トルコ共和国

ザマント・ギョクタシュ水力発電開発計画

調 査 報 告 書

付　　録

1989年10月

国 際 協 力 事 業 団

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APPENDIX

A-1 POWER DEMAND FORECAST AND SUPPLY PROGRAM

A-1 POWER DEMAND FORECAST AND SUPPLY PROGRAM

Table A-1-1 Construction Schedule of Power Plants in Turkey (1/5 - 5/5)

TABLE A-1-1 CONSTRUCTION SCHEDULE OF POWER PLANTS IN TURKEY (1/5)

updated 89-5-2

Year	Thermal Power Plant						Hydraulic Plant					Total		
	Name of Station	Unit #	Fuel Type	Capacity (MW)	Annual Eng. (GWH) *	Retire (MW)	Name of Station	Unit #	Capacity (MW)	Annual Energy (GWH) Ave	Firm	Installed Capacity(MW)	Energy (GW) Ave.	Firm
1987	Existing	—	—	7,489	40,370		Existing	—	5,003	17,558	14,046	12,492	57,928	54,416
1988	Kangal	1	oil	150	(900)*		Altinkaya	2,3,4	3*175					
	Catalagzi B	1	Stone coal	150	(900)		Karakaya	4,5,6	3*300					
	Hamitbat	3,4	N.Gas	2*100			Kokluce	1,2	2*45					
	Ambarli	1,2	N.Gas	2*138.8			Kaplukaya	1,2,3	3*18					
						-437	Others		14					
Sub-total				341					1,583					
Total				7,830	42,205				6,586	23,113	18,490	14,416	65,318	60,695
1989	Kangal	2	lignite	150	315 (900)		Menzelet	1,2,3,4	4*30	155 (590)	122 (515)			
	Seyitomer	4	lignite	150	405 (900)		Kilickaya	1,2	2*60	209 (332)	174 (227)			
	Hamitbat	1,2	N.Gas	2*100	300 (1200)		Adiguzel	1,2	2*31	81 (280)	5 (15)			
	Ambarli	3,4,5,6	N.Gas	4*138.8	1,624 (3331)		Derbent	1,2,3	3*18.7	119 (257)	94 (201)			
						-163	Yenice	1	12.	2 (122)	2 (92)			
	Others				889		Others		54	1,343	692			
Sub-total				892	3,533				424	1,909	1,089			
Total				8,722	45,738				7,010	25,022	19,579	15,732	70,760	65,317
1990	Kemerkoy	1,2	Lignite	2*210	504 (2520)		Ataturk	1,2	2*300	1,680 (2200)	1,680 (1850)			
	Catalagzi B	2	Stone coal	150	360 (900)		Yenice	2,3	2*12	54 (122)	35 (92)			
	Soma B	5	Lignite	165	247 (990)		Gezende	1,2,3	3*50	210 (528)	51 (130)			
	Ambarli	1,2.3	N.Gas	3*172.7	1,554 (3109)		Catalan	1,2.3	3*51	305 (509)	163 (271)			
	Orhaneli	1	Lignite	210	441 (1260)		Kralkizi	1,2	2*45	33 (146)	25 (111)			
	Denizli	2	Geothermal	20	6 (120)		Kuzgun	1,2,3,4	4*5	13 (36)	0 (0)			
							Camligoze	1	16.2	5 (88)	5 (77)			
	Others				2,917		Others		342.8	1,194	718			
Sub-total				1,483	6,029				1,396	3,494	2,677			
Total				10,205	51,767				8,406	28,516	22,256	18,611	80,283	74,032
1991	Soma B	6	Lignite	165	544 (990)		Ataturk	3,4,5	3*300	2,860 (3310)	2,600 (2275)			
	Kemerkoy	3	Lignite	210	441 (1260)		Dicle	1,2	2*55	208 (298)	159 (228)			
	Adiyaman	1		210	63 (1260)		Ozluce-Peni	1,2	2*85.5	166 (87)	207 (145)			
	Can-Lapseki	1		150	46 (923)		Batman	1,2,3	3*62	(182)	(251)			
							Kurtun	1,2	2*40	(34)	(95)			
	Others				5,073		Beykoy	1,2	2*5					
							Others		183	3,676	2,400			
Sub-total				735	6,167				1,640	6,910	5,366			
Total				10,940	57,934				10,046	35,426	27,622	20,986	93,360	85,556
1992	Bingol-Karlio	1		60	18 (360)		Ataturk	6,7,8	3*300	2,060 (8850)	2,000 (7400)			
	Iskenderun	1,2,3,4	Import-coal	4*350	3,424 (7762)		Urfa	1,2,3	3*16	74	0			
							Others		5	1,286	143			
	Others				3,780									
									953	3,420	2,143			
				1,460	7,222				10,999	38,846	29,765			
				12,400	65,156							23,399	104,002	94,921
1993	Tekirdag	1,2	Import-coal	2*480	2,779 (5760)		Ozkoy		150	146	99			
	Aliaga	1	Import-coal	500	811 (3000)		Kayraktepe		420	132 (990)	85 (640)			
							Akkoy 1		60	87 (263)	57 (174)			
	Others				5,591		Torul		100	86 (322)	35 (131)			
							Others		90	839	297			
Sub-total				1,460	9,181				820	1,290	541			
Total				13,860	74,337				11,819	40,136	30,338	25,679	114,473	104,675

(NOTE) * Annual Energy GWH: Commissioning year (after next next year)

** Imported Coal fired power plants are included

TABLE A-1-1 CONSTRUCTION SCHEDULE OF POWER PLANTS IN TURKEY (2/5)

YEAR	Thermal Power Plant			Hydraulic Power Plant				TOTAL		
	Name of P. Station	Inst. capacity (MW)	Annual Energy (GWH)	Name of P. Station	Inst. Capacity (MW)	Annual Production Energy(GWH) Average	Firm	Installed Capacity(MW)	Annual Energy (GWH) Agerage	Firm
1994	Adiyaman-Golbasi	177	1,062	Karkamis	180	650	460			
	Imported Coal P.	500	3,000	Yedigoze	300	980	420			
	Others	----	1,428	Duzkesme	168	916	678			
				Others	----	1,044	----			
Sub-total		677	5,490		648	3,590	1,558			
Total		14,537	79,827		12,262	43,726	31,896	26,799	123,553	111,723
1995	Cankiri-Orta	150	900	Birecik	672	2,520	1,800			
	Elbistan A 5,6	2*340	2*1,950							
	Import N Gas	1*600	3,600							
	Others		600							
Sub-total		1,430	9,000		672	2,520	1,800			
Total		15,967	88,827		12,934	46,246	33,696	28,901	135,073	122,523
1996	Amasra 1	150	900	Cizre	240	1,205	947			
	Yatagan 4	210	1,260	Klavuzlu	54	100	7			
	Imported coal P.	350	2,530	Alpaslan	160	485	416			
	Importyed N. Gas	600	3,600	Boyapat-Kepez	513	1,470	925			
	(Retirment)	-173	-920	Ilisu-1	600	2,030	1,360			
Sub-total		1,137	7,370		1,567	5,290	3,655			
Total		17,104	96,197		14,501	51,536	37,351	31,605	147,733	133,548
1997	Amasra 2	150	900	Ilisu-2	600	1,800	1,090			
	Saray 1,2	2*150	2*900							
	Seyitomer B 1	150	900	(Retirment)	-250					
	Orhaneli 2	210	1,260							
	Imported Coal P.	2*350	2*2,530							
	Imported Coal P.	480	3,470							
	(Retirment)	-350	---							
Sub-total		1,640	13,390		350	1,800	1,090			
Total		18,744	109,587		14,851	53,336	38,441	33,595	162,923	148,028
1998	Cayirhan B 1,2	2*150	2*900	Deriner-Artvin	670	2,120	1,340			
	Amasra 3,4	2*150	2*900	Demirkapi	105	365	130			
	Elbistan B 1,2	2*340	2*1,950	Borcka	300	1,039	600			
	Beysehir	340	1,950	Mulatli	115	445	255			
				Uzuncayir	72	309	171			
				Lamas 3	16	84	40			
				Lamas 4	22	109	48			
				Tozkoy	120	347	148			
Sub-total		1,620	9,450		1,420	4,818	2,732			
Total		20,364	119,037		16,271	58,154	41,173	36,635	177,191	160,210
1999	Seyitomer B 2	150	900							
	Cayirhan B 3,4	2*150	2*900							
	Potansiyel 1	150	900							
	Soma C 1-3	3*165	3*990							
	Kemerkoy 4	210	1,260							
	Mugla Yoresi 1	210	1,260							
	Elbistan B 3,4	2*340	2*1,950							
	Ithal Komur	350	2,530							
Sub-total		2,545	15,520		0	0	0			
Total		22,909	134,557		16,271	58,154	41,173	2,545	15,520	15,520

TABLE A-1-1 CONSTRUCTION SCHEDULE OF POWER PLANTS IN TURKEY (3/5)

YEAR	Thermal Power Plant			Hydraulic Power Plant				TOTAL		
	Name of P. Station	Inst. capacity (MW)	Annual Energy (GWH)	Name of P. Station	Inst. Capacity (MW)	Annual Production Energy (GWH) Average	Firm	Installed Capacity (MW)	Annual Energy (GWH) Agerage	Firm
2000	Potansiyel	3*150	3*900	Yamanli II	120	393	120			
	Soma C 4	165	990	Yamanli III	30	175	76			
	Mugla Yoresi 2,3	2*210	2*1,260	Kahta	75	171	125			
	Ithal Komour	350	2,530	Patopasa	22	47	30			
	Ithal Komour	2*480	3,470	Tatlar	60	203	83			
				Dutdere	25	70	15			
				Ilica	88	196	70			
				Indere	62	236	181			
				Kirazlikopru	40	112	74			
				Koprubasi	84	213	151			
				Kolca	90	227	135			
				Kocali	40	120	0			
				Doganli	462	1,327	0			
Sub-total		2,345	12,210		1,198	3,490	1,060			
Total		25,254	146,767		17,469	61,644	42,233	3,543	15,700	13,270
2001	Potansiyel 5,6	2*150	2*900							
	Soma C 5,6	2*165	2*990							
	Mugla Yoresi 4	210	1,260							
	Ithal Komur	3*350	3*2,530							
Sub-total		1,890	12,630		0	0	0			
Total		27,144	159,397		17,469	61,644	42,233	1,890	12,630	12,090
2002	Soma D 1-3	3*165	3*990	Kargi	194	246	140			
	Elbistan C 1,2	2*340	2*1,950	Gursogut	242	276	159			
	Ithal Komur	350	2,530	Yamula	200	443	345			
				Hakkari	322	1,043	0			
				Cukurca	245	796	0			
				Gullubag	64	292	183			
				Ayvali	70	228	184			
				Baglik	60	211	103			
				Bayram	54	172	94			
				Ulubat Cinarcik	255	567	450			
				Obruk	180	473	336			
				CevizlikK	90	397	140			
				Kadincik IV	50	186	92			
				Kopru	189	481	149			
				Peke	170	426	123			
				Camlica I	140	226	1			
				Dalaman	50	205	111			
				Sandalcik	175	514	172			
				Narli	130	400	102			
				Beskonak	200	659	380			
				Konaktepe	90	289	250			
				Others	770	2,979	1,302			
Sub-total		1,525	9,400		3,940	11,509	4,816			
Total		28,669	168,797		21,409	73 153	47,049	5,465	20,909	14,216
2003	Soma D 4,5	2*165	2*990	Akkoy II	180	603	399			
	Elbistan C 3,4	2*340	2*1,950	Buyukduz	60	174	90			
	Ithal Komur	2*480	2*3,470	Artvin (Inanli)	320	999	698			
				Arkun (Karakale)	201	801	614			
				Beyler	90	240	95			
				Laleli	85	180	49			
				Ispir	58	267	249			
				Aksu	115	355	212			
				Kavsak Bendi	120	564	295			
				Karyagmaz	155	310	239			
				Kizkayasi	114	261	200			
				Others	451	1724	825			
Sub-total		1,970	12,820		1,929	6,478	3,965			
Total		30,639	181,617		23,338	79,631	51,014	3,899	19,298	16,785

TABLE A-1-1 CONSTRUCTION SCHEDULE OF POWER PLANTS IN TURKEY (4/5)

YEAR	Thermal Power Plant			Hydraulic Power Plant				TOTAL		
	Name of P. Station	Inst. capacity (MW)	Annual Energy (GWH)	Name of P.Station	Inst.Capacity (MW)	Annual Production Energy(GWH) Average	Firm	Installed Capacity(MW)	Annual Energy (GWH) Agerage	Firm
2004	Potansiyel 7,8	2*150	2*900	Meydancik	53	144	57			
	Soma D 6	165	990	Sarigol	139	280	48			
	Elbistan D 1,2	2*340	2*1,950	Durak	120	547	228			
	Ithal Komour	350	2,530	Kesikkopru	63	375	268			
	Ithal Komour	480	3,470	Camlica	110	495	209			
				Silvan	300	1,500	1,240			
				Others	1,034	4,669	2,070			
Sub-total		1,975	12,690		1,819	8,010	4,120			
Total		32,614	194,307		25,157	87,641	55,134	3,794	20,700	16,810
2005	Elbistan D 3,4	2*340	2*1,950	Kayakopru	55	157	129			
	Ithal Komour	350	2,530	Kizilagac	63	257	39			
	Ithal Komour	2*480	2*3,470	Koroglu-Sevimli	150	443	272			
				Palu	78	413	290			
				Kozbuku 1	100	283	166			
				Topcam	90	182	138			
				Yumrucaktas	87	487	418			
				Zarova 2	128	247	1			
				Niksar	97	560	426			
				Akkopru	115	343	176			
				Dilek	105	386	321			
				Beyler	100	240	95			
				Kaletepe	60	215	166			
				Kanadil B	55	178	115			
				Kanadil 1	103	371	240			
				Kanadil 2	103	362	233			
				Others	854	3,376	1,365			
Sub-total		1,990	13,370		2,343	8,500	4,590			
Total		34,604	207,677		27,500	93,141	59,724	4,333	21,870	17,960
2006	Potansiyel 9,	150	900	Gurpinar	50	128	86			
	Nukleer	2*1,000	2*6,750	Kalekoy	183	963	712			
				Kayalar	83	176	149			
				Koclu	65	184	153			
				Kovanlik	75	207	137			
				Ordu	55	215	165			
				Akimli	110	483	338			
				Alarahan	120	335	211			
				Bagistas	188	1,040	730			
				Denizgolu	105	300	78			
				Dereli	60	230	103			
				Garzan	90	355	180			
				Karakurt	100	355	191			
				Kargi	78	390	298			
				Others	586	2,394	1,389			
Sub-total		2,150	14,400		1,948	7,755	4,920			
Total		36,754	222,077		29,448	103,896	64,644	5,465	20,909	14,216
2007	Ithal Komur	2*480	2*3,470	Besikkaya	160	779	1			
	Nukleer	1,000	6,750	Cat	140	405	247			
				Damlapinar	80	400	250			
				Guzeldere	73	168	37			
				Harmanli-Kura	60	360	340			
				Incilitas-Kura	100	418	410			
				Kalekoy	78	460	342			
				Alkumru	176	807	383			
				Cetin	244	1,100	533			
				Keskin	164	740	359			
				Kigi	55	475	450			
				Pervari	120	542	255			
				Others	794	4,127	2,158			
Sub-total		1,960	13,690		2,244	10,781	5,765			
Total		38,714	235,767		31,692	114,677	70,409	4,204	24,471	19,455

TABLE A-1-1 CONSTRUCTION SCHEDULE OF POWER PLANTS IN TURKEY (5/5)

YEAR	Thermal Power Plant			Hydraulic Power Plant				TOTAL		
	Name of P. Station	Inst. capacity (MW)	Annual Energy (GWH)	Name of P. Station	Inst. Capacity (MW)	Annual Production Energy (GWH) Average	Firm	Installed Capacity (MW)	Annual Energy (GWH) Agerage	Firm
2008	Potanstyel 10	150	900							
	Ithal Komur	4*350	4*2,530							
	Ithal Komur	480	3,470							
	Nukleer	1,000	6,750							
Sub-total		3,030	21,240		0	0	0			
Total		41,744	257,007		31,692	114,677	70,409	3,033	21,240	21,240

A-2 METEOROLOGICAL AND HYDROLOGICAL DATA

A-2 METEOROLOGICAL AND HYDROLOGICAL DATA

List of Tables

Table A-2-1 Monthly Flow Volume at No. 1801 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1935	********	********	********	********	********	********	********	********	********	51.91	103.74	164.84	**********
1936	83.27	134.33	156.13	141.86	143.30	112.52	65.97	50.28	44.76	48.21	47.75	116.84	1145.23
1937	73.70	169.66	248.24	217.28	142.59	73.51	56.61	48.08	41.40	44.82	73.31	119.38	1308.58
1938	97.63	75.29	143.38	259.06	164.15	82.84	65.98	55.63	43.77	42.64	40.17	41.33	1111.87
1939	58.65	67.56	133.78	231.53	137.81	80.61	62.38	48.26	44.68	43.93	40.82	51.14	1001.16
1940	120.41	93.63	171.57	226.95	108.59	72.21	54.00	45.79	40.25	42.30	49.06	109.33	1134.09
1941	107.78	147.89	249.09	167.31	100.43	69.67	57.33	48.40	42.41	42.80	40.88	40.92	1114.92
1942	45.90	61.34	270.37	241.15	120.24	63.37	50.89	46.14	40.71	41.33	69.41	58.19	1109.05
1943	75.10	57.87	86.33	239.99	145.90	84.60	60.15	52.14	44.57	43.41	42.68	41.85	974.61
1944	45.21	57.89	239.64	208.04	127.43	75.01	52.59	45.34	40.78	40.75	41.06	42.23	1015.98
1945	45.28	38.91	70.55	196.33	109.90	60.06	47.29	40.57	36.15	36.23	34.94	38.96	755.16
1946	40.68	41.77	140.56	175.94	163.12	68.12	53.87	42.82	36.52	123.02	35.92	38.64	960.98
1947	57.31	68.47	229.31	161.62	86.49	64.64	44.78	39.36	36.17	39.25	73.03	107.20	1007.63
1948	76.01	163.62	96.62	220.29	168.13	97.82	70.23	50.79	39.23	37.78	36.98	40.85	1098.36
1949	38.29	34.94	92.61	202.95	139.78	78.62	46.95	36.29	38.81	35.85	38.32	38.26	821.66
1950	36.28	61.29	200.28	198.37	193.51	73.28	46.98	36.86	34.35	54.64	35.23	36.18	1007.25
1951	36.44	55.99	155.23	141.13	160.94	102.12	56.96	40.56	39.98	46.85	46.39	44.05	926.63
1952	44.06	73.15	167.41	300.46	142.72	90.77	62.83	48.29	42.94	6.43	42.35	48.70	1070.12
1953	64.48	121.45	113.11	303.35	164.00	89.84	65.08	51.87	44.76	43.93	42.92	40.61	1145.40
1954	43.64	51.10	148.85	248.35	159.94	87.19	61.58	52.00	44.13	44.24	43.55	70.30	1054.87
1955	79.43	73.86	108.57	105.36	97.58	54.90	48.01	41.52	36.11	36.85	39.38	55.39	776.95
1956	54.99	106.06	130.56	199.96	129.87	70.55	56.25	47.82	43.23	42.58	41.26	42.72	965.86
1957	37.07	48.62	133.75	86.52	81.56	62.49	50.05	45.24	44.60	43.37	42.98	67.33	743.58
1958	121.37	106.40	198.66	188.57	119.78	84.40	66.55	56.89	52.23	51.06	47.52	49.85	1143.28
1959	58.33	50.01	116.76	151.61	99.76	72.75	54.00	49.31	44.86	47.60	45.83	45.17	835.98
1960	69.40	74.60	117.75	151.09	125.59	74.86	61.79	54.48	48.38	34.08	32.38	31.70	876.09
1961	33.26	38.15	53.06	76.11	50.77	34.74	30.27	29.38	27.98	28.50	27.66	38.55	468.44
1962	37.76	58.24	171.60	113.21	90.18	49.79	39.90	35.71	29.87	31.10	29.98	81.18	768.53
1963	148.33	153.91	175.42	207.86	162.55	112.48	65.51	48.27	45.14	42.38	39.05	38.56	1239.48
1964	32.35	31.38	99.93	66.23	49.32	39.74	32.05	27.57	27.23	28.18	28.39	33.35	495.71
1965	32.90	38.28	164.40	204.79	112.40	63.47	46.20	36.22	34.04	33.92	33.92	63.93	864.47
1966	238.51	167.56	198.85	218.50	120.95	69.53	53.50	44.80	42.41	41.52	40.48	110.00	1346.60
1967	108.10	67.94	133.20	221.75	146.56	79.61	62.43	48.95	43.76	40.97	47.22	74.00	1074.50
1968	88.91	88.82	358.19	304.51	140.55	86.10	55.68	47.16	43.10	42.76	48.46	79.28	1383.51
1969	80.00	68.45	267.62	221.40	189.06	93.36	66.61	51.84	43.67	41.38	39.10	60.49	1222.97
1970	60.55	112.01	180.31	136.05	72.79	52.36	42.54	36.10	33.65	32.75	41.76	60.36	861.23
1971	46.06	39.33	102.45	161.71	89.41	51.14	37.63	38.50	31.95	31.20	30.33	32.07	691.78
1972	28.99	28.35	60.64	91.39	96.68	49.44	33.14	28.60	29.98	33.33	33.51	29.52	543.58
1973	26.28	35.55	97.01	126.39	68.64	42.37	30.33	28.90	28.51	28.17	27.62	30.46	570.22
1974	28.78	28.49	103.60	87.83	58.25	34.85	27.55	27.12	26.52	28.20	27.94	42.60	521.75
1975	42.12	37.74	166.33	237.12	189.22	78.04	50.08	38.02	35.60	35.33	33.58	31.27	974.42
1976	43.08	37.80	114.38	269.52	160.45	91.55	53.94	44.28	46.00	52.77	48.84	96.19	1058.81
1977	51.40	113.85	216.02	240.39	159.38	78.93	56.16	42.25	38.28	38.11	36.81	39.36	1110.93
1978	68.52	135.31	184.22	205.76	138.24	70.77	48.99	41.79	36.72	46.49	51.50	73.16	1101.48
1979	206.59	133.18	112.15	102.66	89.33	63.95	46.86	37.22	35.09	36.69	49.10	60.51	973.33
1980	62.44	62.91	259.03	387.28	277.28	105.73	71.47	56.21	44.66	43.65	42.84	63.06	1476.56
1981	75.76	93.23	312.62	178.92	136.77	79.99	49.59	39.36	38.41	34.82	44.44	127.85	1211.75
1982	134.09	62.02	111.79	194.69	136.08	69.98	45.83	40.30	40.01	37.26	27.37	26.84	926.25
1983	31.30	35.25	133.71	215.81	117.11	66.29	47.72	30.25	27.68	********	********	********	**********
TOTAL	3316.80	3703.45	7695.66	9234.94	6185.09	3510.93	2513.08	2073.54	1876.05	1975.34	2057.75	2874.55	45991.57
MEAN	69.10	77.16	160.33	192.39	128.86	73.14	52.36	43.20	39.08	41.15	42.87	59.89	978.54
MAX	238.51	169.66	358.19	387.28	277.28	112.52	71.47	56.89	52.23	123.02	103.74	164.84	1476.56
MIN	26.28	28.35	53.06	66.23	49.32	34.74	27.55	27.12	26.52	6.43	27.37	26.84	468.44

Table A-2-2 Monthly Flow Volume at No. 1802 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1935	********	********	********	********	********	********	********	********	********	15.83	49.15	48.38	**********
1936	30.95	38.76	65.50	97.62	95.10	81.64	49.99	41.83	37.34	39.07	33.22	43.74	654.77
1937	46.87	68.01	107.99	148.65	109.59	57.60	38.98	33.52	29.33	31.00	40.44	49.81	760.79
1938	35.77	37.59	46.18	160.46	115.73	86.16	41.43	37.14	32.75	31.10	37.92	40.05	672.29
1939	34.34	32.17	76.96	170.20	125.76	70.17	50.03	43.45	41.23	42.77	39.23	41.02	767.33
1940	48.06	51.70	80.17	178.98	107.30	68.45	44.16	34.62	32.43	35.70	40.75	49.71	772.07
1941	44.94	63.72	125.36	173.91	110.63	57.41	47.62	41.04	36.12	39.01	38.19	34.78	812.73
1942	34.98	37.80	102.72	190.50	129.44	57.68	38.45	33.36	34.21	40.10	53.99	51.25	804.50
1943	43.18	35.55	49.19	173.43	151.10	72.08	41.09	33.52	30.26	33.26	32.74	31.31	726.72
1944	32.09	43.02	102.36	129.20	135.63	80.14	44.41	36.42	33.01	33.45	35.94	33.72	739.40
1945	32.76	28.54	38.76	108.20	124.11	66.98	36.75	29.86	29.02	31.81	31.02	32.51	590.32
1946	29.61	28.68	53.03	103.48	127.27	58.98	36.51	31.23	29.76	33.36	30.85	31.67	594.42
1947	34.57	42.15	90.91	91.19	68.24	56.56	32.58	24.07	27.48	27.34	68.44	59.82	623.35
1948	48.24	48.22	48.54	147.61	174.17	105.45	50.55	40.09	37.37	37.71	33.87	34.39	806.20
1949	30.82	27.32	55.24	105.49	140.87	58.12	32.82	25.94	28.01	31.46	32.20	30.33	598.61
1950	25.08	27.35	71.56	117.67	132.58	53.18	36.12	28.89	27.81	31.45	28.82	27.76	608.28
1951	27.44	24.84	70.00	77.43	93.91	61.71	35.93	28.41	26.72	33.17	32.61	35.64	547.81
1952	35.67	54.92	68.47	185.98	120.24	50.82	27.83	22.65	18.27	20.94	22.80	23.80	672.39
1953	23.53	31.55	36.18	189.32	163.33	91.72	36.33	24.81	23.69	22.67	23.26	21.14	687.53
1954	22.89	27.86	85.40	163.33	********	********	********	********	********	********	********	********	**********
TOTAL	660.80	749.75	1394.51	2712.65	2225.03	1204.86	721.57	590.87	554.82	611.20	705.45	720.85	12439.49
MEAN	34.78	39.46	73.40	142.77	123.61	66.94	40.09	32.83	30.82	32.17	37.13	37.94	691.08
MAX	48.24	68.01	125.36	190.50	174.17	105.45	50.55	43.45	41.23	42.77	68.44	59.82	812.73
MIN	22.89	24.84	36.18	77.43	68.24	50.82	27.83	22.65	18.27	15.83	22.80	21.14	547.81

