ANNEX C

WATER USE/ HYDROLOGY

ANNEX-C

		ANNEX-C	
		WATER USE/HYDROLOGY	
. :		Contents	
	1,35		:
C.1	Data Co	ollection	C-1
C.2			
C.3	Water I	Jse	C-1
			0 1
List o	of Tables		. 11
Table	C-1-1	List of Meteorological Stations	C-5
1775	C-1-2	List of Discharge Gauging Stations	
	C-1-3	Data Collecting Period of Rainfall	
	C-1-4		
1.3	C-2-1	Data Collecting Period of Discharge Summary of Meteorological Conditions	C-9
er into	C-2-2	Mean Monthly Rainfall	
7 H	C-2-3	Maximum Daily Rainfall	C-11
54 m.,	C-2-4	Monthly Rainfall at Representative Stations	C-12
1.59	C-2-5	Monthly Temperature	
6.10	C-2-6	Monthly Evaporation	C-18
	C-2-7	Summary of Discharge Conditions	C-19
	C-2-8	Monthly Discharge at Representative Stations	
100	C-2-9	Rainfall Intensity near Master Plan area	
	C-2-10	Peak Flood Estimation by Rational Formula	
Table	C-3-1	Water Consumption in Rural Area	
Table	C-3-2	Irrigation Water Demand	
Table	C-3-3	Water Quality of Surface Water	C-4 3
Table	C-3-4	Spring Numbers and Discharge	C-4 4
	C-3-5	Numbers and Discharge of Wells and Qanaat	
Table	C-3-6	Water Quality of Groundwater	
			• ,

List of Figures

Figure C-1-1	Location Map of Meteorological and Hydrological Gauging Stations	C-2
Figure C-1-2	Plain Boundary Map	C-3
Figure C-1-3	River Regime	C-4
Figure C-2-1	Meteorological and Hydrological Gauging Stations	
	around Master Plan area	C-29
Figure C-2-2	General Feature of Climate in Master Plan area	C-30
Figure C-2-3	Rainfall Intensity at Yasouj Station	C-34
Figure C-2-4	Hydrological Division of sub-tributaries in Master Plan area	C-36

C.1 Data Collection

Karoon Watershed Management Office (KWMO) lists up 105 meteorological gauging stations, 48 discharge gauging stations and 12 sediment/water quality gauging stations in/near Karoon river basin. The major parts of these gauging stations have been identified and rainfall, discharge and meteorological data have been collected in KWMO. Identified gauging stations and period of collected data are shown in Table C-1-1, C-1-2, C-1-3, C-1-4.

C.2 Meteorology and Hydrology

Iranian calendar is adopted as water year to process discharge data and water year begins from 1st Mehr and ends at 29th Esfand. Here, in Iranian calendar, 1st Farvardin falls on the day of vernal equinox. On the other hand, meteorological data are processed according to European calendar. Relation between Iranian and European calendar is identified as follows.

Season		Autumn			Winter	
Iranian	Mehr	Aban	Azar	Dey	Bahman	Esfand
	30 days	30 days	30 days	30 days	30 days	29(30)days
European	22September ~21 October	22 October~ 20 November	21 November ~20Dec.	21 Dec. ~ 19 January	20 January~ 18 February	19 February ∼19 March
Season		Spring	The second second		Summer	
Iranian	Farvardin	Ordivehesht	Khordad	Tir	Mordad	Shahrivar
	31days	31 days	31 days	31 days	31 days	31 days
European	20 March~	20 April∼	21 May~	21 June∼	22 July~	22 August~
	19 April	20 May	20 June	21 July	21 August	21September

As to hydrology, relation between annual rainfall and runoff was analyzed based on data at representative gauging stations in the report prepared by MOA. And this report informed that annual runoff in upper Karoon basin could be calculated by following formula. And correlate coefficient between Q and R was calculated at 0.955.

$$Q = 0.239 \times (R \times A \times 1,000)^{1.097}$$

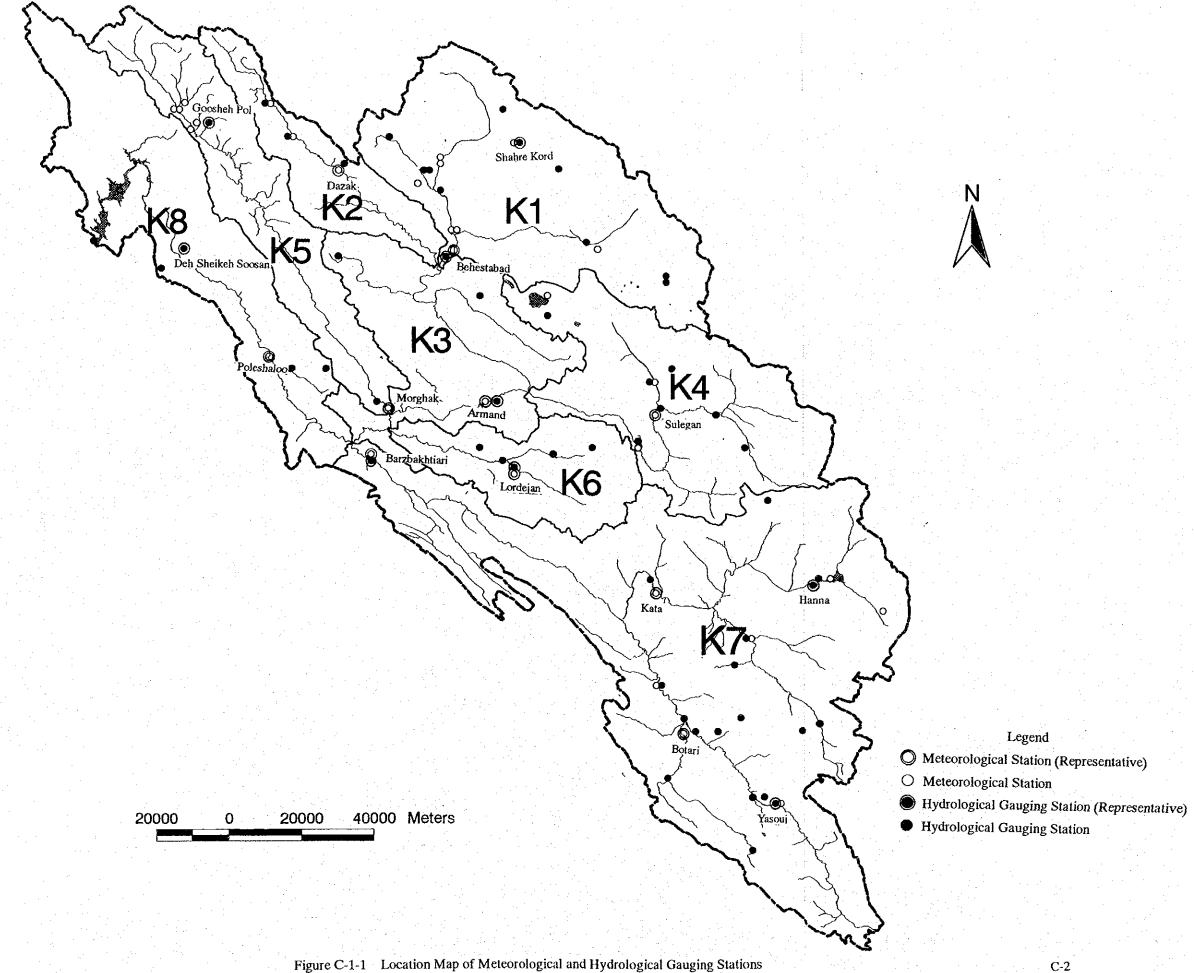
Here, Q: Annual Runoff (MCM)

