	8.19	7.85	8.14	6.95	16.30	75.80	116.24	98.03	36.29	14.87	10.15	408.30
75-76	9.02	8.61	9.59	9.93	10.70	12.39	66.42	104.73	99.64	48.21	18.96	10.82	409.02
76-77	8.89	9.80	10.32	10.13	8.71	21.31	33.75	53.30	73.39	21.00	9.80	6.05	266.44
77-78	8.74	16.07	13.19	12.42	12.42	24.60	63.75	78.48	65.35	28.25	12.75	9.91	345.92
78-79	8.48	10.19	14.02	12.03	14.13	19.08	95.62	107.94	104.46	44.32	20.09	11.17	461.51
79-80	9.95	13.43	9.31	8.68	8.68	13.45	96.96	87.58	62.89	26.18	14.12	7.61	358.84
80-81	8.94	17.86	12.96	11.64	14.18	27.99	71.78	140.35	111.69	66.87	21.43	11.44	517.13
81-82	13.53	11.79	10.13	8.63	9.38	14.83	69.37	99.90	50.62	22.52	11.76	7.53	330.00
82-83	19.62	17.06	13.97	11.15	10.89	16.02	43.93	107.67	78.21	27.99	13.87	10.53	370.90
83-84	8.99	10.16	14.96	10.19	12.55	20.45	52.76	84.37	85.98	33.70	15.08	10.34	359.52
84-85	13.61	16.23	22.91	15.45	20.22	23.61	83.57	107.56	84.37	38.52	18.05	14.78	458.88
85-86	9.02	9.95	13.45	12.34	12.39	23.74	47.41	110.86	96.21	37.25	17.03	9.59	399.24
86-87	9.72	12.00	11.15	11.98	16.59	28.56	81.85	165.63	110.43	45.36	23.19	11.01	527.47
87-88	14.62	33.00	19.85	21.28	18.61	32.84	98.19	173.19	107.67	55.96	25.47	16.47	617.15
88-89	13.82	14.07	13.14	11.66	12.08	23.17	60.85	68.30	47.78	20.48	11.84	7.31	304.51
89-90	7.41	8.06	8.94	9.18	9.98	20.94	43.52	84.02	49.58	21.51	10.79	7.55	281.50
90-91	7.57	12.44	7.70	7.28	8.37	14.54	56.38	67.98	44.14	19.15	8.95	6.72	261.23
91-92	7.80	8.79	9.49	9.10	7.46	14.23	64.87	134.13	167.59	85.95	30.02	14.20	553.63
92-93	12.55	12.39	10.96	10.11	10.50	16.12	55.71	77.08	80.99	34.34	23.70	9.78	354.24
93-94	9.82	20.24	22.50	25.48	17.50	26.67	87.42	144.71	102.26	47.74	22.18	16.77	543.30
94-95	13.35	42.20	56.14	23.98	22.58	30.97	68.78	117.55	102.07	48.42	22.12	12.45	560.62
95-96	11.69	12.75	8.89	7.59	11.17	18.61	71.38	145.46	91.65	37.56	13.34	10.37	440.47
Mean	10.80	14.51	13.26	11.44	11.90	21.79	66.43	116.44	94.41	39.35	17.27	10.70	428.31
Maximum	21.77	42.20	56.14	25.48	22.58	65.32	221.24	356.23	233.29	108.09	43.66	24.72	1,144.76
Minimum	4.41	7.00	7.15	6.22	5.44	7.21	21.70	53.30	37.77	12.44	6.96	4.82	205.71

Table 3.3.1.3(4) Monthly River Runoff (Almout River at Baghkalyeh)

(unit = MCM)

Code = 1-3-6-11 River = Almout Station = Baghkalyeh Long = 50-28 Lat = 36-26 Elev = 1,150m C.A = 678sq.km													
Year	MEHR	ABAN	AZAR	DAY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHA	ANNUAL
63-64	10.45	11.95	11.07	11.51	10.89	22.47	48.72	87.61	54.13	17.31	11.09	9.35	306.54
64-65	8.42	8.63	8.50	8.45	10.08	31.52	31.79	89.11	75.77	26.90	14.06	10.53	323.78
65-66	16.38	19.28	12.05	11.30	15.63	28.82	31.26	86.51	60.93	25.76	15.08	10.12	333.14
66-67	14.52	12.18	7.00	4.92	2.59	5.96	18.75	81.96	50.09	20.48	13.12	11.25	242.82
67-68	12.70	13.48	16.33	17.37	16.59	19.18	24.11	40.18	61.60	33.70	15.80	13.12	284.15
68-69	11.15	23.85	21.77	17.37	19.18	85.54	140.08	192.31	149.99	86.05	36.16	22.23	805.67
69-70	19.18	24.88	17.63	15.03	15.55	18.14	31.34	29.19	32.41	17.63	12.86	9.11	242.95
70-71	9.33	9.07	10.11	9.85	10.11	18.92	35.35	68.03	53.03	26.96	15.80	9.64	276.21
71-72	14.41	11.59	13.32	10.21	9.98	14.98	47.22	87.99	103.15	58.11	22.44	13.69	407.09
72-73	11.79	17.00	13.04	13.25	15.86	33.54	33.64	76.04	63.96	26.54	15.05	12.27	331.99
73-74	9.18	10.37	10.01	8.58	8.22	19.15	41.94	59.84	47.62	23.09	11.33	14.33	263.65
74-75	12.86	7.96	7.15	7.41	6.58	12.03	57.05	102.58	66.96	23.33	17.30	9.29	330.51
75-76	13.53	14.49	16.28	15.09	14.05	15.22	52.76	93.74	66.96	25.92	20.70	13.10	361.84
76-77	5.18	6.14	5.18	6.48	18.25	14.80	15.45	34.82	48.21	15.24	9.11	7.55	186.42
77-78	7.70	10.37	10.37	19.49	11.38	35.77	128.30	130.09	49.28	9.02	11.41	15.13	438.31
78-79	5.18	20.09	18.48	20.35	27.48	28.25	50.89	59.19	74.46	53.37	23.52	13.20	394.46
79-80	10.26	9.54	8.24	10.45	8.06	11.85	94.55	81.42	53.84	21.44	15.43	9.45	334.52
80-81	10.47	15.81	11.09	9.62	9.25	12.52	68.03	93.74	72.32	41.47	13.39	16.90	374.62
81-82	10.83	11.72	9.67	7.75	4.64	5.21	30.80	72.85	49.55	12.96	8.04	10.53	234.54
82-83	13.61	15.79	11.77	8.37	9.98	19.88	29.73	69.64	42.05	22.55	16.50	12.13	271.99
83-84	9.05	9.02	11.74	9.31	13.79	14.54	29.73	49.55	46.60	31.62	20.95	11.70	257.60
84-85	14.33	15.58	17.83	16.51	22.94	17.39	72.05	70.98	64.82	32.66	6.56	7.04	358.70
85-86	9.05	8.19	11.53	9.82	10.13	10.29	20.86	41.94	48.51	28.41	13.50	2.79	215.03
86-87	12.00	10.24	11.46	19.31	14.52	20.35	48.21	94.82	61.68	31.62	19.85	11.12	355.16
87-88	16.95	29.16	17.81	21.33	21.23	26.21	51.37	99.10	68.81	53.03	26.78	15.00	446.78
88-89	12.91	11.79	11.66	9.88	10.13	14.15	25.42	41.62	39.00	17.34	10.37	6.99	211.26
89-90	8.16	11.66	9.28	8.35	8.63	15.97	32.36	62.38	43.02	20.40	11.65	9.00	240.85
90-91	8.55	10.52	8.14	7.70	7.62	11.15	37.74	33.96	27.32	17.99	10.10	7.31	188.10
91-92	7.52	6.71	7.00	5.03	6.12	14.90	29.19	67.23	97.23	62.99	27.32	14.46	345.70
92-93	10.94	9.75	9.31	7.23	8.81	14.10	25.07	37.77	51.16	34.99	15.40	9.64	234.16
93-94	7.83	24.05	20.04	21.36	18.07	18.38	54.61	94.15	79.01	49.79	25.23	17.28	429.79
94-95	12.67	25.61	34.78	18.20	14.36	16.54	34.23	70.39	63.80	42.48	20.54	12.99	366.60
95-96	12.47	13.79	8.45	8.74	9.36	15.27	48.72	91.17	69.64	34.94	16.28	10.20	339.03
Mean	11.20	13.95	12.67	11.99	12.43	20.09	46.10	75.51	61.72	31.70	16.45	11.47	325.27
Maximum	19.18	29.16	34.78	21.36	27.48	85.54	140.08	192.31	149.99	86.05	36.16	22.23	805.67
Minimum	5.18	6.14	5.18	4.92	2.59	5.21	15.45	29.19	27.32	9.02	6.56	2.79	186.42

Table 3.3.1.3(5) Monthly River Runoff (Shahrud River at Loshan)

(unit = MCM)

Code = 1-3-6-13 River = Shahrud Station = Loshan Long = 49-32 Lat = 36-37 Elev = 300m C.A = 5,070sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
54-55	67.55	55.37	59.69	60.73	58.84	97.87	269.71	317.69	152.48	64.28	24.40	15.62	1,244.23
55-56	19.85	28.85	31.52	32.22	37.14	146.40	481.31	173.13	189.04	86.37	55.55	38.60	1,319.97
56-57	31.96	31.96	28.93	31.10	32.61	70.94	163.38	310.08	277.16	176.00	67.47	43.18	1,264.76
57-58	45.52	71.95	69.88	67.47	65.99	111.27	164.67	164.32	111.02	55.49	31.61	26.81	986.00
58-59	31.88	28.51	61.07	36.81	38.36	123.79	388.69	260.31	229.46	119.65	54.16	32.73	1,405.42
59-60	28.51	28.59	28.67	29.89	26.33	29.47	56.57	129.07	63.32	27.42	19.77	13.50	481.11
60-61	16.54	21.23	22.16	19.85	27.35	31.99	81.91	236.13	101.16	47.07	24.72	18.03	648.13
61-62	19.85	18.79	19.65	21.90	33.57	47.98	95.11	261.87	185.67	74.39	36.48	22.15	837.41
62-63	24.91	42.15	30.74	32.66	51.14	58.27	167.35	383.25	384.38	167.96	74.89	43.63	1,461.32
63-64	39.74	40.33	39.04	35.85	42.59	67.55	219.01	320.36	162.69	58.19	2.84	2.33	1,030.51
64-65	13.71	25.92	29.03	28.77	48.47	108.86	159.36	299.98	236.50	83.98	38.84	27.05	1,100.49
65-66	57.28	88.39	37.58	31.36	47.17	67.13	163.65	401.76	278.55	103.94	41.78	28.93	1,347.54
66-67	42.77	37.07	29.81	31.62	28.77	43.55	132.31	218.29	151.33	66.87	29.73	21.13	833.25
67-68	26.44	28.77	28.25	26.44	31.36	109.38	160.97	232.22	258.20	131.67	47.94	30.53	1,112.18
68-69	26.96	97.46	114.83	83.46	82.43	321.41	779.41	1,234.74	958.87	417.31	147.58	84.37	4,348.82
69-70	68.17	92.53	36.81	35.77	49.25	92.28	147.85	117.31	89.19	43.29	26.09	20.03	818.56
70-71	22.65	22.84	33.44	32.14	31.62	88.39	190.43	369.62	216.41	82.94	43.39	27.05	1,160.93
71-72	26.18	31.36	39.66	34.99	40.69	68.69	227.40	535.68	466.04	145.67	57.85	36.16	1,710.37
72-73	31.88	45.88	48.21	40.44	53.40	135.30	186.68	267.84	199.54	76.20	35.09	27.59	1,148.05
73-74	30.07	30.84	31.62	30.84	32.66	106.79	283.91	163.38	105.80	59.88	39.10	37.77	952.66
74-75	30.07	26.44	39.66	41.21	38.10	73.87	190.97	299.98	177.31	69.98	30.53	34.02	1,052.14
75-76	18.46	21.90	51.84	46.40	40.18	39.66	178.11	214.54	211.33	92.02	26.78	18.00	959.21
76-77	20.94	22.42	22.78	24.83	44.84	67.39	81.42	85.44	145.97	29.55	20.92	14.20	580.71
77-78	25.12	59.36	54.43	51.32	54.69	108.35	193.92	132.85	121.06	57.02	17.17	14.52	889.80
78-79	13.19	36.55	70.24	56.25	71.02	80.09	374.98	225.52	191.24	75.43	25.44	13.61	1,233.56
79-80	16.20	20.35	18.87	26.44	32.66	83.98	385.69	185.08	160.70	37.84	22.26	11.28	1,001.34
80-81	19.28	36.81	31.10	42.51	58.32	199.58	234.90	342.84	245.34	113.79	32.94	19.34	1,376.75
81-82	23.25	23.95	19.49	23.95	28.51	60.13	245.34	243.73	83.03	29.29	15.35	11.78	807.82
82-83	43.55	41.47	70.24	63.50	45.10	59.36	162.58	265.97	153.74	47.95	19.02	18.56	991.04
83-84	15.94	25.92	40.69	34.99	55.99	75.95	211.59	267.30	179.99	98.24	30.27	22.55	1,059.42
84-85	35.77	37.07	108.35	66.10	113.01	103.42	332.12	281.23	168.74	81.65	28.93	19.36	1,375.74
85-86	21.51	27.22	38.88	39.14	40.44	61.69	149.45	205.43	126.15	42.51	19.02	16.87	788.31
86-87	18.90	30.22	59.67	39.61	50.47	146.89	261.14	339.35	162.85	59.88	32.86	17.33	1,219.16
87-88	33.67	107.18	52.23	92.51	111.07	194.84	323.28	467.68	200.93	99.61	36.32	30.75	1,750.06
88-89	31.62	28.51	26.70	32.14	33.70	104.98	190.97	105.26	50.09	22.81	13.12	12.32	652.22
89-90	12.44	19.26	32.92	37.07	41.21	100.57	162.58	147.85	68.57	37.07	25.98	23.84	709.34
90-91	26.70	29.55	26.44	33.18	27.99	57.28	222.31	104.19	41.78	24.62	20.62	22.77	637.43
91-92	26.18	24.88	33.18	31.10	31.36	76.20	261.95	484.79	423.19	201.40	43.66	30.80	1,668.70
92-93	34.21	34.99	38.62	35.51	41.73	75.95	154.54	140.88	117.85	52.36	28.12	17.68	772.45
93-94	18.77	71.80	119.96	120.14	81.54	110.60	225.92	250.48	155.27	77.22	19.61	20.60	1,271.90
94-95	20.04	110.03	193.08	89.63	61.77	74.23	126.93	223.16	158.16	87.07	28.10	23.17	1,195.36
95-96	25.19	40.62	32.69	33.31	39.42	56.76	272.53	394.66	159.53	58.11	29.36	25.47	1,167.65
Mean	28.65	41.55	47.68	42.98	47.69	93.79	225.31	281.08	198.09	85.33	34.90	24.67	1,151.71
Maximum	68.17	110.03	193.08	120.14	113.01	321.41	779.41	1,234.74	958.87	417.31	147.58	84.37	4,348.82
Minimum	12.44	18.79	18.87	19.85	26.33	29.47	56.57	85.44	41.78	22.81	2.84	2.33	481.11

Table 3.3.1.3(6) Monthly River Runoff (Shahrud(taleghan?) River at Kamakan(Kumakan?))