Table A-2-3 Monthly Flow Volume at No. 1803 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1938	********	********	********	********	********	********	********	********	********	********	11.16	38.13	**********
1939	38.12	30.36	66.55	147.36	108.29	59.25	39.14	34.68	32.33	33.37	31.32	33.75	654.52
1940	38.47	38.82	60.11	147.35	86.50	57.71	36.42	30.52	29.01	31.42	34.05	39.73	630.11
1941	36.57	50.89	101.78	159.97	95.79	49.20	41.36	35.74	32.57	33.83	32.63	32.27	702.62
1942	32.03	29.25	72.43	165.57	103.05	46.25	32.20	29.42	28.57	31.71	41.63	40.31	652.43
1943	33.75	27.12	32.25	129.21	107.21	49.87	30.34	27.42	26.03	26.99	26.13	28.52	544.82
1944	29.04	27.11	54.65	73.81	73.96	41.12	26.60	25.52	24.42	********	********	********	**********
TOTAL	207.99	203.55	387.77	823.27	574.79	303.40	206.06	183.30	172.93	157.33	176.93	212.71	3184.51
MEAN	34.67	33.93	64.63	137.21	95.80	50.57	34.34	30.55	28.82	31.47	29.49	35.45	636.90
MAX	38.47	50.89	101.78	165.57	108.29	59.25	41.36	35.74	32.57	33.83	41.63	40.31	702.62
MIN	29.04	27.11	32.25	73.81	73.96	41.12	26.60	25.52	24.42	26.99	11.16	28.52	544.82

Table A-2-4 Monthly Flow Volume at No. 1804 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1940	********	********	********	********	********	********	********	********	********	25.87	24.70	29.54	**********
1941	25.10	36.09	65.38	89.58	55.63	36.24	32.44	27.48	25.22	25.95	25.06	28.36	475.54
1942	31.58	24.94	54.16	102.00	59.76	35.43	26.92	24.99	24.08	25.69	27.19	29.11	465.84
1943	27.43	24.65	29.38	81.75	56.73	33.64	27.35	25.42	23.59	24.53	23.54	24.69	402.70
1944	24.96	25.93	43.87	46.22	43.93	35.35	26.68	25.12	23.48	24.16	23.48	24.16	367.35
1945	24.69	22.31	25.34	47.74	42.67	27.50	23.92	23.01	22.03	22.79	22.14	23.22	327.36
1946	22.69	21.00	26.38	35.80	36.77	23.69	23.11	22.47	21.80	23.60	22.03	22.74	302.08
1947	22.71	21.05	36.40	33.72	24.83	27.19	24.05	22.39	22.06	22.66	23.30	24.45	304.82
1948	24.69	22.43	24.86	56.64	63.91	39.06	27.78	25.28	23.61	23.92	22.89	23.81	378.87
1949	24.00	21.99	30.99	43.88	43.68	23.92	22.63	22.42	21.80	22.58	21.98	23.03	322.91
1950	23.46	21.48	27.40	41.63	55.79	25.12	22.15	21.48	20.66	21.48	20.74	21.48	322.87
1951	21.56	19.50	35.17	26.96	32.76	28.90	22.66	21.45	20.74	21.56	20.74	21.61	293.60
1952	23.01	26.83	42.35	85.67	49.66	31.16	26.65	24.29	23.30	23.28	22.24	23.14	401.57
1953	23.49	21.63	24.35	75.45	55.50	38.23	28.28	25.44	24.08	24.51	23.72	24.21	388.89
1954	24.16	24.94	53.38	115.03	86.22	50.75	40.36	35.57	34.37	34.36	32.69	33.05	564.89
1955	34.04	29.76	35.19	41.78	********	********	********	********	********	********	********	********	**********
1956	********	********	********	********	********	********	********	********	********	********	********	********	**********
1957	********	********	********	********	********	********	********	********	********	********	********	********	**********
1958	********	********	********	********	********	********	********	********	********	********	********	********	**********
1959	********	********	********	********	********	********	********	********	********	********	********	********	**********
1960	********	********	********	********	********	********	********	********	********	********	********	********	**********
1961	********	********	********	********	********	********	********	********	********	12.11	12.42	14.62	**********
1962	14.78	13.57	53.09	44.74	34.79	21.00	17.30	15.91	15.45	16.69	15.86	22.02	285.19
1963	29.41	29.39	50.03	75.63	68.62	********	********	28.87	28.23	********	********	********	**********
1964	********	********	********	52.85	39.67	29.21	19.77	17.73	18.71	20.01	19.34	19.55	**********
1965	19.36	18.87	60.18	80.12	55.84	31.21	25.26	21.40	22.08	24.21	23.20	24.91	406.65
1966	34.85	34.50	49.98	69.36	50.89	30.35	26.62	27.40	25.79	25.31	24.16	27.53	426.74
1967	30.69	25.89	39.96	103.16	95.14	45.59	34.79	33.88	29.06	29.39	30.22	34.04	532.32
1968	30.72	36.58	93.88	130.79	90.93	60.24	36.53	34.47	35.56	********	********	********	**********
TOTAL	540.39	523.33	901.71	1480.50	1143.70	673.79	535.25	526.49	505.70	495.16	481.62	519.31	6970.18
MEAN	25.73	24.92	42.94	67.30	54.46	33.69	26.76	25.07	24.08	23.58	22.93	24.73	387.23
MAX	34.85	36.58	93.88	130.79	95.14	60.24	40.36	35.57	35.56	34.36	32.69	34.04	564.89
MIN	14.78	13.57	24.35	26.96	24.83	21.00	17.30	15.91	15.45	12.11	12.42	14.62	285.19

Table A-2-5 Monthly Flow Volume at No. 1805 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1938	********	********	********	********	********	********	********	********	********	********	********	102.23	**********
1939	159.31	149.91	500.09	493.10	216.03	110.05	76.03	63.18	56.88	61.52	56.58	74.76	2017.43
1940	168.08	278.58	327.45	471.61	205.48	119.78	81.10	64.62	55.96	59.34	76.86	203.76	2112.62
1941	232.91	286.45	467.83	297.97	153.77	92.69	73.46	63.25	56.58	59.37	54.56	69.49	1908.31
1942	98.85	193.92	557.50	535.98	191.37	95.72	70.43	59.59	53.92	58.80	122.68	86.34	2125.09
1943	257.91	164.51	175.39	619.19	303.31	138.52	83.69	65.78	55.80	57.34	53.67	54.09	2029.22
1944	74.56	218.50	671.05	524.71	243.31	115.44	74.96	61.51	53.17	53.47	55.56	58.32	2204.55
1945	112.85	89.69	150.79	324.31	189.28	86.37	60.91	51.61	46.13	47.55	46.61	70.29	1276.37
1946	69.83	141.90	338.88	407.26	339.46	119.45	74.92	58.96	51.28	69.61	50.71	71.32	1793.60
1947	211.62	269.50	479.12	248.92	125.89	87.28	64.35	52.07	47.37	51.74	268.33	308.16	2214.35
1948	190.14	566.66	278.86	596.21	396.88	154.94	91.35	71.51	60.37	57.95	55.70	55.20	2575.79
1949	72.35	76.79	272.98	457.46	249.90	91.92	65.51	52.02	49.78	47.45	50.45	55.02	1541.62
1950	61.81	71.88	230.75	253.45	283.91	102.54	67.69	52.82	47.25	50.96	45.19	49.41	1317.66
1951	96.47	72.12	258.31	224.62	186.78	95.22	64.45	53.80	50.43	55.22	59.25	146.10	1362.78
1952	113.97	329.26	519.06	589.11	235.87	128.82	83.61	64.89	56.64	55.11	69.61	102.57	2348.50
1953	192.29	439.02	326.96	964.86	404.05	176.01	99.07	72.26	60.59	56.90	60.28	53.75	2906.05
1954	127.40	127.89	377.22	628.12	313.40	128.79	81.76	64.11	54.97	52.74	64.36	240.37	2261.13
1955	212.61	162.00	223.74	199.14	186.15	84.11	91.68	57.50	45.65	47.47	65.49	70.80	1446.34
1956	82.14	293.55	272.08	390.36	204.89	96.78	66.30	54.68	51.26	50.19	50.11	53.86	1666.20
1957	51.35	68.62	332.41	113.15	126.20	76.43	52.96	45.90	45.17	45.91	46.41	249.45	1255.96
1958	522.82	268.49	640.11	427.20	191.10	113.58	70.41	57.37	51.59	50.31	47.63	53.70	2494.32
1959	201.89	116.37	225.16	334.64	156.31	94.96	61.82	51.92	47.73	50.00	47.24	56.82	1444.87
1960	123.50	105.75	283.84	371.21	240.44	106.49	68.77	55.49	50.08	51.11	51.60	52.41	1560.68
1961	62.99	149.81	110.69	153.46	92.27	57.04	43.47	39.17	39.99	40.31	39.67	186.30	1015.16
1962	88.30	266.27	437.64	244.15	205.20	93.82	65.04	52.82	47.35	48.63	45.41	310.06	1904.69
1963	394.80	464.66	405.48	480.47	410.75	256.54	121.87	83.29	72.12	68.10	61.13	62.48	2881.67
1964	55.48	62.97	192.77	125.22	101.68	69.72	51.06	46.42	44.34	42.94	56.36	67.12	916.06
1965	90.91	150.67	366.19	443.06	222.46	113.25	71.88	59.75	53.17	53.94	56.33	139.73	1821.35
1966	706.26	319.42	371.95	421.11	229.02	116.95	84.88	69.79	65.89	63.36	73.45	298.01	2820.09
1967	246.78	137.45	308.06	412.99	309.52	134.26	89.06	69.23	62.74	62.02	82.81	159.87	2074.80
1968	271.46	285.40	731.64	499.05	225.31	128.35	82.86	74.04	73.13	65.40	109.05	280.79	2826.46
1969	260.85	172.27	540.09	459.99	378.08	151.93	96.73	76.32	68.79	65.80	63.66	188.90	2523.41
1970	134.11	277.69	367.80	239.76	130.43	86.32	70.90	59.05	54.59	59.04	85.10	94.36	1659.15
1971	68.20	74.30	205.33	365.63	161.28	83.31	57.52	54.81	47.94	46.06	48.38	54.62	1267.38
1972	47.61	60.08	111.32	197.63	232.35	96.26	61.91	52.89	48.87	55.12	46.48	42.87	1053.40
1973	41.01	69.15	143.20	197.13	134.05	74.33	49.21	40.00	39.06	40.12	39.39	59.25	925.91
1974	46.80	59.40	211.80	160.89	99.42	59.44	44.46	44.18	46.16	53.90	54.20	180.72	1061.39
1975	188.43	135.91	325.65	584.58	470.61	147.06	98.71	72.58	60.55	62.27	59.73	63.46	2269.55
1976	164.37	130.43	230.83	487.47	297.54	148.69	92.78	82.49	69.52	83.79	88.33	243.49	2119.73
1977	132.30	302.94	438.31	465.87	342.51	137.20	94.99	73.43	71.85	67.82	63.94	75.57	2266.73
1978	237.66	394.90	380.68	477.79	275.82	130.86	82.42	66.83	60.65	89.44	75.89	173.58	2446.53
1979	531.84	292.61	223.66	232.87	172.78	131.97	81.47	60.44	53.17	55.94	94.31	176.07	2107.14
1980	236.72	195.13	614.33	692.32	522.63	204.78	113.95	81.60	72.22	75.78	71.29	133.52	3014.28
1981	338.52	315.79	568.34	339.47	278.20	157.44	98.84	74.36	75.57	76.56	86.22	395.89	2805.21
1982	247.63	145.47	222.73	395.16	285.00	141.62	103.96	77.42	72.05	76.30	61.02	62.29	1890.64
1983	115.03	129.16	352.12	491.79	253.41	145.04	91.43	68.65	57.43	********	********	********	**********
TOTAL	8142.71	9083.25	15770.16	18040.46	10974.10	5282.07	3474.63	2774.44	2505.77	2542.67	2961.03	5787.16	85532.16
MEAN	180.95	201.85	350.45	400.90	243.87	117.38	77.21	61.65	55.68	57.79	67.30	128.60	1943.91
MAX	706.26	566.66	731.64	964.86	522.63	256.54	121.87	83.29	75.57	89.44	268.33	395.89	3014.28
MIN	41.01	59.40	110.69	113.15	92.27	57.04	43.47	39.17	39.06	40.12	39.39	42.87	916.06

Table A-2-6 Monthly Flow Volume at No. 1806 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1938	********	********	********	********	********	********	********	********	********	********	********	157.82	**********
1939	161.47	137.64	270.65	421.68	305.94	184.03	149.03	128.95	116.63	116.09	106.91	120.92	2219.97
1940	152.28	207.13	266.21	485.40	249.12	196.87	150.49	124.58	107.22	108.34	127.43	190.70	2365.76
1941	172.64	220.16	312.45	368.95	256.91	164.81	143.19	125.88	110.79	108.88	102.25	100.05	2186.97
1942	104.23	140.31	375.03	485.56	307.90	168.77	136.06	119.95	110.49	120.67	188.07	155.70	2412.75
1943	172.12	144.56	184.08	518.56	402.33	208.58	155.74	131.76	113.88	116.22	113.45	106.66	2367.93
1944	124.43	196.76	444.02	403.76	353.97	218.31	162.05	138.58	118.18	114.38	110.91	108.89	2494.25
1945	128.21	121.07	155.86	345.63	299.14	166.74	125.13	106.94	95.96	93.56	89.40	116.54	1844.19
1946	99.41	114.01	202.39	325.96	364.48	189.58	143.43	120.41	102.12	102.66	93.41	116.14	1974.00
1947	166.71	183.68	311.21	224.63	162.35	143.51	112.74	98.44	91.42	88.56	259.13	277.37	2119.75
1948	158.36	219.45	176.87	428.39	416.02	266.26	162.17	135.17	113.63	105.88	94.09	89.67	2365.97
1949	85.39	82.81	216.41	323.50	316.56	156.89	119.88	100.56	91.70	88.39	86.03	94.87	1762.98
1950	87.32	84.99	226.05	283.15	342.06	160.44	127.81	106.67	97.77	96.36	86.11	85.53	1784.27
1951	101.50	80.94	175.42	171.75	213.43	149.96	118.01	98.12	89.63	92.48	98.89	143.28	1533.41
1952	107.38	173.56	288.33	449.73	301.90	188.54	145.21	121.83	104.44	99.94	107.30	143.70	2231.86
1953	171.92	237.09	188.19	620.31	430.00	269.62	173.35	141.90	121.84	110.76	99.75	89.80	2654.52
1954	110.06	119.57	286.98	479.72	389.40	200.31	150.09	126.18	112.42	106.61	128.92	221.69	2431.94
1955	209.09	154.36	180.56	204.26	235.69	150.52	123.64	106.39	93.99	90.64	95.40	99.91	1744.46
1956	107.32	173.05	170.52	304.07	229.17	148.13	113.60	98.64	89.27	********	********	********	**********
1957	********	********	********	********	********	********	********	********	********	********	********	********	**********
1958	********	********	********	********	********	********	********	********	********	********	********	********	**********
1959	********	********	********	********	********	********	********	********	********	********	********	********	**********
1960	********	********	********	********	********	********	********	********	********	93.59	88.28	93.86	**********
1961	99.97	138.18	152.70	212.59	161.08	119.54	108.88	94.57	88.82	86.69	81.92	179.56	1524.49
1962	125.44	174.27	362.85	275.12	265.59	166.27	130.27	109.65	98.85	95.57	88.62	225.48	2117.98
1963	186.17	256.85	264.94	351.48	374.80	301.59	192.70	154.99	138.94	130.32	116.56	112.17	2581.50
1964	93.66	101.97	226.14	181.45	177.76	145.45	114.77	101.87	96.01	93.67	99.69	136.11	1568.56
1965	138.31	155.67	352.00	394.85	299.49	222.55	167.27	141.54	125.15	121.56	112.68	139.79	2370.85
1966	368.34	223.12	273.30	339.60	285.56	201.69	162.96	141.62	127.23	118.08	136.72	244.56	2622.78
1967	186.42	127.33	247.30	404.61	406.94	227.93	180.18	155.81	136.62	130.26	175.63	167.68	2546.92
1968	197.97	202.49	418.52	472.18	327.97	247.16	172.53	155.24	141.10	134.01	189.06	250.67	2908.91
1969	242.82	186.80	504.14	428.54	485.74	270.79	205.82	178.33	158.86	146.59	134.71	207.39	3150.52
1970	185.13	208.16	284.08	270.17	218.42	171.66	144.89	121.98	109.05	120.03	144.89	141.64	2118.11
1971	128.04	115.58	201.34	303.77	230.94	172.05	133.40	116.22	101.29	101.85	97.45	114.99	1816.91
1972	97.17	97.28	176.24	262.39	268.14	220.96	160.47	129.42	118.28	121.06	107.02	99.44	1857.86
1973	91.25	101.74	151.19	190.96	181.03	134.84	103.98	91.43	86.26	86.66	81.80	90.37	1391.53
1974	78.99	84.26	210.11	179.41	169.93	112.85	92.38	84.40	80.12	92.42	94.78	145.27	1424.92
1975	113.68	101.34	252.69	465.52	432.52	219.03	165.87	136.35	115.43	109.95	103.34	109.30	2325.02
1976	130.70	123.80	197.13	341.37	288.07	194.82	138.47	116.75	121.72	135.80	135.74	198.28	2122.67
1977	137.98	218.83	268.94	336.61	334.28	201.83	153.01	127.33	117.89	117.80	106.82	110.30	2231.63
1978	189.08	242.76	278.29	331.78	285.36	190.77	144.38	119.72	110.50	121.69	111.90	168.43	2294.65
1979	224.76	202.31	197.34	222.89	204.95	185.92	144.05	117.51	106.51	********	********	********	**********
TOTAL	5433.70	5854.07	9450.49	12810.29	10974.97	7039.57	5327.91	4525.50	4060.01	3918.01	4195.10	5354.51	75470.79
MEAN	146.86	158.22	255.42	346.22	296.62	190.26	144.00	122.31	109.73	108.83	116.53	144.72	2156.31
MAX	368.34	256.85	504.14	620.31	485.74	301.59	205.82	178.33	158.86	146.59	259.13	277.37	3150.52
MIN	78.99	80.94	151.19	171.75	161.08	112.85	92.38	84.40	80.12	86.66	81.80	85.53	1391.53

Table A-2-7 Monthly Flow Volume at No. 1812 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1954	********	********	********	********	********	********	********	********	********	24.69	22.63	22.71	**********
1955	22.85	19.11	24.83	30.90	36.53	18.25	16.15	16.37	15.27	15.27	14.72	16.61	246.84
1956	14.95	17.56	22.85	********	********	********	********	********	********	18.64	18.04	16.37	**********
1957	15.21	14.39	33.40	25.95	25.66	22.24	14.68	12.86	13.25	13.63	12.88	13.15	217.30
1958	13.07	13.55	20.84	50.00	34.39	29.00	18.29	18.24	16.93	17.33	16.25	16.61	264.50
1959	16.26	12.68	30.40	38.02	28.71	23.46	16.74	15.40	14.80	15.83	15.37	14.89	242.56
1960	14.97	21.30	21.88	62.03	38.49	22.89	19.58	18.75	17.47	16.23	15.63	15.03	284.24
1961	15.05	14.32	18.56	22.73	17.28	18.27	13.95	11.65	11.28	11.44	11.28	12.70	178.50
1962	11.12	11.06	36.37	33.28	27.72	17.70	15.24	14.95	14.02	14.46	13.82	17.44	227.17
1963	21.91	19.26	29.27	52.46	47.92	41.19	29.25	24.16	22.27	22.34	20.89	20.49	351.40
1964	17.84	16.56	44.11	37.22	30.24	23.22	16.82	15.51	16.04	15.75	14.64	15.91	263.87
1965	14.87	13.02	47.54	53.65	42.18	26.70	21.51	19.45	17.78	19.20	18.79	20.92	315.61
1966	25.47	25.50	36.02	54.38	40.85	24.88	21.75	19.66	20.45	20.49	19.44	22.12	331.02
1967	20.60	17.32	27.40	77.73	66.61	32.61	28.36	25.26	22.37	23.09	22.71	24.75	388.80
1968	21.88	24.28	61.52	118.64	66.16	43.68	30.00	28.52	25.30	26.01	25.40	27.43	498.81
1969	25.87	22.79	76.71	80.30	80.41	46.22	33.61	28.71	26.57	27.99	26.72	29.27	505.17
1970	30.40	30.70	45.21	52.20	33.96	24.62	21.21	19.50	19.03	19.79	20.74	21.32	338.69
1971	19.18	18.68	25.10	37.48	26.38	23.04	15.88	18.67	16.77	17.62	17.31	16.55	252.67
1972	16.69	15.61	24.53	38.96	39.24	55.62	24.29	20.25	18.48	19.23	18.01	15.96	306.88
1973	15.24	15.00	20.49	25.40	28.44	19.23	11.28	11.30	11.53	15.53	14.88	15.67	204.00
TOTAL	353.41	342.68	647.05	891.34	711.17	512.83	368.60	339.19	319.59	374.57	360.16	375.89	5418.04
MEAN	18.60	18.04	34.06	49.52	39.51	28.49	20.48	18.84	17.76	18.73	18.01	18.79	301.00
MAX	30.40	30.70	76.71	118.64	80.41	55.62	33.61	28.71	26.57	27.99	26.72	29.27	505.17
MIN	11.12	11.06	18.56	22.73	17.28	17.70	11.28	11.30	11.28	11.44	11.28	12.70	178.50

Table A-2-8 Monthly Flow Volume at No. 1813 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1962	********	********	********	********	********	********	********	********	********	4.553	4.147	5.276	**********
1963	3.991	4.548	18.883	11.586	9.723	6.998	6.267	6.857	6.376	6.964	6.195	7.767	96.155
1964	8.383	7.467	14.945	21.669	21.347	20.010	14.383	11.758	11.197	11.410	10.083	10.392	163.045
1965	7.178	6.604	28.712	16.148	12.026	9.435	7.660	7.205	7.335	7.178	6.636	7.553	123.671
1966	7.607	6.266	28.793	24.261	18.374	11.405	10.285	9.374	8.709	9.482	9.020	9.669	153.244
1967	11.731	12.604	16.606	20.399	15.669	10.757	10.526	10.365	11.094	10.312	9.357	10.339	149.759
1968	11.865	9.647	11.892	37.921	27.454	15.915	15.776	15.963	14.541	12.990	11.871	13.633	199.468
1969	12.642	14.104	41.970	62.441	37.283	26.983	17.651	17.142	14.437	14.758	14.126	15.106	288.644
1970	12.347	10.765	45.881	44.816	36.882	21.565	18.347	16.526	14.930	15.508	14.593	15.187	267.347
1971	16.472	16.475	21.481	21.073	15.776	12.468	10.687	10.526	9.124	10.794	11.249	11.356	167.480
1972	9.642	10.098	12.696	15.656	11.812	11.871	7.419	8.116	7.154	7.912	7.429	7.371	117.174
1973	6.784	6.841	15.811	13.268	17.195	22.983	10.623	8.536	8.618	8.823	8.712	9.034	137.229
1974	7.941	7.504	9.720	8.976	10.122	7.426	5.089	4.923	4.772	6.045	5.467	6.147	84.132
1975	5.547	5.213	11.212	13.377	8.882	4.754	4.403	5.220	7.133	********	********	********	**********
TOTAL	122.132	118.136	278.602	311.592	242.542	182.570	139.116	132.511	125.422	126.728	118.885	128.831	1947.350
MEAN	9.395	9.087	21.431	23.969	18.657	14.044	10.701	10.193	9.648	9.748	9.145	9.910	162.279
MAX	16.472	16.475	45.881	62.441	37.283	26.983	18.347	17.142	14.930	15.508	14.593	15.187	288.644
MIN	3.991	4.548	9.720	8.976	8.882	4.754	4.403	4.923	4.772	4.553	4.147	5.276	84.132

Table A-2-9 Monthly Flow Volume at No. 1822 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1968	********	********	********	********	********	********	********	********	********	********	********	57.76	**********
1969	53.47	46.07	157.62	171.05	217.52	102.50	68.21	55.28	49.06	46.93	41.15	53.56	1062.43
1970	53.71	62.94	101.21	126.48	89.82	59.39	38.84	31.93	30.80	37.78	39.54	39.51	711.95
1971	37.50	30.79	50.69	85.06	74.47	45.37	22.93	26.25	24.86	26.73	27.84	30.71	483.21
1972	27.71	26.75	49.51	81.42	79.13	91.31	39.21	25.16	27.89	32.95	31.15	33.61	545.79
1973	38.30	27.55	43.70	68.11	67.49	31.29	14.49	13.43	14.96	19.38	20.38	25.15	384.23
1974	30.70	28.07	59.00	66.73	57.43	18.79	13.77	15.68	18.87	20.68	22.15	24.06	375.94
1975	24.11	22.21	69.41	154.79	172.84	71.31	41.31	29.93	27.01	29.63	29.45	29.37	701.35
1976	27.14	23.95	58.66	149.06	142.30	67.99	28.39	21.89	25.99	37.16	35.01	42.79	660.33
1977	32.81	54.92	92.04	138.17	150.53	62.84	34.27	27.06	27.40	31.78	32.30	34.82	718.94
1978	35.29	51.63	77.39	121.57	123.41	61.60	31.47	25.95	30.09	33.32	36.05	43.99	671.76
1979	54.59	63.47	75.27	94.66	80.17	72.20	36.92	26.40	23.64	26.31	44.06	41.69	639.38
1980	44.76	43.27	96.66	182.69	245.26	97.72	54.44	40.17	41.39	50.52	41.94	50.17	988.99
1981	43.94	42.98	129.83	124.77	144.55	113.11	53.83	36.73	33.49	39.11	41.08	73.60	877.04
1982	52.36	63.85	58.43	179.85	135.23	68.62	39.98	31.48	36.18	35.65	34.72	25.30	761.63
1983	36.78	40.62	63.56	120.33	103.44	55.87	23.95	16.81	22.80	********	********	********	**********
TOTAL	593.15	629.07	1182.98	1864.75	1883.59	1019.92	542.00	424.15	434.43	467.92	476.81	606.10	9582.97
MEAN	39.54	41.94	78.87	124.32	125.57	67.99	36.13	28.28	28.96	33.42	34.06	40.41	684.50
MAX	54.59	63.85	157.62	182.69	245.26	113.11	68.21	55.28	49.06	50.52	44.06	73.60	1062.43
MIN	24.11	22.21	43.70	66.73	57.43	18.79	13.77	13.43	14.96	19.38	20.38	24.06	375.94