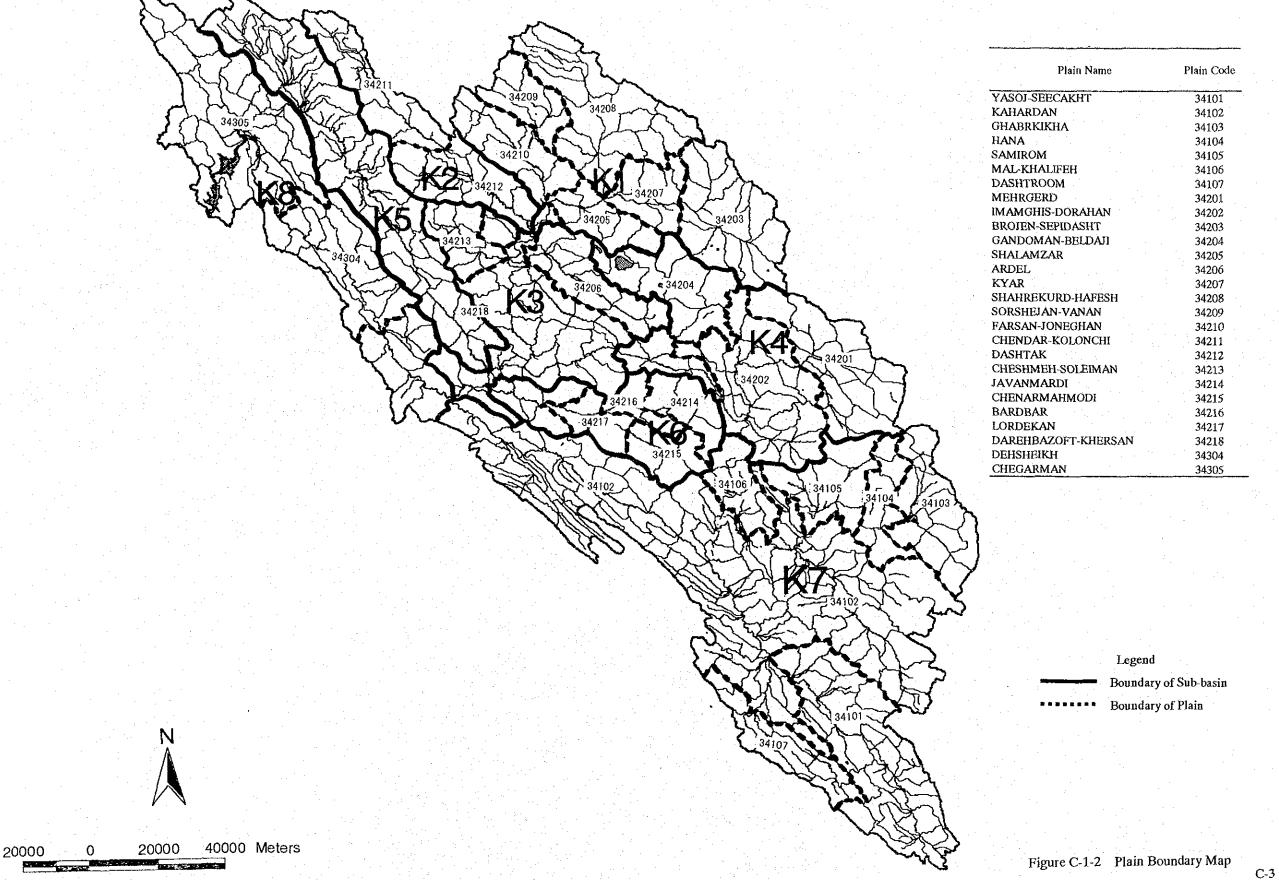
R: Annual Rainfall (mm)

A: Catchment Area (km2)

C.3 Water Use

The Study area can be divided into 27 plains. Data of domestic water use and irrigation are available by plains. Location of each plain is shown in Figure C-1-2. As to data of groundwater, data in several plains are available.





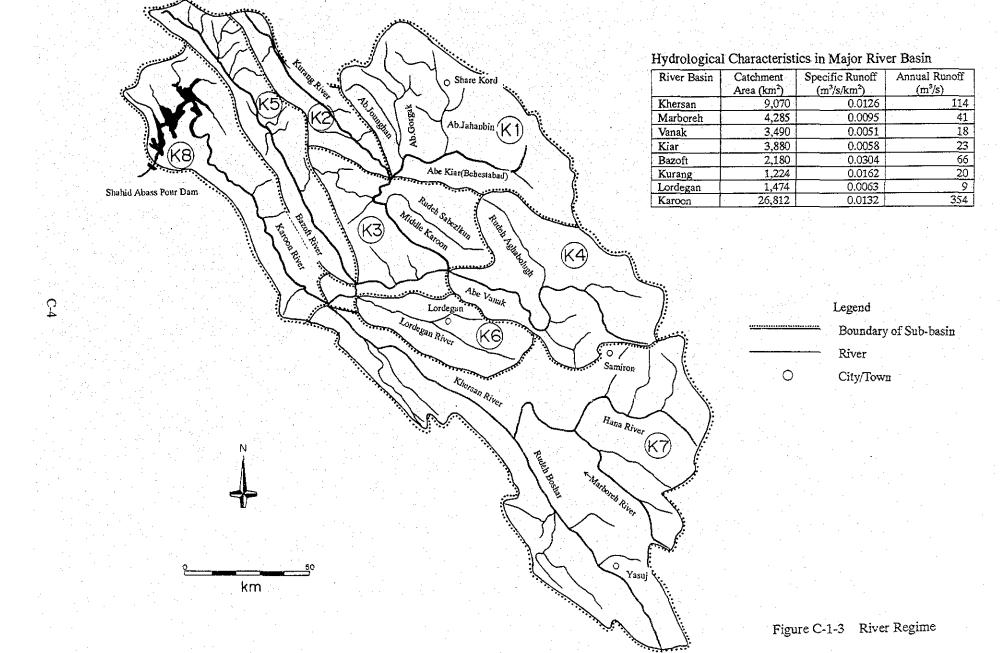


Table C-1-1	List of Meteorologic	al Stations

Table C-1-1 List of Me	reorological 2	tations			1.0				
Station Name	Station	Coordin		Province	T/ship	Station T	·	Elev.	Remarks
	Code J 341020	ongitude 5134	Latitude	Kongi.	Yasui	Type Clima	No.	(m) 1,760	
YASUJ	341030	5141		Kohgi	Yasuj	Synop.		1,800	-
KHAFR	341032	5129		Esfahan	Semirom	S-R/G	3	2,200	
HANNA	341043	5144	3113	}	Semirom	Evap.	5	2,350	
Yasuj	341522	5136	3039	Kohgi.	Yasuj	Evap,	5	1,800	
Shah-mokhtar	341526	5132	3040	Kohgi.	Yasuj	Evap.	- 5	1,750	
DARSHAHI	341534	5122		Kohga.	Yasuj	S-R/G	: 3	1,570	
Deh-Bozorg-e-Sisakit	341536	5130		Kohgi	Yasuj	S-R/G	3	2,300	
BOTARI	341538	5120		Kohgi	Yasuj	S-R/G	3	1,560	
Dasht Room PATAVEH	341542 341544	5132		Kohgi.	Yasuj	Evap.	5	2,100	<u> </u>
Dehkadeh-Shahid	341545	5116 5144		Kohgi. Kohgi.	Yasuj Yasuj	S-R/G R/G	3	1,530	
HANNA	341547	5143		Esfahan	Semirom	Clima.	4	2,200 2,300	
KATA	341548	5114		Esfahan	Semirom	Clima.	2	1,550	
BARZ.	341549	5025		Chahal	Lordegan	R/G	4	880	
Alconi	341597	5104		Chahal	Lordegan	R/G	4		
Sadeh	341606	5210	3043	Fars		Evap.	5	2,160	4 4 1 1
Khak Daneh	341663	5131		Esfahan	Semirom	R/G	4	1,870	
Tang Zardaloo	341675	5126		Esfahan	Semirom	R/G	4	2,210	
Pole Karik	341747	5126		Kohgi	Yasuj	R/G	4		
Deh Kohneh Pirashgoft	341763	5151	3031	Kohgi.	Yasuj	R/G	4	- 21	
Pirasngott Sad-Kouhrang	341773 342037	5117	···	Kohgi. Chahal	Yasuj Farsan	R/G R/G	4	2.600	
LORDIAN	342055	5048		Chanal	Lordegan	Evap.	5	2,600 1,700	·
Mehrgerd	342059	5131		Esfahan	Semiron	Clima.	2	2,350	
Gordbisheh	342061	5112		Chahal	Bourgen	S-R/G	3	1,850	
ADL	342064	5103	3204	Esfahan	Semirom	Clima.	2	2,280	and the second of the second
Emam-gheis	342067	5118	3145	Chahal	Bourgen	Clima.	2	2,300	that the process
Edalat-organ	342072	5056		Chahal	Bourgen	Clima.	2	2,500	
NAGHAN	342073	5044		Chahal	Ardal	R/G	4	2,150	
BOROOJEN	342075	5117		Chahal	Bourgen	Ѕулор.	1	2,220	
Shahre-kord DOOZAK	342083	5051		Chahal	Shahrekord	R/G	4	2,051	
Chalshotor	342094 342110	5058 5048		Chahal Chahal	Farsan Farsan	Clima.	2	2,050	The real property of the second
Koohrang	342112	5007		Chahal	Farsan	Synop.	2	2,078 2,650	
FARSAN	342234	5035	· · · · · ·	Chahal	Farsan	R/G	4	2,001	
Semirom-olia	342240	5135		Esfahan	Semirom	Clima.	2	2,500	
Rahim-abad	342450	5019	3202	Chahal	Farsan	R/G	4	2,450	
Dezak	342525	5020	3216	Chahal	Farsan	R/G	4	2,176	
Mehrgerd	342551	5131	3133	Esfahan	Semirom	Evap.	. 5	2,500	
AHVAZ	342552	4841		Khuzes.	Ahvaz	R/G	4		
SOLGAN	342553	5116		Estahan	Semiron	Evap.	5	2,200	
BOROUJEN Godare-Kabk	342555 342557	5117 5114		Chahal Chahal	Bourgen .	Evap.	5	2,140	
Shahre-kord	342559	5051		Chahal	Bourgen Shahrekord	R/G Synop.	4	2,100 2,060	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pol-e-shalu	342578	5008		Chahai	Ardal	R/G	4	700	The state of the s
Baba-heidar	342601	5028		Chahai	Farsan	R/G	4	2,200	
Tounel-e-Voroudi	342603	5006		Chahal	Farsan	R/G	4	2,380	
MARBOREH	342605	5010		Chahal	Farsan	R/G	4	2,350	
ARMAND	342607	5047		Chahal	Lordegan	R/G	4	1,110	
MORGHAK	342609	5026		Chahal	Ardal	R/G,Evap.	4,5	950	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LORDJAN	342611	5050		Chahal	Lordegan	Clima.	2	1,650	
Monje-Lordjan	342613	5044		Chahal	Lordegan	Evap.	5	1,450	
Goosheh Pol Rakaat Naalkonan	342662 342701	4956	· · · · · · · · · · · · · · · · · · ·	Chahal	Farsan	R/G	4		
Deh dozd	342701	5011 5017		Khuzes. Khuzes.	Izeh Izeh	S-R/G R/G	3	840	
Zarrin Derakht	342756	5057	***************************************	Chahal	Lordegan	R/G	4	1,750	
Behesht-abad	342820	5038		Chahal	Shahrekord	R/G,Evap.	4,5	1,730	
Farsan	342826	5034		Chahal	Farsan	R/G	4		
Sad Karoon	343014	4926		Khuzes.	Masjed S.	R/G	4	545	МОЕЛМОМ
izeh	343069	4952	3150	Khuzes.	Izeh	Ѕупор.		764	
Ghal-eh-Tal	343224	4953		Khuzes.	Izeh	R/G	4		моелмом
Deh bahrami	343547	4946		Khuzes.	Izeh	R/G	5	850	
Barand-Gerd	343576	4950		Khuzes.	İzeh	Evap.	5	850	
LALY Deb Shaikeb Socran	343577	4906		Khuzes.	Out	R/G	4	390	<u> </u>
Deh-Sheikeh-Soosan Sad-e-Kanın	343579 343592	4952 4936		Khuzes.	Masjed S.	Evap.	5	700	CL-L: JAII
				Khuzes,	Masjed S.	Evap.	5	370	Shahid Abbaspoor Dam
Malagha	343598	4958	2129	Khuzes.	Izeh	R/G	4		E to the second