(unit = MCM)

Code = 1-3-6-14 River = Shahrud(?) Station = Kamakan Long = 50-41 Lat = 36-11 Elev = 1,700m C.A = 960sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
59-60	12.08	9.20	11.92	6.64	5.75	9.07	22.87	65.30	42.32	13.25	5.73	4.98	209.12
60-61	5.26	12.10	6.61	9.49	7.91	6.79	50.03	146.51	54.05	21.15	19.50	6.64	346.04
61-62	6.12	7.88	6.32	9.69	13.79	11.53	36.61	110.81	81.24	25.84	18.29	10.12	338.25
62-63	10.99	12.73	9.62	10.24	16.67	20.37	69.08	172.01	162.98	77.68	32.22	14.17	608.75
63-64	10.86	13.19	11.72	11.12	11.46	27.81	83.75	168.10	75.80	22.03	9.91	8.54	454.29
64-65	7.72	8.19	7.23	8.04	10.65	36.34	58.47	172.78	106.87	34.89	14.89	10.34	476.41
65-66	20.06	24.26	13.43	10.91	16.20	33.80	57.53	164.56	85.57	33.36	16.61	9.75	486.04
66-67	15.22	14.90	9.46	10.26	10.08	14.62	29.76	62.94	74.27	21.31	7.42	8.25	278.49
67-68	7.88	8.40	7.49	7.36	8.71	25.56	58.79	94.33	112.09	57.31	18.32	11.76	418.00
68-69	10.13	27.09	25.89	18.48	18.25	77.86	255.49	483.88	201.01	107.21	51.10	26.94	1,303.35
69-70	22.81	35.82	17.91	14.49	15.71	20.09	76.90	51.59	58.39	21.95	12.64	9.16	357.45
70-71	8.99	8.63	8.37	10.01	9.90	25.14	67.84	179.45	98.62	36.42	15.45	9.78	478.61
71-72	17.00	12.65	15.68	9.82	10.55	20.74	84.40	169.27	146.24	76.65	28.95	15.27	607.22
72-73	12.93	20.79	15.16	12.86	16.43	38.23	61.60	131.59	89.91	34.40	16.55	13.07	463.53
73-74	8.92	10.81	9.85	8.19	8.79	24.65	75.64	80.59	68.62	29.81	10.31	16.28	352.46
74-75	10.99	9.31	9.31	8.24	8.68	20.58	78.08	141.02	105.93	36.42	14.49	10.77	453.81
75-76	9.38	9.46	9.05	10.32	11.28	12.03	80.24	130.09	100.98	55.55	15.96	10.90	455.23
76-77	12.36	10.52	9.98	8.11	9.90	23.33	36.21	47.03	70.50	16.36	11.22	7.07	262.60
77-78	9.67	19.03	15.24	10.89	14.10	27.01	63.00	76.36	63.21	29.45	12.78	8.76	349.48
78-79	8.97	11.30	17.24	15.16	18.33	21.67	111.48	127.25	104.19	53.32	22.02	14.38	525.30
79-80	10.08	13.74	10.16	9.31	10.55	16.59	107.73	87.99	66.32	19.18	12.45	7.55	371.64
80-81	8.94	17.65	11.92	10.03	13.19	33.23	81.83	175.68	98.14	58.03	27.86	12.24	548.74
81-82	14.44	12.78	10.47	9.31	8.48	15.34	82.90	92.43	54.75	22.42	11.87	8.14	343.32
82-83	20.74	18.17	14.33	12.88	12.44	17.60	50.49	108.48	82.76	31.65	14.62	10.98	395.14
83-84	9.98	11.66	16.93	12.00	14.00	25.01	69.05	93.40	90.07	37.58	15.37	9.75	404.81
84-85	14.57	17.26	27.09	15.34	22.71	29.99	97.49	116.70	80.14	35.67	22.23	18.99	498.17
85-86	9.93	10.89	14.62	12.42	13.71	27.01	52.84	124.49	89.75	37.61	18.19	10.23	421.69
86-87	10.63	12.96	11.59	12.08	18.53	32.89	93.02	204.74	101.30	45.59	25.79	11.81	580.93
87-88	15.58	34.32	23.04	20.87	20.87	38.13	112.06	215.80	99.05	56.01	28.63	17.84	682.19
88-89	14.77	15.09	14.20	11.77	13.37	26.31	68.54	62.17	50.43	21.15	11.76	7.71	317.28
89-90	8.29	8.97	8.68	9.43	10.96	23.59	48.32	85.20	51.91	22.16	10.47	7.98	295.97
90-91	8.45	13.40	7.05	7.65	9.10	15.76	63.32	61.68	47.49	19.85	8.17	7.07	268.99
Mean	11.71	14.79	12.74	11.04	12.85	24.96	74.54	131.38	87.97	37.85	17.56	11.16	448.54
Maximum	22.81	35.82	27.09	20.87	22.71	77.86	255.49	483.88	201.01	107.21	51.10	26.94	1,303.35
Minimum	5.26	7.88	6.32	6.64	5.75	6.79	22.87	47.03	42.32	13.25	5.73	4.98	209.12

Table 3.3.1.3(7) Monthly River Runoff (Shahrud River at Siahdasht)

(unit = MCM)

Code = 1-3-6-15 River = Shahrud Station = Siahdasht Long = 50-17 Lat = 36-27 Elev = 970m C.A = 2,445sq.km													
Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	27.37	28.82	25.27	24.18	29.60	46.76	137.03	192.68	126.53	54.54	3.32	2.73	698.84
64-65	8.06	14.77	17.60	19.36	33.62	75.87	107.67	184.01	177.82	82.09	39.85	14.97	775.70
65-66	41.71	75.66	24.16	21.12	32.74	46.47	109.87	225.82	206.37	103.42	43.98	15.67	946.98
66-67	29.81	25.63	18.20	21.31	20.09	29.86	93.50	147.26	118.49	63.82	27.13	12.62	607.71
67-68	17.13	17.55	17.00	17.76	21.88	76.26	108.50	153.77	192.60	133.05	52.58	16.28	824.35
68-69	17.52	84.50	83.36	56.76	56.82	225.66	358.72	496.09	635.16	438.28	191.85	32.97	2,677.69
69-70	50.96	79.70	23.56	24.13	34.16	64.18	101.73	95.27	73.25	38.62	22.04	12.16	619.77
70-71	14.33	11.77	20.97	21.67	22.06	61.46	123.23	213.01	164.03	81.00	46.23	14.97	794.73
71-72	16.95	20.06	25.74	23.61	28.30	47.56	140.99	276.28	329.55	148.00	66.42	18.32	1,141.80
72-73	21.25	34.21	32.30	27.32	36.99	94.50	121.39	169.94	152.37	73.79	34.60	15.16	813.84
73-74	19.88	19.57	19.60	20.76	22.76	74.42	166.81	120.18	85.55	56.35	40.23	18.88	664.98
74-75	19.88	15.27	25.74	27.86	26.52	51.22	123.50	184.01	136.84	67.13	28.26	17.54	723.76
75-76	11.33	10.86	35.07	31.42	27.94	27.11	117.15	145.46	160.52	90.69	23.01	11.28	691.84
76-77	13.12	11.35	12.80	16.67	31.13	46.66	64.71	76.31	114.66	23.92	14.81	9.56	435.70
77-78	16.15	47.36	37.07	34.78	37.90	75.50	124.95	103.95	96.72	53.29	9.56	9.72	646.94
78-79	7.70	25.12	49.17	38.15	49.04	55.60	206.00	150.66	146.59	72.96	21.13	9.29	831.41
79-80	9.75	9.33	9.80	17.76	22.76	58.35	210.44	131.16	125.13	32.79	16.69	8.14	652.09
80-81	11.92	25.38	19.18	28.75	40.36	139.81	144.50	202.06	183.87	113.94	31.63	11.87	953.27
81-82	14.77	12.86	10.29	16.04	19.91	41.55	149.35	159.07	68.65	23.66	7.02	8.41	531.58
82-83	30.43	29.94	49.17	43.13	31.31	41.01	109.31	169.11	120.21	43.60	12.16	11.52	690.89
83-84	9.56	14.77	26.54	23.61	38.78	52.67	133.49	169.70	138.71	97.33	27.88	13.18	746.24
84-85	23.95	26.08	76.00	49.40	94.04	86.68	160.06	141.61	112.36	59.36	17.46	20.44	867.42
85-86	13.82	13.79	19.83	22.47	23.98	47.10	103.81	151.25	121.20	47.93	22.58	10.37	598.11
86-87	11.64	18.97	41.08	26.78	34.99	102.67	156.58	200.61	126.66	56.35	31.50	10.98	818.81
87-88	55.83	95.00	47.62	61.46	68.27	132.94	214.83	297.70	171.95	103.76	35.27	18.99	1,303.63
88-89	22.11	22.24	18.74	24.47	24.75	86.75	148.79	89.57	39.05	20.58	9.59	8.46	515.10
89-90	8.86	12.10	20.92	22.34	26.90	57.62	83.24	110.38	52.44	25.48	14.30	10.15	444.75
90-91	11.33	21.67	12.18	21.51	21.90	39.92	151.49	92.99	40.23	20.01	9.37	8.60	451.21
91-92	10.26	11.90	21.44	26.80	24.47	43.55	143.03	245.88	286.59	210.99	55.71	18.16	1,098.76
92-93	18.09	14.10	19.91	19.80	25.27	44.84	114.37	104.73	95.33	51.32	21.88	11.17	540.83
93-94	11.25	54.51	82.30	77.97	48.00	91.45	168.18	224.26	133.55	70.55	28.74	19.55	1,010.30
94-95	19.83	98.52	155.16	51.32	29.52	52.59	168.18	209.48	142.14	74.29	24.21	14.54	1,039.78
95-96	16.30	28.77	20.48	22.60	27.48	39.40	160.70	219.63	124.55	54.43	26.25	14.20	754.78
Mean	19.18	31.28	33.89	29.79	33.76	68.42	143.22	177.39	151.51	81.43	32.04	13.66	815.56
Maximum	55.83	98.52	155.16	77.97	94.04	225.66	358.72	496.09	635.16	438.28	191.85	32.97	2,677.69
Minimum	7.70	9.33	9.80	16.04	19.91	27.11	64.71	76.31	39.05	20.01	3.32	2.73	435.70

Table 3.3.1.3(8) Monthly River Runoff (Arvan River at Polearvan)

(unit = MCM)