Table A-2-10 Monthly Flow Volume at No. 1823 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1973	15.24	15.00	20.49	25.40	28.44	19.23	11.28	11.30	11.53	15.53	14.88	15.67	204.00
1974	13.20	12.29	33.00	45.75	29.94	15.09	12.16	13.77	13.89	12.80	14.05	15.99	231.93
1975	13.15	12.60	29.86	96.99	122.30	35.69	29.68	22.20	15.94	21.53	19.65	19.12	438.73
1976	16.23	15.23	21.08	74.57	61.74	35.72	23.28	18.88	19.70	25.61	17.88	20.33	350.25
1977	16.07	32.85	42.08	60.03	70.31	30.51	21.75	18.27	19.10	25.34	19.70	19.50	375.50
1978	17.14	31.98	46.79	61.85	45.21	26.85	20.38	17.95	18.43	22.66	21.18	22.71	353.13
1979	23.52	36.63	40.39	42.33	33.24	31.62	25.50	23.25	17.39	21.11	20.58	20.73	336.28
1980	17.06	18.59	50.27	87.84	105.64	37.92	29.30	27.78	25.69	25.47	25.01	28.77	479.34
1981	27.91	25.69	54.34	43.99	57.37	43.47	31.52	25.71	26.49	27.05	24.91	30.77	419.23
1982	28.47	23.13	34.82	91.47	46.98	33.41	28.04	25.36	21.15	23.41	19.88	21.24	397.37
1983	19.31	18.12	41.30	49.27	51.85	27.09	15.45	14.62	16.30	********	********	********	**********
TOTAL	207.31	242.12	414.43	679.49	653.02	336.60	248.34	219.09	205.62	220.51	197.72	214.83	3585.76
MEAN	18.85	22.01	37.68	61.77	59.37	30.60	22.58	19.92	18.69	22.05	19.77	21.48	358.58
MAX	28.47	36.63	54.34	96.99	122.30	43.47	31.52	27.78	26.49	27.05	25.01	30.77	479.34
MIN	13.15	12.29	20.49	25.40	28.44	15.09	11.28	11.30	11.53	12.80	14.05	15.67	204.00

Table A-2-11 Monthly Flow Volume at No. 1818 Gauging Station (unit: 10^6 m^3)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1965	********	********	********	********	********	********	********	********	********	178.52	176.67	304.68	**********
1966	1298.85	592.53	696.30	782.61	535.59	345.17	269.84	224.75	206.31	192.44	214.25	581.14	5939.80
1967	508.98	320.28	687.14	905.82	806.54	396.32	291.91	243.10	217.02	209.72	293.39	382.19	5262.41
1968	620.70	643.08	1363.39	1074.47	615.00	399.69	282.03	251.60	231.80	219.84	378.73	760.92	6841.24
1969	691.11	444.70	1225.15	1001.20	959.56	485.22	347.93	289.27	251.08	234.02	215.76	534.76	6679.77
1970	402.88	593.05	786.15	582.94	398.30	289.28	242.16	200.96	181.65	211.03	264.13	272.09	4424.64
1971	226.71	231.76	446.08	838.86	448.42	296.14	220.11	213.61	177.52	170.45	177.03	197.51	3644.20
1972	164.61	200.23	360.24	511.06	586.74	359.94	251.97	208.95	196.30	189.12	171.72	161.51	3362.39
1973	151.96	199.32	352.08	452.91	376.70	250.72	170.03	149.76	149.54	139.19	131.12	174.67	2698.01
1974	148.16	168.77	512.70	386.38	314.51	201.83	159.77	154.26	151.61	162.37	153.15	472.53	2986.05
1975	386.12	290.44	654.31	1234.92	1081.90	456.02	286.08	231.02	192.58	190.39	182.68	195.14	5381.60
1976	372.95	326.32	459.01	922.67	655.86	398.22	262.54	221.99	205.07	228.89	271.50	531.19	4856.20
1977	337.74	609.90	788.66	970.88	756.09	381.46	278.69	217.32	205.79	198.18	183.24	204.85	5132.78
1978	554.86	748.31	741.31	917.91	629.94	341.19	239.76	197.96	183.48	247.09	219.06	401.16	5422.03
1979	850.61	546.83	464.49	507.69	433.04	360.46	268.88	204.80	178.10	********	********	********	**********
1980	********	********	********	********	********	********	********	********	********	226.95	215.00	322.51	**********
1981	791.22	726.54	1183.94	742.78	656.64	450.32	346.38	256.29	228.80	243.74	249.04	809.96	6685.64
1982	497.49	301.54	448.68	728.44	591.49	336.36	281.06	232.15	215.89	219.86	189.22	190.74	4232.90
1983	249.85	280.21	658.80	984.53	552.53	338.08	246.36	195.42	168.41	********	********	********	**********
TOTAL	8254.81	7223.81	11828.42	13546.05	10398.86	6086.41	4445.50	3693.19	3340.96	3461.81	3685.69	6497.56	73549.66
MEAN	485.58	424.93	695.79	796.83	611.70	358.02	261.50	217.25	196.53	203.64	216.81	382.21	4903.31
MAX	1298.85	748.31	1363.39	1234.92	1081.90	485.22	347.93	289.27	251.08	247.09	378.73	809.96	6841.24
MIN	148.16	168.77	352.08	386.38	314.51	201.83	159.77	149.76	149.54	139.19	131.12	161.51	2698.01

Table A-2-12 Monthly Total Precipitation at Seyhli Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	50.5	35.5	54.2	52.0	84.1	10.0	2.9	10.6	8.3	14.7	39.5	124.5	486.8
1970	30.1	29.1	30.2	20.3	48.7	32.1	1.7	0.0	3.3	55.9	43.9	17.9	313.2
1971	18.3	23.0	37.5	90.5	18.4	25.9	45.2	33.4	0.0	19.8	70.8	30.3	413.1
1972	10.4	28.9	20.2	81.0	40.7	59.5	7.9	8.7	35.6	25.7	26.9	2.4	347.9
1973	11.6	75.4	71.5	62.7	66.3	38.5	7.2	0.0	0.0	2.5	31.4	32.9	400.0
1974	17.9	14.7	40.0	93.5	31.9	9.7	0.0	34.0	2.8	22.2	40.6	66.6	373.9
1975	59.0	26.1	54.1	218.1	45.9	39.3	4.1	0.0	7.5	7.5	26.8	26.7	515.1
1976	50.2	12.0	21.6	119.7	71.3	19.9	16.7	0.0	28.4	79.8	42.2	26.4	488.2
1977	32.0	30.1	60.8	91.2	44.5	15.4	6.0	0.0	36.1	35.0	5.8	39.0	395.9
1978	121.3	50.7	67.1	60.5	22.7	16.4	0.0	0.0	9.6	41.5	0.6	34.3	444.7
1979	46.1	6.2	35.2	44.4	27.8	13.2	12.2	0.0	5.6	5.1	38.1	69.9	303.8
1980	38.7	25.8	125.2	56.1	45.3	1.3	2.9	17.7	1.3	10.7	15.0	36.0	376.0
1981	76.8	45.3	47.3	24.4	51.3	42.2	9.3	0.0	3.2	22.0	24.6	78.9	425.3
1982	13.5	13.2	41.8	64.5	25.1	18.2	2.6	11.4	1.6	27.5	12.9	20.6	252.9
1983	73.0	21.7	42.7	84.9	48.5	27.2	0.8	0.0	0.9	27.4	50.6	46.9	424.6
1984	58.1	18.4	48.4	36.5	13.7	23.6	6.4	0.9	1.2	0.8	22.3	23.8	254.1
1985	13.0	52.0	33.5	38.5	31.2	5.2	2.1	0.0	0.0	72.2	********	********	**********
TOTAL	720.5	508.1	831.3	1258.8	717.4	397.6	128.0	116.7	145.4	470.3	492.0	677.1	6215.5
MEAN	42.4	29.9	48.9	74.0	42.2	23.4	7.5	6.9	8.6	27.7	30.7	42.3	388.5
MAX	121.3	75.4	125.2	218.1	84.1	59.5	45.2	34.0	36.1	79.8	70.8	124.5	515.1
MIN	10.4	6.2	20.2	20.3	13.7	1.3	0.0	0.0	0.0	0.8	0.6	2.4	252.9

Table A-2-13 Monthly Total Precipitation at Bakirdag Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	66.7	51.8	32.7	81.2	31.8	47.8	2.1	1.0	10.0	25.1	55.2	14.3	419.7
1961	32.8	16.1	28.3	7.1	34.5	14.5	2.5	0.0	37.8	9.2	26.9	79.7	289.4
1962	6.1	45.4	47.0	56.2	65.9	3.0	0.0	0.0	0.0	27.4	8.9	77.0	336.9
1963	92.3	34.9	42.1	46.8	58.9	34.1	11.5	0.0	30.7	11.3	20.1	6.7	389.4
1964	11.0	18.0	73.8	1.6	72.4	59.3	0.0	3.4	16.8	0.5	55.6	30.7	343.1
1965	25.1	32.8	78.9	61.1	21.2	32.9	2.2	0.0	2.9	38.4	34.7	55.4	385.6
1966	100.3	16.4	31.9	30.0	51.3	9.6	0.0	12.5	12.0	26.8	38.4	71.9	401.1
1967	39.0	20.3	43.9	19.0	71.3	25.7	8.1	0.0	0.0	12.0	72.1	19.4	330.8
1968	72.5	33.0	44.0	12.5	44.3	49.8	0.0	25.0	51.9	54.6	37.1	54.1	478.8
1969	24.8	53.1	37.1	33.6	64.2	51.7	0.0	0.0	2.1	5.1	50.8	44.0	366.5
1970	28.9	24.8	24.1	12.8	29.6	35.1	2.9	0.0	14.5	51.8	37.9	23.4	285.8
1971	8.9	12.1	26.9	33.4	37.9	42.2	6.3	10.4	0.0	11.5	45.5	20.8	255.9
1972	10.4	12.3	2.9	51.7	30.4	69.8	7.0	8.0	12.4	26.5	10.6	1.1	243.1
1973	8.8	18.5	33.3	43.8	36.1	32.8	8.4	0.0	0.0	3.4	13.9	30.1	229.1
1974	29.3	13.3	39.2	71.1	27.5	12.6	0.0	40.4	18.3	9.1	23.7	46.0	330.5
1975	39.4	20.4	14.7	112.2	58.8	55.0	0.0	9.6	0.0	0.0	28.4	48.8	387.3
1976	33.6	20.7	4.3	64.2	54.2	16.4	14.5	0.0	14.3	57.5	27.0	21.4	328.1
1977	23.8	12.0	53.0	73.1	45.9	26.6	2.1	0.0	28.9	40.9	3.6	39.2	349.1
1978	80.5	38.8	40.8	45.5	37.8	0.0	0.0	0.0	36.9	50.5	0.0	28.1	358.9
1979	47.9	18.4	26.2	45.3	59.3	56.0	10.7	0.0	3.5	18.5	30.3	6.8	322.9
1980	34.3	29.6	109.2	29.4	58.9	0.0	6.2	0.0	8.7	21.3	21.7	31.9	351.2
1981	29.5	34.8	61.2	24.4	52.5	61.0	10.3	0.0	7.6	35.0	26.8	57.9	401.0
TOTAL	845.9	577.5	895.5	956.0	1044.7	735.9	94.8	110.3	309.3	536.4	669.2	808.7	7584.2
MEAN	38.4	26.2	40.7	43.5	47.5	33.4	4.3	5.0	14.1	24.4	30.4	36.8	344.7
MAX	100.3	53.1	109.2	112.2	72.4	69.8	14.5	40.4	51.9	57.5	72.1	79.7	478.8
MIN	6.1	12.0	2.9	1.6	21.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	229.1

Table A-2-14 Monthly Total Precipitation at Huseyinli Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1967	33.5	18.0	59.4	48.2	72.6	22.1	0.0	0.0	0.0	14.7	45.3	22.8	336.6
1968	56.3	19.4	38.8	12.6	82.3	32.1	0.0	6.8	73.8	44.3	36.5	53.3	456.2
1969	23.9	43.1	33.6	34.8	53.9	27.6	0.0	0.0	5.6	14.0	52.5	63.0	352.0
1970	39.2	20.4	17.5	21.5	52.5	41.4	7.8	0.0	7.3	60.9	31.3	25.4	325.2
1971	11.0	15.8	22.0	67.8	30.7	33.4	7.4	20.5	6.9	20.1	41.3	37.5	314.4
1972	15.8	22.0	2.8	81.0	48.4	69.2	37.1	4.0	31.2	20.1	18.2	0.2	350.0
TOTAL	179.7	138.7	174.1	265.9	340.4	225.8	52.3	31.3	124.8	174.1	225.1	202.2	2134.4
MEAN	29.9	23.1	29.0	44.3	56.7	37.6	8.7	5.2	20.8	29.0	37.5	33.7	355.7
MAX	56.3	43.1	59.4	81.0	82.3	69.2	37.1	20.5	73.8	60.9	52.5	63.0	456.2
MIN	11.0	15.8	2.8	12.6	30.7	22.1	0.0	0.0	0.0	14.0	18.2	0.2	314.4

Table A-2-15 Monthly Total Precipitation at Tomarza Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1963	51.9	40.6	56.5	70.9	64.2	52.0	13.4	0.0	23.5	26.8	14.7	16.6	431.1
1964	14.3	28.7	99.5	9.1	106.9	64.3	0.0	0.0	17.3	0.0	30.8	31.4	402.3
1965	13.2	35.3	75.2	60.9	45.8	28.5	5.3	0.0	12.0	46.8	36.9	57.2	417.1
1966	82.0	9.5	26.8	52.2	29.2	9.4	9.6	21.3	16.0	4.6	43.6	79.3	383.5
1967	54.5	36.1	60.1	36.8	49.3	60.2	0.3	0.0	0.6	21.8	60.9	52.7	433.3
1968	96.0	59.3	80.6	10.4	64.1	48.5	0.3	29.2	55.2	35.3	40.9	64.8	584.6
1969	40.1	77.4	58.2	70.9	86.4	46.4	17.8	0.0	8.0	11.0	43.7	117.8	577.7
1970	35.0	35.9	42.2	9.1	38.7	24.2	2.4	0.9	10.5	66.4	39.7	30.8	335.8
1971	18.5	19.2	40.8	102.5	32.6	43.5	6.2	16.0	10.0	19.4	28.9	63.8	401.4
1972	32.7	35.0	9.0	92.4	68.9	87.5	15.0	12.7	36.5	53.1	20.0	1.3	464.1
1973	15.7	16.2	28.9	64.3	68.2	28.8	5.6	0.0	2.2	1.7	22.8	41.8	296.2
1974	17.5	14.6	75.9	58.5	21.0	19.8	0.0	3.2	25.9	35.0	31.1	36.5	339.0
1975	54.0	31.0	27.4	107.0	53.2	84.9	11.1	10.2	0.1	6.1	27.0	41.8	453.8
1976	47.7	33.5	9.9	85.1	67.8	45.0	3.2	0.0	54.1	48.2	7.0	28.3	429.8
1977	29.2	19.8	40.5	83.9	54.0	56.2	22.6	0.0	17.0	27.2	3.7	33.8	387.9
1978	71.3	44.0	41.9	61.4	12.6	8.7	0.1	0.0	42.3	44.1	0.0	38.1	364.5
1979	57.2	34.2	20.4	53.3	77.5	76.7	22.4	0.9	4.9	15.6	54.0	35.1	452.2
1980	53.2	22.7	108.7	45.4	74.7	32.7	0.3	0.0	14.4	19.5	33.5	38.7	443.8
1981	24.5	31.0	56.7	18.2	95.1	33.2	33.8	0.0	16.9	32.4	53.5	61.9	457.2
1982	16.9	17.5	39.7	42.1	29.7	30.7	5.8	5.2	16.6	28.6	9.6	28.4	270.8
1983	33.3	31.2	17.3	84.6	67.8	27.5	1.4	11.2	4.3	87.8	94.3	25.2	485.9
1984	8.5	21.8	30.7	76.5	29.2	6.8	17.2	5.7	0.0	9.0	16.3	45.9	267.6
1985	30.1	58.9	29.7	43.6	62.6	16.7	6.8	9.7	0.8	68.3	28.5	32.1	387.8
1986	34.3	41.6	5.3	25.1	70.7	56.8	0.0	2.5	7.5	15.6	51.3	43.2	353.9
TOTAL	931.6	795.0	1081.9	1364.2	1370.2	989.0	200.6	128.7	396.6	724.3	792.7	1046.5	9821.3
MEAN	38.8	33.1	45.1	56.8	57.1	41.2	8.4	5.4	16.5	30.2	33.0	43.6	409.2
MAX	96.0	77.4	108.7	107.0	106.9	87.5	33.8	29.2	55.2	87.8	94.3	117.8	584.6
MIN	8.5	9.5	5.3	9.1	12.6	6.8	0.0	0.0	0.0	0.0	0.0	1.3	267.6

Table A-2-16 Monthly Total Precipitation at Toklar Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1965	18.4	41.7	70.1	109.1	23.7	54.2	11.1	8.3	11.3	60.7	38.9	53.4	500.9
1966	67.7	14.9	23.3	43.7	37.9	21.3	2.5	14.4	18.3	35.6	40.4	68.9	388.9
1967	58.4	28.3	63.0	46.9	58.7	24.4	2.8	0.0	1.1	28.0	87.9	23.1	422.6
1968	60.6	33.5	40.9	3.7	57.6	22.1	0.0	7.1	27.3	48.8	30.2	********	**********
1969	********	********	********	********	83.7	20.8	3.8	0.0	8.8	13.8	39.7	96.3	**********
1970	31.9	35.1	43.5	15.3	46.6	54.1	8.8	0.3	13.1	63.3	22.3	15.8	350.1
1971	10.3	12.8	45.2	58.2	22.4	51.7	6.5	47.0	2.5	28.6	34.9	51.9	372.0
1972	17.2	17.9	8.2	92.7	56.1	96.4	19.3	31.2	22.5	42.6	16.6	3.4	424.1
1973	16.2	14.8	35.3	64.7	73.5	22.8	1.7	0.0	5.3	10.9	16.9	31.4	293.5
1974	17.5	10.1	46.5	83.0	32.0	8.4	0.0	0.0	25.0	12.0	26.7	27.7	288.9
1975	41.0	27.4	21.3	104.5	80.1	47.5	3.9	8.0	0.0	0.0	14.2	23.8	371.7
1976	33.7	32.5	8.1	75.2	52.5	29.6	4.5	0.0	62.1	71.6	3.2	23.4	396.4
1977	19.7	13.7	52.7	55.3	36.7	41.2	8.5	0.0	30.7	37.5	0.7	18.7	315.4
1978	55.6	32.4	31.2	50.9	********	********	********	********	********	26.3	0.0	58.4	**********
1979	51.2	31.3	34.3	67.0	92.6	67.3	29.7	13.2	17.1	33.6	75.5	49.7	562.5
1980	52.3	27.5	155.7	41.5	82.3	28.7	0.0	0.0	33.7	22.4	48.9	27.6	520.6
1981	34.1	23.8	75.7	24.3	90.7	60.4	********	0.0	16.4	38.8	31.3	53.7	**********
1982	30.6	25.3	33.9	61.8	38.4	23.7	23.5	13.8	25.4	40.1	13.4	24.7	354.6
1983	24.9	23.4	11.7	64.7	43.2	33.1	0.0	2.2	11.3	88.7	81.0	16.4	400.6
1984	29.3	13.9	30.7	87.1	33.8	2.7	41.5	0.0	1.6	17.1	********	********	**********
TOTAL	670.6	460.3	831.3	1149.6	1042.5	710.4	168.1	145.5	333.5	720.4	622.7	668.3	5962.8
MEAN	35.3	24.2	43.8	60.5	54.9	37.4	9.3	7.7	17.6	36.0	32.8	37.1	397.5
MAX	67.7	41.7	155.7	109.1	92.6	96.4	41.5	47.0	62.1	88.7	87.9	96.3	562.5
MIN	10.3	10.1	8.1	3.7	22.4	2.7	0.0	0.0	0.0	0.0	0.0	3.4	288.9

Table A-2-17 Monthly Total Precipitation at Elbasi Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1965	11.1	17.6	59.0	70.7	37.7	25.1	7.8	0.0	9.5	********	********	********	**********
1966	********	********	********	********	18.8	31.5	5.1	12.5	10.7	4.2	18.2	51.4	**********
1967	26.9	16.3	31.4	32.7	42.6	30.7	0.4	0.3	5.9	22.3	51.7	49.3	310.5
1968	62.2	31.0	43.6	4.9	41.2	26.7	0.0	6.5	45.0	45.4	28.8	26.9	362.2
1969	17.6	58.1	53.7	44.0	67.1	28.3	10.9	0.7	3.4	5.6	29.8	65.3	384.5
1970	19.6	20.9	22.4	16.7	42.5	34.6	42.8	0.0	8.7	43.6	23.0	16.9	291.7
1971	13.0	13.0	22.6	69.1	19.9	64.0	0.0	2.4	21.7	8.3	16.8	37.6	288.4
1972	18.5	25.8	6.7	52.2	51.9	102.6	14.6	6.8	52.9	38.4	11.0	2.1	383.5
1973	12.7	20.8	26.3	67.5	75.9	39.6	15.0	0.0	0.0	6.4	15.7	26.4	306.3
1974	16.2	8.0	36.7	61.2	7.6	22.8	0.0	0.0	26.5	30.7	19.4	28.9	258.0
1975	41.1	17.9	20.5	126.9	61.0	31.5	0.0	0.0	0.0	8.6	33.2	56.6	397.3
1976	45.5	24.1	6.8	68.2	123.6	18.2	0.0	3.4	45.8	53.2	1.8	21.0	411.6
1977	18.8	23.0	44.8	67.4	108.3	17.9	16.1	0.0	27.4	28.1	4.6	34.2	390.6
1978	101.9	29.3	28.1	66.7	23.2	6.5	0.0	0.0	60.7	43.1	0.0	44.7	404.2
1979	58.3	41.0	23.4	42.7	55.9	66.3	30.6	5.9	3.0	22.7	55.2	23.5	428.5
1980	69.2	27.1	83.9	44.1	81.2	35.3	2.6	0.0	8.1	20.4	33.1	41.4	446.4
1981	21.7	30.1	74.4	23.3	82.0	34.9	30.4	0.0	10.4	31.1	36.4	60.2	434.9
1982	33.2	23.0	40.4	50.2	46.8	30.5	20.4	5.5	31.3	20.2	13.8	31.6	346.9
1983	23.6	22.6	18.1	73.6	24.5	30.9	0.0	0.0	7.9	51.6	79.3	27.2	359.3
1984	17.7	23.6	35.9	73.4	28.0	6.1	15.5	0.0	0.0	6.2	16.8	41.6	264.8
1985	27.7	45.1	21.3	44.2	15.4	11.1	0.0	2.7	0.6	60.4	16.8	28.5	273.8
1986	23.6	43.8	9.6	38.2	82.5	65.7	0.0	0.0	9.6	13.8	54.0	45.2	386.0
TOTAL	680.1	562.1	709.6	1137.9	1137.6	760.8	212.2	46.7	389.1	564.3	559.4	760.5	7129.4
MEAN	32.4	26.8	33.8	54.2	51.7	34.6	9.6	2.1	17.7	26.9	26.6	36.2	356.5
MAX	101.9	58.1	83.9	126.9	123.6	102.6	42.8	12.5	60.7	60.4	79.3	65.3	446.4
MIN	11.1	8.0	6.7	4.9	7.6	6.1	0.0	0.0	0.0	4.2	0.0	2.1	258.0

Table A-2-18 Monthly Total Precipitation at Pazaroren Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	10.9	32.9	58.4	7.3	61.8	64.5	0.0	0.0	23.2	0.9	31.4	50.5	341.8
1965	15.3	33.1	83.8	77.6	39.7	38.0	18.0	0.0	9.1	41.3	32.6	54.5	443.0
1966	54.1	10.8	25.2	57.4	22.7	23.1	8.1	51.1	8.8	2.7	20.3	77.1	361.4
1967	31.8	23.3	30.9	42.5	98.2	47.0	32.4	3.2	4.5	27.8	89.8	39.2	470.6
1968	51.2	32.4	24.1	7.8	88.9	34.6	0.0	8.3	27.9	35.1	36.1	35.7	382.1
1969	21.4	68.1	54.1	41.4	81.1	61.4	7.2	0.0	27.1	10.4	32.1	49.1	453.4
1970	23.4	35.5	24.5	18.9	35.3	30.9	13.7	4.9	10.5	63.7	30.8	28.3	320.4
1971	15.2	16.6	32.1	58.1	34.4	65.8	1.8	72.5	0.0	15.4	25.9	53.8	391.6
1972	15.5	20.7	12.4	76.8	99.2	191.6	13.8	4.2	27.7	39.7	8.8	5.9	516.3
1973	20.7	17.5	37.5	93.1	112.1	42.7	0.0	0.0	5.7	4.4	13.1	38.5	385.3
1974	18.1	14.9	49.6	114.9	29.7	16.8	0.0	6.1	30.1	27.7	44.1	31.9	383.9
1975	36.2	25.4	26.5	132.5	90.7	101.9	0.0	2.3	0.0	5.5	28.7	61.0	510.7
1976	36.1	21.7	6.8	108.8	77.8	30.7	4.3	6.9	45.8	65.1	4.2	21.8	430.0
1977	20.7	23.9	59.2	75.8	75.4	15.1	0.0	0.0	22.5	32.1	4.7	35.3	364.7
1978	103.5	41.8	33.4	69.6	23.2	7.7	0.0	0.0	47.2	44.8	2.3	47.5	421.0
1979	61.2	32.0	27.5	55.9	50.1	40.4	12.8	3.4	8.3	30.5	44.5	24.6	391.2
1980	51.0	12.9	63.2	34.9	92.1	24.1	2.3	1.6	13.3	20.6	41.1	22.7	379.8
1981	27.8	32.2	73.6	21.3	111.9	40.0	9.1	0.0	15.3	37.8	38.8	51.1	458.9
1982	36.1	18.8	36.4	95.9	58.7	42.8	26.9	2.6	44.3	21.5	17.2	36.6	437.8
1983	21.6	21.7	26.7	87.6	55.5	51.6	2.1	3.9	12.2	58.2	98.6	18.9	458.6
1984	18.1	20.1	55.7	89.1	41.7	1.7	4.3	14.8	0.0	6.8	25.0	32.7	310.0
1985	19.4	38.5	29.6	42.0	50.7	28.8	8.2	0.0	0.0	79.2	21.9	25.9	344.2
1986	27.5	38.8	11.2	33.2	98.7	69.8	0.0	0.0	4.2	9.2	53.6	37.3	383.5
TOTAL	736.8	633.6	882.4	1442.4	1529.6	1071.0	165.0	185.8	387.7	680.4	745.6	879.9	9340.2
MEAN	32.0	27.5	38.4	62.7	66.5	46.6	7.2	8.1	16.9	29.6	32.4	38.3	406.1
MAX	103.5	68.1	83.8	132.5	112.1	191.6	32.4	72.5	47.2	79.2	98.6	77.1	516.3
MIN	10.9	10.8	6.8	7.3	22.7	1.7	0.0	0.0	0.0	0.9	2.3	5.9	310.0