Station Type No.; 1 = Synop (synoptic), 2 = Clima. (climatolology), 3 = S-R/G (storage rain gauge), 4 = R/G (rain gauge), 5 = Evap. (evapolation)

C-5

Table C-1-2 List of Discharge Gauging Stations

Station Name	Station Code	River Name	Prov.	T/ship	Longitude	Latitude	Elevation (m)	Catchment Area (km²)
DEHKADESHAHID	34110	Marboreh	Esfahan	Semirom	5144	3051	2220	200
POLTCHOGHONDAR	34112	Hana	Esfahan	Semirom	5146	3113	2310	695
YASOOJ	34114	Boshr	Kohgi.	Yasui	5137	3039	1850	803
SHAHMOKHTAR	34115	Boshr	Kobgi.	Yasui	5132	3040	1730	1187
DARSHAHI	34117	Boshr	Kohgi.	Yasui	5132	3050	1570	1609
BOTARI	34118	Kabkian	Kohgi.	Yasui	5120	3052	1560	885
BOTARI	34119	Boshr	Kohgi.	Yasui	5120	3052	1555	2520
BARZBAKHTIARI	34121	Khersan	Khuzes.	Izeh	5025	3132	815	8900
POL MEHRABAN	34124	Mehrabanchay	Kohgi.	Yasui	5134	3042	1800	
LORDEJAN	34210	Lordegan	Chahal	Lordegan	5050	3129	1580	351
TANGZARDALOU	34211	Kasgan	Esfahan	Semirom	5126	3138	2210	1045
GODARKABK	34212	Aghbolagh	Chahal	Bourgen	5115	3143	2160	588
SHAHREKORD	34214	Kharrood	Chahal	Shahrekord	5050	3219	2150	495
BABAHYEIDAR	34215		Chahal	Farsan	5028	3220	2150	91
KOUHRANG DAM	34217	Ab Kohrang	Chahal	Farsan	5007	3225	2400	291
MARBORAN	34218	Marboreh	Chahal	Farsan	5011	3220	2310	34
ARMAND		Karoon	Chahal	Lordegan	5045	3140	1050	9900
GHOSHEHPOL		Abe Turky	Chahal	Farsan	4953	3221	1700	83
POLESHALOO	 	Karoon	Knuzes.	Izeh	5008	3145	700	24210
POLEMARI		Chaghakhor	Chahal	Shahrekord	5056	3156	2275	128
KOHESOKHTEH	34226		Chahal	Shahrekord	5040	3206	1920	2950
DAZAK	~	Birgan	Chahal	Farsan	5019	3215	2150	563
ZARINDERAKHT		Khanmirza	Chahal	Lordegan	5057	3132	1750	397
OUTSADEKARO		Karoon	Khuzes.	Masjed S.	4936	3204	368	25850
POLEKAREHBAS		Ab Vanak	Chahal	Bourgen	5112	3133		
BOYENEH		Sharmak	Chahal	Farsan	4951	3224		1,3
TANGDEHNO	34236		Chahal	Shahrekord	5105	3203		
GERDBISHEH		Gerdbisheh	Chahal	Bourgen	5112	3134	1810	124
GHIRKIKHA		Ćheshmehkikha	Esfahan	Semirom	5155	3108		
BOYENEH		Bazoft	Chahal	Farsan	4950	3224		
TASHNAVI		Tashnavi	Chahal	Farsan	4954	3222		
DEHCHESHMEH		Cheshmehoirghar	Chahal	Farsan	5033	3213		
KERIK	34116		Kohgi.	Yasui	5126	3050	1670	128
PATAVEH		Garmrood	Kohgi.	Yasui	5115	3057	1480	2800
SOLEGAN		Solegan	Chahal	Bourgen	5115	3138	2070	1992
BEHESHTABAD		Behesht abad	Chahal	Ardal	5038	3202	1670	3825
MORGHAK		Bazoft	Chahai	Lordegan	. 5028	3139	860	
TANGEHDARKESH		Chonghan	Chahal	Farsan	5039	3206		2355
POLIONEGHAN		Gargak	Chahal	Farsan	5037	3200	1920	910
	7	Garmab						
SIAHKALK			Chahal	Farsan	5037	3216		
BOYENEH	3 2 2	Shangi	Chahal	Farsan	4952	3225	1000	
KHAKDANEH	54111	Marboreh	Esfahan	Semirom	5132	3104	1870	801