Code = 7-1-1-11 River = Arvan Station = Polearvan Long = 49-12 Lat = 35-38 Elev = 1,770m C.A = 96.1sq.km													
Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.00	0.13	0.41	0.54	0.83	1.09	1.82	1.93	0.08	0.08	0.03	0.00	6.94
64-65	0.03	0.13	0.52	0.60	0.96	1.14	1.87	1.96	0.11	0.10	0.03	0.00	7.44
65-66	0.13	0.34	0.49	0.36	1.68	1.04	2.38	2.41	0.16	0.10	0.05	0.03	9.18
66-67	0.10	0.31	0.54	0.49	0.83	0.65	1.69	1.58	0.08	0.05	0.03	0.00	6.36
67-68	0.00	0.03	0.41	0.54	1.94	2.93	2.84	1.74	10.63	0.47	0.08	0.05	21.67
68-69	1.81	1.06	1.11	1.58	2.51	8.63	13.79	8.68	1.85	0.88	0.29	0.29	42.51
69-70	0.36	0.65	0.39	0.60	0.62	1.24	2.01	2.49	0.13	0.05	0.03	0.03	8.60
70-71	0.03	0.08	0.39	0.34	0.29	1.74	3.78	6.13	1.04	0.10	0.08	0.05	14.04
71-72	0.05	0.23	0.93	0.80	1.24	2.54	9.21	7.04	5.65	2.15	0.40	0.32	30.59
72-73	0.21	0.70	1.35	3.03	2.67	5.83	7.63	3.24	0.43	0.08	0.08	0.08	25.33
73-74	0.08	0.16	0.29	1.48	1.79	4.38	8.97	3.16	0.56	0.18	0.11	0.11	21.26
74-75	0.08	0.18	0.36	0.62	0.88	1.53	3.88	5.12	0.59	0.03	0.00	0.00	13.27
75-76	0.08	0.16	0.49	0.88	1.32	1.06	5.70	5.22	0.16	0.08	0.08	0.03	15.27
76-77	0.34	0.21	0.36	0.73	1.58	2.62	3.05	1.34	1.39	1.58	1.58	1.26	16.04
77-78	0.13	1.27	0.78	1.30	1.56	3.58	4.10	1.42	0.27	0.05	0.03	0.03	14.50
78-79	0.03	0.08	1.30	2.88	3.08	1.97	4.63	2.33	0.54	0.13	0.03	0.03	17.01
79-80	0.08	0.16	0.52	0.62	0.54	1.58	12.62	3.21	0.43	0.13	0.08	0.05	20.02
80-81	0.05	0.47	0.29	0.75	2.85	4.12	4.39	3.11	2.46	1.97	0.05	0.03	20.54
81-82	0.10	0.21	0.31	0.39	0.47	1.06	4.23	2.33	0.21	0.03	0.03	0.00	9.37
82-83	0.52	0.60	1.45	1.53	1.06	1.89	6.62	6.91	0.88	0.13	0.03	0.03	21.64
83-84	0.13	0.26	0.80	0.75	1.61	2.49	6.75	7.04	1.79	0.34	0.16	0.05	22.18
84-85	0.73	0.91	3.45	2.57	2.83	3.37	6.03	2.60	0.56	0.16	0.08	0.05	23.32
85-86	0.05	0.26	0.65	0.57	0.73	0.91	3.32	4.39	0.99	0.13	0.03	0.03	12.05
86-87	0.03	0.88	0.80	0.47	0.83	4.38	4.71	3.08	0.70	0.08	0.03	0.03	16.01
87-88	0.54	2.18	0.98	2.67	2.51	5.00	6.43	6.78	1.12	0.36	0.24	0.21	29.04
88-89	0.00	0.03	0.13	0.16	0.21	1.01	1.55	0.62	0.08	0.00	0.00	0.00	3.78
89-90	0.05	0.05	0.36	0.44	0.78	2.05	3.99	2.20	0.35	0.05	0.03	0.03	10.37
90-91	0.05	0.21	0.08	0.70	0.57	1.43	3.13	0.80	0.27	0.03	0.00	0.00	7.26
91-92	0.00	0.05	0.23	0.36	0.47	1.84	7.02	10.53	3.48	0.54	0.13	0.11	24.77
92-93	0.16	0.29	0.52	0.65	1.09	3.08	4.18	2.84	0.54	0.05	0.05	0.05	13.49
93-94	0.05	0.67	1.56	1.71	1.89	2.59	4.02	2.84	0.48	0.08	0.00	0.00	15.89
94-95	0.03	3.42	3.89	1.32	1.66	2.07	2.84	3.67	2.52	0.39	0.11	0.08	21.99
95-96	0.03	0.23	0.44	0.18	1.01	2.00	10.47	8.38	1.93	0.36	0.08	0.08	25.20
Mean	0.18	0.50	0.81	0.99	1.36	2.51	5.14	3.85	1.29	0.33	0.12	0.10	17.18
Maximum	1.81	3.42	3.89	3.03	3.08	8.63	13.79	10.53	10.63	2.15	1.58	1.26	42.51
Minimum	0.00	0.03	0.08	0.16	0.21	0.65	1.55	0.62	0.08	0.00	0.00	0.00	3.78

Table 3.3.1.3(9) Monthly River Runoff (Avajchay River at Avaj)

(unit = MCM)

Code = 7-1-1-12 River = Avajchay Station = Avaj Long = 49-12 Lat = 35-38 Elev = 1,765m C.A = 306.3sq.km													
Year	MEHR	ABAN	AZAR	DAY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHA	ANNUAL
63-64	0.62	0.29	0.70	1.48	2.38	4.20	8.01	6.43	0.67	0.23	0.11	0.11	25.22
64-65	0.03	0.31	0.98	1.84	1.56	3.11	5.33	4.31	0.29	0.13	0.11	0.40	18.40
65-66	1.50	2.64	0.80	1.24	3.65	3.71	9.67	4.98	0.96	0.13	0.05	0.03	29.38
66-67	1.84	1.48	1.24	1.56	1.14	1.97	3.11	4.26	0.11	0.05	0.03	0.03	16.81
67-68	0.03	0.05	1.11	1.68	3.06	4.80	9.70	6.11	13.93	1.45	0.27	0.11	42.29
68-69	1.30	4.74	4.59	3.55	4.59	21.05	28.74	17.44	5.28	2.77	1.55	1.87	97.47
69-70	2.33	3.65	2.02	2.67	2.88	3.65	5.41	6.83	0.35	0.13	0.05	0.05	30.04
70-71	0.10	0.93	1.61	1.61	1.92	3.73	8.49	11.38	1.93	0.39	0.24	0.08	32.41
71-72	0.31	1.43	2.49	2.77	2.70	5.96	19.28	20.57	7.55	1.32	1.04	1.02	66.45
72-73	1.61	5.13	2.95	7.98	6.87	16.07	14.73	8.60	1.71	0.78	0.46	0.35	67.24
73-74	0.96	1.63	1.94	2.64	2.28	5.24	15.43	6.62	1.29	15.29	0.29	0.80	54.42
74-75	0.65	1.27	1.79	2.15	2.77	4.35	8.49	19.85	1.55	0.21	0.05	0.08	43.22
75-76	0.41	1.14	2.62	2.90	3.86	4.02	29.11	9.59	2.01	0.41	0.32	0.13	56.54
76-77	1.61	2.31	1.89	3.03	3.40	6.53	8.44	4.71	8.54	0.08	1.77	0.08	42.39
77-78	1.66	5.62	2.18	2.75	3.37	8.06	8.79	2.97	0.62	0.21	0.03	0.03	36.27
78-79	0.05	0.52	10.13	3.29	5.62	3.58	11.06	6.29	1.15	0.31	0.11	0.08	42.20
79-80	0.13	1.04	1.79	2.23	2.28	4.67	26.49	7.71	1.42	0.36	0.13	0.19	48.44
80-81	0.80	2.51	1.71	1.97	1.11	4.80	11.52	9.11	1.98	3.14	0.08	0.08	38.81
81-82	0.67	0.91	1.43	1.30	1.87	1.76	6.78	8.68	0.54	0.13	0.05	0.03	24.13
82-83	6.14	1.48	2.05	2.70	2.59	4.64	15.05	18.24	3.08	0.54	0.11	0.21	56.83
83-84	0.54	1.45	3.27	2.51	3.63	3.65	15.00	14.17	4.61	0.98	0.46	0.27	50.54
84-85	1.01	2.88	5.60	3.24	3.91	5.73	14.09	8.38	0.83	0.52	0.16	0.11	46.46
85-86	1.22	1.68	3.55	2.57	3.60	3.16	7.50	11.49	2.28	0.47	0.35	0.05	37.92
86-87	0.54	1.79	2.51	2.33	2.64	6.14	14.70	8.41	0.51	0.39	0.11	0.00	40.09
87-88	0.73	3.84	2.83	3.08	2.98	9.51	16.39	13.53	2.01	17.39	0.21	3.05	75.55
88-89	1.01	2.51	2.64	2.44	3.06	5.42	11.28	5.70	0.51	0.08	0.11	0.00	34.76
89-90	0.73	1.11	2.28	2.38	2.67	5.75	10.69	4.63	0.56	0.08	0.11	0.00	31.00
90-91	0.62	1.48	1.30	2.20	2.70	5.42	9.24	4.58	0.37	0.31	0.08	0.00	28.30
91-92	0.65	1.11	1.84	2.13	2.62	4.51	15.43	27.91	6.29	3.14	0.35	0.70	66.67
92-93	1.30	3.21	3.78	2.95	3.53	6.53	10.71	7.77	0.72	0.36	0.13	0.03	41.03
Mean	1.04	2.00	2.52	2.57	3.04	5.72	12.62	9.71	2.46	1.73	0.30	0.33	44.04
Maximum	6.14	5.62	10.13	7.98	6.87	21.05	29.11	27.91	13.93	17.39	1.77	3.05	97.47
Minimum	0.03	0.05	0.70	1.24	1.11	1.76	3.11	2.97	0.11	0.05	0.03	0.00	16.81

Table 3.3.1.3(10) Monthly River Runoff (Kharrud River at Abegarm)

(unit = MCM)

Code = 7-1-1-14 River = Kharrud Station = Abegarm Long = 49-16 Lat = 35-45 Elev = 1,560m C.A = 2,520sq.km													
Year	MEHR	ABAN	AZAR	DAY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHA	ANNUAL
63-64	1.79	3.68	5.11	5.31	6.12	7.31	7.20	6.91	0.43	0.47	0.72	1.02	46.07
64-65	1.84	3.81	5.29	5.52	6.35	7.57	7.47	7.15	0.46	0.49	0.75	1.21	47.91
65-66	1.87	6.22	4.77	5.60	10.94	7.08	10.02	9.72	0.67	1.01	1.10	1.39	60.38
66-67	6.01	5.73	4.54	4.98	6.48	5.37	6.62	4.96	0.40	0.41	0.48	0.72	46.69
67-68	1.24	2.93	4.07	4.28	4.59	6.71	8.97	5.25	24.51	1.48	0.99	1.47	66.49
68-69	1.48	14.33	7.80	6.82	5.86	32.71	53.01	37.34	4.12	2.15	2.28	3.43	171.32
69-70	6.19	10.32	7.59	8.79	8.32	10.91	18.99	13.55	0.88	0.88	1.71	1.82	89.97
70-71	2.67	4.82	6.82	6.48	5.39	10.19	14.68	33.67	3.91	0.91	2.01	1.98	93.52
71-72	2.83	4.56	5.29	7.36	8.86	17.21	46.93	36.94	9.24	1.04	5.84	2.89	148.98
72-73	4.77	6.84	9.75	7.62	11.40	24.03	21.19	10.95	1.10	1.17	2.01	2.65	103.48
73-74	3.50	4.87	7.78	8.09	7.65	17.73	39.93	12.70	1.53	6.38	2.49	3.88	116.52
74-75	4.46	5.91	7.93	8.35	8.35	15.97	16.23	35.70	4.98	1.63	1.47	2.38	113.36
75-76	3.11	5.88	7.65	10.16	7.78	11.30	24.69	29.68	2.60	0.62	2.65	4.42	110.54
76-77	7.98	5.03	5.70	5.81	6.04	9.18	11.81	7.18	12.78	0.60	3.40	2.06	77.56
77-78	4.46	10.19	9.41	6.17	10.65	11.85	15.96	8.01	0.94	1.24	0.86	1.26	80.99
78-79	2.90	3.94	6.66	3.89	7.28	10.08	19.66	8.17	4.58	1.09	0.59	1.34	70.18
79-80	2.85	4.02	5.62	6.07	7.05	10.47	50.76	16.42	1.66	0.75	0.80	1.34	107.81
80-81	3.60	8.19	7.02	8.35	10.42	15.58	30.02	17.46	3.13	3.60	1.42	1.71	110.52
81-82	9.36	6.82	8.22	8.16	9.12	11.46	18.03	11.28	1.39	0.86	1.12	1.74	87.55
82-83	10.45	7.02	8.48	7.67	7.85	13.14	28.52	27.61	8.17	1.32	1.71	2.28	124.23
83-84	5.47	4.95	9.64	7.93	9.15	10.60	18.24	48.45	7.15	0.83	1.26	1.77	125.44
84-85	8.42	6.30	11.53	15.68	20.01	19.31	33.77	9.94	2.95	0.93	1.31	2.33	132.49
85-86	4.35	6.56	9.43	8.86	9.49	10.42	15.75	11.52	3.00	1.04	1.07	2.06	83.55
86-87	3.86	7.13	8.66	8.48	8.89	16.93	24.88	15.24	1.26	0.93	0.91	1.55	98.72
87-88	10.50	28.90	10.29	10.01	11.72	30.56	42.43	33.19	2.89	6.19	1.90	3.62	192.19
88-89	7.00	8.01	9.05	8.89	8.01	20.14	22.28	5.57	1.50	1.27	1.61	2.30	95.63
89-90	3.14	5.62	8.14	9.36	8.79	14.75	14.92	3.56	0.70	0.80	1.04	1.29	72.10
90-91	2.70	5.24	6.43	8.01	8.89	14.33	20.09	3.27	0.91	1.09	1.04	1.47	73.47
91-92	4.30	6.07	7.91	8.04	7.39	11.92	31.07	45.80	22.69	2.10	1.77	2.04	151.08
92-93	5.18	5.31	9.75	7.83	10.45	16.33	15.29	8.38	2.17	1.43	1.87	1.77	85.76
93-94	4.04	10.37	12.52	13.87	13.27	19.70	26.70	10.58	2.52	1.89	1.85	2.22	119.53
94-95	4.20	22.71	41.78	16.46	14.67	14.10	13.98	30.02	27.13	3.63	2.84	4.45	195.97
95-96	8.53	10.78	12.78	12.13	17.63	23.95	66.91	49.44	10.18	2.49	2.92	3.43	221.16
Mean	4.70	7.67	8.89	8.21	9.24	14.51	24.15	18.65	5.23	1.60	1.69	2.16	106.70
Maximum	10.50	28.90	41.78	16.46	20.01	32.71	66.91	49.44	27.13	6.38	5.84	4.45	221.16
Minimum	1.24	2.93	4.07	3.89	4.59	5.37	6.62	3.27	0.40	0.41	0.48	0.72	46.07

Table 3.3.1.3(11) Monthly River Runoff (Kolanjinchay River at Arteshabad)

(unit = MCM)