Table A-2-19 Monthly Total Precipitation at Pinarbasi Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1950	********	********	********	********	138.5	19.1	3.0	3.7	1.7	27.5	34.6	28.8	**********
1951	31.4	10.9	42.1	46.7	68.6	120.9	12.5	5.5	13.7	79.9	36.1	34.1	502.4
1952	17.8	35.2	47.2	20.7	67.3	51.6	13.4	0.0	6.3	0.8	67.9	25.2	353.4
1953	22.7	72.4	27.3	46.1	50.4	58.8	0.0	1.1	31.3	17.6	36.7	15.3	379.7
1954	55.3	41.3	35.2	87.7	67.6	23.9	7.1	0.0	6.9	1.4	12.6	33.8	372.8
1955	15.8	29.8	39.0	37.9	65.8	12.9	0.0	8.5	2.2	24.5	31.0	48.9	316.3
1956	25.0	109.2	40.1	11.6	37.9	5.7	2.9	3.1	10.4	11.8	15.1	33.6	306.4
1957	12.9	38.0	26.9	57.3	72.4	55.8	1.2	0.0	11.4	15.3	37.4	31.5	360.1
1958	32.5	22.6	82.5	89.5	68.5	88.5	1.4	43.6	5.6	12.4	4.0	51.4	502.5
1959	58.1	41.6	24.3	31.9	59.4	62.3	34.2	2.1	12.8	31.6	30.2	6.0	394.5
1960	69.7	52.9	52.9	117.3	34.2	29.5	12.8	0.0	1.4	19.0	26.6	20.0	436.3
1961	38.2	11.6	38.7	9.6	52.7	37.2	0.0	0.0	56.9	1.6	36.0	41.7	324.2
1962	14.7	61.9	52.7	29.6	69.7	20.7	0.0	18.0	0.0	19.4	19.6	138.6	444.9
1963	63.6	43.8	85.5	46.9	74.9	51.6	42.9	0.0	35.6	25.2	12.4	33.2	515.6
1964	14.2	49.3	69.9	18.0	65.1	60.9	0.5	0.3	31.1	1.1	54.2	66.9	431.5
1965	14.2	53.8	72.2	93.1	45.0	54.2	3.8	0.0	11.9	53.6	44.3	82.3	528.4
1966	91.1	21.0	40.6	52.7	26.8	19.5	4.5	36.4	14.5	2.4	24.0	96.8	430.3
1967	64.2	36.6	52.8	37.6	69.8	36.2	1.2	37.8	13.1	18.2	88.6	61.3	517.4
1968	106.0	42.2	64.0	18.7	44.6	23.5	0.0	32.3	24.4	28.7	35.4	62.0	481.8
1969	31.4	99.5	60.7	55.4	60.6	83.1	4.3	1.3	25.0	21.8	26.6	95.8	565.5
1970	33.7	68.5	36.2	19.9	50.8	35.8	17.6	2.7	15.6	52.3	24.4	35.4	392.9
1971	14.9	11.9	49.1	56.8	30.2	74.5	0.2	51.0	7.7	18.6	34.1	51.7	400.7
1972	20.0	21.8	14.3	70.5	94.1	136.9	13.0	10.0	26.3	34.9	17.2	12.2	471.2
1973	28.8	33.6	52.4	77.4	97.1	29.9	2.5	0.0	9.7	15.3	30.7	43.8	421.2
1974	21.9	22.2	60.7	143.8	35.9	11.5	0.0	18.7	30.0	38.3	42.6	41.2	466.8
1975	37.3	34.3	37.4	138.8	95.8	60.2	0.0	33.4	0.0	4.5	20.8	64.4	526.9
1976	60.8	22.7	11.4	81.8	102.7	31.4	5.2	1.0	35.8	55.7	8.2	42.7	459.4
1977	30.6	34.1	76.0	86.0	87.3	29.1	4.5	0.0	17.5	22.0	7.0	35.9	430.0
1978	123.9	50.8	39.8	100.6	18.8	15.1	0.1	0.0	53.9	47.7	0.0	50.2	500.9
1979	78.0	70.9	31.7	50.9	83.6	77.5	26.2	7.7	11.9	35.4	62.7	35.5	572.0
1980	76.2	9.6	90.8	49.5	111.0	20.9	0.8	9.7	22.0	21.4	49.7	27.2	488.8
1981	40.4	27.4	90.5	25.1	96.7	62.7	9.9	0.2	10.1	41.9	56.5	52.9	514.3
1982	41.2	18.1	33.6	58.3	31.2	57.3	19.8	0.3	18.3	21.4	3.5	45.2	348.2
1983	25.6	29.6	22.9	67.0	87.7	28.3	0.1	0.4	9.1	71.0	94.5	9.8	446.0
1984	9.7	15.0	64.7	60.5	55.2	2.6	18.9	3.5	0.0	7.2	10.8	19.0	267.1
1985	17.2	42.7	22.3	42.7	17.5	27.4	4.1	5.1	0.2	70.8	32.7	29.0	311.7
1986	24.9	32.8	7.8	31.4	106.7	43.0	0.0	3.6	15.1	5.4	44.4	36.1	351.2
TOTAL	1463.9	1419.6	1696.2	2069.3	2442.1	1660.0	268.6	341.0	599.4	977.6	1213.1	1639.4	15533.3
MEAN	40.7	39.4	47.1	57.5	66.0	44.9	7.3	9.2	16.2	26.4	32.8	44.3	431.5
MAX	123.9	109.2	90.8	143.8	138.5	136.9	42.9	51.0	56.9	79.9	94.5	138.6	572.0
MIN	9.7	9.6	7.8	9.6	17.5	2.6	0.0	0.0	0.0	0.8	0.0	6.0	267.1

Table A-2-20 Monthly Total Precipitation at Yedioluk Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1967	77.1	28.2	29.9	61.6	53.1	50.4	28.9	9.3	4.4	32.8	104.2	68.0	547.9
1968	58.6	39.2	62.0	34.6	65.1	52.9	0.1	12.4	57.6	40.2	110.2	95.8	628.7
1969	37.0	72.5	87.4	70.6	127.3	58.4	4.4	5.0	36.8	31.4	50.6	129.3	710.7
1970	25.1	86.6	82.0	39.9	50.5	22.1	81.5	2.3	11.3	83.0	73.6	63.5	621.4
1971	11.0	45.2	99.7	130.2	57.9	71.4	4.6	45.2	5.1	22.1	37.9	92.4	622.7
1972	20.6	23.1	23.0	128.7	105.3	116.2	10.4	39.5	19.6	43.4	34.0	3.9	567.7
TOTAL	229.4	294.8	384.0	465.6	459.2	371.4	129.9	113.7	134.8	252.9	410.5	452.9	3699.1
MEAN	38.2	49.1	64.0	77.6	76.5	61.9	21.6	18.9	22.5	42.1	68.4	75.5	616.5
MAX	77.1	86.6	99.7	130.2	127.3	116.2	81.5	45.2	57.6	83.0	110.2	129.3	710.7
MIN	11.0	23.1	23.0	34.6	50.5	22.1	0.1	2.3	4.4	22.1	34.0	3.9	547.9

Table A-2-21 Monthly Total Precipitation at Kaynar Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1965	11.3	23.3	34.2	47.2	24.7	53.4	13.7	0.0	23.1	48.4	37.3	40.2	356.8
1966	41.4	15.6	23.6	20.3	15.9	14.7	13.3	21.5	31.2	5.7	21.6	49.3	274.1
1967	30.0	14.0	19.1	17.1	35.6	19.1	32.9	19.1	3.0	17.5	55.5	38.0	300.9
1968	27.9	13.1	37.1	10.4	82.2	28.4	0.0	19.9	11.8	19.2	29.1	32.1	311.2
1969	20.2	38.0	39.5	49.7	38.2	42.6	5.4	0.0	4.4	12.0	20.7	53.5	324.2
1970	12.0	36.2	27.8	21.9	25.8	18.1	41.3	0.5	9.8	51.3	49.5	15.8	310.0
1971	9.6	10.4	39.7	70.3	23.1	60.9	2.4	66.3	3.2	13.3	26.2	38.0	363.4
1972	15.6	6.2	9.4	74.0	89.2	103.2	6.1	6.5	19.4	35.4	9.8	4.7	379.5
1973	7.5	15.2	24.6	47.2	61.7	21.4	6.4	0.0	7.0	11.7	16.8	28.3	247.8
1974	15.4	6.1	42.4	76.7	30.6	9.3	0.0	8.9	28.2	36.9	34.6	29.2	318.3
1975	35.4	22.2	34.9	141.7	79.9	32.5	3.4	7.9	0.0	32.2	20.5	58.8	469.4
1976	41.9	18.5	9.7	79.6	60.1	11.2	6.2	0.0	27.8	52.5	3.6	26.7	337.8
1977	10.9	34.5	50.5	65.4	48.9	44.3	4.1	0.0	18.4	25.9	9.0	38.6	350.5
1978	76.1	35.4	38.1	49.3	23.0	15.7	0.0	0.0	51.7	43.5	4.2	47.4	384.4
1979	50.3	50.0	30.4	45.7	74.2	70.3	33.8	10.5	2.8	24.9	45.6	17.9	456.4
1980	46.7	7.7	52.0	34.4	125.0	11.3	0.0	2.8	1.6	19.3	33.8	22.6	357.2
1981	18.8	16.0	88.7	18.0	86.2	58.1	1.2	0.0	14.8	37.1	41.8	66.9	447.6
1982	39.6	12.5	19.1	53.6	70.3	51.0	16.4	0.7	3.9	15.8	30.5	36.4	349.8
1983	20.9	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5
TOTAL	531.5	385.5	620.8	922.5	994.6	665.5	186.6	164.6	262.1	502.6	490.1	644.4	6370.8
MEAN	28.0	20.3	32.7	48.6	52.3	35.0	9.8	8.7	13.8	26.5	25.8	33.9	335.3
MAX	76.1	50.0	88.7	141.7	125.0	103.2	41.3	66.3	51.7	52.5	55.5	66.9	469.4
MIN	7.5	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5

Table A-2-22 Monthly Total Precipitation at M. Basoren Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1967	76.4	48.7	55.7	74.6	47.3	45.8	9.2	0.0	19.2	39.6	46.4	68.7	531.6
1968	93.6	23.1	71.6	27.4	104.3	54.8	0.0	12.7	34.2	45.4	48.1	69.7	584.9
1969	49.9	57.6	55.8	40.3	89.8	59.8	13.4	3.4	3.8	16.7	33.4	46.2	470.1
1970	29.9	79.3	46.0	15.2	37.4	23.8	30.2	2.2	5.5	54.0	41.4	40.5	405.4
1971	21.2	31.0	43.1	130.9	51.8	40.5	14.7	9.8	4.2	6.4	29.1	19.2	401.9
1972	21.5	21.0	20.9	88.7	101.7	150.7	2.4	24.3	38.7	22.8	10.0	11.1	513.8
1973	9.9	24.5	32.2	59.0	36.5	47.8	15.8	0.0	0.0	5.1	34.0	23.7	288.5
1974	37.9	19.7	49.6	71.5	38.1	4.4	0.0	0.0	28.9	25.7	46.1	44.5	366.4
1975	27.5	31.0	35.2	113.7	102.0	39.4	0.0	2.2	0.0	8.7	19.1	49.2	428.0
1976	32.8	37.4	21.1	73.6	56.0	38.6	5.4	12.2	61.2	48.5	5.4	26.7	418.9
1977	36.2	27.5	45.2	57.5	73.6	72.5	20.3	0.0	34.0	19.2	10.8	29.4	426.2
1978	55.7	47.5	31.0	91.6	46.1	25.2	0.0	0.0	54.5	62.9	0.0	22.5	437.0
1979	53.6	41.4	59.7	49.5	64.9	45.9	25.2	27.7	17.9	24.7	38.6	26.7	475.8
1980	93.5	34.8	87.4	30.7	154.1	15.4	3.5	0.0	8.3	31.3	49.5	24.5	533.0
1981	9.1	23.0	102.3	23.6	131.6	59.1	10.9	0.0	10.5	33.6	37.3	18.3	459.3
1982	36.2	17.1	15.5	67.7	42.6	59.4	22.3	0.0	11.8	19.2	3.9	16.9	312.6
1983	18.1	31.6	24.2	55.8	66.4	51.8	0.0	4.4	8.5	42.4	135.7	26.1	465.0
1984	11.4	14.4	44.2	114.0	77.9	22.6	27.9	1.5	5.5	6.6	18.5	17.4	361.9
1985	27.5	57.2	35.8	66.5	33.4	29.9	15.4	2.4	0.0	78.5	63.1	26.8	436.5
1986	26.0	39.9	5.6	17.0	181.0	39.0	0.0	0.0	9.4	14.7	39.9	20.5	393.0
TOTAL	767.9	707.7	882.1	1268.8	1536.5	926.4	216.6	102.8	356.1	606.0	710.3	628.6	8709.8
MEAN	38.4	35.4	44.1	63.4	76.8	46.3	10.8	5.1	17.8	30.3	35.5	31.4	435.5
MAX	93.6	79.3	102.3	130.9	181.0	150.7	30.2	27.7	61.2	78.5	135.7	69.7	584.9
MIN	9.1	14.4	5.6	15.2	33.4	4.4	0.0	0.0	0.0	5.1	0.0	11.1	288.5

Table A-2-23 Monthly Total Precipitation at Kazancik Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1967	25.1	11.2	4.2	13.2	18.9	18.3	0.0	0.0	12.8	19.6	31.8	53.5	208.6
1968	19.9	12.4	32.1	43.1	52.4	37.3	0.0	23.9	8.3	28.2	24.7	17.1	299.4
1969	8.5	14.0	31.1	50.6	39.6	26.8	0.0	1.0	6.9	17.8	20.0	34.1	250.4
1970	11.1	8.5	40.4	15.8	46.1	20.0	16.2	2.3	8.6	15.5	30.7	10.6	225.8
1971	11.0	6.7	10.8	28.0	34.2	25.9	26.6	38.8	5.5	8.8	20.7	24.2	241.2
1972	11.8	13.1	15.3	54.7	57.6	86.2	2.5	7.5	37.9	29.4	9.7	0.3	326.0
1973	7.6	12.6	15.6	32.2	50.1	25.8	0.9	0.0	13.1	5.2	19.1	24.3	206.5
1974	6.2	5.6	39.0	46.3	32.3	25.7	0.0	2.5	16.5	46.1	12.0	13.2	245.4
1975	21.0	9.4	22.5	97.5	54.8	30.8	0.0	9.2	0.0	2.0	11.5	34.6	293.3
1976	14.1	16.1	6.2	74.3	60.0	17.8	0.0	0.0	29.6	59.7	0.0	37.3	315.1
1977	12.2	24.9	35.6	61.7	58.9	27.7	0.3	0.0	35.4	37.9	4.5	25.3	324.4
1978	32.0	30.0	34.6	64.0	25.6	8.2	0.0	0.0	41.8	29.1	3.1	20.1	288.5
1979	22.2	31.1	20.0	26.8	39.8	41.7	4.8	23.0	8.0	33.2	18.8	5.8	275.2
1980	28.6	5.8	36.8	28.1	104.5	11.9	3.5	0.0	6.6	30.5	32.9	16.9	306.1
1981	11.1	12.6	57.3	8.1	88.8	15.1	14.7	0.0	12.5	22.3	33.3	27.0	302.8
1982	28.3	5.7	7.5	35.9	37.6	26.1	19.8	0.5	5.0	12.0	4.4	19.6	202.4
1983	3.5	11.8	13.0	61.5	40.7	26.0	2.8	1.3	2.1	58.5	97.9	6.3	325.4
1984	7.2	14.2	39.4	75.9	37.3	20.9	24.5	1.0	0.0	1.3	7.2	4.9	233.8
1985	17.6	8.6	22.5	31.3	32.0	24.2	4.8	19.5	1.6	52.4	27.7	15.6	257.8
1986	23.4	27.4	1.6	16.4	76.6	30.2	0.0	0.0	19.6	4.1	19.8	16.1	235.2
TOTAL	322.4	281.7	485.5	865.4	987.8	546.6	121.4	130.5	271.8	513.6	429.8	406.8	5363.3
MEAN	16.1	14.1	24.3	43.3	49.4	27.3	6.1	6.5	13.6	25.7	21.5	20.3	268.2
MAX	32.0	31.1	57.3	97.5	104.5	86.2	26.6	38.8	41.8	59.7	97.9	53.5	326.0
MIN	3.5	5.6	1.6	8.1	18.9	8.2	0.0	0.0	0.0	1.3	0.0	0.3	202.4

Table A-2-24 Monthly Total Precipitation at Orensehir Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	9.0	48.4	50.7	21.8	39.1	45.6	0.0	0.0	21.1	0.0	29.4	46.6	311.7
1965	15.9	38.3	41.6	59.7	26.7	51.7	7.1	0.0	19.3	45.4	40.7	72.1	418.5
1966	37.5	18.8	19.8	28.7	16.5	16.8	0.7	23.9	23.5	16.9	18.0	52.9	274.0
1967	44.9	22.1	24.7	24.3	33.4	59.5	10.3	5.6	16.1	34.5	50.5	63.4	389.3
1968	81.3	21.9	50.5	34.4	121.7	36.5	0.0	27.0	25.4	56.1	33.3	30.9	519.0
1969	37.2	59.5	47.7	54.5	73.8	44.2	6.2	0.0	4.1	12.1	22.7	72.4	434.4
1970	20.7	32.6	30.2	38.1	32.7	32.5	7.5	1.3	5.9	57.4	37.7	19.3	315.9
1971	7.8	15.7	46.3	59.2	39.4	55.6	17.1	52.5	4.3	15.3	24.3	36.5	374.0
1972	13.3	14.5	15.8	78.4	67.7	103.6	13.5	31.9	24.7	19.7	19.4	6.2	408.7
1973	13.2	27.1	32.1	57.4	39.6	26.6	5.2	0.0	12.5	14.0	31.4	30.3	289.4
1974	15.4	8.7	34.6	84.8	25.9	9.9	0.0	10.5	24.5	24.9	45.1	30.4	314.7
1975	34.3	22.8	33.3	105.2	62.9	46.6	2.2	6.5	1.1	4.9	23.7	49.9	393.4
1976	44.5	25.1	8.7	76.3	63.7	8.3	1.0	5.8	35.4	49.8	2.4	30.9	351.9
1977	10.9	33.5	63.8	72.8	71.2	20.9	6.6	0.0	22.9	23.9	10.6	34.7	371.8
1978	50.8	22.6	35.6	60.0	16.9	19.4	0.0	0.0	53.7	34.4	0.9	45.4	339.7
1979	44.5	48.6	41.8	34.7	49.6	57.8	7.3	15.6	3.2	27.4	29.3	14.9	374.7
1980	49.1	6.3	58.2	38.6	114.7	20.1	0.8	1.7	8.8	23.2	45.4	19.8	386.7
1981	13.3	17.0	68.9	16.7	143.1	24.7	15.2	0.0	13.9	40.1	59.7	48.1	460.7
1982	58.5	19.1	21.3	40.6	55.3	27.5	51.6	0.0	2.7	12.8	10.2	39.5	319.1
1983	11.1	18.3	15.7	68.2	78.1	36.1	3.9	1.7	0.0	96.2	92.5	7.9	429.7
1984	17.9	10.8	38.4	88.1	50.1	6.6	17.6	4.6	0.0	4.9	15.1	12.5	266.6
1985	24.1	33.5	20.3	40.2	15.8	26.7	0.0	4.2	2.5	55.8	30.5	35.3	288.9
1986	39.9	34.5	0.0	20.3	110.6	18.6	0.0	4.5	20.1	9.5	39.3	38.7	336.0
TOTAL	695.1	599.7	800.0	1203.0	1328.5	795.8	173.8	197.3	345.7	679.2	712.1	838.6	8368.8
MEAN	30.2	26.1	34.8	52.3	57.8	34.6	7.6	8.6	15.0	29.5	31.0	36.5	363.9
MAX	81.3	59.5	68.9	105.2	143.1	103.6	51.6	52.5	53.7	96.2	92.5	72.4	519.0
MIN	7.8	6.3	0.0	16.7	15.8	6.6	0.0	0.0	0.0	0.0	0.9	6.2	266.6

Table A-2-25 Monthly Total Precipitation at Uzunpinar Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1959	********	********	********	********	********	27.8	0.0	0.0	6.5	13.5	12.3	7.3	**********
1960	35.8	34.1	22.4	97.0	14.5	9.0	0.5	0.0	2.0	7.1	28.1	33.0	283.5
1961	30.4	25.8	32.0	19.8	6.9	37.5	0.0	2.7	43.4	12.8	59.7	60.6	331.6
1962	11.4	43.2	52.1	13.2	71.1	12.2	0.0	1.9	0.9	32.2	20.3	85.1	343.6
1963	73.7	35.2	511.8	29.6	78.6	47.5	34.0	0.0	41.0	32.7	8.5	1.9	894.5
1964	2.7	38.2	69.4	13.5	54.9	75.5	0.0	0.0	9.5	0.0	44.3	47.0	355.0
1965	18.2	58.3	42.9	60.5	23.5	32.6	8.0	0.0	20.2	56.5	42.7	78.0	441.4
1966	66.5	10.6	39.9	45.0	20.5	31.3	0.0	25.1	28.7	15.9	27.0	67.1	377.6
1967	51.2	27.4	19.8	38.6	90.0	51.6	21.5	2.5	6.2	36.0	53.0	58.7	456.5
1968	73.9	29.0	44.1	15.7	101.6	42.4	0.0	12.6	51.1	23.5	43.7	27.6	465.2
1969	26.4	60.7	59.6	64.1	57.9	42.1	7.4	0.0	9.3	26.7	27.9	70.5	452.6
1970	15.4	36.3	35.0	17.8	33.2	30.9	16.7	3.0	4.0	57.4	32.1	32.9	314.7
1971	8.2	17.2	48.7	61.6	32.0	42.5	2.5	30.0	4.6	********	37.4	42.0	**********
1972	18.3	7.5	16.4	69.0	81.1	107.6	4.6	12.0	17.9	18.5	9.1	3.1	365.1
1973	11.5	22.8	23.3	45.0	57.3	7.3	0.2	0.0	7.5	15.4	18.4	19.3	228.0
1974	13.6	3.0	31.5	85.0	18.9	2.8	0.0	31.0	72.5	21.4	51.8	23.6	355.1
1975	15.5	12.0	10.3	109.1	49.7	41.0	1.5	12.5	0.0	3.9	6.5	18.3	280.3
1976	26.6	16.9	6.8	48.4	73.8	21.4	5.0	0.0	23.3	59.8	4.9	8.4	295.3
1977	9.7	30.9	35.5	66.4	60.7	27.3	0.0	1.8	10.0	15.5	4.5	19.2	281.5
1978	7.8	8.7	14.9	39.3	13.0	39.5	0.0	0.0	38.5	34.2	0.0	17.3	213.2
1979	39.5	25.5	16.4	30.0	50.1	73.7	5.5	38.6	5.5	31.0	30.5	19.8	366.1
1980	24.4	5.6	66.2	21.6	108.0	14.0	6.6	0.8	5.5	14.5	34.5	6.1	307.8
1981	15.8	10.2	41.1	11.5	132.0	40.5	72.0	0.0	15.0	29.5	23.5	23.6	414.7
1982	21.3	10.4	10.7	37.1	37.5	33.5	52.5	8.0	6.5	11.5	3.0	14.9	246.9
1983	10.9	15.5	10.5	61.5	73.5	32.5	4.5	0.0	0.5	82.0	50.0	5.0	346.4
1984	8.0	6.5	18.5	48.5	48.5	9.0	36.0	1.5	0.0	0.0	20.0	10.5	207.0
1985	3.5	18.5	7.0	24.5	23.0	11.5	1.0	5.5	3.0	33.0	16.0	14.5	161.0
1986	10.0	14.0	0.0	13.0	103.0	68.5	0.0	6.5	11.0	33.5	41.5	17.0	318.0
TOTAL	650.2	624.0	1286.8	1186.3	1514.8	1013.0	280.0	196.0	444.1	718.0	751.2	832.3	9102.6
MEAN	24.1	23.1	47.7	43.9	56.1	36.2	10.0	7.0	15.9	26.6	26.8	29.7	350.1
MAX	73.9	60.7	511.8	109.1	132.0	107.6	72.0	38.6	72.5	82.0	59.7	85.1	894.5
MIN	2.7	3.0	0.0	11.5	6.9	2.8	0.0	0.0	0.0	0.0	0.0	1.9	161.0