Table C-1-3 Data Collecting Period of Rainfall

		KARKHANEH-CHAND-YASOUJ	1954	1933	1936	1997	1228 17	39 1900	1701	1502	1963	INH IN	1700	1207			17.5		27V 12.		777 1978	1919 190	1701	1700		1985 1986	1307 130	1905 25	177	1772	1773 17	* 1393	1770 17
	34 1030	YASOYI									<u> </u>				· ·								4										
	341032	KILAFR																													一		
	341043	HANNA	1	T	_				—		_		-												-			+		+			
. E.	342037	2YD-KONHKYNG							1			- 1						-		_	_				_1	1	1	1	1	$\overline{}$		7	
1	342055	LORDIAN		1		-		_	_		_			-				+	_	-	_		7		=		-		_			-	
	342059	MEHRGERD	+	 				1	ļ .			-	-			-		$\overline{}$	_						_				-				
ī	342061	CORDBISHEH	1	+-		1		٠	1		_							+ +					-	_	=			-	_				
	342064	ADL	 -	+	[1	_	_					-					-	-					_	_				-				
	342067	EMAM-CIES	 																										_				=
	342072	EDALAT-ORGAN	-	ļ				_	-																				_		<u> </u>		_
	342073	NAGILAN	-	↓ —	-	 	-	-	\vdash] 													-							\perp			\rightarrow
			-	1	} -					ļ J																				-	\Rightarrow		
	342075	BORGOZEN		ļI	ļ	 -													-				1							7			-
	342063	SILAJERE-KORD																															
	342092	NAGHSH-BAHRAM	1																	+ +								1		1		1 1	
L	342110	CHALSHOTOR		Т					1									-	_		_		-		=				1		- I.		
	342112	KOOHRANG	1	1					Ĭ									+										-	_			T	
_ ["	342240	SAMIROM-OLIA	7							,			_	-				+==					-	-				-					
	343069	: IZEII	1	1					1														-	_				-	_	==	_	-	
	3+1079	GHAL-EH-ZARRASS	\top	†	\vdash			_										-		\Rightarrow						=					_	+	
	343224	GHAL-EH-TAL	+			 -		 -	1	 [1					1	==	垂	_	+++	-
	341522	YASOUI		+		 }-			1					 				1					-		-			+		=	\Rightarrow		
	341526	SHAH-MOKHTAR	+	+-	-	 	-	+	+-	\vdash	\vdash	-	+-										1										_
		DARSHAID	+ -	 	 !	!		+	1	1			+ -							1							-				_		_
	341534			↓	 	ļ								\vdash	-+-	+			=											\Rightarrow	=		
	341536	DAR-BOZORO-E-SISAKIT	 	. .		[—}—		1 - (<u> </u>	-	-		·				+		T					_					=	_	#	=
	341538	BOTARI	-															_	_										_	\Rightarrow	==		=
	341342	DASIIT ROOM		<u> </u>			- -		1						<u> </u>	_		4		1 1			4								_		
	341544	PATAVEII	1					1.							-			1			-		_					_					
	341545	DEIRADER-SHAIRD	-T		ii								-			_		_		-	_		+	_			-	1	_			_	-
1	341347	" HANNA											7					1 -7	_				+	===	$\overline{}$	-			4-		- -		
	341518	KATA		1											$-\tau$						_	_	+						_				
F	34 1549	BAXZ	1 -		 	-		1	1						\neg	-		+	_				-	-				+					_
	341597	ALCONI		-		 			1		-		1							+		- t .	1 1								_		
	341606	SADEH	-{	+=:	-			-										+ +		 	- 		-										_
	341663	KAICK DANEH	 		 				 			·		 	-	-						- -	 L						<u> </u>	\pm	_		
				 	┝┈┤		— <u>├</u>	-	1						<u></u>	-	-	+	-	+			- 		+						=	\pm	-
	341675	TANGZARDALOO		├ -	J	 		_			-		+		-+-			~ ~		+	++		+ +							\pm			<u> </u>
	341656	ABCHOXAX	-	ļļ	ļ	-				\longrightarrow	<u> </u>		+	<u> </u>						+ + +	\rightarrow		 							-			
	341747	POLE KARIK	┦—	1		1			-					\vdash			- 1						1	_						=	=		
	JI 1763	DER KOHNEH			<u> </u>	L			1				_										1-1	ــــاـــــــــــــــــــــــــــــــــ						=	二		
	34 (77)	PIRASHGOFT	ــــــــــــــــــــــــــــــــــــــ	اا				- 1	<u> </u>	<u> </u>								\perp	1				11.					+	_	-			
L.	34223	DEZAK		!!	<u> </u>				1					-	i					1			1	_i_					+-	+	-	+	
	342551	MEHRGERD		ΓΙ	l															_	-		+ +					+	-	-		_	
	342352	JAVNA	7	1			. 1		1		$\neg \neg$					-		-	-	-			-	-							==		
-	342553	SOLGAN																		_			+					+	_	-			_
	347555	BOROU/EN					- 1							-				1	_					=	-				_				
	342559	SHAJBRE-KORD	1	1-			-	\neg	1							\neg								==	_					====			
	342576	POL-E-SILALU		1) 	-	- }	1	 1		 		-	_								-		==					##	=		=
	342601	BADA-HEIDAR	+	+-	 	. 		+	 				1	 [_		1	.				<u> </u>					1 1-	1				
	342605	MARIOREM		·		-			+			- 	1	1	-+-	+-!		-1			- 1						 			+ +	-	+	$\overline{}$
	342607	ARMAND	+	+	I 	\vdash		_	1		 -		-	-									1					1	1			<u></u>	
			╃	-		1							+												E								<u> </u>
	J42609	MORGHAX	+	 	 	 -				⊢- -↓		<u> </u>		┝┷┼															-1				<u> </u>
	342611	1,ORDJAN	 _			<u> </u> -			 				+	$\vdash \vdash$		1				1			1					1		\rightarrow	_		=
	342662	GOOSHEH-POL	4	┵	└	ڵٺ				١								1 1		1			4		4				-				_
	342701	RAXAAT NAALKONAN	┖			<u> </u>	<u> </u>	.	11				ــــــــــــــــــــــــــــــــــــــ	السنا							-							_					=-
	342702	DERDOZO				<u> </u>										لــــــــــــــــــــــــــــــــــــــ											<u> </u>		_	=			—
	342756	ZARRINDERAKHT												L	_																		
. [342620	BENESHT ABAD				7.																			-		-	+ +	-	+			_
	342626	FARSAN	 	1		, — h		111	1									1				1	171	\neg				$\overline{}$	-				_
	343567	DER BAHRAMI	+						1		-		1	 -				-		+	1 1	- 1 -	1 4	\Rightarrow	+				_			#	_
	3435.76	BARAND GERLD	 			 -			1	 	-	-	+ + +														-			<u> </u>			_
			+	 	-		— 		 								- $=$	-		+			1				ļ			$\pm \pm$	王		_
	313577	LALY		┟┉┤	┝┷┼			_	+			- ` -	4	1	-+	+ 1				+	1												_
	343379	Den-Sheiker-1003an	4			 -	<u> </u>	+	1			Į					- -	1									∤		7	\mp	=		\Rightarrow
	343589	GODAR-E-LANDAR	<u> </u>	\sqcup	لللا	<u> </u>	* -	+ -	₩.				_							o										\Rightarrow			=
	J43392	sad-e-karun							1	T																							=
	143198	MALAGNA																		1 1									-	*******	=	— T	
	343668	ZAKD FAHREH									\Box					أتسله		_1	-(-						-						_		
	343677	POLE LALI																					F					+===					
L																																	