Code = 7-1-1-15 River = Kolanjinchay Station = Arteshabad Long = 49-25 Lat = 35-40 Elev = 1,750m C.A = 449sq.km													
Year	MEHR	ABAN	AZAR	DAY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHA	ANNUAL
63-64	0.08	0.05	0.10	0.39	0.83	1.50	3.00	2.62	0.24	0.16	0.08	0.13	9.19
64-65	0.08	0.05	0.10	0.39	0.86	1.56	3.11	2.73	0.24	0.23	0.03	0.24	9.61
65-66	0.29	0.39	0.21	0.49	1.11	1.43	1.98	0.99	0.29	0.34	0.19	0.11	7.81
66-67	0.54	1.81	0.18	0.62	0.75	1.01	2.28	1.18	0.16	0.10	0.05	0.32	9.02
67-68	0.00	0.03	0.26	0.83	0.88	2.93	7.66	3.03	8.04	0.21	0.08	0.05	23.99
68-69	0.08	1.19	1.14	0.78	1.22	16.85	18.64	10.50	2.25	0.91	0.67	0.72	54.95
69-70	1.43	3.01	1.53	1.66	1.63	2.13	2.33	1.85	0.11	0.10	0.05	0.08	15.90
70-71	0.08	0.10	0.10	1.06	0.98	1.84	5.17	8.46	0.86	0.08	0.05	0.03	18.82
71-72	0.05	0.31	0.18	1.14	1.35	0.41	16.20	18.75	2.73	0.70	0.48	0.37	42.69
72-73	0.80	2.38	2.18	1.97	2.51	0.78	0.96	2.49	0.51	0.39	0.27	0.21	15.46
73-74	0.23	1.01	1.17	1.35	1.40	1.84	16.61	3.48	0.29	2.77	0.27	0.27	30.69
74-75	1.81	0.70	1.17	1.56	1.68	2.38	6.75	15.70	3.00	0.08	0.05	0.00	34.88
75-76	0.13	0.13	1.81	1.92	2.07	3.97	9.99	10.23	0.70	0.16	0.21	0.29	31.61
76-77	2.59	0.86	1.11	1.45	2.15	4.20	7.02	4.29	26.78	0.18	9.03	0.29	59.95
77-78	0.18	1.63	1.53	1.97	1.63	4.12	6.08	2.33	0.40	0.34	0.16	0.16	20.54
78-79	0.10	0.13	4.35	3.53	5.60	2.51	8.36	2.54	0.16	0.13	0.13	0.13	27.69
79-80	0.10	0.29	0.57	1.74	1.19	2.33	10.79	4.37	0.40	0.29	0.21	0.24	22.52
80-81	0.08	0.83	1.37	1.56	2.57	2.77	3.88	4.61	1.12	0.13	0.13	0.13	19.19
81-82	0.05	0.36	0.75	1.14	1.24	1.97	5.46	4.71	0.35	0.18	0.08	0.08	16.39
82-83	3.03	0.62	0.96	0.91	1.32	2.02	8.44	9.78	1.69	0.16	0.11	0.16	29.19
83-84	0.10	0.70	1.27	1.24	2.10	2.72	7.20	9.11	2.09	0.26	0.19	0.24	27.23
84-85	0.44	1.24	2.90	2.57	2.80	3.06	8.60	4.58	0.32	0.21	0.16	0.13	27.01
85-86	0.18	0.39	1.61	2.02	1.94	2.38	6.11	3.19	0.56	0.13	0.00	0.00	18.51
86-87	0.00	0.65	1.14	1.17	1.14	3.47	9.16	4.61	0.16	0.10	0.08	0.08	21.76
87-88	0.18	1.84	1.32	2.28	1.61	6.87	10.74	9.75	1.07	3.37	0.24	1.31	40.58
88-89	0.44	1.04	1.22	1.30	1.68	2.72	6.00	1.90	0.16	0.13	0.08	0.08	16.75
89-90	0.18	0.34	1.01	1.22	1.19	3.08	5.46	0.83	0.19	0.13	0.08	0.08	13.80
90-91	0.08	0.49	0.44	1.01	1.22	2.72	4.12	0.78	0.11	0.05	0.05	0.05	11.13
91-92	0.10	0.34	0.75	0.93	1.11	1.81	9.83	24.21	5.20	0.70	0.46	0.37	45.82
92-93	0.70	1.45	1.87	2.05	2.28	3.86	5.49	3.96	0.27	0.18	0.13	0.11	22.35
93-94	0.13	1.14	2.33	3.03	2.41	2.46	7.87	4.45	0.13	0.10	0.08	0.08	24.23
94-95													
95-96	0.21	0.44	0.91	1.50	1.71	2.51	11.78	23.11	1.96	0.60	0.11	0.13	44.98
Mean	0.45	0.81	1.17	1.46	1.69	3.01	7.41	6.41	1.95	0.43	0.44	0.21	25.45
Maximum	3.03	3.01	4.35	3.53	5.60	16.85	18.64	24.21	26.78	3.37	9.03	1.31	59.95
Minimum	0.00	0.03	0.10	0.39	0.75	0.41	0.96	0.78	0.11	0.05	0.00	0.00	7.81

Table 3.3.1.3(12) Monthly River Runoff (Kolanjinchay River at Abbasabad)

(unit = MCM)

Code = 7-1-1-16 River = Kolanjinchay Station = Abbasabad Long = 49-19 Lat = 35-46 Elev = 1,540m C.A = 695.1sq.km													
Year	MEHR	ABAN	AZAR	DAY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHA	ANNUAL
63-64	0.05	0.08	0.13	0.16	1.35	3.89	3.75	2.25	0.59	0.03	0.08	0.03	12.37
64-65	0.05	0.10	0.13	0.16	1.37	4.15	4.04	2.33	0.86	0.10	0.05	0.00	13.35
65-66	0.13	0.16	0.23	0.29	1.56	4.41	4.29	1.04	0.00	0.21	0.11	0.05	12.46
66-67	0.23	0.21	0.21	0.44	1.30	4.67	4.02	1.21	0.72	0.10	0.05	0.00	13.15
67-68	0.00	0.13	0.29	0.70	1.37	4.54	5.09	2.52	6.54	0.08	0.08	0.00	21.32
68-69	0.05	1.56	1.17	0.65	1.63	7.78	10.71	6.67	1.66	0.83	0.21	0.08	33.00
69-70	0.49	4.72	1.56	1.79	1.94	3.89	4.55	1.71	0.78	0.10	0.05	0.00	21.59
70-71	0.05	0.08	0.13	1.01	1.45	4.04	5.62	5.62	0.48	0.05	0.05	0.00	18.60
71-72	0.03	0.03	0.21	1.11	1.74	4.15	9.64	10.53	2.06	0.60	0.16	0.08	30.33
72-73	0.31	3.65	2.20	2.18	2.59	5.70	7.23	2.17	0.19	0.29	0.11	0.05	26.68
73-74	0.23	0.75	1.56	2.10	1.63	3.34	3.64	1.93	0.13	2.83	0.05	2.73	20.93
74-75	0.23	0.62	1.71	3.24	1.81	3.16	7.18	5.28	0.16	0.05	0.03	0.03	23.50
75-76	0.26	0.47	1.48	1.81	1.56	1.94	5.73	9.83	0.43	0.16	0.62	0.03	24.31
76-77	0.21	0.62	1.11	1.01	1.50	2.49	2.12	1.15	22.47	0.03	2.33	0.03	35.07
77-78	0.03	4.15	1.87	1.68	2.05	4.04	5.46	1.50	0.27	0.03	0.03	0.00	21.10
78-79	0.00	0.05	3.78	5.00	4.95	2.70	4.61	3.08	0.08	0.03	0.03	0.00	24.31
79-80	0.00	0.03	0.23	0.41	2.41	5.75	12.72	4.29	0.08	0.03	0.03	0.03	26.01
80-81	0.03	0.36	0.96	1.14	2.67	3.55	4.87	4.37	0.24	0.05	0.03	0.03	18.30
81-82	0.03	0.16	0.57	1.37	1.89	2.51	6.75	3.35	0.16	0.03	0.03	0.00	16.84
82-83	2.95	0.31	0.80	1.43	1.71	3.08	9.54	11.81	3.05	0.05	0.03	0.03	34.80
83-84	0.05	0.70	1.30	1.24	2.28	4.15	5.62	5.97	1.53	0.13	0.11	0.03	23.11
84-85	1.30	0.31	3.89	2.80	3.47	4.43	9.37	2.54	0.08	0.05	0.03	0.03	28.30
85-86	0.05	0.31	1.66	1.68	2.02	1.94	5.84	5.95	0.13	0.05	0.05	0.05	19.75
86-87	0.00	0.62	1.17	1.14	1.58	3.06	4.77	3.48	0.46	0.13	0.08	0.00	16.48
87-88	0.10	2.70	1.35	2.59	1.92	6.01	9.35	6.29	0.67	3.42	0.11	0.03	34.54
88-89	0.18	1.30	1.24	1.32	1.97	2.46	3.83	1.74	0.32	0.00	0.08	0.00	14.45
89-90	0.10	0.08	1.04	1.22	1.61	2.05	3.16	0.91	0.29	0.00	0.08	0.00	10.54
90-91	0.05	0.34	0.47	0.96	1.63	3.89	5.89	0.86	0.27	0.16	0.05	0.00	14.56
91-92	0.05	0.08	0.78	0.86	1.56	3.89	9.91	12.86	4.15	0.60	0.16	0.08	34.96
92-93	0.29	2.02	1.89	2.28	2.41	4.41	6.43	3.11	0.27	0.05	0.08	0.03	23.26
Mean	0.25	0.89	1.17	1.46	1.96	3.87	6.19	4.21	1.64	0.34	0.17	0.12	22.27
Maximum	2.95	4.72	3.89	5.00	4.95	7.78	12.72	12.86	22.47	3.42	2.33	2.73	35.07
Minimum	0.00	0.03	0.13	0.16	1.30	1.94	2.12	0.86	0.00	0.00	0.03	0.00	10.54

Table 3.3.1.3(13) Monthly River Runoff (Kharrud River at Rahimabad)

(unit = MCM)

Code = 7-1-1-17 River = Kharrud Station = Rahimabad Long = 49-33 Lat = 35-52 Elev = 1,400m C.A = 4,089.4sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.18	0.83	4.41	6.74	8.86	11.04	10.39	7.58	0.16	0.13	0.11	0.29	50.73
64-65	0.21	0.86	4.56	6.97	9.20	11.46	10.79	7.85	0.16	0.13	0.11	0.46	52.75
65-66	6.32	6.74	3.78	5.70	15.63	8.19	12.03	9.80	0.21	0.96	0.32	0.48	70.18
66-67	4.87	4.80	2.80	4.48	6.25	7.49	5.81	3.27	0.21	0.13	0.08	0.32	40.51
67-68	0.10	1.74	2.07	3.76	6.30	15.50	22.71	8.57	62.65	0.49	0.16	0.29	124.35
68-69	0.41	18.40	9.41	9.02	12.21	73.28	112.57	81.48	5.81	1.35	0.62	5.76	330.32
69-70	7.65	14.33	9.56	15.24	23.25	19.23	16.82	11.04	0.19	0.13	0.80	0.48	118.73
70-71	0.29	2.23	5.26	5.55	16.17	14.96	30.11	44.73	6.78	0.16	0.35	0.56	127.13
71-72	0.41	1.04	8.92	8.94	8.27	20.48	93.34	73.50	21.96	1.04	6.99	2.20	247.08
72-73	7.13	16.87	14.33	9.69	17.63	49.14	54.00	26.01	0.19	0.36	0.32	1.39	197.07
73-74	1.53	4.64	8.89	12.70	12.34	46.34	92.11	19.79	0.67	7.93	0.27	4.69	211.90
74-75	3.60	5.73	11.17	19.13	15.16	26.05	26.44	49.01	3.91	0.34	0.16	0.70	161.40
75-76	2.05	3.03	10.24	13.04	12.73	16.17	41.19	43.12	1.74	0.26	0.80	0.27	144.64
76-77	3.68	4.67	9.25	10.24	17.39	22.16	13.04	14.17	22.66	0.21	2.09	0.67	120.23
77-78	10.99	26.13	13.40	15.71	18.43	23.54	26.03	6.27	0.62	0.10	0.16	0.27	141.64
78-79	0.67	4.41	19.08	0.49	5.62	15.86	28.52	5.81	1.50	0.10	0.08	0.08	82.24
79-80	0.86	4.20	5.65	10.63	11.07	24.42	130.68	14.62	0.19	0.05	0.32	0.32	203.00
80-81	2.88	15.27	14.80	15.06	17.57	15.73	41.09	22.31	0.67	1.63	0.13	0.37	147.52
81-82	6.71	5.08	5.78	8.37	9.38	15.09	28.95	17.46	0.64	0.10	0.08	0.21	97.87
82-83	11.07	7.88	9.46	10.13	12.70	21.12	46.52	60.69	13.63	0.16	0.11	0.62	194.10
83-84	2.77	1.30	13.22	14.00	11.87	17.50	30.51	58.28	11.97	0.13	0.11	0.21	161.87
84-85	7.02	6.97	20.14	22.81	36.24	32.06	55.79	13.07	0.78	0.16	0.13	0.51	195.68
85-86	1.32	4.59	11.17	11.74	16.56	16.07	26.62	21.35	4.04	0.08	0.05	0.05	113.66
86-87	1.50	6.56	12.23	14.10	12.75	35.90	54.80	14.20	0.19	0.10	0.29	0.21	152.84
87-88	17.06	36.94	9.62	17.70	23.54	69.65	78.58	52.66	0.27	5.16	0.19	3.46	314.80
88-89	2.75	7.91	8.79	12.18	14.18	43.93	28.18	6.59	0.13	0.10	0.08	0.08	124.90
89-90	1.04	2.26	8.19	10.47	13.92	19.85	24.88	3.80	0.13	0.21	0.08	0.08	84.92
90-91	0.10	2.54	1.94	10.32	11.46	17.68	36.85	1.58	0.08	0.08	0.08	0.08	82.79
91-92	0.10	0.39	4.95	10.70	10.47	21.72	53.30	119.72	45.00	0.34	0.13	0.08	266.91
92-93	3.03	3.50	12.60	13.82	15.86	26.93	25.12	14.06	0.83	0.52	0.32	0.08	116.67
93-94	0.10	7.10	12.00	20.37	22.14	34.14	40.74	13.74	0.64	0.13	0.08	0.08	151.26
94-95	0.62	23.33	54.77	23.43	27.01	31.08	43.39	51.99	35.49	0.78	0.11	0.13	292.12
95-96	3.41	6.19	6.69	12.62	20.37	31.13	121.22	131.35	21.72	0.34	0.27	0.35	356.66
Mean	4.44	7.83	10.58	11.69	14.93	25.91	44.34	31.20	8.06	0.72	0.48	0.78	159.95
Maximum	17.06	36.94	54.77	23.43	36.24	73.28	130.68	131.35	62.65	7.93	6.99	5.76	356.66
Minimum	0.10	0.39	1.94	0.49	5.62	7.49	5.81	1.58	0.08	0.05	0.05	0.05	40.51