Table A-2-26 Monthly Total Precipitation at Ortaca Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1961	57.5	282.5	55.8	26.3	40.6	53.2	********	13.3	26.4	69.1	52.8	456.9	**********
1962	92.1	238.1	48.8	79.9	124.8	3.0	0.0	36.5	1.2	53.3	19.8	421.5	1119.0
1963	233.3	174.3	95.5	138.2	121.9	75.9	110.1	0.0	56.9	13.2	12.1	51.7	1083.1
1964	16.4	59.3	153.3	17.4	121.6	60.0	12.6	17.1	21.4	0.0	154.7	135.0	768.8
1965	146.3	225.7	140.9	152.1	175.9	30.7	0.0	19.3	0.5	52.3	89.2	191.8	1224.7
1966	49.1	47.1	136.8	56.5	57.5	31.0	0.6	0.2	45.9	14.1	********	********	**********
1967	94.2	86.1	240.4	144.2	88.4	27.6	21.2	12.8	35.6	98.1	186.8	110.3	1145.7
1968	378.2	85.9	291.7	15.0	269.5	77.2	0.0	22.0	78.2	91.4	343.4	360.7	2013.2
TOTAL	1067.1	1199.0	1163.2	629.6	1000.2	358.6	144.5	121.2	266.1	391.5	858.8	1727.9	7354.5
MEAN	133.4	149.9	145.4	78.7	125.0	44.8	20.6	15.1	33.3	48.9	122.7	246.8	1225.7
MAX	378.2	282.5	291.7	152.1	269.5	77.2	110.1	36.5	78.2	98.1	343.4	456.9	2013.2
MIN	16.4	47.1	48.8	15.0	40.6	3.0	0.0	0.0	0.5	0.0	12.1	51.7	768.8

Table A-2-27 Monthly Total Precipitation at Karsanti Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	155.1	62.6	165.8	160.3	53.6	7.0	8.9	1.5	4.5	7.4	85.6	75.4	787.7
1961	97.8	364.8	60.8	62.4	53.3	3.7	0.0	0.0	56.5	79.9	25.5	494.6	1299.3
1962	131.4	242.5	58.8	67.0	92.9	0.0	0.0	11.7	1.9	48.6	2.9	370.4	1028.1
1963	259.6	146.7	68.5	113.5	144.1	69.0	40.4	0.0	22.1	4.9	12.2	72.7	953.7
1964	10.0	160.4	146.2	9.5	127.3	76.2	9.4	4.0	39.0	0.0	257.4	113.7	953.1
1965	186.0	266.0	125.4	122.7	75.3	27.3	0.0	3.9	0.0	41.5	130.3	176.2	1154.6
1966	635.3	37.5	83.9	60.3	73.5	13.7	1.0	15.3	41.0	18.5	78.1	330.5	1388.6
1967	95.0	81.9	229.7	63.3	83.3	5.6	14.9	17.1	33.0	90.8	128.9	104.3	947.8
1968	339.1	84.8	151.5	8.6	152.1	42.4	0.0	30.2	43.4	47.0	348.2	374.2	1621.5
1969	222.3	131.8	157.7	86.0	79.2	17.9	20.8	4.0	0.7	47.3	72.9	309.7	1150.3
1970	126.4	175.2	126.1	23.9	91.4	12.1	18.3	0.0	14.6	193.3	162.1	51.0	994.4
1971	29.5	169.7	141.0	234.4	24.5	33.1	0.0	49.7	7.4	1.5	160.3	112.5	963.6
1972	51.8	158.1	66.6	186.1	76.2	71.4	41.2	46.2	32.2	58.0	37.9	0.0	825.7
1973	37.6	115.1	89.7	93.3	38.2	22.5	6.9	3.1	13.2	28.2	57.9	108.0	613.7
1974	103.4	91.5	119.7	44.9	21.5	11.3	0.0	43.5	37.4	119.7	45.6	374.1	1012.6
1975	149.8	136.6	66.3	279.8	67.5	39.2	2.5	0.6	6.5	0.0	91.3	121.5	961.6
1976	196.1	86.8	35.2	133.7	116.2	********	********	********	********	********	********	********	**********
1977	********	********	********	********	********	********	********	********	********	********	********	160.7	**********
1978	328.8	197.5	158.9	129.6	12.1	12.3	0.0	********	********	********	********	********	**********
1979	214.4	29.4	53.3	111.8	68.9	121.0	46.7	2.9	7.9	37.3	152.6	237.4	1083.6
1980	********	********	********	********	173.9	0.0	2.5	0.0	10.1	26.5	139.5	207.6	**********
1981	774.2	181.6	64.2	9.7	102.9	33.0	17.5	0.0	1.6	28.9	110.9	499.3	1823.8
1982	38.7	36.1	124.0	93.2	********	********	0.0	16.3	13.2	74.4	0.8	75.8	**********
TOTAL	4182.3	2956.6	2293.3	2094.0	1727.9	618.7	231.0	250.0	386.2	953.7	2100.9	4369.6	19563.7
MEAN	199.2	140.8	109.2	99.7	82.3	30.9	11.0	12.5	19.3	47.7	105.0	208.1	1086.9
MAX	774.2	364.8	229.7	279.8	173.9	121.0	46.7	49.7	56.5	193.3	348.2	499.3	1823.8
MIN	10.0	29.4	35.2	8.6	12.1	0.0	0.0	0.0	0.0	0.0	0.8	0.0	613.7

Table A-2-28 Monthly Total Precipitation at Ergenusagi Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1963	369.4	285.0	201.8	295.0	132.6	180.8	29.5	0.0	86.7	15.6	4.6	14.7	1615.7
1964	1.9	20.7	16.3	24.8	114.7	26.6	0.0	8.8	23.4	0.0	229.7	113.3	580.2
1965	174.6	233.1	204.7	152.5	128.5	31.1	0.0	0.0	1.7	63.6	107.0	215.1	1311.9
1966	566.4	56.2	111.4	60.4	34.4	43.0	2.2	44.4	49.5	5.0	87.5	413.1	1473.5
1967	106.6	83.7	249.8	131.3	89.6	47.0	0.0	0.0	50.2	62.3	142.4	135.1	1098.0
1968	210.1	87.8	128.2	17.2	108.5	74.7	0.0	30.2	176.8	46.9	233.4	358.0	1471.8
1969	114.3	110.4	159.7	94.1	69.8	20.2	0.0	3.5	9.4	38.6	85.9	242.5	948.4
1970	88.0	124.2	73.5	24.1	19.9	6.6	73.1	0.0	26.9	66.4	221.1	33.8	757.6
1971	24.0	162.4	175.4	161.6	9.2	6.3	6.4	46.4	3.0	16.3	163.4	91.4	865.8
1972	23.7	120.8	26.3	35.9	10.5	17.5	2.0	5.2	14.1	15.3	7.1	********	**********
TOTAL	1679.0	1284.3	1347.1	996.9	717.7	453.8	113.2	138.5	441.7	330.0	1282.1	1617.0	10122.9
MEAN	167.9	128.4	134.7	99.7	71.8	45.4	11.3	13.8	44.2	33.0	128.2	179.7	1124.8
MAX	566.4	285.0	249.8	295.0	132.6	180.8	73.1	46.4	176.8	66.4	233.4	413.1	1615.7
MIN	1.9	20.7	16.3	17.2	9.2	6.3	0.0	0.0	1.7	0.0	4.6	14.7	580.2

Table A-2-29 Monthly Total Precipitation at Mansurlu Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	2.0	78.9	118.5	0.0	51.0	20.0	0.0	0.0	17.4	0.0	230.0	85.0	602.8
1965	112.6	142.3	62.2	126.0	57.3	15.2	0.0	10.0	0.0	35.3	63.9	195.3	820.1
1966	590.2	60.1	223.8	40.7	24.2	7.0	0.0	17.7	46.0	11.0	********	278.7	**********
1967	100.5	74.2	133.4	74.3	106.9	20.2	0.0	0.0	8.7	41.5	103.1	104.3	767.1
1968	260.3	94.1	148.1	21.3	57.9	39.0	0.0	32.0	63.1	41.4	203.3	239.5	1200.0
1969	162.5	111.8	141.7	113.2	110.1	14.5	0.0	28.4	52.1	60.8	32.0	232.9	1060.0
1970	127.2	149.0	71.6	18.4	50.6	15.1	5.6	0.0	24.5	107.5	134.9	43.2	747.6
1971	30.6	124.8	98.9	201.5	41.9	85.8	7.0	46.7	9.7	9.5	125.9	79.1	861.4
1972	18.7	115.4	42.4	187.0	98.1	91.6	2.4	17.0	62.8	82.9	59.4	0.0	777.7
1973	15.6	115.8	91.3	131.5	72.0	73.0	15.0	0.0	19.8	26.8	62.6	99.6	723.0
1974	94.5	59.2	132.8	86.4	66.3	17.6	0.0	74.2	30.2	97.6	66.2	250.8	975.8
1975	120.4	76.5	64.3	344.1	138.4	29.7	5.3	6.8	27.5	2.0	110.9	113.8	1039.7
1976	203.6	102.7	79.2	140.3	110.6	9.0	16.1	36.0	29.0	92.7	176.0	200.4	1195.6
1977	121.6	96.9	108.5	203.6	79.0	18.3	64.0	0.0	35.3	22.4	5.3	150.3	905.2
1978	225.0	169.3	183.0	141.9	17.9	0.0	0.0	0.0	10.0	209.5	0.0	143.9	1100.5
1979	257.4	72.3	10.9	144.9	34.0	71.3	46.7	10.2	0.0	72.0	167.5	152.8	1040.0
1980	221.2	129.4	297.5	155.8	263.8	9.1	0.0	9.8	10.1	24.2	108.4	164.7	1394.0
1981	409.5	188.3	81.4	32.7	123.1	22.6	0.0	0.0	1.0	20.0	91.8	308.6	1279.0
1982	69.5	27.9	96.8	110.5	37.5	34.4	49.4	15.2	4.3	84.7	5.0	40.9	576.1
1983	236.8	179.2	154.2	150.4	81.7	12.9	0.0	0.0	1.4	71.5	119.1	161.5	1168.7
1984	233.1	100.7	94.1	187.7	14.4	49.0	18.4	2.4	0.0	0.0	82.5	87.4	869.7
1985	168.2	120.3	126.0	67.3	105.9	11.1	0.0	0.0	9.0	167.9	104.1	39.4	919.2
TOTAL	3781.0	2389.1	2560.6	2679.5	1742.6	666.4	229.9	306.4	461.9	1281.2	2051.9	3172.1	20023.2
MEAN	171.9	108.6	116.4	121.8	79.2	30.3	10.4	13.9	21.0	58.2	97.7	144.2	953.5
MAX	590.2	188.3	297.5	344.1	263.8	91.6	64.0	74.2	63.1	209.5	230.0	308.6	1394.0
MIN	2.0	27.9	10.9	0.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	576.1

Table A-2-30 Monthly Total Precipitation at Feke Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1941	********	********	30.9	52.9	13.9	0.0	14.7	21.4	22.3	93.6	26.9	132.5	**********
1942	208.9	143.5	60.2	47.4	6.0	16.2	0.0	0.4	32.8	111.9	184.6	5.9	817.8
1943	132.4	57.8	9.8	88.1	109.4	25.6	14.1	0.0	0.0	61.1	29.1	76.5	603.9
1944	97.8	363.0	245.7	32.3	99.6	48.6	0.0	32.3	4.8	43.4	84.3	66.9	1118.7
1945	185.5	71.7	59.7	67.2	24.7	31.7	0.0	34.1	0.0	39.0	79.8	174.4	767.8
1946	35.5	261.3	224.7	171.4	61.4	45.5	5.0	14.2	5.4	137.6	41.7	149.9	1153.6
1947	268.1	150.0	75.7	87.1	70.1	47.5	17.6	11.4	29.5	80.8	325.0	147.5	1310.3
1948	24.4	310.1	59.3	131.3	83.8	23.2	0.0	7.4	8.0	12.9	63.4	63.1	786.9
1949	213.3	79.6	146.2	134.3	8.2	1.0	86.5	0.0	42.7	11.0	30.5	74.6	827.9
1950	72.0	87.5	147.1	180.5	165.6	27.0	18.3	0.0	24.4	107.9	37.9	80.2	948.4
1951	135.8	80.6	184.5	155.3	64.2	105.4	0.0	0.0	51.4	93.8	92.6	176.0	1139.6
1952	99.5	181.5	145.2	61.3	102.7	55.1	6.1	0.0	68.2	36.4	164.0	139.6	1059.6
1953	205.3	329.6	131.2	130.4	117.9	95.4	4.2	5.5	28.4	7.0	125.0	20.5	1200.4
1954	228.8	100.6	99.5	126.9	70.8	30.6	0.0	5.2	27.1	41.3	128.2	232.8	1091.8
1955	66.0	102.5	105.7	78.7	46.3	22.4	36.0	81.5	1.4	53.4	131.9	72.1	797.9
1956	63.9	199.5	96.8	24.6	49.3	0.0	9.5	16.5	30.9	25.9	52.7	70.4	640.0
1957	49.0	77.9	128.3	71.2	103.3	52.2	0.0	1.6	77.9	42.1	31.6	260.0	895.1
1958	266.5	78.3	158.0	73.7	112.6	73.9	1.6	29.3	16.3	14.2	9.2	85.9	919.5
1959	182.2	114.6	31.1	119.3	89.7	61.3	26.1	10.1	21.8	60.1	30.0	120.6	866.9
1960	149.4	68.9	145.2	180.5	66.4	56.8	3.0	0.0	6.0	17.6	75.0	69.0	837.8
1961	66.3	174.8	88.6	13.6	39.5	38.6	0.0	9.6	32.3	24.4	34.1	321.8	843.6
1962	0.0	190.0	88.5	48.2	93.9	13.5	0.0	0.0	********	0.0	0.0	0.0	**********
1963	235.3	163.5	106.9	199.6	98.3	65.5	88.4	********	********	********	********	********	**********
1964	11.1	114.8	143.5	13.8	110.3	18.4	5.9	4.2	6.4	0.0	160.2	83.7	672.3
1965	********	********	********	********	********	********	********	********	0.0	45.1	120.0	182.0	**********
1966	456.0	34.6	122.9	62.0	43.8	29.6	1.4	50.9	31.9	10.5	86.3	318.5	1248.4
1967	133.4	48.5	151.4	104.3	********	********	********	********	14.8	30.2	150.8	188.0	**********
1968	316.6	124.3	183.8	31.2	79.0	46.7	0.0	16.0	62.5	43.9	179.9	258.3	1342.2
1969	117.7	90.9	158.4	127.4	78.8	9.2	8.8	0.0	9.5	18.2	68.2	233.1	920.2
1970	86.3	195.2	89.3	21.9	63.6	14.6	15.9	0.0	27.7	73.8	105.8	72.7	766.8
1971	30.7	78.5	133.4	192.7	36.2	37.8	7.2	30.3	13.7	20.0	86.4	50.4	717.3
1972	23.2	115.6	42.7	150.7	41.1	32.2	7.5	27.4	64.1	59.6	33.7	0.0	597.8
1973	15.1	152.5	86.1	130.9	79.7	19.3	3.9	0.0	21.7	10.0	62.5	112.9	694.6
1974	92.4	48.3	108.2	73.1	20.9	25.7	0.0	35.2	61.7	64.3	50.0	244.4	824.2
1975	112.0	86.8	96.0	242.4	83.0	19.8	2.7	19.3	30.6	15.5	49.0	111.1	868.2
1976	288.4	76.7	42.0	105.5	116.9	22.1	17.3	49.0	48.3	116.6	112.8	158.1	1153.7
1977	87.6	79.6	158.0	194.3	49.8	43.4	25.6	0.0	21.1	28.9	14.7	119.7	822.7
1978	244.8	219.1	110.0	155.8	45.2	5.5	0.0	0.0	12.0	188.3	7.5	139.0	1127.2
1979	285.2	98.1	30.7	144.3	113.2	18.5	52.6	0.0	24.7	48.9	138.8	149.8	1104.8
1980	213.6	95.8	334.9	117.6	180.5	26.5	0.0	7.6	1.7	45.3	58.9	142.1	1224.5
1981	353.4	130.6	105.6	35.9	121.7	27.3	11.3	8.9	1.5	33.5	100.8	327.2	1257.7
1982	32.9	41.6	88.0	150.7	69.0	7.4	33.3	11.2	22.0	88.4	4.0	87.2	635.7
1983	200.0	146.8	76.9	157.8	55.0	78.8	0.0	2.0	7.7	59.9	271.3	107.8	1164.0
1984	150.2	96.7	79.1	197.5	16.0	14.8	40.8	3.9	0.0	15.3	66.2	91.5	772.0
1985	162.6	117.8	109.2	110.9	69.3	28.4	4.8	0.4	8.5	104.6	61.0	39.8	817.5
1986	146.7	91.5	21.8	52.6	92.5	73.1	0.0	0.3	13.6	29.5	106.2	243.6	871.4
TOTAL	6545.8	5671.1	5040.7	4849.1	3263.1	1536.3	570.1	547.1	1037.3	2265.7	3872.5	6001.1	38230.7
MEAN	148.8	128.9	112.0	107.8	74.2	34.9	13.0	12.7	23.6	50.3	86.1	133.4	932.5
MAX	456.0	363.0	334.9	242.4	180.5	105.4	88.4	81.5	77.9	188.3	325.0	327.2	1342.2
MIN	0.0	34.6	9.8	13.6	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	597.8

Table A-2-31 Monthly Total Precipitation at Cokak Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	143.3	239.2	198.1	144.1	199.4	24.0	10.3	3.4	19.6	60.8	59.1	285.2	1386.5
1970	79.8	375.9	186.3	70.2	74.8	68.5	1.5	2.7	47.8	87.7	152.6	129.2	1277.0
1971	21.7	171.6	260.3	220.8	39.8	24.7	0.0	43.7	19.8	70.3	99.2	75.7	1047.6
1972	26.5	101.9	131.5	230.1	90.2	31.6	20.1	6.6	25.7	150.2	121.0	1.0	936.4
1973	23.7	208.3	225.6	254.6	45.1	53.2	0.0	0.0	38.5	68.8	143.6	250.7	1312.1
1974	87.9	59.4	129.1	117.9	40.8	25.6	0.0	55.2	59.2	102.3	80.7	375.2	1133.3
1975	142.6	146.6	160.0	281.8	126.0	6.2	1.2	9.0	9.0	6.3	107.7	134.3	1130.7
1976	471.3	112.0	56.6	190.9	159.1	28.0	13.2	29.0	36.4	148.4	119.6	415.6	1780.1
1977	54.9	138.8	243.8	316.6	79.6	33.8	7.2	0.0	86.0	40.9	66.9	236.8	1305.3
1978	392.3	315.8	194.5	272.9	76.5	12.4	4.0	0.0	35.8	183.3	19.2	419.4	1926.1
1979	722.7	276.1	48.9	159.8	89.6	32.9	18.2	0.0	21.4	107.8	176.2	277.8	1931.4
1980	376.6	92.3	451.0	198.3	269.1	15.4	7.2	0.0	1.5	98.2	103.4	284.6	1897.6
1981	427.1	211.2	276.7	63.4	139.3	63.7	12.3	15.2	3.3	124.1	195.4	517.3	2049.0
1982	182.6	77.9	178.3	239.2	58.0	31.1	27.9	1.5	15.2	88.8	18.3	246.6	1165.4
1983	157.8	232.7	106.0	169.1	134.4	38.7	5.4	0.0	13.7	79.5	393.5	132.4	1463.2
1984	139.0	202.9	133.1	357.9	18.8	6.6	5.4	14.8	0.0	12.5	75.6	83.0	1049.6
1985	253.8	258.8	98.6	118.2	86.3	57.2	3.6	24.2	8.4	211.7	106.9	46.9	1274.6
1986	348.8	130.1	17.1	65.4	137.4	92.4	6.5	0.0	10.8	59.7	149.1	443.5	1460.8
TOTAL	4052.4	3351.5	3095.5	3471.2	1864.2	646.0	144.0	205.3	452.1	1701.3	2188.0	4355.2	25526.7
MEAN	225.1	186.2	172.0	192.8	103.6	35.9	8.0	11.4	25.1	94.5	121.6	242.0	1418.1
MAX	722.7	375.9	451.0	357.9	269.1	92.4	27.9	55.2	86.0	211.7	393.5	517.3	2049.0
MIN	21.7	59.4	17.1	63.4	18.8	6.2	0.0	0.0	0.0	6.3	18.3	1.0	936.4

Table A-2-32 Monthly Mean Temperature at Feke Meteorological Station (unit: °C)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1965	********	********	********	********	********	********	********	********	26.6	13.3	8.2	6.6	**********
1966	6.7	9.2	9.8	14.2	18.2	23.5	26.8	27.4	22.2	17.3	13.4	7.2	16.3
1967	4.1	3.4	7.6	12.5	********	********	********	********	21.2	16.4	9.7	6.7	**********
1968	2.1	4.9	8.6	15.8	19.2	22.6	27.2	24.3	19.9	15.8	10.6	6.7	14.8
1969	4.9	6.0	10.4	10.8	19.3	23.5	25.8	26.8	23.0	16.7	9.3	6.9	15.3
1970	6.5	7.6	10.7	15.8	17.7	23.7	26.1	26.8	22.1	14.7	11.9	5.1	15.7
1971	6.3	5.3	8.8	12.4	18.9	22.5	26.3	25.3	23.1	14.8	10.0	4.9	14.9
1972	2.1	2.9	9.0	14.7	17.2	21.6	24.4	25.2	22.1	16.8	9.0	3.3	14.0
1973	3.6	6.8	8.0	12.7	18.2	21.0	25.8	26.4	22.6	17.2	8.5	5.2	14.7
1974	2.3	5.8	11.1	12.4	17.9	23.4	27.2	25.1	20.3	17.9	10.0	5.4	14.9
1975	3.3	4.1	9.6	14.6	17.4	22.4	27.0	26.3	23.1	15.8	9.3	4.0	14.7
1976	3.8	3.0	8.7	12.6	17.5	22.8	24.3	24.9	21.1	16.1	10.7	6.8	14.4
1977	2.7	8.6	8.8	14.0	18.9	22.8	26.7	27.9	22.9	18.0	11.7	5.3	15.7
1978	5.7	7.4	9.8	13.0	20.2	22.8	28.4	25.9	22.4	18.1	8.9	7.1	15.8
1979	5.5	8.6	11.3	14.7	18.9	22.5	25.1	26.4	22.8	17.2	11.8	4.8	15.8
1980	2.2	5.2	8.4	12.7	17.9	24.0	27.9	27.5	22.9	17.1	11.9	7.8	15.5
1981	4.8	6.7	12.3	14.2	16.6	23.8	27.4	27.9	23.9	18.8	9.1	8.9	16.2
1982	6.1	4.0	7.9	14.1	18.4	23.6	25.2	26.2	23.4	16.3	9.0	5.1	14.9
1983	1.2	3.3	8.7	13.9	18.6	22.3	26.3	26.3	23.0	15.6	11.8	7.0	14.8
1984	6.4	7.8	10.7	12.4	19.7	24.1	26.7	25.2	24.6	17.4	10.8	4.1	15.8
1985	6.5	2.7	8.3	14.6	19.5	22.9	26.1	28.2	23.4	14.4	11.6	6.0	15.3
1986	5.8	7.6	10.6	16.0	15.6	21.8	26.5	27.7	24.4	17.0	8.7	5.6	15.6
MEAN	4.4	5.8	9.5	13.7	18.3	22.9	26.4	26.4	22.8	16.5	10.3	5.9	15.3
MAX	6.7	9.2	12.3	16.0	20.2	24.1	28.4	28.2	26.6	18.8	13.4	8.9	16.3
MIN	1.2	2.7	7.6	10.8	15.6	21.0	24.3	24.3	19.9	13.3	8.2	3.3	14.0

Table A-2-33 Monthly Mean Temperature at Tomarza Meteorological Station (unit: °C)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1965	********	-1.0	3.8	7.0	11.4	16.7	18.9	21.4	16.9	6.6	3.6	0.6	**********
1966	1.7	3.4	3.7	9.3	12.4	17.5	21.1	22.2	15.4	11.8	8.6	-0.2	10.6
1967	-4.9	-8.2	-0.5	6.8	12.8	14.9	18.2	19.0	14.8	9.9	1.5	-0.4	7.0
1968	-7.3	-6.0	0.7	9.8	13.7	15.2	20.3	18.0	14.2	9.8	5.2	1.3	7.9
1969	-2.8	-6.8	3.4	4.9	13.2	17.5	18.1	20.1	15.6	9.4	3.1	-0.2	8.0
1970	-1.2	1.7	4.5	10.6	12.0	16.7	20.6	18.6	14.3	7.8	5.8	-2.7	9.1
1971	0.7	-1.0	3.3	6.7	12.4	15.5	20.2	18.8	16.3	7.5	3.7	-3.3	8.4
1972	-12.7	-9.2	1.5	9.7	12.0	15.4	20.3	20.0	16.7	10.8	1.6	-4.7	6.8
1973	-4.8	1.4	0.9	7.0	12.8	14.7	19.6	19.4	15.8	10.4	0.2	-3.2	7.8
1974	-9.2	-2.4	4.9	6.2	12.8	18.3	19.9	18.7	13.7	13.0	4.3	-1.4	8.2
1975	-10.7	-5.9	1.0	9.3	11.9	16.6	21.1	19.8	15.3	8.8	1.2	-4.4	7.0
1976	-6.1	-9.4	-0.2	7.0	12.2	15.8	18.2	19.4	14.0	10.4	5.4	-0.8	7.2
1977	-7.9	1.5	2.2	7.8	12.4	15.6	19.2	20.3	15.7	6.5	5.7	-5.1	7.8
1978	-3.1	1.9	4.2	7.7	13.7	16.6	21.1	18.4	15.6	11.5	0.9	1.3	9.1
1979	-2.3	1.6	4.8	8.4	13.4	16.3	18.6	21.4	17.2	10.6	6.1	-1.0	9.6
1980	-7.9	-4.8	0.8	7.7	13.1	17.7	22.5	19.5	14.8	9.8	3.8	-0.1	8.1
1981	-0.2	-0.2	4.9	7.4	10.0	16.3	20.4	19.4	16.6	11.8	1.9	-2.9	8.3
1982	-1.5	-8.8	1.0	9.1	12.9	16.3	17.9	18.6	15.5	9.1	1.8	1.3	7.8
1983	-10.2	-5.7	2.3	7.9	12.5	15.4	19.7	17.7	14.7	8.2	6.0	0.4	7.4
1984	0.8	1.1	4.4	6.7	12.6	16.6	19.3	16.8	17.2	9.5	4.4	-8.2	8.4
1985	-0.2	-5.2	-0.9	9.7	13.7	17.2	17.8	21.1	14.9	7.4	5.6	-2.1	8.2
1986	-1.5	0.0	3.2	9.2	9.0	15.0	21.1	22.0	16.9	9.3	-1.9	-4.1	8.2
MEAN	-4.3	-2.8	2.4	8.0	12.4	16.3	19.7	19.6	15.5	9.5	3.6	-1.8	8.2
MAX	1.7	3.4	4.9	10.6	13.7	18.3	22.5	22.2	17.2	13.0	8.6	1.3	10.6
MIN	-12.7	-9.4	-0.9	4.9	9.0	14.7	17.8	16.8	13.7	6.5	-1.9	-8.2	6.8