_	
73	
\ <i>4</i>	
- 7	
~	

CODE	STATION NAME	195	195	3 195	9 196	0 19	61 19	62 1	X63 · 19	X64 19	KS 196	56 19	267 19	68 194	69 197	0 197	1 1972	1973	1974	1975	1976	1977	1978	1979	1980	981	1982	1983	1984	1985 1	1986	987 1	988 1	1989	1990	1991	1992	1993 1	1994 7	1995	.1996
34110	DEHKADESHAHID	1	1.17	1-	1	Ë		=	==	-	_	-		-	-	-	-	-	-			-		-		-	==	-	\dashv	_		-	_	-	=	二			===	=	
34112	POLTCHOCHONDAR		-	-				_				-		-			-	-	-	-		-			-	=		-			-+		-	-	-	-			-		
34114	YASOOJ :		1				_	-				. -			-							-		-	-	-	==			-	-	_		\neg	\neg	\neg					-
3-1115	SHAHMOKHTAR	\top	Τ-	1	_		-	=	4	+	-	-		-		+-	+-	-							-					-	-	-		-	-	_		_	4		
34117	DARSHA H I	-						-				-		-	-				-				-			-		-	-	_			-	-	_		_		\Box		
34118	BOTARI							=					-		==											-		-	1		-		_			_	_				
34119	BOTARI	-			ــــــــــــــــــــــــــــــــــــــ					-														-		-	_				-					=					
34121	BARZBAKHITARI		H	+		+									-		+		_		Ī																				
34210	LORDEJAN		1		[1		_	÷			-				+	+-	+							<u> </u>								-	\rightarrow	_				_		
	TANGZARDALOU										_	-			_	+	+-	_	-						-	-					-	+				_	_	_	_		
M212	GODARKABK								+		-		-	_	+	+		-				_			-			-			+	+	-	-		_		<u> </u>		i	
1214	SHAHREKORD								1		+	-		-		-	_								-			-	-			-	_								
34215	BABAHYEIDAR										-	_			_	-									-	_				\dashv											
34217	KOUHRANO_DAM		-			- 1			Ţ						-	-	+	\vdash																							
34218	MARBORAN		1					_			•	7				-	-		-		_				_	-		-					\neg				\neg				
34219	ARMAND	-	-			-	_	7	+	+	+	-				-	-		-						-				-		-		7	-			-	#			-
34220	OHOSPEHPOL							_	_	-	-	-					-	-	-						-			-				-	-		_	_					
434222	POLESHALOO				-		-					_				-		1						-		- À		-	=					-				_			
34224	POLEMARI		\top			1		_		_		-1-		\top	_	 	_		T												▔╞	===	-	-	_	-	=	_	-	=	
34226	KOHESOKHTEH		1		\top					_					_	+-	-		-	-				_	-	-	-	\Rightarrow					_			\Rightarrow	-	\Rightarrow	_	_	
34227	DAZAK		†		\top	1	_	_	7	_				1	+ +	\top	T.,	 	 	1.	\vdash	7				7		+	-		-	-	=	_	-	-	-	-	_	_	
34228	ZARINDERAKHI'	_	1-	1	1	\top	\top		_	_		_			-		_			-					_		=					_	=				-	_		_	
34310 -	OUTSADEKARO	\neg	1		-			_	T		_	1:	_			-						-			_			-	-	_	_		_		=			_		_	-
34312	POLELALI		-		1	\top	\dashv	- -	-	-					_			-	-			-				_	_				_	-					-			\neg	
34314	GHELOGIR	-	+	1	1	1.	\top	— -	_		-		\neg	+	\dashv		-	i –			\dashv	-			_	一			\neg	\neg		-		 =	-	_		_			
34315	TANG_E_DOULAB		†	1	╅┈	- -		_			\neg	i	\neg	\neg			1	1	+	_				1		-	_				_	\neg		-	_	-		-	=	_	
34230	POLEKAREHBAS						┰	_		_	_	- -	_	_	1		┪		7.	\vdash	\vdash	-	-			\neg	_			一十			_		_			-	ightarrow	==	
34237	GERDBISHEH	+-	+	\top	+					+		+	+	-		+-	+		 	-		- 1		t			-+	\neg		_	_				-	-	+	_	-	=	
34241	POLBARDEGAN	_		+	_	†	_	+	+				$\neg \vdash$	+		+	-		+	<u> </u>		-				-			_		-			_		-	-	\Rightarrow		-	
	TANGEKHARAJI	+	-	+	_		_	٦÷		+				-	+-	+	+		1		\vdash	-			-	\dashv	$\neg +$	-		\dashv	_			_	\rightarrow	$-\dagger$		-	-	==	
34116	KERIK		-	-	+	_	+	_⊨																							_				_	=		$\overline{}$	\rightarrow	-+	
34120	PATAVEH	+	+-	 												1		<u> </u>																	<u> </u>			_			_
34213	SOLEGAN	 -				-	+	$\neg \sqsubseteq$	\equiv			_			Ι.			-		t															=		=		<u> </u>		
34216	BEHESHTABAD	+	-	+-	+	+	+-	<u>-E</u>		-		-																	- [_	-			\pm		_	+	—	-	_
34221	MORGHAK .			+	+	+			-			Ξ.						-																	\equiv		\exists	\Rightarrow		<u> </u>	
	TANGEHDARKESH		+	+	+	+	+-	— <u>E</u>					\equiv						-						\perp					\exists					\equiv			\equiv	\equiv	_	—
34225	GODARLANDAR	+-	_					_[\equiv						-					-										\equiv		\equiv	\equiv		\equiv	=		—
34311			_						7	\equiv				-			Ţ			-						\dashv				-	-	\top	Ŧ			$\overline{}$	\dashv	ऱ		_	
34242 34111	SIAHKALK KHAKDANEH				+	-	+				_			<u>—</u> —		-		+	-	-	$\vdash \vdash$	-			- 1						-	-			\rightarrow		-+		=	$\overline{}$	—

**Operation of 54222 Station was started in 1933.

Table C-2-1 Summary of Meteorological Conditions

Station Name	Station Code	Longitude	dinate Latitude	Annual Rainfall (mm)	Mean Max. Daily Rainfall (mm)	Mean Max. Tenperature(℃)	Mean Min. Tenperature(℃)	Mean Annual Evaporation(mnt)
Karkhanch-Ghand-Yasuj	341020	5134		831		21.1	3.3	
YASOYI	341030		3050	906		21.7	8.0	
KHAFR	341032	5129	3100	247		28.4	9.5	
HANNA	341043	5144	3113	326	72.0	18.7	1.8	
YASOUJ Shah-mokhtar	341522 341526	5136 5132		885 722	73.3 68.6			1435
DARSHAHI	341526	5132	3040 3050	558	55.4			
Deh-Bozorg-e-Sisakit	341536	5130	3052	832	67.7			
BOTARI	341538	5120	3052	481	49.7			
Dasht Room	341542	5132	3032	971	92.1			1317
PATAVEH	341544	5116		515	47.8			1465.2
Dehkadeh-Shahid	341545	5144	3051	522	77.0			
HANNA	341547	5143	3112	344	43.6			1762.0
KATA	341548	5114	3113	540	52.5			<u> </u>
BAR2	341549	5025	3131	644	70.1			
Alooni	341597	5104	3133	543	56.6			
Sadeh	341606	5210	3043	513	56.5			1277.3
Khak Daneh Tang Zardaloo	341663	5131	3104	354	55.0			
Abchirak	341675	5126 5041	3138 3024	330 540	43.0 59.2			2027.0
Pole Karik	341686 341747	5126	3024	620	62.2	 		3027.0
Deh Kohneh	341763	5151	3031	844	90.8			
Pirashgoft	341773	5117	3043	809	71.6	1 1 1 1 1 1		
Sad-Kouhrang	342037	5007	3227	946				
LORDIAN	342055	5048	3131	521		23.7	6.2	
Mehrgerd	342059	5131	3133	420		17.3	1.8	
Gordbisheh	342061	5112	3134	669	1 1 2 2 2 2			
ADL	342064	5103	3204	408	<u> </u>	19.0	1.5	
Emam-gheis	342067	5118	3145	571		18.3	1.9	
Edalat-organ	342072	5056	3153	560		16.9	2.6	
NAGHAN BOROOJEN	342073	5044 5117	3156	709 378				
Shahre-kord	342075 342083	5051	3159 3219	319	<u> </u>	17.1 20.3	2.5 3.5	
DOOZAK	342083	5058	3219	319		20.3	3.3	
Chalshotor	342110		3224	331	5 75 25 3	18.1	-0.2	
Koohrang	342112	5007	3227	1438	100	15.9	1.4	
FARSAN	342234	5035	3215					
Semirom-olia	342240	5135	3125	388	a William	17.8	3.7	
Rahim-abad	342450	5019	3202	<u> </u>			41 7 11	
Dezak	342525	5020	3216	827	78.1			1258.2
Mehrgerd	342551	5131	3133	302	38.0			1274.8
AHVAZ	342552	4841	3120	235	40.2			2261.6
SOLGAN BOROUJEN	342553	5116	3139	1703	57.1		- 11	1381.2
Godare Kabk	342555	5117 5114	3158 3143	224	32 .5			1063.0
Shahre-kord	342557 342559	5051	3143	331	37.9			
Pol-e-shalu	342578		3145	776	73.6			2140.5
Baba-heidar	342601			841	65.3			2140.3
Tounel-e-Voroudi	342603		·	-	5			14,70
MARBOREH	342605			744	57.3			
ARMAND	342607	5047	3140	620	64.1	1 1 1 1 1 1 1		
MORGHAK	342609		3140	508	49.7			1841.0
LORDIAN	342611	5050	3130	580	59.7			1.00
Monje-Lordjan	342613						34 3 4 5	1509.5
Goosheh Pol	342662			1474	115.2			
Rakaat Naalkonan	342701	5011		703	50.2			
Deh dozd Zarrin Derakht	342702 342756		 	557 635	43.8 63.6			
Behesht-abad	342820		3132	621	51.1			2414.2
Farsan	342826		3202	526	54.5			
Sad Karoon	343014	!		520	54.5			
IZEH	343069			450		27.5	12.8	
Ghal-ch-Tal	343224		 	716				
Deh bahrami	343547			640	72.6			2281.4
Barand-Gerd	343576		 	672	78.5	15.1		1609.6
LALY	343577	4906	3220	545	59.7			2931.1
Deh-Sheikeh-Soosan	343579	4952	3203	916	93.3			1763.5
Sad-e-Karun	343592	4936	· · · · · · · · · · · · · · · · · · ·	579	65.5			1884.8
Malagha	343598	4958	3138	859	67.8		1 1 1	
Zard Fahreh	343668	4948	3200	560	49.6			
Pole Lali	343677	4903	3217	409	48.6			
				1 :		Mary States		
					er Sagila			
7.5		. 4.5		C-9				
							and the second of the second	