Table 3.3.1.3(14) Monthly River Runoff (Shoor River at Poleshababasi)

(unit = MCM)

Code = 7-1-1-18 River = Shoor Station = Poleshababasi Long = 50-04 Lat = 35-56 Elev = 1,170m C.A = 5,408sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.05	0.21	0.29	0.49	0.39	0.31	0.94	0.70	0.05	0.10	0.05	0.08	3.66
64-65	0.03	0.05	0.34	1.01	2.41	0.75	0.27	0.24	0.16	0.10	0.08	0.13	5.58
65-66	0.08	0.13	0.16	0.29	0.26	0.23	0.32	0.43	0.08	0.05	0.03	0.03	2.08
66-67	0.05	0.18	0.16	0.26	0.39	0.23	0.13	0.37	0.21	0.18	0.16	0.13	2.47
67-68	0.08	0.23	0.16	0.18	0.86	0.49	0.29	0.56	11.41	0.10	0.03	0.03	14.42
68-69	0.05	4.92	0.31	0.23	0.93	30.22	53.43	18.27	0.56	0.13	0.08	0.08	109.23
69-70	0.05	1.30	0.34	0.36	0.75	0.75	1.34	1.21	0.05	0.05	0.03	0.03	6.25
70-71	0.03	0.03	0.60	0.10	0.13	0.08	0.11	10.66	0.91	0.05	0.05	0.03	12.77
71-72	0.13	0.08	0.08	0.18	0.65	0.80	13.63	32.46	2.17	0.10	0.78	0.27	51.33
72-73	0.03	0.08	0.62	0.31	2.64	11.09	1.31	0.24	0.03	0.03	0.00	0.03	16.41
73-74	0.03	0.03	0.05	0.05	0.65	6.30	27.11	0.37	0.05	0.39	0.16	1.18	36.36
74-75	0.23	0.49	1.09	3.24	0.67	1.06	7.31	12.27	1.42	0.05	0.91	0.05	28.81
75-76	0.05	0.03	0.49	1.43	0.93	3.73	0.29	18.37	1.10	0.47	0.83	0.48	28.21
76-77	7.70	3.71	3.58	4.02	5.39	3.19	0.96	3.94	14.03	0.18	3.32	0.62	50.63
77-78	0.03	8.81	5.11	3.32	3.68	5.70	3.29	0.21	0.03	0.03	0.03	0.03	30.26
78-79	0.00	0.03	13.56	0.73	0.08	0.41	4.26	0.05	0.03	0.03	0.03	0.03	19.22
79-80	0.03	0.03	0.03	0.08	0.65	5.03	71.94	3.19	0.05	0.03	0.03	0.03	81.09
80-81	0.03	4.82	4.35	1.68	1.06	0.65	8.04	5.49	0.19	0.21	0.05	0.16	26.73
81-82	0.26	0.44	0.00	0.73	0.65	0.60	2.57	3.91	0.16	0.10	0.03	0.13	9.58
82-83	0.21	1.66	1.79	0.98	1.06	1.22	10.50	17.97	2.68	0.10	0.05	0.11	38.33
83-84	0.05	0.05	2.15	1.50	0.78	0.16	4.74	26.01	7.34	0.13	0.03	0.00	42.93
84-85	0.49	1.27	6.95	2.80	2.85	2.88	14.68	2.46	0.21	0.10	0.05	0.08	34.83
85-86	0.23	0.23	2.62	1.22	0.91	0.67	1.53	5.17	0.88	0.10	0.03	0.11	13.70
86-87	0.03	0.05	0.83	0.78	0.70	1.68	5.12	1.50	0.16	0.00	0.00	0.00	10.85
87-88	4.72	19.08	1.81	3.34	3.60	5.91	13.07	19.61	0.21	0.86	0.00	0.27	72.48
88-89	0.03	0.08	0.05	0.05	0.13	13.50	3.51	0.11	0.03	0.00	0.00	0.00	17.48
89-90	0.03	0.31	1.17	1.04	1.04	1.06	0.75	0.56	0.05	0.10	0.03	0.13	6.27
90-91	0.00	0.21	0.54	1.01	0.96	0.83	6.13	0.94	0.03	0.10	0.03	0.16	10.94
91-92	0.00	0.00	0.44	0.16	0.26	0.31	1.04	30.80	10.26	0.05	0.05	0.05	43.43
92-93	0.10	0.49	3.29	1.50	1.74	2.00	0.86	2.79	0.21	0.13	0.11	0.16	13.38
93-94	0.00	0.03	1.22	0.08	0.10	0.03	0.03	0.03	0.03	0.00	0.00	0.00	1.53
94-95	0.00	8.06	16.10	2.44	0.03	0.00	0.03	12.56	4.21	0.00	0.00	0.00	43.41
95-96	0.00	0.00	0.00	0.00	0.00	0.47	60.72	33.80	0.13	0.00	0.00	0.00	95.12
Mean	0.45	1.73	2.13	1.08	1.13	3.10	9.70	8.10	1.79	0.12	0.21	0.14	29.69
Maximum	7.70	19.08	16.10	4.02	5.39	30.22	71.94	33.80	14.03	0.86	3.32	1.18	109.23
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.00	0.00	0.00	1.53

Table 3.3.1.3(15) Monthly River Runoff (Abharrud River at Qerveh)

(unit = MCM)

Code = 7-1-1-19 River = Abharrud Station = Qerveh Long = 49-23 Lat = 36-03 Elev = 1,430m C.A = 1,926sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.60	1.04	2.64	3.76	4.10	6.82	7.07	2.54	0.64	0.80	0.56	0.86	31.43
64-65	0.62	1.09	2.75	3.91	4.25	7.05	7.34	2.65	0.67	0.83	0.59	0.88	32.64
65-66	1.09	3.16	2.57	2.85	4.87	4.92	6.19	0.59	0.62	0.54	0.56	0.59	28.55
66-67	1.09	2.05	2.00	3.01	3.89	4.25	2.41	0.59	0.56	0.54	0.59	0.78	21.75
67-68	0.67	1.01	1.11	1.66	3.76	7.75	5.54	0.59	15.91	0.60	0.56	0.59	39.76
68-69	0.75	3.40	3.03	3.42	4.20	44.95	70.09	35.41	2.97	0.98	0.86	1.02	171.08
69-70	1.61	6.22	5.18	6.12	7.00	10.37	11.95	2.92	0.70	0.70	0.96	0.96	54.69
70-71	0.86	1.09	2.41	4.07	5.52	8.84	11.30	8.60	1.90	0.88	0.56	0.70	46.73
71-72	0.91	1.14	3.32	4.10	4.95	8.09	36.10	12.99	5.06	0.78	0.94	0.72	79.09
72-73	1.27	2.67	4.48	5.55	8.45	17.91	18.00	4.42	0.27	0.57	0.62	0.88	65.09
73-74	0.96	0.98	2.98	4.80	5.68	11.64	49.34	7.50	0.78	2.46	0.72	1.23	89.06
74-75	0.86	1.27	3.47	6.09	7.57	8.37	14.12	14.89	2.06	0.88	0.78	1.10	61.46
75-76	0.67	0.73	3.01	4.69	5.55	6.53	22.50	15.78	1.93	0.41	0.67	0.78	63.24
76-77	0.49	0.65	1.92	3.50	4.92	9.23	6.08	3.19	8.60	0.13	1.31	0.19	40.20
77-78	1.50	4.56	3.68	4.33	5.81	10.32	10.07	2.14	0.88	0.62	0.64	0.67	45.23
78-79	1.04	1.58	5.37	5.29	6.77	8.53	17.68	1.42	1.10	0.67	0.54	0.59	50.56
79-80	0.86	1.19	2.49	3.68	4.30	6.92	60.72	8.95	0.78	0.62	0.83	0.75	92.08
80-81	1.63	4.61	5.31	5.52	7.05	18.30	37.47	8.54	1.23	0.73	0.59	0.51	91.50
81-82	2.83	2.33	3.45	4.48	5.11	6.25	17.65	4.90	0.80	0.60	0.70	0.62	49.71
82-83	2.44	1.79	4.28	4.46	4.98	6.32	20.36	8.76	6.11	0.57	0.59	0.56	61.20
83-84	0.67	0.91	2.33	2.98	4.07	4.67	5.22	11.09	3.46	0.44	0.46	0.56	36.85
84-85	1.45	1.74	3.94	5.70	11.20	12.42	24.83	2.79	0.80	0.49	0.43	0.54	66.32
85-86	0.86	1.22	2.41	3.58	3.29	4.59	15.70	4.69	1.66	0.75	0.40	0.91	40.05
86-87	0.65	1.06	2.59	3.63	3.94	10.63	15.88	6.67	0.54	0.34	0.88	0.40	47.21
87-88	2.28	7.10	2.75	4.20	5.29	25.25	32.86	13.23	0.96	1.14	0.40	0.75	96.22
88-89	0.80	1.45	2.02	2.88	3.32	11.30	17.52	1.02	0.78	0.44	0.40	0.72	42.65
89-90	0.47	1.06	1.43	1.48	3.01	4.61	6.48	0.75	0.59	0.41	0.40	0.40	21.09
90-91	0.62	0.83	0.80	1.09	1.92	3.50	13.58	0.80	0.56	0.39	0.35	0.35	24.79
91-92	0.54	0.67	0.91	1.06	1.76	3.37	21.64	27.86	5.65	0.54	0.40	0.32	64.74
92-93	0.60	0.75	1.17	2.38	2.54	5.44	13.07	3.05	0.56	0.44	0.62	0.46	31.08
93-94	0.54	1.61	3.60	11.09	11.59	21.93	29.36	6.43	0.99	0.54	0.43	0.48	88.59
94-95	0.98	3.86	16.90	8.63	10.58	15.27	13.85	14.03	3.19	0.60	0.48	0.46	88.82
95-96	0.83	0.98	2.15	2.90	4.59	8.79	77.16	41.25	7.71	0.78	0.54	0.54	148.22
Mean	1.03	1.99	3.29	4.15	5.33	10.46	21.79	8.52	2.46	0.67	0.62	0.66	60.96
Maximum	2.83	7.10	16.90	11.09	11.59	44.95	77.16	41.25	15.91	2.46	1.31	1.23	171.08
Minimum	0.47	0.65	0.80	1.06	1.76	3.37	2.41	0.59	0.27	0.13	0.35	0.19	21.09

Table 3.3.1.3(16) Monthly River Runoff (Abharrud River at Poletakestan)

(unit = MCM)

Code = 7-1-1-20 River = Abharrud Station = Poletakestan Long = 49-38 Lat = 36-01 Elev = 1,305m C.A = 2,600sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.00	0.36	1.45	2.23	2.46	4.33	4.50	1.37	0.00	0.00	0.00	0.00	16.70
64-65	0.00	0.00	0.26	2.20	3.37	5.55	4.42	0.72	0.00	0.00	0.00	0.00	16.52
65-66	0.03	0.73	1.50	1.71	4.04	3.50	2.79	0.00	0.00	0.00	0.00	0.00	14.29
66-67	0.00	0.03	0.31	1.71	2.18	2.88	1.10	0.00	0.00	0.00	0.00	0.00	8.20
67-68	0.00	0.00	0.00	0.10	2.64	6.40	2.22	0.00	15.16	0.00	0.00	0.00	26.53
68-69	0.00	4.30	2.10	3.81	3.84	54.90	70.87	36.91	0.83	0.00	0.00	0.00	177.56
69-70	0.65	4.38	3.76	4.56	5.60	9.64	9.67	0.46	0.00	0.00	0.00	0.00	38.71
70-71	0.00	0.00	0.57	3.42	4.95	6.38	6.83	5.79	0.00	0.00	0.00	0.00	27.93
71-72	0.00	0.00	1.04	3.71	5.73	5.94	30.45	8.17	2.44	0.00	0.08	0.00	57.55
72-73	0.00	0.10	1.61	4.69	6.25	16.20	11.17	1.45	0.00	0.00	0.00	0.00	41.46
73-74	0.00	0.00	0.26	2.90	4.35	8.79	32.19	4.04	0.00	0.26	0.00	0.00	52.80
74-75	0.00	0.16	1.19	4.15	5.62	7.78	11.92	14.20	0.37	0.00	0.00	0.00	45.39
75-76	0.00	0.10	2.28	4.30	5.05	9.80	20.84	16.77	0.78	0.00	0.00	0.00	59.92
76-77	0.00	0.00	1.01	3.08	6.35	8.19	3.62	0.75	26.78	0.00	0.00	0.00	49.79
77-78	0.00	5.26	4.67	5.03	4.82	7.52	7.82	0.24	0.00	0.00	0.00	0.00	35.36
78-79	0.00	0.00	4.77	4.72	2.88	5.44	15.59	0.00	0.00	0.00	0.00	0.00	33.40
79-80	0.00	0.00	0.18	2.15	3.97	5.65	61.39	4.07	0.00	0.00	0.00	0.00	77.41
80-81	0.00	3.37	4.15	4.41	5.18	18.14	33.48	6.70	0.48	0.00	0.00	0.00	75.91
81-82	2.46	0.05	1.27	2.36	3.24	5.03	14.25	1.15	0.00	0.00	0.00	0.00	29.81
82-83	1.94	0.70	2.95	4.17	4.51	4.41	14.89	5.57	5.17	0.00	0.00	0.00	44.32
83-84	0.00	0.00	0.05	0.91	1.79	4.02	1.87	10.31	2.52	0.00	0.00	0.00	21.47
84-85	0.65	0.00	1.56	4.69	9.31	9.20	19.26	0.00	0.00	0.00	0.00	0.00	44.66
85-86	0.00	0.05	0.54	1.32	2.18	3.47	15.75	5.09	0.00	0.00	0.00	0.00	28.41
86-87	0.26	0.52	1.76	2.59	2.85	8.06	12.05	4.90	0.11	0.00	0.35	0.00	33.45
87-88	1.63	6.14	2.02	3.42	4.46	22.81	30.00	11.87	0.40	0.57	0.00	0.21	83.54
88-89	0.21	0.75	1.19	1.87	2.23	8.63	13.58	0.37	0.19	0.00	0.00	0.00	29.02
89-90	0.00	0.23	0.39	0.41	1.04	1.74	2.54	0.08	0.00	0.00	0.00	0.00	6.44
90-91	0.05	0.18	0.16	0.31	0.78	1.63	7.12	0.29	0.00	0.00	0.00	0.00	10.53
91-92	0.00	0.13	0.34	0.70	1.11	2.54	18.64	23.84	4.53	0.00	0.00	0.00	51.83
92-93	0.00	0.16	0.44	1.27	1.37	3.34	8.52	1.74	0.00	0.00	0.00	0.00	16.84
Mean	0.26	0.92	1.46	2.76	3.81	8.73	16.31	5.56	1.99	0.03	0.01	0.01	41.86
Maximum	2.46	6.14	4.77	5.03	9.31	54.90	70.87	36.91	26.78	0.57	0.35	0.21	177.56
Minimum	0.00	0.00	0.00	0.10	0.78	1.63	1.10	0.00	0.00	0.00	0.00	0.00	6.44