Table A-2-34 Monthly Mean Temperature at Pinarbasi Meteorological Station (unit: °C)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1963	********	********	********	********	********	********	18.1	18.6	14.7	9.9	4.0	-1.0	**********
1964	-8.8	-4.5	3.3	6.0	11.1	15.7	19.2	17.9	13.4	8.8	3.1	0.0	7.1
1965	-3.6	-2.1	3.5	6.3	11.7	15.9	18.8	20.6	15.3	5.9	2.6	0.2	7.9
1966	1.2	2.3	3.3	8.7	11.8	16.2	19.5	20.3	14.2	9.7	7.7	-1.1	9.5
1967	-6.1	-8.0	-1.0	6.1	11.8	13.7	16.6	17.4	13.6	9.3	1.9	-0.3	6.2
1968	-6.3	-4.2	0.9	9.5	13.6	14.5	19.1	16.8	13.8	9.7	5.1	0.6	7.8
1969	-2.4	-4.9	3.0	5.2	13.2	16.6	17.2	19.0	14.3	9.0	2.6	0.8	7.8
1970	-0.4	1.1	4.4	10.4	11.4	15.8	19.1	17.4	13.5	7.5	5.6	-3.1	8.6
1971	0.2	-1.0	3.3	6.8	12.9	14.7	19.5	17.6	15.7	6.9	3.6	-3.6	8.0
1972	-11.4	-6.8	1.3	9.9	11.6	14.7	19.9	19.1	14.8	10.5	1.9	-4.2	6.8
1973	-4.3	0.9	1.1	7.1	12.2	14.3	18.7	18.4	14.4	9.8	0.5	-2.8	7.5
1974	-8.8	-2.4	4.5	5.5	13.0	18.3	19.1	18.1	12.7	12.9	3.8	-1.2	8.0
1975	-8.0	-4.8	2.2	9.0	11.6	15.8	20.3	18.9	14.6	8.0	2.0	-4.6	7.1
1976	-5.0	-7.4	0.5	7.2	12.1	15.7	18.0	17.9	13.1	9.9	5.9	-2.3	7.1
1977	-7.5	2.0	1.0	8.2	12.1	15.3	19.0	20.8	15.2	5.8	4.7	-5.1	7.6
1978	-3.6	0.6	2.9	6.2	12.3	15.7	21.0	17.6	14.0	11.8	1.7	1.1	8.4
1999	-0.8	1.9	5.4	9.7	13.9	16.4	18.8	22.2	17.7	11.0	7.5	-0.4	10.3
1980	-6.8	-5.1	0.4	7.8	13.0	17.1	22.1	19.0	14.8	9.7	3.0	-0.9	7.8
1981	-1.9	-1.5	2.5	6.0	8.6	14.9	19.9	18.9	16.7	11.9	2.2	2.3	8.4
1982	-3.6	-9.4	-0.3	8.2	12.3	16.3	17.7	18.7	14.2	7.8	-0.1	-3.5	6.5
1983	-11.1	-7.7	0.8	7.5	11.8	14.4	18.3	16.8	13.5	7.0	4.8	-0.5	6.3
1984	-0.6	-0.7	3.0	6.0	11.7	15.7	17.9	15.3	16.5	9.0	3.2	-7.9	7.4
1985	-1.2	-6.5	-2.4	8.7	13.5	16.4	16.4	21.0	14.4	6.9	5.9	-1.5	7.6
1986	-2.2	-0.8	2.7	9.1	8.2	14.5	19.7	20.8	16.5	9.4	-1.8	-2.8	7.8
MEAN	-4.5	-3.0	2.0	7.6	12.0	15.6	18.9	18.7	14.6	9.1	3.4	-1.7	7.7
MAX	1.2	2.3	5.4	10.4	13.9	18.3	22.1	22.2	17.7	12.9	7.7	2.3	10.3
MIN	-11.4	-9.4	-2.4	5.2	8.2	13.7	16.4	15.3	12.7	5.8	-1.8	-7.9	6.2

Table A-2-35 Monthly Mean Temperature at Adana Meteorological Station (unit: °C)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1939	10.6	9.7	11.8	18.2	23.0	24.0	27.8	27.3	25.4	22.4	14.9	11.4	18.9
1940	9.0	11.3	12.2	17.7	20.0	24.9	27.0	27.4	24.6	21.0	15.5	11.9	18.5
1941	9.7	12.2	12.9	17.9	23.0	25.4	27.5	27.8	24.4	18.2	14.7	7.5	18.4
1942	6.7	11.5	13.2	16.7	21.7	26.4	27.5	27.4	24.7	20.3	15.2	10.5	18.5
1943	8.7	8.4	10.0	14.9	20.0	23.6	26.6	28.6	26.6	22.2	17.5	11.9	18.2
1944	8.5	10.3	13.7	17.6	20.1	24.8	27.2	27.2	24.7	21.2	15.3	11.4	18.5
1945	9.1	9.6	10.6	15.2	23.3	25.1	28.0	28.3	26.1	20.0	15.7	10.5	18.5
1946	9.5	9.8	12.5	17.5	20.4	25.1	27.8	28.5	26.8	19.0	17.9	11.9	18.9
1947	9.8	11.0	15.4	18.1	22.3	25.3	28.3	28.4	24.8	20.5	16.4	12.2	19.4
1948	********	********	********	********	********	********	********	********	********	********	********	********	**********
1949	8.1	7.3	11.8	14.2	21.9	24.5	26.3	27.0	22.6	20.1	17.2	11.4	17.7
1950	5.4	7.9	12.9	19.3	20.5	24.4	27.0	27.0	25.6	19.1	15.7	12.4	18.1
1951	9.9	10.9	14.8	17.8	21.2	24.9	27.5	28.2	25.3	18.4	15.3	9.6	18.6
1952	9.6	10.9	11.6	17.0	20.5	24.7	27.2	28.3	27.2	22.0	15.1	13.3	18.9
1953	10.0	10.3	9.7	16.2	20.3	24.9	28.1	28.2	24.0	20.3	12.3	7.3	17.6
1954	7.7	10.3	14.4	15.4	20.5	25.8	28.7	29.1	25.5	21.3	15.9	11.7	18.9
1955	10.8	13.1	13.0	16.8	21.6	26.6	27.8	27.0	25.4	22.5	16.0	11.6	19.3
1956	9.9	11.1	11.5	16.9	19.8	25.6	28.2	29.0	25.0	19.6	14.8	9.5	18.4
1957	8.4	11.4	14.1	17.2	20.6	26.2	28.1	28.7	25.8	22.8	15.3	10.8	19.1
1958	9.8	11.5	14.0	17.0	21.0	24.6	26.9	28.5	24.6	20.1	16.2	11.9	18.8
1959	11.0	6.1	12.9	17.9	21.7	24.2	26.8	27.4	23.7	18.7	14.9	12.1	18.1
1960	10.8	11.4	13.3	17.4	23.2	25.1	27.8	28.0	25.5	22.2	17.6	13.8	19.7
1961	9.6	9.4	12.4	17.9	21.7	25.4	28.2	28.6	23.5	20.2	15.4	12.3	18.7
1962	11.0	10.0	15.6	16.6	21.9	25.5	27.6	29.0	26.2	21.3	18.6	12.6	19.7
1963	12.1	12.8	11.7	17.2	20.0	24.8	27.6	28.5	25.8	21.6	15.8	10.8	19.1
1964	5.9	10.1	14.6	16.8	20.2	24.8	27.3	27.7	27.6	21.4	15.4	11.7	18.6
1965	10.0	10.0	14.4	16.5	20.9	26.2	27.7	27.8	25.7	18.5	14.9	11.7	18.7
1966	11.6	13.6	13.8	18.1	21.2	25.5	27.7	28.5	25.2	22.3	19.1	11.7	19.9
1967	********	********	********	********	********	********	********	********	********	********	********	********	**********
1968	7.6	10.0	12.8	19.3	23.6	25.4	28.3	26.8	24.4	20.9	15.8	12.2	18.9
1969	9.7	11.0	14.6	16.2	22.7	26.0	26.9	27.6	26.2	21.0	14.8	12.1	19.1
1970	11.3	12.3	14.5	19.0	20.7	25.6	27.6	28.0	25.2	20.0	17.2	10.2	19.3
1971	12.2	10.0	13.7	15.8	22.6	25.5	27.4	27.8	25.9	20.0	15.6	9.6	18.8
1972	7.4	8.5	13.4	18.9	21.0	25.1	26.9	27.9	26.4	21.5	14.9	10.2	18.5
1973	9.3	12.9	13.2	17.1	22.2	25.2	27.8	28.0	26.5	22.3	13.1	10.8	19.0
1974	8.3	11.3	14.9	16.4	21.1	25.5	27.9	26.9	24.9	23.1	16.2	10.8	18.9
1975	9.2	9.5	14.0	18.8	20.9	25.2	27.9	27.7	26.3	21.3	14.9	9.2	18.7
1976	9.7	8.4	13.3	16.3	21.0	25.0	27.2	27.2	24.6	21.5	16.9	11.9	18.6
1977	8.3	13.4	13.4	17.3	22.5	25.9	28.4	28.7	25.8	19.6	16.6	10.4	19.2
1978	10.7	12.2	13.8	16.7	22.2	25.3	29.4	27.4	24.6	22.4	13.7	12.4	19.2
1979	10.7	12.9	14.5	17.8	21.6	25.9	27.9	27.8	26.2	21.8	17.7	10.9	19.6
1980	7.7	10.1	13.1	16.6	20.8	25.4	28.1	28.2	25.0	21.5	16.4	12.3	18.8
1981	10.1	10.7	15.2	17.1	19.9	25.6	28.5	28.4	26.8	23.0	14.2	13.4	19.4
1982	10.7	9.1	11.9	18.1	21.8	25.5	27.0	28.0	26.5	21.1	14.0	10.4	18.7
1983	7.6	9.1	12.7	17.0	21.5	24.8	27.7	27.6	25.2	20.4	14.5	12.3	18.4
1984	11.6	12.5	14.5	16.2	22.4	25.3	27.6	26.6	26.2	22.1	14.9	9.7	19.1
1985	11.2	7.4	13.4	18.0	22.4	25.3	27.4	29.0	26.5	19.4	17.1	11.5	19.0
1986	11.1	12.3	15.2	19.9	20.0	26.3	27.9	28.8	27.0	21.9	13.7	10.9	19.6
MEAN	9.5	10.6	13.3	17.2	21.4	25.3	27.7	28.0	25.5	20.9	15.7	11.2	18.8
MAX	12.2	13.6	15.6	19.9	23.6	26.6	29.4	29.1	27.6	23.1	19.1	13.8	19.9
MIN	5.4	6.1	9.7	14.2	19.8	23.6	26.3	26.6	22.6	18.2	12.3	7.3	17.6

Table A-2-36 Monthly Mean Temperature at Kayseri Meteorological Station (unit: °C)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1939	-0.5	-1.9	3.2	10.5	16.9	18.8	21.7	21.2	17.0	13.4	4.2	2.5	10.6
1940	-4.6	2.7	2.9	12.1	14.2	19.0	23.1	23.3	16.9	12.3	6.7	5.0	11.1
1941	-0.4	2.6	4.7	11.6	18.0	20.9	23.6	21.7	17.2	9.3	4.8	-6.5	10.6
1942	-4.8	2.1	4.3	10.3	16.5	21.4	21.9	23.0	16.0	11.7	5.9	-0.5	10.6
1943	-1.5	-5.3	-0.5	9.2	14.6	18.4	21.3	22.3	17.4	13.7	7.5	0.9	9.8
1944	-3.5	2.2	6.2	10.3	13.5	19.3	21.8	20.4	16.3	13.5	6.1	2.1	10.7
1945	-0.3	-3.1	0.5	7.5	16.3	17.3	21.7	22.4	17.4	9.3	5.7	0.5	9.6
1946	-2.3	1.2	4.8	10.6	14.5	18.6	22.1	22.0	18.2	9.5	7.8	2.3	10.8
1947	-1.0	1.3	8.0	11.3	16.3	20.8	23.3	21.1	16.2	10.1	7.6	3.0	11.5
1948	2.7	2.2	0.3	9.2	15.0	19.5	22.7	23.0	16.8	10.1	1.7	-3.3	10.0
1949	-7.0	-5.1	2.7	6.9	16.5	21.5	23.1	20.9	14.9	12.3	7.6	3.0	9.8
1950	-6.4	5.9	4.4	15.0	15.3	18.1	21.8	21.2	20.6	10.1	6.8	1.7	11.2
1951	0.4	1.7	8.5	12.1	15.1	18.9	22.5	23.5	18.3	9.0	6.2	-3.6	11.0
1952	-1.3	0.9	3.4	11.1	14.3	17.7	22.2	23.0	20.7	14.6	6.7	4.3	11.5
1953	2.7	1.4	-1.4	10.9	14.5	19.1	22.4	22.7	16.7	11.9	0.9	-8.7	9.4
1954	-4.3	-1.5	4.9	8.3	16.0	20.3	24.7	24.2	18.3	13.6	7.4	2.1	11.2
1955	-0.9	6.6	6.6	10.6	15.9	21.9	23.8	22.5	18.9	15.2	6.2	1.6	12.4
1956	1.0	1.0	1.6	11.8	13.5	20.0	22.3	23.2	15.1	10.1	4.0	-5.1	9.9
1957	-6.7	-1.8	5.6	11.7	14.4	19.1	23.6	24.3	20.9	13.6	4.8	2.2	11.0
1958	1.7	3.0	7.2	11.5	16.0	18.5	22.1	22.4	17.4	10.7	5.8	2.2	11.5
1959	1.6	-7.6	3.0	11.7	16.0	18.9	23.4	21.6	15.3	9.1	5.5	3.4	10.2
1960	0.3	-0.7	5.4	10.2	17.1	18.9	23.4	21.5	18.5	14.2	8.5	3.8	11.8
1961	-0.9	1.4	3.8	12.4	18.0	20.0	22.8	23.1	14.5	12.0	6.3	3.3	11.4
1962	0.0	1.0	8.4	10.7	16.6	21.4	25.2	24.8	19.0	13.4	9.2	4.5	12.8
1963	3.3	4.0	2.8	10.5	14.2	19.2	22.5	22.5	18.0	13.0	5.9	0.9	11.4
1964	-7.1	-1.4	6.6	9.6	14.5	18.7	22.6	21.4	16.7	12.1	6.5	2.8	10.2
1965	-1.0	0.9	6.8	10.0	14.0	19.0	21.7	22.9	16.4	7.4	3.7	2.1	10.3
1966	3.6	4.4	5.6	11.7	14.1	19.0	22.9	23.2	16.5	12.3	8.1	1.7	11.9
1967	-3.8	-5.7	2.1	8.6	14.4	16.8	20.4	20.5	15.7	11.3	3.8	1.1	8.8
1968	-4.1	-1.7	3.1	12.1	16.1	17.1	22.2	19.6	16.1	11.3	6.2	3.2	10.1
1969	-0.9	-7.1	6.4	7.4	15.8	20.3	20.8	22.0	17.4	10.5	3.3	3.1	9.9
1970	2.1	4.1	7.4	12.9	14.8	19.3	23.2	20.4	15.5	10.3	6.4	-1.9	11.2
1971	1.4	1.3	6.0	9.1	15.0	17.7	22.6	20.5	17.5	8.8	4.9	-1.1	10.3
1972	-9.4	-5.7	3.9	12.7	14.1	17.9	22.7	21.9	17.9	11.8	2.2	-5.7	8.7
1973	-3.5	3.4	3.3	9.5	15.0	17.1	21.6	20.5	17.1	11.7	1.4	-2.0	9.6
1974	-8.8	-2.5	6.8	8.3	14.9	20.6	21.9	20.6	16.6	14.5	5.5	-0.2	9.7
1975	-8.9	-2.4	5.5	12.2	14.3	19.0	23.1	20.2	16.4	9.7	1.5	-3.8	8.9
1976	-4.7	-5.4	3.3	10.0	14.2	18.2	20.6	19.7	15.0	11.4	5.6	0.4	9.0
1977	-4.2	4.5	3.9	10.1	14.6	18.3	21.5	21.5	16.8	7.4	6.5	-3.7	9.8
1978	-0.5	4.3	6.1	8.9	14.7	18.3	22.4	19.5	16.1	11.7	0.4	1.9	10.3
1979	-0.1	2.8	6.0	9.8	15.5	17.6	20.3	22.3	17.0	12.0	7.2	-0.2	10.8
1980	-5.2	-1.7	3.6	9.7	14.3	19.4	23.7	19.6	14.8	10.6	5.0	1.9	9.6
1981	2.2	2.4	7.2	9.1	12.5	19.2	22.8	20.8	17.1	12.5	3.3	4.6	11.1
1982	-0.1	-4.0	3.1	11.8	15.0	18.5	19.6	20.8	17.0	10.6	3.2	-1.1	9.5
1983	-8.1	-1.4	4.1	10.2	14.9	18.2	21.9	19.1	15.5	9.3	7.0	0.2	9.2
1984	1.3	2.4	6.6	8.4	14.3	18.8	21.1	18.1	17.0	9.6	5.7	-6.3	9.7
1985	1.2	-3.2	0.8	11.9	16.9	19.7	19.8	22.4	15.2	8.6	6.8	0.0	10.0
1986	-0.3	1.7	4.4	10.9	11.6	17.0	22.4	22.8	17.3	10.3	0.8	-0.5	9.9
MEAN	-1.9	0.1	4.5	10.5	15.1	19.0	22.3	21.7	16.9	11.3	5.3	0.4	10.4
MAX	3.6	6.6	8.5	15.0	18.0	21.9	25.2	24.8	20.9	15.2	9.2	5.0	12.8
MIN	-9.4	-7.6	-1.4	6.9	11.6	16.8	19.6	18.1	14.5	7.4	0.4	-8.7	8.7

Table A-2-37 Monthly Maximum Temperature at Feke Meteorological Station (unit: °C)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1966	15.3	22.1	23.5	30.0	29.5	35.2	39.2	40.6	35.7	30.7	29.5	17.3	40.6
1967	15.6	20.5	21.1	26.7	********	********	********	********	34.0	29.2	22.9	17.9	**********
1968	11.7	19.2	21.7	29.3	32.4	33.6	39.7	34.9	34.6	31.3	23.5	17.0	39.7
1969	14.8	16.7	23.3	27.0	35.6	37.0	36.6	39.4	40.3	31.6	25.4	18.2	40.3
1970	19.3	18.2	24.6	32.4	29.7	35.6	37.2	41.0	35.9	29.7	26.0	16.5	41.0
1971	21.6	18.0	22.8	29.7	35.1	35.3	35.1	37.6	37.5	31.3	23.8	16.8	37.6
1972	17.5	16.0	23.6	28.3	32.4	36.0	35.8	38.0	36.2	31.8	23.5	19.6	38.0
1973	18.0	19.7	23.3	26.5	33.5	35.3	39.5	39.7	36.2	33.4	23.4	17.5	39.7
1974	15.0	17.3	22.0	25.0	32.5	35.7	40.0	39.5	33.5	33.5	23.0	18.4	40.0
1975	13.1	15.3	27.0	31.6	32.8	36.7	40.2	41.7	39.5	32.0	26.6	17.4	41.7
1976	16.5	18.8	25.0	29.0	31.5	35.3	37.7	38.9	35.6	33.0	27.3	19.1	38.9
1977	16.0	25.0	26.4	30.4	34.8	35.0	39.2	42.5	36.3	31.0	28.3	19.8	42.5
1978	15.8	21.0	25.0	27.0	32.3	38.9	41.7	41.5	34.8	36.2	24.2	17.6	41.7
1979	18.1	23.4	25.5	30.9	32.6	37.0	39.7	********	38.4	34.5	24.7	19.5	**********
1980	12.7	16.3	26.4	25.9	37.0	40.0	42.8	40.5	35.7	31.9	28.5	20.6	42.8
1981	14.5	18.0	26.5	31.6	32.6	38.6	42.0	40.0	40.0	35.0	25.8	18.0	42.0
1982	17.4	19.0	21.0	27.0	33.8	37.7	37.8	40.3	38.3	30.5	26.1	19.4	40.3
1983	13.6	18.7	27.4	30.8	31.0	36.5	37.5	37.4	36.8	31.0	28.2	19.3	37.5
1984	18.0	19.2	23.6	26.6	32.7	37.0	39.4	37.5	38.0	36.7	22.5	17.4	39.4
1985	18.2	16.5	24.5	32.0	35.0	36.5	40.8	42.5	37.7	34.7	25.0	21.0	42.5
1986	18.7	18.6	26.0	29.6	30.0	33.8	39.0	40.5	38.5	30.3	22.5	21.5	40.5
MEAN	16.3	18.9	24.3	28.9	32.8	36.3	39.0	39.7	36.8	32.3	25.3	18.6	40.4
MAX	21.6	25.0	27.4	32.4	37.0	40.0	42.8	42.5	40.3	36.7	29.5	21.5	42.8
MIN	11.7	15.3	21.0	25.0	29.5	33.6	35.1	34.9	33.5	29.2	22.5	16.5	37.5

Table A-2-38 Monthly Minimum Temperature at Feke Meteorological Station (unit: °C)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MIN
1966	-3.1	-0.9	-1.3	1.9	5.2	11.3	15.7	16.8	11.3	7.3	3.5	-1.7	-3.1
1967	-4.5	-5.0	-2.2	0.5	********	********	********	********	5.3	6.9	-3.8	-5.3	-5.3
1968	-10.6	-5.0	-1.3	4.2	9.9	12.9	14.6	13.8	10.3	6.0	2.5	-2.3	-10.6
1969	-3.8	-3.3	0.3	1.0	7.6	13.4	13.5	14.8	9.3	1.1	-0.6	-1.3	-3.8
1970	-2.4	-2.1	1.5	2.7	6.7	12.0	14.9	14.3	9.5	4.5	2.7	-5.0	-5.0
1971	-4.8	-5.8	-2.0	3.1	9.1	11.5	15.9	15.0	9.5	0.5	-0.4	-3.8	-5.8
1972	-6.5	-12.3	-2.0	2.6	6.6	12.6	12.7	15.0	12.8	6.0	-3.0	-8.6	-12.3
1973	-8.3	-2.5	-1.4	3.0	7.3	9.0	14.7	14.2	10.5	2.0	-3.7	-4.8	-8.3
1974	-7.3	-6.9	2.5	1.6	7.5	11.5	13.1	13.0	8.3	7.4	-1.6	-3.9	-7.3
1975	-5.4	-9.9	-3.1	5.5	5.3	11.3	15.0	13.4	10.3	3.5	-1.3	-4.7	-9.9
1976	-4.5	-6.6	-6.3	3.3	8.3	9.6	13.0	13.6	8.1	4.6	0.6	-4.0	-6.6
1977	-5.8	-1.5	-2.0	3.5	9.3	10.0	13.4	14.5	11.9	2.0	-1.2	-4.0	-5.8
1978	-2.9	-1.9	-0.3	3.0	5.7	7.7	15.6	14.5	10.5	8.4	-1.6	-1.9	-2.9
1979	-3.5	-1.4	-0.6	3.5	9.6	11.9	14.0	********	10.0	7.4	2.8	-4.6	-4.6
1980	-6.5	-3.0	-0.6	2.0	7.5	10.5	16.8	15.1	9.4	6.0	0.7	-2.6	-6.5
1981	-2.6	-1.2	0.5	0.5	3.8	10.6	16.0	15.6	11.5	7.2	-1.4	-0.6	-2.6
1982	-4.3	-5.8	-3.0	3.3	6.6	11.7	13.0	15.1	12.2	5.0	-3.0	-4.6	-5.8
1983	-7.6	-11.5	-4.5	2.5	9.4	12.0	14.8	13.4	8.7	6.2	1.4	-3.6	-11.5
1984	-2.2	-1.9	0.5	2.5	5.0	13.0	15.0	13.4	12.4	3.7	1.7	-5.5	-5.5
1985	-1.5	-7.6	-6.9	4.4	4.6	12.0	11.9	16.5	10.0	1.5	3.5	-4.5	-7.6
1986	-3.8	-1.9	0.3	5.5	5.5	12.2	15.0	17.9	12.7	6.6	-1.3	-4.0	-4.0
MEAN	-4.9	-4.7	-1.5	2.9	7.0	11.3	14.4	14.7	10.2	4.9	-0.2	-3.9	-6.4
MAX	-1.5	-0.9	2.5	5.5	9.9	13.4	16.8	17.9	12.8	8.4	3.5	-0.6	-2.6
MIN	-10.6	-12.3	-6.9	0.5	3.8	7.7	11.9	13.0	5.3	0.5	-3.8	-8.6	-12.3

Table A-2-39 Monthly Total Evaporation at Tomarza Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1974	********	********	********	********	********	********	249.5	204.1	119.3	88.8	0.0	0.0	**********
1975	0.0	0.0	0.0	0.0	72.7	106.8	214.0	194.1	149.3	0.0	0.0	0.0	736.9
1976	********	********	********	********	********	********	********	********	********	********	********	********	**********
1977	********	********	********	********	********	********	********	********	********	********	********	********	**********
1978	********	********	********	********	********	********	********	********	********	********	********	********	**********
1979	********	********	********	********	********	********	********	********	********	********	********	********	**********
1980	********	********	********	********	********	********	********	********	********	********	********	********	**********
1981	********	********	********	********	********	********	********	********	********	********	********	********	**********
1982	********	********	********	********	********	********	********	********	119.9	67.0	0.0	0.0	**********
1983	0.0	0.0	0.0	0.0	67.1	131.1	169.7	163.4	113.4	56.4	14.3	0.0	715.4
1984	0.0	0.0	0.0	0.0	70.6	145.9	168.3	147.7	123.8	77.3	0.0	0.0	733.6
1985	0.0	0.0	0.0	84.7	120.0	155.0	178.0	189.2	127.3	53.3	0.0	0.0	907.5
1986	0.0	0.0	0.0	100.9	82.0	142.1	254.2	255.7	164.8	85.9	0.0	0.0	1085.6
TOTAL	0.0	0.0	0.0	185.6	412.4	680.9	1233.7	1154.2	917.8	428.7	14.3	0.0	4179.0
MEAN	0.0	0.0	0.0	37.1	82.5	136.2	205.6	192.4	131.1	61.2	2.0	0.0	835.8
MAX	0.0	0.0	0.0	100.9	120.0	155.0	254.2	255.7	164.8	88.8	14.3	0.0	1085.6
MIN	0.0	0.0	0.0	0.0	67.1	106.8	168.3	147.7	113.4	0.0	0.0	0.0	715.4