14010 0 2	2 Wican Month	, itamican															UNIT	. 1:1111	
Station Code	Station Name	Longitude	Latitude	Elevation	Duration	OCT	NOV	DEC	JAN	FEB	MAR	APR -	MAY	. JUN	JUL	AUG	SEP	: · •	Total
341020	KARKHANEH- GHAND-YASOUJ	5134	3040	1760	1974-78	91	64	158	257	73	104	78	5	0	0	2		0 -	831
341030	YASOYJ	5141	3050	1800	1985-93	21	44	234	167	199	158	61	21	0	0	1	*	2	906
341032	KHAFR	5129	3100	2200	1963-94	5	20	52	55	45	39	21	7	0	2	1		0 .	247
341043	HANNA	5144	3113	2350	1956-96	9	28	66	61	49	51	45	13	0	3	1		0	326
342037	SAD-KOUHRANG	5007	3227	2600	1966-77	6	133	117	232	172	118	147	11	و ،	. 0	0		0	946
342055	LORDJAN	5048	3131	1700	1956-94	14	49	94	111	85	95	51	18	1	1	, i 0		0	521
342059	MEHRGERD	5131	3133	2350	1962-93	17	36	74	80	65	78	47	19	. 2	2	0		0	420
342061	GORDBISHEH	5112	3134	1850	1963-93	23	74	108	118	110	122	78	30	3	4		-	0	669
342064	ADL	5103	3204	2280	1963-96	16	42	59	71	62	84	49	23	. 1	2	0		0	408
342067	EMAM-GHEIS	5118	3145	2300	1956-96	15	53	98	89	94	112	73	31	2	2	. 1	. •	0	571
342072	EDALAT-ORGAN	5056	3153	2500	1970-96	18	61	98	80	94	94	68	27	2	. 17	1		0	560
342073	NAGHAN	5044	3156	2150	1963-93	22	65	132	130	112	130	79	34	1	1	1		a	709
342075	BOROOJEN	5117	3159	2220	1960-93	13	27	80	57	54	67	41	27	3	7	1		2	378
342083	SHAHRE-KORD	5051	3219	2051	1954-93	 8	29	59	59	52	55	39	16	0	2	. 0		0	319
342092	NAGHSH- BAHRAM	5037	. 3212	1030	1974-80	59	23	204	208	63	68	28	· · · · · 7	0	.0	5		0	665
342110	CHALSHOTOR	5048	3224	2078	1963-83	22	35	66	62	37	54	39	15	1	0	1	.'	0	331
342112	KOOHRANG	5007	3227	2650	1956-93	58	159	219	239	230	275	159	75	. 2	13	. 2	. •	7	1438
342240	SAMIROM-OLIA	5135	3125	2500	1963-93	10	33	82	84	65	62	34	13	1	2	1		0	388
343069	IZEH	4952	3150	764	1962-93	28	82	39	89	63	33	70	15	0	0	0	:	32	450
343079	GHAL-EH- ZARRASS	4921	3209	700	1963-93	23	42	82	103	84	91	56	27	1	. 2	. 2		2	517
343224	GHAL-EH-TAL	4953	3138	800	1963-93	32	. 77	125	140	107	121	77	29	1	4	1	÷	1	716

 \overline{C}

Station Name	Sta, Code	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375 A	
YASOUJ	341522						100.0	44	62.5	63.5	. 54	53.5	92	108	71	68	55.5	73	68	68	67.5	97.2	81.5	- 55	63.5	64.3	118	90	44.2	107	72	54.5	73.3
Shah-mokhtar	341526		30	49.5	50-	71	64.5	49	48.5	84	\$5.	38	- 91	104	82	56	48.5	36	72	50.5		89.5	81	56	56.5	59	125.5	106.5	65	133	79	59	68.6
DARSHAHI	341534						52	48	50	41:	44	33	72	95	67	38	30	53	51	52.5	•	58	52	38.5	60	42	<i>5</i> 8	73	28	100	94	54	55.4
Deh-Bozotg-e-Sisakit	341536										73	75	90	65	80	65	45	85	60	55	-	110	73	40	75	. 45	61	105	39	70	72	39	67.7
BOTARI	341538		50	37	31	91	40	30	40	50	46	41	60	58	76	41	.36	50	68	45		73	43	33	54	44	32	68	29	85	52	38	49.7
Dasht Room	341542													i.	•				75	94	91	123	68	- 68	96	102	134	115	51	113	75	85	92.1
PATAVEH	341544						47	38	48	45	64.5	35	68	70.5	49	39	38.5	31.5	38	33	41	56	33.5	33	54	51.5	49.5	70.5	24.5	91.5	49	44	47.8
Dehkadeh-Shahid	341545	84	209	200	40		120	70	.80	105	150	46	150	90	91	43	30	40	62	50	48	41	68	31	50-	48	64	74	37	110	42	37	77.0
HANNA	341547										59	57	50	-			•	50		36	43.5	63	46	24	31	29.5	36	42.5	19.5	78	41	34.5	43.6
КАТА	341548							40	28.5	42	60	27	54	29	50	70	80	50	50	50		104	52	28	66	52	45	54	46	102	44	35	52.5
BARZ	341549					89	52	80	. 72	54	76	34	. 54	72	55	50	52	44	77	70	65	105	92	44	130	83	85.5	74	58	87	73.5	64	70.1
Alooni	341597																	-			38.5	97	47	34	80	47,5	51	60	64.5	75	46	38_5	56.6
Sadeh	341606																					36	. 50	46	57.5	43	70.5	99	44	84	36.5	55.5	56.5
Khak Daneh	341663									**					-			58	. 47	55	49	66							•				55.0
Tang Zardaloo	341675																		51	29	44	57	37	23	46	37	63	68	23.5	56	25	43	43.0
Abchirak	341686									***************************************										92	55.5	61	59	35	55.5	72.5	51.5	56.5	34	73.5	67.5	- 55.5	59.2
Pole Kank	341747																			39	-	93	51	38	58	51	79	78	33	. 101	63	62	62.2
Deh Kohneh	341763																			15.5	-	94	85	65.	90	118	86	106.5	62.5	122	160	85.5	90.8
Pirashgoft	341773																		52	50		50	69	47	90	. 78	86	104	56	102	102	45	71.6
Dezak	342525											100							-	65	70.5	89.5	91.5	51	108	78	78	104.5	83	77	73	46	78.1
Mehrgerd	342551	·					33	30	34	44	81	15	-		-	-		-				31.5	50	20:	68	28	46	37_9	21.9	-	-	30	38.0
AHVAZ	342552	24.5	37.5	45	73.5	30	22.7	41.5	24.5	59	19.8	35,5	31.6	49	89	41	26	60.3	63	29.5	51.2	47	28	15.5	24.2	34	28	52	59	30.2	20.5	53	40.2
SOLGAN	342553												50	50	60	90	50		- 50	70	42	- 50	47	47.	60	. 47	31	114	37	74	53	62	57.1
BOROUJEN	342555						- 40	50	32	25	28	23	17	30	30	45	17	18.5	16	-30	36	35.5	28	15	80	32	35.7	54	28.3	42.5		24	32.5
Shahre-kord	342559											19	40	34	. 60	.50	24	26	29	30.5	46	51	-	-	-		39	- 62	30	41.5	30.5	32	37.9
Pol-e-shalu	342578	39	51	90	. 59	90	51	53	73	102	71	61	85	102	65	77.5	59.7	: 49	-75.6	95	69.5	111	62.5	- 44	135	121.5	53	68.5	47	71.5	72	. 76	73.6
Baba-heidar	342601									- 4.		30	50	61	58	64	90 -	72.5	71	64	66.5	91.5							-	-	·		65.3
MARBOREH	342605							104	•	52.5		41	87	-	-	46	38	61	39	47													57.3
ARMAND	342607					93	70.5	42	56	90	92	28	69	54	- 80	57	50	55	48	55	63	110	56	48	83	75	. 52	93	38.	72	44	57	64.1
MORGHAK	342609					60	56	- 59	62	62	83.	37	52	49	47	53	. 44	34	38	40	43	65.	47	24	70	70	36	53	25	49	43	42	49.7
LORDJAN	342611				46.5	. 50	59.5	44	53	. 71	56	39	50	73	60		50	80	55	52	55	77	59	29	120	85	47.5	59	58	82	55	46	59.7
Goosheb Pol	342662		-												1.7		200				163	158	185	80	161	102	90	118	64	92	84	85	115.2
Rakaat Naalkonan	342701	1 1											-								_					21		69	41.5	64	55.5		50.2
Deh dozd	342702																										41.2	59.5	29	50	43	40	43.8
Zamin Derakht	342756																				58	80	60	50	105	48	75	65	41	80	56	45	63.6
Behesht-abad	342820															-			38	26	54	61	39	38.5	90	75	50	55	35	56	46	52	51.1
Farsan	342826																					80	50	45	83	63	64	71	30	47	24	43	54.5
Deh bahrami	343547				·													47	45	83	46	128	67	31.5	170	81	52	81	69	65	72	51	72.6
Barand-Gerd	343576				·		57.5	54	68.5	134	45.5	85.5	97.5	87.5	119	70.5	66.3	46.5	37	83	83	140	62	29.5	149	101	59	82	61	73.5	92.5	56.5	78.5
LALY	343577			-			31.3	. 34	00.5	134			77.5	67.5		68	58	53	36	- 58	70.5	75	54.	35	87.5	45	54	72	42	76	59.5	71.5	59.7
Deh-Sheikeh-Soosan	343579				···					<u> </u>						155	75	70	49	100		150.5	112	57	102	107	70	110	95	72	96	91	93.3
Godar-e-Landar	343588	27	41.5	70	48.3	66.5	55.5	60	127	75	70	51.5	41.5	45.	235	58	57.5	· 87	62.5	72.5	97.5	110	41.5	67	155	65.4	55.5	91	62.5	27	90	83	74.1
Sad-e-Karun	343592	21	71.5	10	66	50		73.5	50.5	70	65	48.5	51	38	100	52		104.3	38	70	84	86	58.5	58 -	49.5	113	54	57			,,		65.5
Bolaghab	343598					20		10,0	20.3	70		702		36	100	32	33.3	1042	20	//	-		7027	<i>7</i> 0	7/10		62	77	56	68	83	61	67.8
Zard Fahren	343668																	50	44	37	58		50	64	52	41	50	50	56	50	45	48	49.6
Pole Lali	343677			·	· -													42	41	- 31	45	57	70	13	22	45	48	80	32	70	60	55	48.6
, use take	3430//																				~~	~ .	1.7		-						~~	~~	70.0