Table 3.3.1.3(17) Monthly River Runoff (Hajiarab River at Nosratabad)

(unit = MCM)

Code = 7-1-1-21 River = Hajiarab Station = Nosratabad Long = 49-37 Lat = 35-33 Elev = 1,900m C.A = 105.6sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.00	0.10	0.16	0.23	0.34	0.52	1.18	0.27	0.03	0.00	0.00	0.05	2.87
64-65	0.00	0.03	0.13	0.08	0.34	0.57	0.94	0.46	0.00	0.00	0.00	0.03	2.56
65-66	0.10	0.34	0.18	0.41	0.36	0.31	0.91	0.32	0.00	0.00	0.00	0.00	2.94
66-67	0.16	0.18	0.18	0.29	0.41	0.29	0.59	0.21	0.03	0.03	0.05	0.05	2.47
67-68	0.34	0.78	1.79	0.21	0.44	1.24	3.43	1.37	6.80	0.13	0.00	0.00	16.52
68-69	0.05	1.17	0.34	0.31	0.31	4.17	7.18	3.00	0.51	0.21	0.05	0.11	17.41
69-70	0.44	0.65	0.31	0.39	0.44	0.54	0.43	0.70	0.03	0.00	0.00	0.00	3.93
70-71	0.03	0.10	2.07	0.36	0.41	0.65	1.82	0.16	0.13	0.03	0.05	0.03	5.85
71-72	0.03	0.21	0.36	0.60	1.01	0.96	6.29	6.54	2.12	0.21	0.37	0.35	19.04
72-73	0.57	0.83	0.91	1.74	2.28	2.64	4.04	1.98	0.21	0.16	0.24	0.24	15.85
73-74	0.16	0.29	0.65	0.65	0.73	1.22	2.84	0.51	0.78	0.70	1.18	0.05	9.74
74-75	0.08	0.26	0.57	0.80	0.49	0.65	3.00	3.27	0.40	0.16	0.00	0.27	9.94
75-76	0.29	0.41	0.65	0.26	0.65	0.78	3.88	3.78	0.35	0.18	0.08	0.11	11.41
76-77	0.21	0.29	0.36	0.60	0.62	0.70	1.18	0.62	0.67	0.16	7.23	0.03	12.65
77-78	0.21	0.49	0.49	0.49	1.04	0.86	1.53	0.40	0.08	0.08	0.05	0.03	5.74
78-79	0.03	0.13	1.09	0.47	0.54	0.57	1.93	1.50	0.40	0.03	0.03	0.03	6.73
79-80	0.03	0.23	0.52	1.09	0.78	1.14	7.26	1.39	0.05	0.03	0.00	0.03	12.54
80-81	0.00	0.03	0.05	0.21	0.67	0.70	2.65	1.93	0.29	0.18	0.03	0.03	6.77
81-82	0.13	0.23	0.29	0.39	0.65	0.41	2.76	2.33	0.08	0.00	0.00	0.00	7.27
82-83	1.48	0.21	0.44	0.73	1.35	0.39	2.68	4.87	1.58	0.10	0.03	0.05	13.91
83-84	0.10	0.29	0.41	0.41	0.57	0.41	1.55	1.07	0.51	0.03	0.03	0.03	5.42
84-85	0.10	0.39	0.80	1.14	0.83	1.14	3.29	0.72	0.08	0.03	0.03	0.03	8.58
85-86	0.05	0.18	0.31	0.44	0.60	0.60	1.47	2.12	0.48	0.05	0.03	0.03	6.35
86-87	0.03	0.34	0.39	0.49	0.70	0.88	2.36	1.39	0.05	0.00	0.24	0.00	6.87
87-88	0.29	0.65	0.62	0.60	1.40	1.06	3.51	3.05	0.19	0.60	0.24	0.13	12.33
88-89	0.26	0.39	0.41	0.49	0.73	0.98	2.30	0.64	0.11	0.03	0.03	0.03	6.40
89-90	0.05	0.23	0.31	0.41	0.54	0.57	1.04	0.27	0.03	0.00	0.00	0.00	3.46
90-91	0.03	0.16	0.26	0.34	0.36	0.49	1.31	0.05	0.03	0.00	0.00	0.03	3.05
91-92	0.03	0.13	0.23	0.34	0.31	0.57	2.89	6.27	2.36	0.26	0.11	0.05	13.54
92-93	0.18	0.36	0.41	0.47	0.67	1.04	2.28	1.04	0.16	0.03	0.48	0.03	7.15
Mean	0.18	0.34	0.52	0.51	0.69	0.90	2.62	1.74	0.62	0.11	0.35	0.06	8.64
Maximum	1.48	1.17	2.07	1.74	2.28	4.17	7.26	6.54	6.80	0.70	7.23	0.35	19.04
Minimum	0.00	0.03	0.05	0.08	0.31	0.29	0.43	0.05	0.00	0.00	0.00	0.00	2.47

Table 3.3.1.3(18) Monthly River Runoff (Hajiarab River at Hajiarab)

(unit = MCM)

Code = 7-1-1-22 River = Hajiarab Station = Hajiarab Long = 49-45 Lat = 35-36 Elev = 1,670m C.A = 560sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.03	0.05	0.16	0.26	0.52	0.96	2.84	1.47	0.13	0.08	0.11	0.27	6.87
64-65	0.03	0.08	0.16	0.29	0.54	1.01	2.95	1.53	0.13	0.08	0.11	0.43	7.32
65-66	0.29	0.23	0.16	0.36	0.57	0.65	1.98	0.67	0.05	0.08	0.08	0.08	5.20
66-67	1.01	0.18	0.47	0.80	0.67	0.67	1.15	1.02	0.11	0.05	0.08	0.54	6.75
67-68	0.23	0.39	0.21	0.18	0.41	2.90	9.54	5.12	8.38	0.78	0.19	0.21	28.54
68-69	0.21	3.19	1.30	0.86	1.45	19.34	12.51	15.03	3.48	1.87	0.96	0.99	61.17
69-70	2.51	1.92	1.37	1.27	1.35	1.58	1.90	5.36	0.32	0.26	0.40	0.29	18.54
70-71	0.26	0.21	0.52	0.83	0.88	2.05	4.79	8.09	1.87	0.36	0.29	0.24	20.40
71-72	0.23	0.70	1.24	1.14	1.45	3.03	17.68	15.05	7.23	1.53	1.47	0.94	51.70
72-73	1.43	2.57	1.97	2.18	2.70	8.84	10.29	7.66	1.21	0.67	0.48	0.43	40.41
73-74	0.47	0.93	1.22	1.45	1.32	3.53	8.33	3.51	1.93	3.58	1.12	0.43	27.81
74-75	1.81	1.24	1.32	4.33	1.48	2.77	4.79	8.30	2.97	0.52	0.40	0.46	30.41
75-76	0.80	0.70	1.17	1.27	1.09	1.79	6.37	9.94	0.78	0.65	0.67	0.67	25.89
76-77	0.49	0.86	1.14	1.37	1.22	2.26	3.91	3.67	10.79	0.57	10.82	0.46	37.56
77-78	0.65	1.40	1.17	1.11	1.84	2.59	3.75	1.87	0.46	0.41	0.29	0.21	15.76
78-79	0.18	0.23	0.57	0.21	0.36	1.30	4.34	4.50	1.71	0.36	0.21	0.16	14.14
79-80	0.23	0.52	0.88	1.01	1.27	2.70	15.88	5.44	0.96	0.47	0.35	0.32	30.03
80-81	0.52	0.73	0.88	0.98	1.17	1.17	3.62	5.62	0.91	0.41	0.24	0.13	16.38
81-82	0.18	0.36	0.67	0.88	0.65	0.70	5.22	3.40	0.91	0.08	0.08	0.08	13.22
82-83	2.77	1.19	0.93	1.11	1.17	2.31	13.69	10.93	4.50	0.80	0.62	0.37	40.40
83-84	0.52	1.19	1.66	1.22	1.89	1.87	4.90	4.58	2.12	0.83	0.70	1.04	22.51
84-85	0.41	0.67	1.48	1.94	1.84	2.28	7.02	2.41	0.64	0.29	0.40	0.16	19.55
85-86	0.18	0.26	1.09	0.83	1.09	1.40	4.58	7.74	1.55	0.54	0.16	0.11	19.53
86-87	0.13	0.86	1.11	1.11	1.17	2.70	5.84	4.79	0.29	0.10	0.67	0.05	18.83
87-88	0.91	1.94	1.24	1.53	2.51	3.50	8.84	9.78	1.02	3.37	0.24	1.42	36.30
88-89	0.83	1.01	1.06	1.06	1.22	3.14	5.73	2.54	0.62	0.21	0.13	0.13	17.69
89-90	0.21	0.49	0.62	0.83	0.91	1.24	2.54	1.45	0.13	0.05	0.05	0.05	8.59
90-91	0.10	0.18	0.21	0.54	0.54	0.91	3.16	0.83	0.13	0.08	0.08	0.08	6.85
91-92	0.08	0.13	0.44	0.57	0.47	1.19	7.26	19.34	10.34	1.56	0.48	0.43	42.28
92-93	0.62	0.98	1.30	1.01	1.14	3.45	5.65	3.75	0.96	0.26	1.02	0.13	20.28
93-94	0.23	1.06	1.24	0.98	1.43	2.36	4.15	3.94	2.12	0.18	0.08	0.05	17.83
94-95	0.21	2.57	2.18	1.61	1.63	1.92	3.48	6.05	9.21	0.80	0.19	0.21	30.06
95-96	0.21	0.62	0.91	0.98	1.40	4.43	28.02	23.65	4.15	2.75	0.54	0.46	68.11
Mean	0.57	0.90	0.97	1.09	1.19	2.80	6.87	6.33	2.49	0.75	0.72	0.36	25.06
Maximum	2.77	3.19	2.18	4.33	2.70	19.34	28.02	23.65	10.79	3.58	10.82	1.42	68.11
Minimum	0.03	0.05	0.16	0.18	0.36	0.65	1.15	0.67	0.05	0.05	0.05	0.05	5.20

Table 3.3.1.3(19) Monthly River Runoff (Hajiarab River at Rostamabad)

(unit = MCM)