Table A-2-40 Monthly Total Evaporation at Kayseri Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1961	********	********	********	********	********	********	270.5	272.7	161.0	110.3	61.9	0.0	**********
1962	0.0	0.0	0.0	133.6	192.3	271.9	269.8	260.5	197.6	107.5	46.8	0.0	1480.0
1963	0.0	0.0	0.0	0.0	144.2	169.0	248.3	235.0	154.3	84.7	0.0	0.0	1035.5
1964	0.0	0.0	0.0	124.6	149.2	179.7	250.0	230.9	157.3	133.9	0.0	0.0	1225.6
1965	0.0	0.0	0.0	0.0	174.2	244.5	272.3	279.3	175.1	77.5	0.0	0.0	1222.9
1966	0.0	0.0	0.0	0.0	189.0	255.3	292.6	293.6	164.7	103.7	0.0	0.0	1298.9
1967	0.0	0.0	0.0	0.0	166.5	234.7	255.8	243.3	191.8	91.1	0.0	0.0	1183.2
1968	0.0	0.0	0.0	0.0	178.2	204.4	284.2	248.6	151.1	0.0	0.0	0.0	1066.5
1969	0.0	0.0	0.0	0.0	194.3	269.9	312.7	268.8	219.9	70.7	0.0	0.0	1336.3
1970	0.0	0.0	0.0	0.0	220.8	291.0	354.9	253.3	131.1	65.2	21.2	0.0	1337.5
1971	0.0	0.0	0.0	86.3	156.1	180.8	222.6	185.9	135.6	61.7	0.0	0.0	1029.0
1972	0.0	0.0	0.0	118.0	151.5	155.2	216.9	188.8	137.0	54.0	0.0	0.0	1021.4
1973	0.0	0.0	0.0	100.1	153.2	172.4	205.6	181.0	131.3	83.4	0.0	0.0	1027.0
1974	0.0	0.0	0.0	92.8	156.5	213.2	221.0	154.8	103.9	108.5	0.0	0.0	1050.7
1975	0.0	0.0	0.0	0.0	123.1	156.6	198.2	156.5	122.2	0.0	0.0	0.0	756.6
1976	0.0	0.0	0.0	48.2	135.7	171.3	213.7	186.5	127.4	68.0	0.0	0.0	950.8
1977	0.0	0.0	0.0	0.0	117.7	171.9	213.2	206.0	121.1	39.0	0.0	0.0	868.9
1978	0.0	0.0	0.0	0.0	44.2	158.2	178.2	152.0	106.5	59.2	0.0	0.0	698.3
1979	0.0	0.0	0.0	0.0	123.8	138.9	166.6	153.4	120.6	66.6	0.0	0.0	769.9
1980	0.0	0.0	0.0	42.6	123.8	166.5	195.5	144.4	85.0	7.7	0.0	0.0	765.5
1981	0.0	0.0	0.0	0.0	87.7	128.0	187.0	156.1	114.0	0.0	0.0	0.0	672.8
1982	0.0	0.0	0.0	0.0	80.9	128.6	151.7	136.5	92.6	0.0	0.0	0.0	590.3
1983	0.0	0.0	0.0	77.9	101.1	127.3	172.4	151.7	99.0	48.3	0.0	0.0	777.7
1984	0.0	0.0	0.0	70.6	98.3	150.6	159.7	136.5	130.7	0.0	0.0	0.0	746.4
1985	0.0	0.0	0.0	93.9	115.9	164.5	169.0	184.4	117.7	56.1	0.0	0.0	901.5
1986	0.0	0.0	0.0	90.0	77.3	136.3	236.5	227.8	147.7	82.0	0.0	0.0	997.6
TOTAL	0.0	0.0	0.0	1078.6	3455.5	4640.7	5918.9	5288.3	3596.2	1579.1	129.9	0.0	24810.8
MEAN	0.0	0.0	0.0	43.1	138.2	185.6	227.6	203.4	138.3	60.7	5.0	0.0	992.4
MAX	0.0	0.0	0.0	133.6	220.8	291.0	354.9	293.6	219.9	133.9	61.9	0.0	1480.0
MIN	0.0	0.0	0.0	0.0	44.2	127.3	151.7	136.5	85.0	0.0	0.0	0.0	590.3

Table A-2-41 Monthly Total Evaporation at Goksun Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1973	0.0	0.0	0.0	0.0	147.9	196.5	265.8	237.0	171.6	93.2	0.0	0.0	1112.0
1974	0.0	0.0	0.0	0.0	151.1	200.0	275.5	191.2	136.3	0.0	0.0	0.0	954.1
1975	0.0	0.0	0.0	0.0	109.0	177.6	239.5	219.3	157.8	0.0	0.0	0.0	903.2
1976	0.0	0.0	0.0	0.0	88.2	176.7	226.2	219.8	130.5	0.0	0.0	0.0	841.4
1977	0.0	0.0	0.0	0.0	42.4	74.8	122.8	226.7	138.0	52.6	0.0	0.0	657.3
1978	0.0	0.0	0.0	0.0	146.3	190.6	238.1	218.9	153.6	78.7	7.2	0.0	1033.4
1979	0.0	0.0	0.0	0.0	114.4	166.9	224.9	200.9	157.2	81.6	0.0	0.0	945.9
1980	0.0	0.0	0.0	0.0	113.7	199.2	237.8	205.3	144.6	0.0	0.0	0.0	900.6
1981	0.0	0.0	0.0	0.0	118.1	59.3	108.1	96.6	66.5	45.0	0.0	0.0	493.6
1982	0.0	0.0	0.0	0.0	44.6	80.9	103.0	178.1	128.5	95.1	0.0	0.0	630.2
1983	0.0	0.0	0.0	0.0	105.3	162.2	193.3	189.3	151.9	0.0	0.0	0.0	802.0
1984	0.0	0.0	0.0	0.0	136.2	189.7	225.3	212.7	158.9	72.7	0.0	0.0	995.5
1985	0.0	0.0	0.0	0.0	123.6	177.9	247.8	202.2	152.3	0.0	0.0	0.0	903.8
1986	0.0	0.0	0.0	56.0	86.0	147.5	234.4	188.1	131.6	0.0	0.0	0.0	843.6
TOTAL	0.0	0.0	0.0	56.0	1526.8	2199.8	2942.5	2786.1	1979.3	518.9	7.2	0.0	12016.6
MEAN	0.0	0.0	0.0	4.0	109.1	157.1	210.2	199.0	141.4	37.1	0.5	0.0	858.3
MAX	0.0	0.0	0.0	56.0	151.1	200.0	275.5	237.0	171.6	95.1	7.2	0.0	1112.0
MIN	0.0	0.0	0.0	0.0	42.4	59.3	103.0	96.6	66.5	0.0	0.0	0.0	493.6

Table A-2-42 Monthly Total Evaporation at Adana Meteorological Station (unit: mm)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1962	********	********	********	********	********	********	********	********	212.0	118.4	88.0	27.2	**********
1963	54.3	59.5	97.7	116.7	145.2	217.2	245.0	262.0	190.2	120.9	68.1	67.7	1644.5
1964	53.2	44.9	86.6	149.5	175.7	196.8	241.4	259.0	208.1	157.5	78.4	39.6	1690.7
1965	55.4	41.0	93.0	119.2	175.2	242.4	258.8	239.3	189.8	122.1	77.3	46.2	1659.7
1966	32.5	57.9	105.7	127.7	219.4	257.0	264.7	248.4	195.6	141.9	90.1	44.5	1785.4
1967	52.8	65.4	79.8	111.1	167.6	249.5	292.9	264.3	189.8	145.5	66.5	33.3	1718.5
1968	32.9	57.2	104.2	156.8	213.7	238.5	271.8	233.3	174.0	112.2	63.4	36.7	1694.7
1969	43.8	61.2	88.8	150.4	212.0	289.0	313.4	236.1	194.5	128.4	70.9	39.3	1827.8
1970	16.1	44.8	96.9	166.8	202.6	220.1	226.5	230.1	179.8	117.5	59.6	45.7	1606.5
1971	55.5	54.4	82.2	89.5	178.4	225.6	212.7	209.5	166.2	125.4	62.6	50.4	1512.4
1972	43.2	66.9	89.7	113.6	159.1	182.9	209.0	208.8	164.8	109.9	71.9	64.1	1483.9
1973	66.1	71.4	102.5	131.5	187.6	226.6	242.8	223.4	179.8	125.7	69.5	39.2	1666.1
1974	54.2	67.9	75.1	104.4	169.5	214.0	246.9	207.3	207.4	122.4	68.0	48.6	1585.7
1975	40.6	47.7	95.3	109.5	146.2	201.0	234.7	215.8	193.1	133.4	62.3	42.2	1521.8
1976	43.1	61.1	79.3	94.1	135.5	188.2	222.3	214.0	169.2	102.7	58.6	40.5	1408.6
1977	41.5	43.4	68.9	101.8	188.3	209.2	250.8	231.8	164.0	109.9	78.9	50.0	1538.5
1978	44.3	64.8	81.7	98.5	167.4	197.9	272.6	214.0	158.7	106.5	61.1	33.5	1501.0
1999	39.3	50.5	66.5	123.0	173.8	203.2	241.9	217.0	183.3	102.9	66.0	34.3	1501.7
1980	38.8	47.1	66.5	100.9	146.3	207.0	206.6	219.9	159.0	97.1	59.7	45.0	1393.9
1981	35.1	42.6	72.2	114.3	152.4	184.7	201.9	187.3	165.1	111.8	58.9	37.8	1364.1
1982	38.5	57.5	73.6	100.2	163.9	185.5	206.7	202.6	158.3	99.4	86.7	51.5	1424.4
1983	54.0	43.8	64.2	90.9	133.9	172.3	214.4	201.8	159.7	111.3	53.4	38.7	1338.4
1984	47.1	54.5	69.7	100.5	166.0	179.2	217.2	210.6	150.7	126.9	51.8	46.3	1420.5
1985	35.1	40.1	95.8	101.9	144.7	175.3	241.1	225.2	182.6	95.2	45.3	44.5	1426.8
1986	41.0	48.3	86.3	132.7	130.1	188.3	207.8	200.5	178.0	113.5	65.8	54.2	1446.5
TOTAL	1058.4	1293.9	2022.2	2805.5	4054.5	5051.4	5743.9	5362.0	4473.7	2958.4	1682.8	1101.0	37162.1
MEAN	44.1	53.9	84.3	116.9	168.9	210.5	239.3	223.4	178.9	118.3	67.3	44.0	1548.4
MAX	66.1	71.4	105.7	166.8	219.4	289.0	313.4	264.3	212.0	157.5	90.1	67.7	1827.8
MIN	16.1	40.1	64.2	89.5	130.1	172.3	201.9	187.3	150.7	95.2	45.3	27.2	1338.4

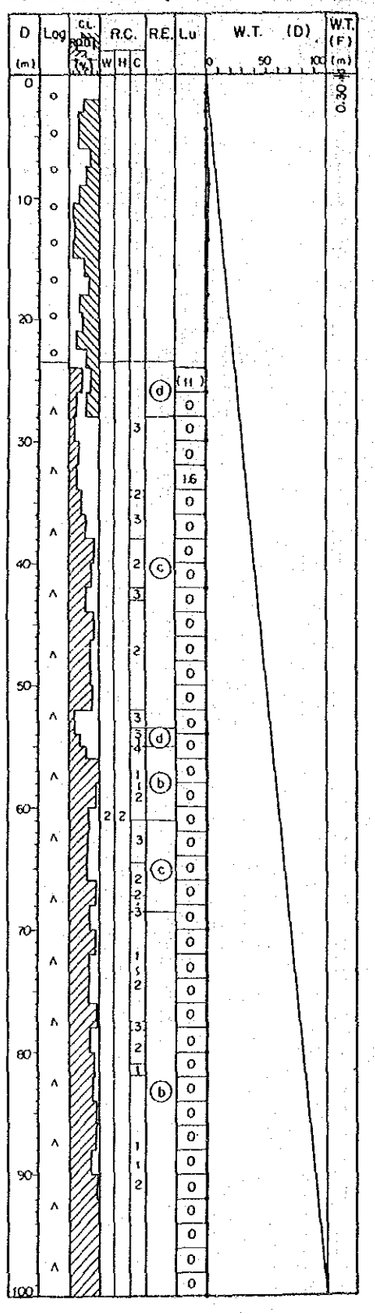
A-3 GEOLOGY AND CONSTRUCTION MATERIALS

A-3 GEOLOGY AND CONSTRUCTION MATERIALS

Hole No. SK-1

Elevation : 510. m

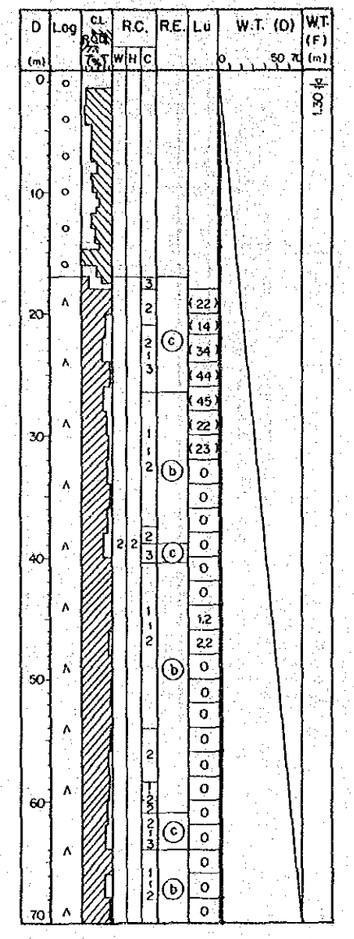
Depth of Hole: 100.00 m Angle from Horizontal: Vertical



Hole No. SK-2

Elevation : 510.634 m

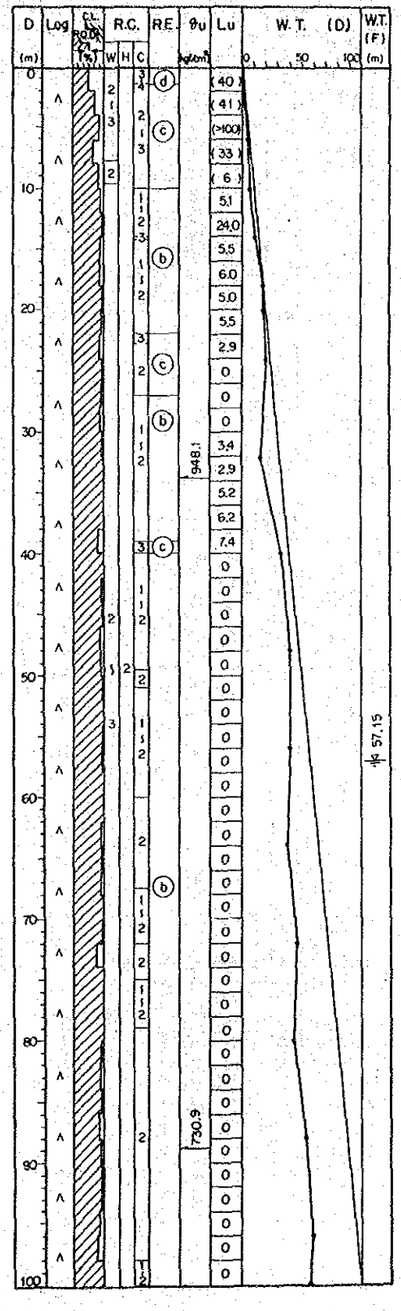
Depth of Hole: 70.00 m Angle from Horizontal: Vertical



Hole No. SK-3

Elevation : 607.609 m

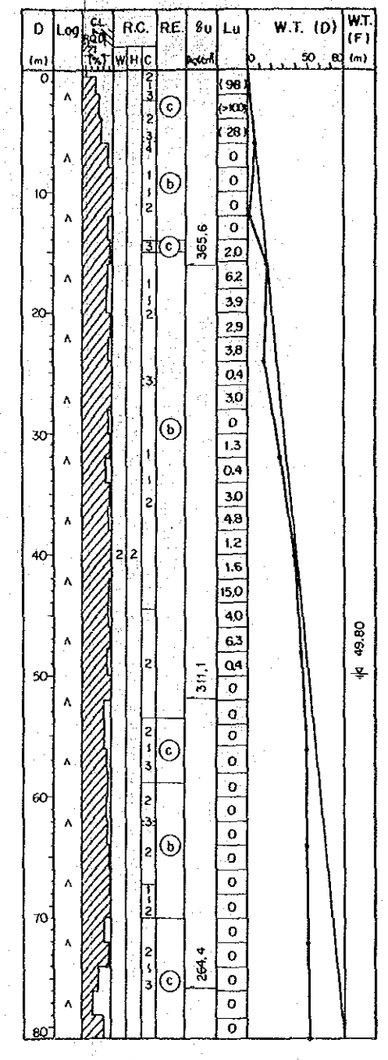
Depth of Hole: 100.00 m Angle from Horizontal: Vertical



Hole No. SK-4

Elevation : 607.222 m Bearing of Angle Hole: S 25° E

Depth of Hole: 80.00 m Angle from Horizontal: − 45°



LEGEND

- Alluvium
- Slope wash
- Peridotite
- Limestone
- Limestone (Bituminous)
- Sandy limestone
- Dolomitic limestone
- Sandstone
- Shale

① Depth of Drillhole (m)

② Geological Log

③ R.Q.D = Rock Quality Designation (%)
C.L. = Core Loss (%)

④ R.C. = Rock Classification
W : Weathering 1 ~ 5 (Very Fresh ~ Strongly Weathered)
H : Hardness 1 ~ 5 (Very Hard ~ Soft)
C : Interval of Cracks 1 ~ 5 (Over 30 cm ~ Under 1 cm)

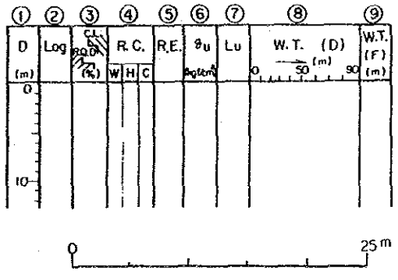
⑤ R.E. = Rock Evaluation
ⓐ Very Good
ⓔ Very Bad

⑥ σu = Unconfined Compression Strength of Core (kgf/cm²)

⑦ Lu = Lugeon Value (ℓ/m /min / 10 kgf/cm²)
( ) : Converted Lugeon Value

⑧ W.T.(D)= Water Table in Drillhole during Drilling

⑨ W.T.(F)= Final Water Table (m)



ZAMANTI GÖKTAŞ HYDROELECTRIC POWER DEVELOPMENT PROJECT

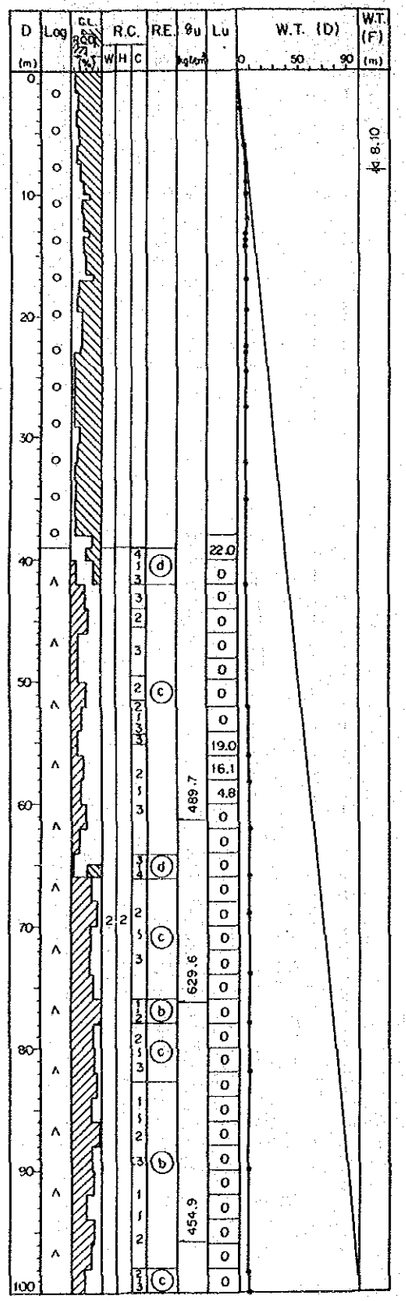
SUMMARY LOGS OF DRILL HOLES

(1 - 4)

Hole No. SK-5

Elevation : 517.581 m Bearing of Angle Hole : S40°E

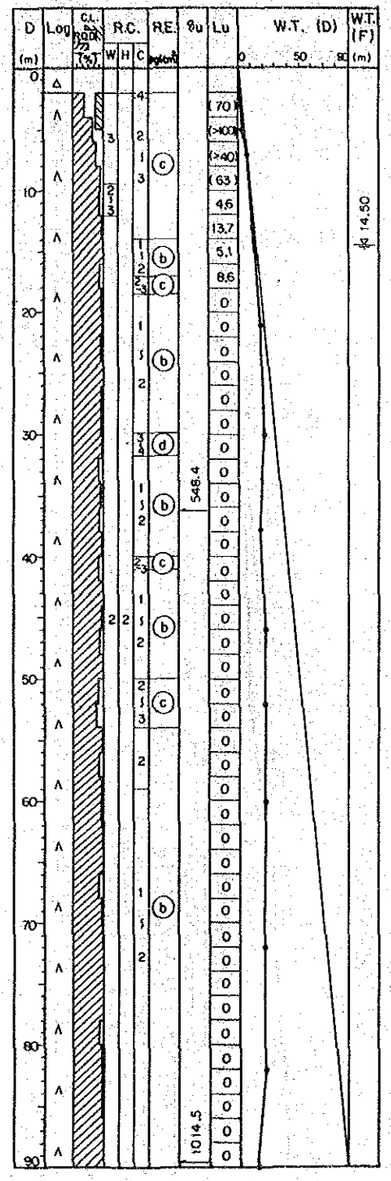
Depth of Hole : 100.00 m Angle from Horizontal : -55°



Hole No. SK-6

Elevation : 542.355 m

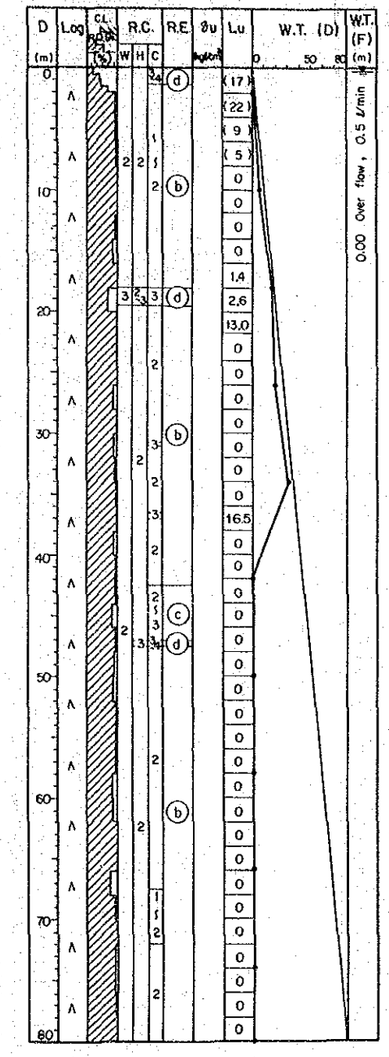
Depth of Hole : 90.00 m Angle from Horizontal : Vertical



Hole No. SK-7

Elevation : 603.687 m Bearing of Angle Hole : N25°W

Depth of Hole : 80.00 m Angle from Horizontal : -60°



LEGEND

- Alluvium
- Slope wash
- Peridotite
- Limestone
- Limestone (Bituminous)
- Sandy limestone
- Dolomitic limestone
- Sandstone
- Shale

① Depth of Drillhole (m)

② Geological Log

③ R.Q.D = Rock Quality Designation (%)
C.L. = Core Loss (%)

④ R.C. = Rock Classification
W : Weathering 1 ~ 5 (Very Fresh ~ Strongly Weathered)
H : Hardness 1 ~ 5 (Very Hard ~ Soft)
C : Interval of Cracks 1 ~ 5 (Over 30 cm ~ Under 1 cm)

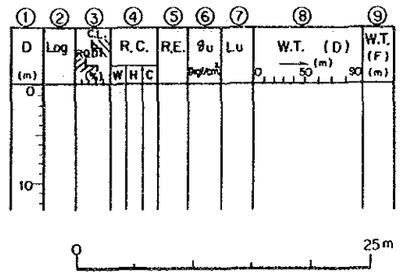
⑤ R.E. = Rock Evaluation
(a) Very Good ~ (e) Very Bad

⑥ σu = Unconfined Compression Strength of Core (kgf/cm²)

⑦ Lu = Lugeon Value (ℓ/m/min/10kgf/cm²)
( ) : Converted Lugeon Value

⑧ W.T.(D) = Water Table in Drillhole during Drilling

⑨ W.T.(F) = Final Water Table (m)