 $\frac{C}{1}$

Table	C-2-4	(1) Mo	nthly R	ainfall	at Rep	resentat	ive Sta	tions		Yasouj S	tation		UNIT : n	nnı
YEAR	MEH	۸BA	AZA	DEY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHAH	Avg	Total
1971	0.0	186.5	143.0	179.5	200.0	390,0	219.5	67.5	4.0	0.0	0.0	0.0	115.8	1390.0
1972	0.0	5.5	120.5	78.0	30.5	140.5	86.0	5,0	0.0	5.0	0.0	0.0	39.3	471.0
1973	2.0	0.0	27.0	241.8	269.0	139.5	115.5	15.7	0.0	0.0	0.0	0.0	67,5	810.5
1974	13.0	0.0	176.3	134.5	194.0	126.0	97.6	144.4	0.0	0.0	0.0	0.0	73.8	885.8
1975	0.0	72.0	177.5	237.0	413.0	242.5	125.0	47.0	1.0	0.0	33.0	0.0	112.3	1348.0
1976	0.0	51.0	35.5	304.5	101.0	44.5	128.0	30.0	3.0	0.0	4.5	0.0	58.5	702,0
1977	0.0	263.5	165.5	273.0	70.0	152.0	61.0	17.5	0.0	0.0	0.0	0.0	83.5	1002.5
1978	9.0	83.0	275,0	173.0	155.0	49.0	63.0	40.5	7.5	0.0	0.0	0.0	71.3	855.0
1979	0.5	6.5	283.7	108.0	361.5	297.5	. 128.0	18.0	0.0	0.0	0.0	0.0	100.3	1203.7
1980	0.0	12.5	193.5	139.0	202.5	140.5	184.0	37,5	0.0	0.0	0.0	0.0	75.8	909.5
1981	10.0	47.0	59.0	120.5	198.5	280.5	117.5	25.5	2.0	0.0	0.0	0.0	71.7	860.5
1982	46.5	229.5	86,5	199.0	96.5	129.5	58.0	31.0	0.0	0.0	0.0	0.0	73.0	876.5
1983	0.0	2.5	24.0	82.0	82.0	69.5	226.5	29.5	0.0	0.0	1.5	0.0	43.1	517.5
1984	14.5	127.0	32.5	165.0	99.0	46.0	39.5	1.5	0.0	0.0	0.0	0.0	43.8	525.0
1985	0.0	117.0	147.0	45.0	91.5	97.0	224.5	114.0	0.0	0.0	0.0	3.5	70.0	839.5
1986	0.0	102.4	333.5	52.7	97.8	221.5	104.1	0.0	4.6	0.0	0.0	0.0	76.4	916.6
1987	9.1	31.9	49.5	249.5	191.2	136.8	28.4	88.1	0.0	0.0	0.0	0.0	65.4	784.5
1988	0.0	14.5	84.3	: 149.3	92.7	131.7	44.4	34.3	0.6	0.0	0.0	0.0	46.0	551.8
1989	0.0	167.5	250.9	109.7	221.1	19.9	34.8	2.0	0.0	1.0	0.0	0.0	67.2	806.9
1990	0.0	6.5	77.6	190.4	73.2	219.5	114.6	0.0	0.0	0.0	0.0	0.0	56.8	681.8
1991	83.0	0.0	452.6	178.2	163.8	229.6	88.4	116.4	6.4	0.0	0.0	0.6	109.9	1319.0
1992	0.0	0.4	262.8	259.7	231.1	442.1	71.9	117.6	0.0	0.0	0.0	0.4	115.5	1386.0
1993	3.0	49.0	16.5	50.9	62.7	102.4	66.7	30.3	0.0	0.0	0.0	0.0	31.8	381.5
1994	12.0	280.5	294.5	127.0	254.5	90.0	86.0	50.5	18.5	0.0	0.0	0.0	101.1	1213.5
1995	19.5	0.0	96.5	282.0	200.5	291.0	220,5	34,0	0.0	4.0	0.0	0.0	95.7	1148.0
1996	2.0	5.5	54.5	96.5	24.0	91.2	285.5	59.0	2.0	.0.5	0.0	0.0	51.7	620.7
Avg	8.6	71.6	150.8	162.5	160.6	166.2	116.1	44.5	1.9	0.4	1.5	0.2	73.7	884.9
Max	83.0	280.5	452.6	304.5	413.0	442.1	285.5	144.4	18.5	5.0	33.0	3.5	115.8	1390.0
Min	0.0	0.0	16.5	45.0	24.0	19.9	.28.4	0.0	0.0	0.0	0.0	0.0	31.8	381.5

	1990	0.0	6.5	77.6	190.4	73.2	219.5	114.6	0.0	0.0	0.0	0.0	0.0	56.8	681.8
4 1 g	1991	83.0	0.0	452.6	178.2	163.8	229.6	88.4	116.4	6.4	0.0	0.0	0.6	109.9	1319.0
	1992	0.0	0.4	262.8	259.7	231.1	442.1	71.9	117.6	0.0	0.0	0.0	0.4	115.5	1386.0
	1993	3.0	49.0	16.5	50.9	62.7	102.4	66.7	30.3	0.0	0.0	0.0	0.0	31.8	381.5
	1994	: 12.0	280.5	294.5	127.0	254.5	90.0	86.0	50.5	18.5	0.0	0.0	0.0	101.1	1213.5
	1995	19.5	0.0	96.5	282.0	200.5	291.0	220.5	34,0	0.0	4.0	0.0	0.0	95.7	1148.0
4	1996	2.0	5.5	54.5	96.5	24.0	91.2	285.5	59.0	2.0	0.5	0.0	0.0	51.7	620.7
	Avg	8.6	71.6	150.8	162.5	160.6	166.2	116.1	44.5	1.9	0.4	1.5	0.2	73.7	884.9
	Max	83.0	280.5	452.6	304.5	413.0	442.1	285.5	144.4	18.5	5.0	33,0	3.5	115.8	1390.0
	Min	0.0	0.0	16.5	45.0	24.0	19.9	28.4	0.0	0.0	0.0	0.0	0.0	31.8	381.5
		11.7						1.17	7. 10						
- 5 - 5	Table	C-2-4	(2) Mo	onthly R	ainfall	at Rep	resentat	ive Sta	tions		Hanna St	ation		UNIT : r	nm
	YEAR	MEH	ABA	AZA	DEY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHAH	Avg	Total
	1975	0.0	0.0	37.3	31.0	170.5	120.0	100.5	1.0	0.0	0.0	6.0	0.0	38.9	466.3
	1976	0.0	25.0	15.0	179.0	9.5	0.0	57.5	0.0	0.0	2.0	0.0	19.0	25.6	307,0
a tara	1977	5.5	109.5	45.0	164.0	16.0	62.0	3.5	22.0	0.0	0.0	0.0	0.0	35.6	427.5
	1982	20.0	161.0	11.0	37.0	7.0	38.0	32.5	17.0	0.0	0.0	0.0	0.0	27.0	323.5
	1984	4.0	64.0	26.5	52.5	44.0	0.0	21.0	5.0	0.0	0.0	0.0	0.0	18.1	217.0
	1985	0.0	17.0	91.5	23.0	23.5	42.5	130.0	58.5	0.0	0.0	1.5	1.0	32.4	388.5
	1986	0.0	47.5	193.0	27.0	40.5	64.5	43.0	0.0	0.0	0.0	16.5	0.0	36.0	432.0
	1987	3.5	39.0	16.5	97.5	88.5	69.0	18.5	47.0	0.0	0.0	0.0	0.0	31.6	379.5
	1988	0.0	6.5	16.0	52.5	43.5	39.0	19.5	17.5	0.0	0.0	0.0	0.0	16.2	194.5
	1989	0.0	103.5	96.0	22.5	64.0	11.0	17.0	2.5	0.0	2.5	1.5	0.0	26.7	320.5
	1990	0.0	1.5	26.0	63.0	39.5	84.5	50.5	0.0	0.0	0.0	0.0	0.0	22.1	265.0
	1991	30.0	0.0	118.5	68.0	22.0	64.5	17.5	47.5	0.0	0.0	0.0	2.5	30.9	370.5
	1992	0.0	0.8	47.3	88.6	114.7	147.6	16.6	46.2	0.0	0.0	. 0.0	0.0	38.5	461.8
	1993	0.0	44.5	2.5	0.0	26.0	34.5	31.0	17.5	0.0	0.0	0.0	0.0	13.0	156.0
	1994	2.5	: 147.5	102.5	57.5	109.5	35.5	43.5	18.5	22.0	0.0	0.0	0.0	44.9	539.0
	1995	12.0	0.0	34.0	60.0	58.0	87.5	55.5	18.0	0.0	0.0	0.0	8.0	27.8	333.0
	1996	3.0	0.0	27.5	9.5	0.0	41.0	141.0	38.5	1.5	2.0	0.0	0.0	22.0	264.0
	Avg	4.7	45.1	53.3	60.7	51.6	55.4	47.0	21.0	1.4	0.4	1.5	1.8	28.7	343.9
	Max	30.0	161.0	193.0	179.0	170.5	147.6	141.0	58.5	22.0	2.5	16.5	19.0	44.9	539.0
	Min	0.0	0.0	2.5	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	13.0	156.0
					·										