Code = 7-1-1-23 River = Hajiarab Station = Rostamabad Long = 49-52 Lat = 35-40 Elev = 1,470m C.A = 905sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.10	0.03	0.08	0.60	0.96	1.71	2.73	1.02	0.67	0.05	0.11	0.19	8.24
64-65	0.00	0.00	0.00	0.41	1.01	0.67	2.28	1.29	0.00	0.00	0.00	0.24	5.90
65-66	0.08	0.13	0.00	0.00	0.57	0.34	2.17	0.29	0.00	0.00	0.00	0.00	3.58
66-67	0.62	0.03	0.00	0.34	0.41	0.21	0.43	0.67	0.00	0.00	0.00	0.16	2.87
67-68	0.23	0.05	0.05	0.26	0.13	2.05	5.41	3.88	10.18	2.33	0.00	0.32	24.90
68-69	0.00	1.71	1.30	1.37	1.43	12.55	26.36	15.37	4.04	2.51	1.29	1.42	69.34
69-70	3.76	2.88	2.46	2.33	2.36	2.13	2.28	4.07	0.11	0.18	0.62	0.21	23.38
70-71	0.18	0.13	0.96	1.14	0.98	1.79	4.39	4.55	0.78	0.05	0.08	0.03	15.07
71-72	0.03	0.41	1.22	1.24	1.30	3.73	24.61	24.05	21.51	1.45	1.02	0.99	81.57
72-73	1.81	2.72	2.70	2.75	3.03	9.72	15.40	7.20	1.42	1.48	0.80	0.59	49.63
73-74	1.01	1.32	1.92	1.68	1.63	4.54	12.86	3.67	1.90	1.37	1.79	1.04	34.74
74-75	0.75	1.17	1.48	1.48	1.79	2.95	5.28	19.20	3.56	1.45	0.72	0.48	40.32
75-76	1.04	1.19	2.18	1.66	1.92	1.68	7.61	18.88	1.61	0.21	0.43	0.29	38.70
76-77	0.47	0.96	1.40	2.10	2.18	3.29	3.24	1.34	22.74	0.26	10.98	0.94	49.89
77-78	0.93	3.01	1.92	2.13	2.46	3.32	6.08	1.71	0.54	0.29	0.16	0.16	22.70
78-79	0.21	0.36	1.37	1.14	1.58	1.66	7.15	6.21	1.87	0.23	0.08	0.08	21.96
79-80	0.13	0.39	1.09	1.40	1.89	4.48	21.03	6.40	1.69	0.80	0.59	0.64	40.53
80-81	0.88	1.53	2.15	2.20	2.31	2.36	5.92	7.02	1.47	1.09	0.19	0.27	27.38
81-82	0.18	0.41	1.04	1.48	1.35	1.19	4.55	3.29	0.27	0.05	0.03	0.03	13.87
82-83	4.10	1.30	1.17	1.84	2.33	3.14	21.96	19.39	7.71	1.48	0.72	0.86	65.99
83-84	0.96	1.74	3.06	2.49	3.16	2.83	6.59	5.89	2.36	0.67	0.54	0.62	30.89
84-85	0.91	1.37	2.20	2.33	2.72	2.62	7.95	2.36	0.32	0.08	0.03	0.03	22.92
85-86	0.03	0.13	0.98	1.19	1.61	1.30	5.57	11.87	1.23	0.13	0.08	0.05	24.17
86-87	0.08	0.83	1.58	1.48	1.68	2.88	6.86	4.93	0.32	0.08	0.70	0.03	21.43
87-88	1.11	2.62	1.84	1.79	3.24	3.42	11.62	12.70	0.78	3.53	0.24	1.77	44.65
88-89	1.01	1.06	1.48	1.43	1.76	3.19	6.70	2.12	0.40	0.16	0.13	0.08	19.51
89-90	0.18	0.39	0.67	1.24	1.40	1.92	2.38	0.99	0.21	0.03	0.05	0.03	9.50
90-91	0.05	0.10	0.13	0.96	0.98	1.68	3.13	0.48	0.11	0.05	0.08	0.03	7.80
91-92	0.00	0.05	0.41	0.98	0.88	1.87	9.05	31.42	20.49	1.45	0.51	0.37	67.49
92-93	0.73	1.01	1.97	1.40	1.66	3.40	6.56	3.54	0.67	0.18	1.04	0.08	22.23
Mean	0.72	0.97	1.29	1.43	1.69	2.95	8.27	7.53	3.63	0.72	0.77	0.40	30.37
Maximum	4.10	3.01	3.06	2.75	3.24	12.55	26.36	31.42	22.74	3.53	10.98	1.77	81.57
Minimum	0.00	0.00	0.00	0.00	0.13	0.21	0.43	0.29	0.00	0.00	0.00	0.00	2.87

Table 3.3.1.3(20) Monthly River Runoff (Mortezaabad River at Mortezaabad)

(unit = MCM)

Code = 7-1-1-24 River = Mortezaabad Station = Mortezaabad Long = 49-48 Lat = 36-25 Elev = 1,590m C.A = 33sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.00	0.00	0.00	0.10	0.23	1.19	1.15	0.64	0.16	0.03	0.00	0.00	3.51
64-65	0.00	0.03	0.03	0.05	0.26	1.30	1.18	0.64	0.08	0.05	0.03	0.05	3.69
65-66	0.03	0.08	0.03	0.05	0.26	0.65	0.64	0.48	0.05	0.03	0.03	0.03	2.35
66-67	0.00	0.05	0.03	0.03	0.16	0.52	0.40	0.32	0.03	0.03	0.03	0.03	1.61
67-68	0.03	0.05	0.03	0.03	0.18	0.78	0.56	0.54	0.27	0.05	0.03	0.05	2.59
68-69	0.00	0.00	0.00	0.23	0.44	3.55	5.52	2.33	0.46	0.10	0.03	0.00	12.66
69-70	0.10	0.18	0.10	0.16	0.31	0.88	0.96	0.24	0.05	0.05	0.05	0.05	3.15
70-71	0.00	0.00	0.03	0.08	0.21	0.65	0.88	1.04	0.08	0.00	0.00	0.00	2.97
71-72	0.03	0.08	0.08	0.10	0.18	0.70	4.93	1.69	0.24	0.05	0.03	0.03	8.13
72-73	0.00	0.00	0.00	0.00	0.39	1.63	0.88	0.27	0.03	0.00	0.00	0.00	3.20
73-74	0.00	0.00	0.03	0.03	0.10	3.29	3.64	0.83	0.05	0.00	0.00	0.00	7.97
74-75	0.00	0.00	0.08	0.29	0.36	0.75	0.78	0.94	0.24	0.00	0.00	0.00	3.43
75-76	0.00	0.05	0.13	0.16	0.41	0.57	1.96	0.83	0.11	0.00	0.00	0.00	4.21
76-77	0.00	0.03	0.03	0.03	0.36	1.50	0.80	0.21	0.11	0.00	0.00	0.40	3.47
77-78	0.03	0.13	0.08	0.75	0.39	1.37	1.02	0.21	0.03	0.00	0.00	0.00	4.01
78-79	0.03	0.00	0.36	0.05	0.67	0.86	1.50	0.40	0.03	0.03	0.00	0.00	3.92
79-80	0.00	0.03	0.05	0.18	0.23	1.27	5.20	0.80	0.08	0.03	0.00	0.00	7.87
80-81	0.00	0.05	0.05	0.10	0.21	0.91	1.31	0.56	0.05	0.05	0.03	0.03	3.36
81-82	0.08	0.05	0.08	0.08	0.10	0.60	1.45	0.32	0.05	0.03	0.00	0.00	2.83
82-83	0.05	0.05	0.03	0.26	0.34	0.83	1.71	0.88	0.21	0.05	0.03	0.03	4.47
83-84	0.05	0.08	0.08	0.08	0.39	0.65	1.07	2.73	0.32	0.03	0.03	0.03	5.53
84-85	0.03	0.16	0.39	0.36	0.86	1.94	2.44	0.37	0.08	0.03	0.03	0.03	6.70
85-86	0.03	0.03	0.03	0.05	0.29	0.47	1.66	0.62	0.05	0.03	0.03	0.03	3.29
86-87	0.03	0.08	0.13	0.23	0.49	1.81	2.73	1.21	0.19	0.05	0.03	0.05	7.03
87-88	0.03	0.08	0.13	0.26	0.57	2.05	3.11	1.39	0.21	0.05	0.03	0.05	7.96
88-89	0.03	0.03	0.05	0.10	0.23	0.83	1.23	0.56	0.08	0.03	0.00	0.03	3.20
89-90	0.03	0.05	0.05	0.10	0.26	0.91	1.37	0.62	0.11	0.03	0.00	0.03	3.54
90-91	0.00	0.00	0.03	0.05	0.16	0.54	0.86	0.37	0.05	0.00	0.00	0.00	2.06
Mean	0.02	0.05	0.08	0.14	0.32	1.18	1.82	0.79	0.13	0.03	0.02	0.03	4.60
Maximum	0.10	0.18	0.39	0.75	0.86	3.55	5.52	2.73	0.46	0.10	0.05	0.40	12.66
Minimum	0.00	0.00	0.00	0.00	0.10	0.47	0.40	0.21	0.03	0.00	0.00	0.00	1.61

Table 3.3.1.3(21) Monthly River Runoff (Aloolak River at Amirabad)

(unit = MCM)

Code = 7-1-1-25 River = Aloolak Station = Amirabad Long = 50-01 Lat = 36-21 Elev = 1,430m C.A = 72sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.08	0.21	0.21	0.36	0.83	3.06	3.29	1.63	0.54	0.05	0.03	0.00	10.29
64-65	0.03	0.03	0.05	0.16	0.65	3.53	2.76	1.61	0.29	0.00	0.00	0.11	9.20
65-66	1.01	0.16	0.05	0.13	1.17	0.80	1.42	1.04	0.16	0.05	0.03	0.03	6.05
66-67	0.08	0.21	0.18	0.36	0.39	0.65	0.96	0.59	0.05	0.03	0.00	0.00	3.50
67-68	0.03	0.10	0.21	0.23	1.06	2.46	1.21	1.29	0.62	0.03	0.00	0.00	7.23
68-69	0.03	1.27	1.40	1.68	1.74	11.02	12.24	3.40	0.64	0.23	0.16	0.21	34.03
69-70	0.36	0.52	0.29	0.44	0.80	1.66	1.31	0.59	0.05	0.03	0.03	0.03	6.10
70-71	0.03	0.05	0.54	0.57	0.52	2.93	3.43	3.88	0.78	0.21	0.19	0.21	13.34
71-72	0.05	0.47	0.26	0.36	0.39	0.23	7.34	3.27	0.80	0.10	0.13	0.08	13.49
72-73	0.13	0.18	0.65	1.43	1.79	4.04	0.83	0.72	0.03	0.03	0.03	0.29	10.14
73-74	0.44	0.54	0.62	0.83	1.53	5.26	8.09	1.47	0.24	0.13	0.08	0.05	19.29
74-75	0.08	0.10	0.26	0.57	0.54	2.41	2.25	4.15	1.12	0.34	0.08	0.08	11.99
75-76	0.05	0.08	0.21	0.39	1.45	1.48	5.41	2.36	0.75	0.08	0.03	0.03	12.30
76-77	0.08	0.13	0.16	0.21	1.24	3.03	1.55	2.28	0.83	0.08	0.03	0.05	9.67
77-78	0.03	1.56	0.80	1.01	1.81	4.54	2.89	0.72	0.19	0.05	0.03	0.00	13.63
78-79	0.03	0.10	1.53	0.31	1.35	2.38	4.82	1.15	0.46	0.13	0.03	0.03	12.31
79-80	0.03	0.13	0.16	0.36	0.52	2.20	11.20	1.34	0.32	0.08	0.03	0.03	16.38
80-81	0.03	0.10	0.23	0.26	1.17	6.87	8.65	1.98	0.54	0.26	0.03	0.03	20.14
81-82	0.05	0.13	0.13	0.21	0.44	1.84	4.61	0.88	0.27	0.00	0.08	0.00	8.64
82-83	0.08	0.18	0.86	0.65	0.75	1.74	1.53	1.79	1.29	0.26	0.27	0.27	9.65
83-84	0.03	0.08	0.26	0.13	1.35	2.05	5.84	8.76	1.55	0.16	0.03	0.03	20.25
84-85	0.16	0.29	1.14	1.81	3.24	2.44	4.55	0.86	2.14	0.08	0.03	0.03	16.76
85-86	0.03	0.05	0.39	0.54	0.78	1.22	3.05	1.87	0.46	0.08	0.03	0.03	8.52
86-87	0.08	0.23	0.31	0.52	0.96	4.74	6.27	3.00	0.48	0.16	0.08	0.03	16.85
87-88	0.10	0.73	0.83	1.76	1.68	3.24	3.29	2.01	0.40	0.16	0.05	0.03	14.29
88-89	0.08	0.21	0.26	0.31	0.86	4.25	3.11	1.82	0.32	0.08	0.03	0.00	11.32
89-90	0.23	1.32	0.36	0.26	0.29	0.49	0.40	1.21	0.00	0.29	0.00	0.00	4.85
90-91	0.13	0.36	0.31	0.21	0.31	0.29	0.56	0.59	0.32	0.00	0.00	0.00	3.08
91-92	0.05	0.21	0.80	0.57	0.93	3.81	7.29	3.24	0.56	0.18	0.08	0.03	17.75
92-93	0.08	0.23	0.49	0.36	0.96	3.03	1.98	1.10	0.27	0.08	0.03	0.00	8.61
93-94	0.00	0.00	20.66	27.60	49.82	40.44	23.11	1.18	0.00	0.00	0.00	0.00	162.81
Mean	0.12	0.32	1.12	1.44	2.62	4.13	4.69	1.99	0.53	0.11	0.05	0.06	17.18
Maximum	1.01	1.56	20.66	27.60	49.82	40.44	23.11	8.76	2.14	0.34	0.27	0.29	162.81
Minimum	0.00	0.00	0.05	0.13	0.29	0.23	0.40	0.59	0.00	0.00	0.00	0.00	3.08

Table 3.3.1.3(22) Monthly River Runoff (Barajin River at Barajin)

(unit = MCM)