ZAMANTI GÖKTAŞ HYDROELECTRIC POWER DEVELOPMENT PROJECT

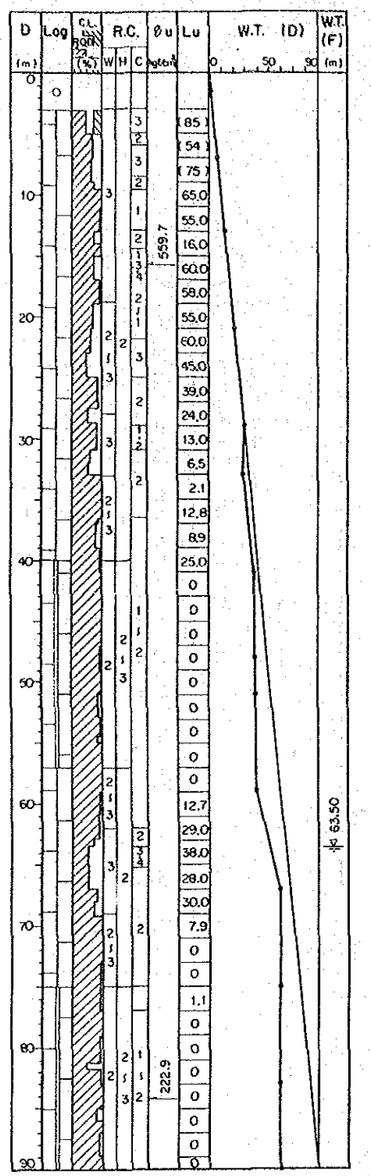
SUMMARY LOGS OF DRILL HOLES

(2 - 4)

Hole No. TB-1

Elevation : 631.357 m

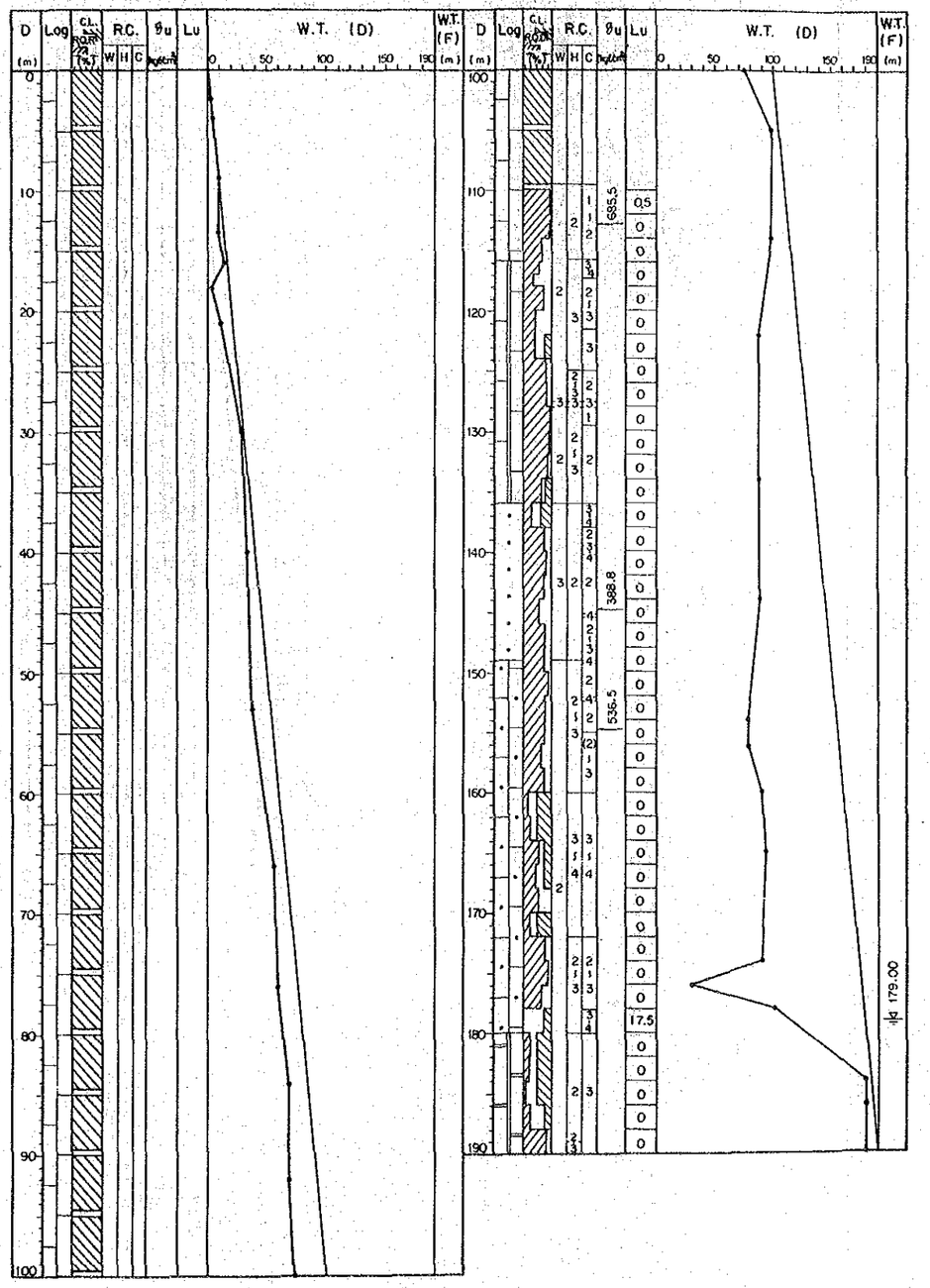
Depth of Hole : 90.00 m Angle from Horizontal : Vertical



Hole No. TB-2

Elevation : 740.076 m

Depth of Hole : 190.00 m Angle from Horizontal : Vertical



LEGEND

- Alluvium
- Stope wash
- Peridotite
- Limestone
- Limestone (Bituminous)
- Sandy limestone
- Dolomitic limestone
- Sandstone
- Shale

① Depth of Drillhole (m)

② Geological Log

③ R.Q.D = Rock Quality Designation (%)
C.L. = Core Loss (%)

④ R.C. = Rock Classification
W : Weathering 1 ~ 5 (1 Very Fresh, 5 Strongly Weathered)
H : Hardness 1 ~ 5 (1 Very Hard, 5 Soft)
C : Interval of Cracks 1 ~ 5 (1 Over 30cm, 5 Under 1cm)

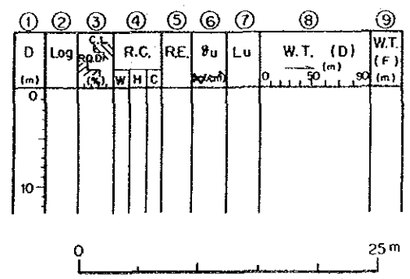
⑤ R.E. = Rock Evaluation
(a) Very Good
~
(e) Very Bad

⑥ ϑu = Unconfined Compression Strength of Core (kgf/cm²)

⑦ Lu = Lugeon Value (ℓ/m /min / 10 kgf /cm²)
( ) : Converted Lugeon Value

⑧ W.T.(D)= Water Table in Drillhole during Drilling

⑨ W.T.(F)= Final Water Table (m)



ZAMANTI GÖKTAŞ HYDROELECTRIC POWER DEVELOPMENT PROJECT

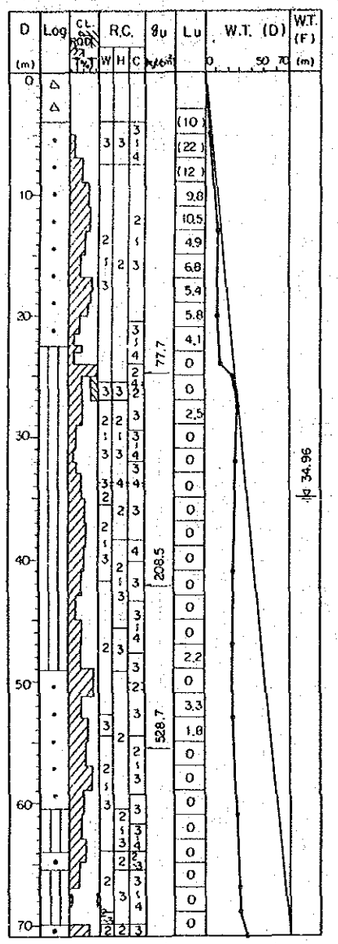
SUMMARY LOGS OF DRILL HOLES

(3 - 4)

Hole No. PB-1

Elevation : 391.912 m

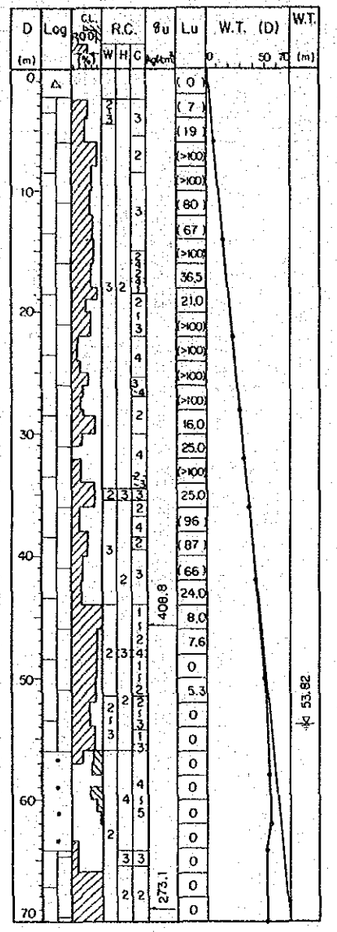
Depth of Hole: 71.00 m Angle from Horizontal : Vertical



Hole No. PB-2

Elevation : 521.333 m

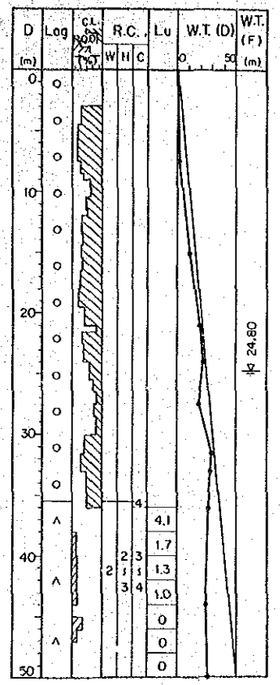
Depth of Hole: 70.00 m Angle from Horizontal : Vertical



Hole No. SSK-1

Elevation : 520.518 m

Depth of Hole: 50.00 m Angle from Horizontal : Vertical



LEGEND

- Alluvium
- Slope wash
- Peridotite
- Limestone
- Limestone (Bituminous)
- Sandy limestone
- Dolomitic limestone
- Sandstone
- Shale

① Depth of Drillhole (m)

② Geological Log

③ R.Q.D = Rock Quality Designation (%)
C.L. = Core Loss (%)

④ R.C. = Rock Classification
W : Weathering 1 (Very Fresh) ~ 5 (Strongly Weathered)
H : Hardness 1 (Very Hard) ~ 5 (Soft)
C : Interval of Cracks 1 (Over 30 cm) ~ 5 (Under 1 cm)

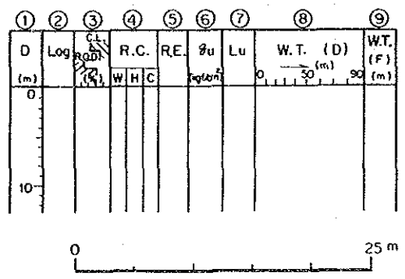
⑤ R.E. = Rock Evaluation
ⓐ Very Good ~ ⓔ Very Bad

⑥ qu = Unconfined Compression Strength of Core (kgf/cm²)

⑦ Lu = Lugeon Value (ℓ/m/min/10 kgf/cm²)
( ) : Converted Lugeon Value

⑧ W.T.(D)= Water Table in Drillhole during Drilling

⑨ W.T.(F)= Final Water Table (m)



ZAMANTI GÖKTAŞ HYDROELECTRIC POWER DEVELOPMENT PROJECT

SUMMARY LOGS OF DRILL HOLES

(4 - 4)

Standard of Rock Classification for Drilled Core

Weathering		Hardness		Interval of Cracks	
1	Very fresh. No weathering of mineral component.	1	Very hard. Broken into Knifeedged pieces by strong hammer blow.	1	Over 30 cm
2	Fresh. Some minerals are weathered slightly. Usually no brown crack.	2	Hard. Broken into pieces by strong hammer blow.	2	10 - 30 cm
3	Fairly fresh. Some minerals are weathered. Cracks are stained and with weathered material.	3	Brittle. Broken into pieces by medium hammer blow.	3	3 - 10 cm
4	Weathered. Fresh portions still remain partially.	4	Very brittle. Easy broken into pieces by medium hammer blow.	4	1 - 3 cm
5	Strongly weathered. Most minerals are weathered and altered to second minerals.	5	Soft. Able to dig with hammer.	5	Under 1 cm

GEOLOGIC LOG OF DRILL HOLE

GOKTAS PROJECT HOLE No. SK-1 (SHEET 1 OF 5)

LOCATION	DAM	DEPTH OF HOLE	100.00 m	COMMENCED	29-8-1987
ELEVATION	510 m	DEPTH OF OVERBURDEN	23.50 m	COMPLETED	29-9-1987
COORDINATE	—	LENGTH OF ROCK DRILLING	77.50 m	DRILLED BY	DSI
ANGLE FROM HOLIZONTAL	90°	TOTAL LENGTH OF CORE	85.17 m	LOGGED BY	JICA
BEARING OF ANGLE HOLE	—	CORE RECOVERY	85.17 %		

OBSERVATION OF CORE

DEPTH | ROCK NAME | LOG | CORE RECOVERY (0 → 100%) | CEMENTATION, KIND OF BIT, CASING | COLOR | WEATHERING | HARDNESS | CORE CUTTING | DESCRIPTION

WATER TABLE / WATER PRESSURE TEST / LEAKAGE OF DRILLING WATER — LUGEON — m

DEPTH | ELEVATION (510 m)

0.30 W

Alluvium.

Peridobite and limestone gravels.

No fine material in core box.

Peridotite gravel is mainly composed.

Distribution of limestone gravels

- 4 ~ 6 m
- 6 ~ 7.5 m
- 21.0 m

Distribution of red-shale gravel, 15.0 m.

ROCK NAME: Alluvium

COLOR: Dark gray

CEMENTATION, KIND OF BIT, CASING: φ90 mm

Depth (m)	Lugeon (m)
0	0.00
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.30
8	0.30
9	0.30
10	0.50
11	0.50
12	0.30
13	0.30
14	0.30
15	0.30
16	0.50
17	0.30
18	0.30
19	0.30
20	0.30

490

core loss

RQD

driller's note 4

1 (stick), 2 (substick), 3 (piece), 4 (fragment), 5 grain

1 (hard) ~ 5 (soft)

1 (fresh) ~ 5 (decomposed)

Water table after drilling → 0.30

Water table before drilling → 0.50

GEOLOGIC LOG OF DRILL HOLE

GOKTAS PROJECT HOLE No. SK - 1 (SHEET 2 OF 5)

LOCATION	DAM	DEPTH OF HOLE	100.00 m	COMMENCED	29 - 8 - 1987
ELEVATION	510 m	DEPTH OF OVERBURDEN	23.50 m	COMPLETED	29 - 9 - 1987
COORDINATE	—	LENGTH OF ROCK DRILLING	77.50 m	DRILLED BY	DSI
ANGLE FROM HOLIZONTAL	90°	TOTAL LENGTH OF CORE	85.17 m	LOGGED BY	JICA
BEARING OF ANGLE HOLE	—	CORE RECOVERY	85.17 %		

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE: COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION	WATER TABLE / WATER PRESSURE TEST / LEAKAGE OF DRILLING WATER: LUGEON	m	DEPTH	ELEVATION
2 0m			0→100%									0m	490
1	Alluvium	O		φ90 mm	Dark gray				ditto.		0.30 / 0.00	1	
2		O									0.00 / 0.00	2	
3									23.5			3	486.5
4		>							Fractured peridotite. Serpentinization and slickenside are seen in some fractures.	Lu = (11) Po max. = 8.0 kg/cm²	0.00	4	
5		>									0.00	5	
6		>								Lu = 0 Po max. = 8.0		6	
7		>						3				7	
8		>								Lu = 0 Po max. = 8.0		8	
9		>									0.00 / 0.00	9	
30		>			Dark gray	2	2			Lu = 0 Po max. = 10.0		0	
1	Peridotite	>		φ56 mm								1	
2		>								Lu = 1.6 Po max. = 10.0		2	
3		>							Calsite veins at 33m.			3	
4		>							34.0 An opening, 1~5mm wide.			4	
5		>						2	38.5	Lu = 0 Po max. = 10.0		5	
6		>						3			0.00 / 0.00	6	
7		>							37.5m: Serpentine 1mm	Lu = 0 Po max. = 10.0		7	
8		>							38.0 wide along 45° dip crack.			8	
9		>						2		Lu = 0 Po max. = 10.0		9	
40												0	470

core loss
ROD
1 (fresh) ~ 5 (decomposed)
1 (hard) ~ 5 (soft)
▶ driller's note ◀
1 (slick), 2 (subslick), 3 (piece), 4 (fragment), 5 grain

Water table after drilling → 0.30
Water table before drilling → 0.50

GEOLOGIC LOG OF DRILL HOLE

GOKTAS PROJECT — HOLE No. SK-1 (SHEET 3 OF 5)

LOCATION	DAM	DEPTH OF HOLE	100.00 m	COMMENCED	29-8-1987
ELEVATION	510 m	DEPTH OF OVERBURDEN	23.50 m	COMPLETED	29-9-1987
COORDINATE	—	LENGTH OF ROCK DRILLING	77.50 m	DRILLED BY	DSI
ANGLE FROM HOLIZONTAL	90°	TOTAL LENGTH OF CORE	85.17 m	LOGGED BY	JICA
BEARING OF ANGLE HOLE	—	CORE RECOVERY	85.17 %		

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE: COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION	WATER TABLE / WATER PRESSURE TEST / LEAKAGE OF DRILLING WATER: LUGEON	m	DEPTH	ELEVATION
40m			0 ➡ 100%									0m	470 m
1		>						2		Lu = 0 Po max. = 10.0 kg/cm²	0.00	1	
2		>							42.5 45° dip cracks main.		0.00	2	
3		>						3	43.0	Lu = 0 Po max. = 10.0		3	
4		>										4	
5		>								Lu = 0 Po max. = 10.0		5	
6		>										6	
7		>						2		Lu = 0 Po max. = 10.0		7	
8		>										8	
9		>								Lu = 0 Po max. = 10.0		9	
50	Peridotite	>		φ56 mm	Dark gray	2	2				0.00	0	
1		>								Lu = 0 Po max. = 10.0		1	
2		>							52.0			2	
3		>						3		Lu = 0 Po max. = 10.0		3	
4		≡						3	53.5 53.5 ~ 55.0 m : Serpentine 1~2 mm wide along 45°, 70° and 90° dip cracks.		0.00	4	
5		≡						4	55.0	Lu = 0 Po max. = 10.0	0.00	5	
6		≡							56.4m : Serpentine 1mm wide.			6	
7		>						1		Lu = 0 Po max. = 10.0		7	
8		>						1				8	
9		>						2		Lu = 0 Po max. = 10.0		9	
60												0	450

core loss — RQD

1 (fresh) – 5 (decomposed) — 1 (hard) – 5 (soft)

▷ driller's note 4

1 (stick), 2 (subastick), 3 (piece), 4 (fragment), 5 grain

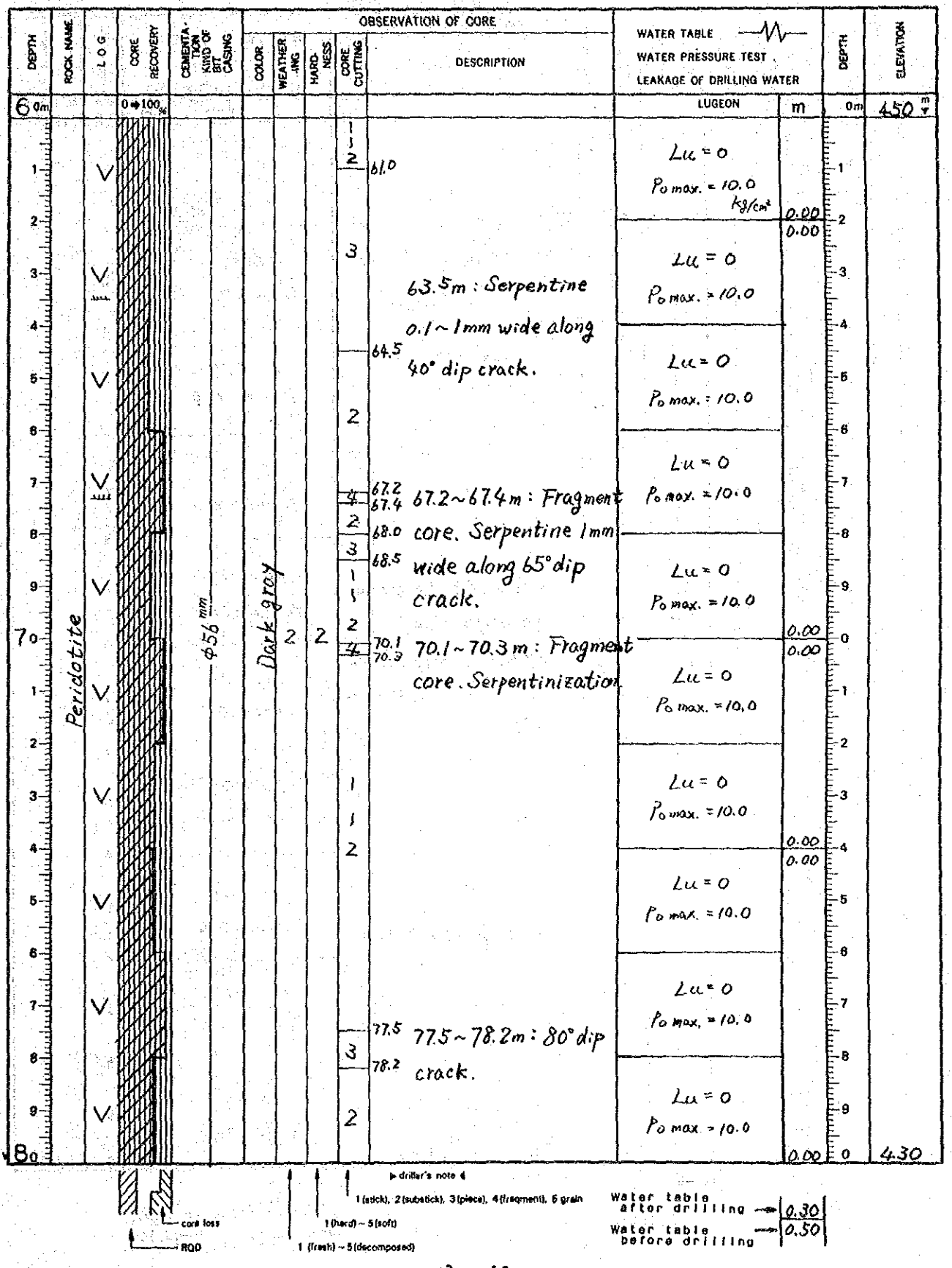
Water table after drilling → 0.30

Water table before drilling → 0.50

GEOLOGIC LOG OF DRILL HOLE

GOKTAS PROJECT — HOLE No. SK-1 (SHEET 4 OF 5)

LOCATION	DAM	DEPTH OF HOLE	100.00 m	COMMENCED	29-8-1987
ELEVATION	510 m	DEPTH OF OVERBURDEN	23.50 m	COMPLETED	29-9-1987
COORDINATE	—	LENGTH OF ROCK DRILLING	77.50 m	DRILLED BY	DSI
ANGLE FROM HOLIZONTAL	90°	TOTAL LENGTH OF CORE	85.17 m	LOGGED BY	JICA
BEARING OF ANGLE HOLE	—	CORE RECOVERY	85.17 %		



GEOLOGIC LOG OF DRILL HOLE

GOKTAS PROJECT HOLE No. SK-1 (SHEET 5 OF 5)

LOCATION	DAM	DEPTH OF HOLE	100.00 m	COMMENCED	29-8-1987
ELEVATION	510 m	DEPTH OF OVERBURDEN	23.50 m	COMPLETED	29-9-1987
COORDINATE	—	LENGTH OF ROCK DRILLING	77.50 m	DRILLED BY	DSI
ANGLE FROM HOLIZONTAL	90°	TOTAL LENGTH OF CORE	85.17 m	LOGGED BY	JICA
BEARING OF ANGLE HOLE	—	CORE RECOVERY	85.17 %		

DEPTH	ROCK NAME	LOG	CORE RECOVERY (0→100%)	CEMENTATION / KIND OF BIT / CASING	OBSERVATION OF CORE: COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION	WATER TABLE / WATER PRESSURE TEST / LEAKAGE OF DRILLING WATER: LUGEON	m	DEPTH	ELEVATION
8 0m												0m	430 m
1		V						2	81.0	Lu = 0, Po max. = 10.0 kg/cm²	0.00	1	
2								1	81.8			2	
3		V								Lu = 0, Po max. = 10.0		3	
4												4	
5		V								Lu = 0, Po max. = 10.0		5	
6											0.00	6	
7		V								Lu = 0, Po max. = 10.0	0.00	7	
8												8	
9	Peridotite	V		φ56 mm	Dark gray	2	2	1	89.0 m: 45° dip crack, no serpentine.	Lu = 0, Po max. = 10.0		9	
90								1	89.4 m: Partly serpentinization less than 1mm wide.			0	
1		V						2		Lu = 0, Po max. = 10.0		1	
2											0.00	2	
3		V								Lu = 0, Po max. = 10.0		3	
4												4	
5		V							No serpentinization.	Lu = 0, Po max. = 10.0		5	
6												6	
7		V								Lu = 0, Po max. = 10.0		7	
8												8	
9		V							R·Q·D (Av.) = 67%	Lu = 0, Po max. = 10.0		9	
10									End of drill hole		0.30	0	410

core loss / ROD

▶ driller's note ◀ 1(stick), 2(substick), 3(piece), 4(fragment), 5 grain

1 (hard) – 5 (soft)

1 (fresh) – 5 (decomposed)

Water table after drilling → 0.30

Water table before drilling → 0.50

GEOLOGIC LOG OF DRILL HOLE

GOKTAS PROJECT — HOLE No. SK-2 (SHEET 1 OF 4)

LOCATION	DAM	DEPTH OF HOLE	70.00 m	COMMENCED	2 - 9 -1987
ELEVATION	510.834 m	DEPTH OF OVERBURDEN	17.00 m	COMPLETED	17 - 9 -1987
COORDINATE	X: 452.695.19 Y: 4.178.050.95	LENGTH OF ROCK DRILLING	53.00 m	DRILLED BY	DSI
ANGLE FROM HOLIZONTAL	90 °	TOTAL LENGTH OF CORE	58.75 m	LOGGED BY	JICA
BEARING OF ANGLE HOLE	—	CORE RECOVERY	83.9 %