Code = 7-1-1-26 River = Barajin Station = Barajin Long = 50-03 Lat = 36-20 Elev = 1,405m C.A = 104sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.05	0.10	0.21	0.36	0.96	3.97	4.37	2.22	0.67	0.18	0.08	0.03	13.20
64-65	0.05	0.10	0.21	0.36	1.01	4.04	4.53	2.30	0.70	0.18	0.05	0.03	13.57
65-66	1.19	0.39	0.16	0.23	2.36	0.91	2.68	1.07	0.27	0.10	0.03	0.03	9.41
66-67	0.13	0.13	0.10	0.29	0.34	1.01	0.70	1.42	0.19	0.05	0.03	0.03	4.40
67-68	0.05	0.16	0.08	0.16	0.39	2.62	0.86	0.86	2.68	0.08	0.03	0.03	7.97
68-69	0.03	0.03	2.62	1.56	1.68	10.99	11.84	4.98	1.29	0.47	0.24	0.16	35.87
69-70	0.18	0.73	0.23	0.57	0.86	1.50	2.14	0.59	0.19	0.08	0.05	0.05	7.17
70-71	0.05	0.08	0.57	0.39	0.52	3.21	4.61	4.87	0.80	0.26	0.08	0.08	15.53
71-72	0.08	0.39	0.21	0.36	2.07	3.32	6.86	3.46	1.96	0.34	0.13	0.08	19.25
72-73	0.05	0.29	0.75	0.96	2.36	5.29	2.71	1.10	0.27	0.08	0.05	0.13	14.03
73-74	0.05	0.10	0.13	0.18	0.54	4.10	8.41	2.25	0.72	0.18	0.11	0.11	16.89
74-75	0.60	0.78	0.93	0.49	0.65	2.85	3.03	5.60	2.52	0.62	0.24	0.13	18.44
75-76	0.13	0.18	0.21	0.31	0.62	2.05	3.62	2.68	0.59	0.16	0.11	0.08	10.73
76-77	0.08	0.13	0.13	0.44	2.54	4.87	2.12	0.48	1.10	0.10	0.05	0.05	12.10
77-78	0.47	2.90	0.52	1.22	2.02	4.33	2.71	1.10	0.56	0.23	0.08	0.03	16.16
78-79	0.03	0.16	0.60	1.48	2.07	2.46	4.90	1.42	0.51	0.16	0.08	0.05	13.91
79-80	0.05	0.10	0.49	0.29	0.98	5.11	15.35	2.12	0.59	0.21	0.13	0.08	25.50
80-81	0.10	0.21	0.29	0.39	1.06	5.81	6.67	2.33	0.91	0.26	0.08	0.05	18.16
81-82	0.08	0.13	0.16	0.18	0.31	1.92	5.09	1.47	0.43	0.10	0.05	0.05	9.97
82-83	0.10	0.47	0.83	0.88	1.17	2.67	3.72	2.38	0.75	0.23	0.08	0.05	13.34
83-84	0.03	0.13	0.44	0.52	1.24	3.24	5.62	1.79	0.59	0.18	0.08	0.05	13.92
84-85	0.05	0.39	1.74	2.02	2.80	3.78	7.02	1.61	0.48	0.23	0.05	0.03	20.20
85-86	0.08	0.13	0.93	0.67	1.37	1.24	4.12	2.12	0.62	0.13	0.08	0.05	11.55
86-87	0.03	0.16	1.37	0.54	0.78	6.40	9.19	3.32	0.78	0.26	0.16	0.08	23.06
87-88	0.18	0.80	0.54	2.10	2.13	9.85	5.49	4.07	0.83	0.29	0.21	0.08	26.58
88-89	0.10	0.13	0.29	0.39	0.75	3.89	3.40	1.15	0.29	0.13	0.08	0.08	10.69
89-90	0.05	0.08	0.31	0.41	1.01	3.73	3.37	1.15	0.46	0.31	0.19	0.13	11.21
90-91	0.10	0.18	0.21	0.39	0.60	2.64	6.91	1.79	0.64	0.16	0.05	0.05	13.73
91-92	0.08	0.16	1.06	0.65	0.83	5.11	9.11	9.45	3.37	0.93	0.37	0.19	31.31
92-93	0.18	0.26	0.44	0.47	1.27	1.22	4.10	2.68	0.99	0.29	0.11	0.08	12.08
93-94	0.08	0.52	2.13	2.44	3.14	3.08	3.37	2.20	0.56	0.23	0.16	0.08	17.99
94-95	0.16	4.54	8.09	2.36	2.13	2.70	3.05	5.30	0.99	0.52	0.16	0.08	30.07
95-96	0.18	0.18	0.18	0.98	1.06	2.90	14.44	10.87	1.79	0.75	0.29	0.21	33.86
Mean	0.15	0.46	0.82	0.76	1.32	3.72	5.34	2.79	0.91	0.26	0.11	0.08	16.72
Maximum	0.03	0.03	0.08	0.16	0.31	0.91	0.70	0.48	0.19	0.05	0.03	0.03	4.40
Minimum	0.03	0.03	0.08	0.16	0.31	0.91	0.70	0.48	0.19	0.05	0.03	0.03	4.40

Table 3.3.1.3(23) Monthly River Runoff (Rashtghan River at Rashtghan)

(unit = MCM)

Code = 7-1-1-27 River = Rashtghan Station = Rashtghan Long = 50-09 Lat = 36-20 Elev = 1,565m C.A = 43sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.10	0.05	0.05	0.10	0.31	1.50	1.55	0.78	0.16	0.08	0.05	0.03	4.77
64-65	0.10	0.05	0.05	0.10	0.34	1.53	1.61	0.83	0.16	0.05	0.03	0.05	4.91
65-66	0.18	0.08	0.08	0.08	0.36	0.52	0.86	0.32	0.19	0.03	0.03	0.00	2.71
66-67	0.08	0.08	0.03	0.08	0.03	0.29	0.19	0.51	0.11	0.03	0.03	0.00	1.43
67-68	0.00	0.03	0.05	0.03	0.03	0.83	0.46	0.13	0.91	0.03	0.00	0.00	2.48
68-69	0.00	0.83	0.98	0.83	0.78	5.29	4.45	2.14	0.43	0.16	0.08	0.08	16.04
69-70	0.08	0.39	0.16	0.21	0.52	0.52	0.40	0.03	0.00	0.00	0.00	0.00	2.29
70-71	0.00	0.00	0.10	0.08	0.23	1.40	1.37	2.20	0.16	0.00	0.00	0.00	5.54
71-72	0.05	0.16	0.08	0.13	0.70	1.30	3.80	2.22	0.37	0.05	0.03	0.03	8.92
72-73	0.05	0.16	0.39	0.70	0.91	2.00	1.55	0.24	0.05	0.05	0.05	0.05	6.21
73-74	0.05	0.08	0.08	0.08	0.18	1.94	2.20	0.48	0.08	0.05	0.05	0.05	5.33
74-75	0.03	0.03	0.05	0.13	0.18	0.70	1.02	4.82	0.21	0.05	0.03	0.05	7.30
75-76	0.08	0.10	0.08	0.16	0.47	1.24	2.71	1.21	0.11	0.03	0.03	0.03	6.22
76-77	0.05	0.10	0.05	0.18	0.57	1.24	0.78	0.40	0.96	0.05	0.08	0.05	4.53
77-78	1.11	0.86	0.13	0.26	0.67	1.43	1.15	0.16	0.11	0.10	0.08	0.08	6.14
78-79	0.03	0.10	1.53	0.44	1.63	0.80	2.49	0.54	0.05	0.03	0.03	0.00	7.67
79-80	0.03	0.05	0.08	0.08	0.23	1.19	7.10	0.40	0.05	0.03	0.03	0.03	9.29
80-81	0.00	0.03	0.05	0.10	0.13	2.07	2.25	0.64	0.03	0.03	0.00	0.03	5.36
81-82	0.05	0.05	0.03	0.03	0.13	0.80	2.01	0.40	0.03	0.00	0.00	0.00	3.53
82-83	0.52	0.10	0.34	0.36	0.31	0.60	0.78	0.37	0.03	0.03	0.03	0.03	3.49
83-84	0.03	0.03	0.36	0.08	0.39	0.54	2.44	0.70	0.11	0.03	0.03	0.03	4.75
84-85	0.05	0.10	0.47	0.91	1.04	1.14	1.93	0.37	0.05	0.03	0.03	0.03	6.14
85-86	0.03	0.03	0.08	0.16	0.16	2.33	0.67	0.48	0.08	0.03	0.03	0.03	4.08
86-87	0.10	0.05	0.13	0.21	0.41	2.26	2.95	0.56	0.16	0.05	0.03	0.00	6.91
87-88	0.13	0.39	0.52	1.01	0.86	1.58	1.55	1.02	0.16	0.03	0.00	0.00	7.24
88-89	0.10	0.05	0.08	0.05	0.34	2.02	1.47	0.43	0.13	0.03	0.00	0.00	4.71
89-90	0.10	0.05	0.36	0.23	0.83	1.63	1.53	0.43	0.13	0.03	0.00	0.00	5.33
90-91	0.10	0.05	0.05	0.03	0.21	0.98	1.85	0.35	0.13	0.03	0.00	0.00	3.78
91-92	0.10	0.05	0.49	0.23	0.39	1.84	3.43	3.35	0.24	0.08	0.05	0.03	10.29
92-93	0.10	0.05	0.26	0.10	0.39	1.48	0.94	0.59	0.16	0.05	0.03	0.00	4.15
Mean	0.11	0.14	0.24	0.24	0.46	1.43	1.92	0.90	0.19	0.04	0.03	0.02	5.72
Maximum	1.11	0.86	1.53	1.01	1.63	5.29	7.10	4.82	0.96	0.16	0.08	0.08	16.04
Minimum	0.00	0.00	0.03	0.03	0.03	0.29	0.19	0.03	0.00	0.00	0.00	0.00	1.43

Table 3.3.1.3(24) Monthly River Runoff (Ashnestan River at Ashnestan)

(unit = MCM)

Code = 7-1-1-28 River = Ashnestan Station = Ashnestan Long = 50-11 Lat = 36-17 Elev = 1,450m C.A = 38sq.km

Year	MEHR	ABAN	AZAR	DAY	BAH.	ESF.	FAR.	ORD.	KHO.	TIR	MOR.	SHA.	ANNUAL
63-64	0.00	0.00	0.03	0.08	0.16	1.37	1.45	0.67	0.29	0.10	0.05	0.00	4.20
64-65	0.00	0.00	0.05	0.08	0.18	1.43	1.50	0.70	0.13	0.05	0.03	0.00	4.15
65-66	0.54	0.05	0.03	0.03	0.23	0.34	0.86	0.24	0.03	0.00	0.00	0.00	2.34
66-67	0.03	0.03	0.03	0.03	0.03	0.21	0.27	0.24	0.00	0.00	0.00	0.00	0.85
67-68	0.00	0.00	0.03	0.00	0.03	0.67	0.46	0.72	0.43	0.00	0.00	0.00	2.33
68-69	0.00	0.62	0.98	0.52	0.47	6.40	5.20	1.74	0.40	0.03	0.05	0.05	16.47
69-70	0.05	1.17	0.05	0.08	0.23	0.54	0.54	0.05	0.00	0.00	0.00	0.00	2.71
70-71	0.00	0.00	0.05	0.05	0.08	2.75	2.97	2.14	0.21	0.03	0.00	0.00	8.28
71-72	0.00	0.03	0.00	0.03	0.29	0.60	3.80	1.90	0.56	0.05	0.05	0.05	7.36
72-73	0.03	0.08	0.16	0.21	0.49	1.58	0.86	0.46	0.13	0.05	0.03	0.03	4.09
73-74	0.00	0.00	0.00	0.00	0.13	1.06	1.98	0.64	0.03	0.00	0.00	0.00	3.84
74-75	0.00	0.00	0.00	0.00	0.00	1.14	1.10	2.41	0.51	0.03	0.00	0.00	5.18
75-76	0.03	0.03	0.03	0.08	0.21	0.36	1.50	0.78	0.16	0.03	0.00	0.00	3.19
76-77	0.00	0.00	0.03	0.05	0.34	0.98	0.35	0.11	0.32	0.05	0.05	0.03	2.31
77-78	0.10	0.52	0.31	0.36	0.41	1.56	0.80	0.19	0.05	0.00	0.00	0.00	4.31
78-79	0.00	0.00	0.91	0.21	0.98	0.91	3.54	0.21	0.08	0.00	0.00	0.00	6.84
79-80	0.00	0.00	0.03	0.08	0.10	1.06	3.94	0.48	0.21	0.03	0.00	0.00	5.93
80-81	0.00	0.03	0.03	0.03	0.03	1.22	1.87	0.35	0.03	0.00	0.00	0.03	3.60
81-82	0.00	0.00	0.00	0.00	0.03	0.54	2.52	0.37	0.16	0.03	0.00	0.00	3.65
82-83	0.03	0.05	0.23	0.34	0.34	0.52	0.91	0.35	0.11	0.03	0.00	0.00	2.90
83-84	0.00	0.00	0.10	0.05	0.23	0.39	1.93	1.12	0.24	0.03	0.03	0.00	4.12
84-85	0.03	0.08	0.41	0.41	1.27	0.98	2.09	0.56	0.19	0.03	0.03	0.03	6.11
85-86	0.03	0.03	0.05	0.08	0.08	0.26	0.56	0.56	0.03	0.03	0.00	0.00	1.70
86-87	0.00	0.08	0.05	0.13	0.23	2.51	2.79	0.51	0.29	0.05	0.00	0.00	6.65
87-88	0.03	0.36	0.41	0.54	0.65	1.50	1.45	0.83	0.35	0.05	0.00	0.00	6.18
88-89	0.05	0.08	0.00	0.05	0.18	2.18	1.37	0.43	0.13	0.03	0.00	0.00	4.49
89-90	0.03	0.08	0.26	0.13	0.62	1.56	1.42	0.43	0.16	0.03	0.00	0.00	4.70
90-91	0.03	0.08	0.03	0.03	0.08	0.62	1.74	0.37	0.08	0.03	0.00	0.00	3.08
91-92	0.00	0.08	0.39	0.13	0.23	1.87	3.24	2.41	0.29	0.10	0.05	0.00	8.80
92-93	0.03	0.08	0.18	0.08	0.23	1.37	0.86	0.54	0.16	0.03	0.00	0.00	3.55
Mean	0.03	0.12	0.16	0.13	0.29	1.28	1.80	0.75	0.19	0.03	0.01	0.01	4.80
Maximum	0.54	1.17	0.98	0.54	1.27	6.40	5.20	2.41	0.56	0.10	0.05	0.05	16.47
Minimum	0.00	0.00	0.00	0.00	0.00	0.21	0.27	0.05	0.00	0.00	0.00	0.00	0.85