Table	C-2-4	(3) Mo	nthly R	tainfall	at Rep	resentat	tive Sta	tions		Barz Sta	tion	rational de la company de La company de la company d	UNIT : r	nm
YEAR	MEH	ABA	AZA	DEY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHAH	Avg	Total
1970	0.0	0.0	240.0	15.9	95.1	58.8	115.3	33.0	0.0	0.0	0.0	0.0	46.5	558.1
1971	0.0	80.0	96.0	82.0	91.0	83.5	119.5	67.5	0.0	0.0	0.0	0.0	51.6	619.5
1972	0.0	45.0	162.0	36.7	50.0	66.5	36.0	3.0	0.0	0.0	11.0	0.0	34.2	410.2
1973	0,0	0.0	4.0	145.0	120.0	147.0	49.0	4.0	0.0	0.0	0.0	0.0	39.1	469.0
1974	0.0	0.0	175.0	137.0	133.0	97.0	41.0	76.0	0.0	0.0	0.0	0.0	54.9	659.0
1975	0.0	50.0	107.0	235.0	249.0	167.0	0.06	36.0	9.0	0.0	0.0	0.0	76.1	913.0
1976	0.0	11.0	17.0	198.0	48.0	49.0	90.0	21.0	3.0	0.0	0.0	0.0	36.4	437.0
1977	0.0	104.0	160.0	100.0	45.0	49.0	6.0	15.0	0.0	0.0	0.0	0.0	39.9	479.0
1978	0.0	37.0	213.0	101.0	148.0	25.0	57.0	27.0	21.0	0.0	0.0	0.0	52.4	629.0
1979	0.0	18.0	213.0	61.0	249.0	187.0	101.0	30.0	0.0	0.0	0.0	0.0	71.6	859.0
1980	0.0	18.0	43.0	104.0	135.0	52.0	122.0	0.0	0.0	0.0	0.0	0.0	39.5	474.0
1981	15.0	14.0	94.0	108.0	111.0	176.0	34.0	16.0	5.0	0.0	0.0	0.0	47.8	573.0
1982	20.0	130.0	70.0	187.0	44.0	88.0	58.0	41.0	0.0	0.0	0.0	0.0	53.2	638.0
1983	0.0	6.0	. 52.0	89.0	29.0	66.0	161.0	43.0	0.0	0.0	0.0	0.0	37.2	446.0
1984	0.0	94.0	28.0	149.0	86,2	42.0	50.0	22.0	0.0	0.0	0.0	0.0	39.3	471.2
1985	0.0	16.0	141.0	10.0	108.5	83.5	172.5	107.0	0.0	0.0	0.0	1.0	53.3	639.5
1986	0.0	47.5	354.0	94.5	77.0	182.5	83.0	0.0	0.0	0.0	9.0	0.0	70.6	847.5
1987	12.5	61.5	38.5	166.0	119.0	281.5	26.0	52.0	0.0	0.0	0.0	0.0	63.1	757.0
1988	0.0	98.5	41.0	131.5	84.0	88.5	54.5	35.0	0.0	0.0	0.0	0.0	44.4	533.0
1989	0.0	110.5	237.0	71.5	116.0	71.0	50.0	0.0	0.0	0.0	0.0	0.0	54.7	656.0
1990	0.0	1.5	39.0	159.5	57.5	202.5	159.5	0.0	0.0	0.0	0.0	0.0	51.6	619.5
1991	92.5	0.0	223.0	127.5	103.0	272.5	103.5	76.5	1.5	0.0	0.0	0.0	83.3	1000.0
1992	0.0	~20.0	170.5	200.0	196.5	307.5	48.5	115.5	0.0	0.0	0.0	0.0	88.2	1058.5
1993	0.0	53.5	34.5	82.5	101.5	78.0	76.0	58.5	0.0	0.0	0.0	0.0	40.4	484.5
1994	12.5	235.0	327.0	81.5	71.5	81.5	33.0	27.5	9.0	0.0	0.0	0.0	73.2	878.5
1995	3.5	0.0	76.5	227.5	118.0	195.5	135.0	44.0	0.0	0.0	0.0	0.0	66.7	800.0
1996	1.5	0.0	45.5	110.0	11.5	86.5	197.0	25.0	1.0	0.0	0.0	0.0	39.8	478.0
Avg	5.8	46.3	126.0	118.9	103.6	121.7	82.9	36.1	1.8	0.0	0.7	0.0	53.7	644.0
Max	92.5	235.0	354.0	235.0	249.0	307,5	197.0	115.5	21.0	0.0	11.0	1.0	88.2	1058.5
Min	0.0	0.0	4.0	10.0	11.5	25.0	6.0	0.0	0.0	0.0	0.0	0.0	34.2	410.2

٠															
	A			-											
	TLLI.	0.4	(4) N.Ž.		· · · C · 11	. 70					r	Marta de Ata		Y TA TIME	
	Table			onthly R						*****		heis Statio		UNIT : r	
	YEAR 1958	MEH 3.0	ABA 8.2	AZA 75,4	DEY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHAH	Avg	Total
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			51.1	32.7	33.5	19.8	9.7	0.0	0.0	0.0	0.0	19.5	233.4
	1959 1961	0.2	1.0	40.0	57.0	25.8	48.7	32.8	3.0	0.0	0.0	0.0	0.0	17.4	208.5
	1962	0.0	90.0 25.4	135.0 81.6	130.0	148.0	35.0	225.0	16.0	0.0	0.0	0.0	0.0	64.9	779.0
	1963	0.0	17.0	131.0	0.0 49.0	163,4	69.0	58.0	75.0	0.0	0.0	0.0	0.0	39.4	472,4
	1964		59.0			49.0	124.4	45.0	10.0	0.0	0.0	0.0	0.0	35.5	425.4
`.'	1965	0.0 60.5		89.5	181.2	113.0		74.0	20.0	0.0	0.0	0.0	0.0	48.8	4100
	1966	114.0	40.0	17.2	66:5	80.0	104.7	33.0	17.0	0.0	0.0	0.0	0.0	34.9	418.9
	1967	0.0		91.0	101.0	18.3	78.0	102.0	39.2	0.0	0.0	0.0	0.0	45.3	543.5
	1968	2.4	166.0 82.0	34.0 36.2	130.0 22.6	20.4	115.0	263.0	10.7	0.0	0.0	0.0	0.0	61.6	739.1
	1969	0.0	0.0	30.2	63.9	58.6 97.2	130.9 55.2	67.6 236.0	19.0 4.0	0.0	0.0	0.0 0.0	0.0	34.9 41.5	419.3
	1970	0.0	54.0	41.5	27.0	69.0	110.0	11.0	79.0	0.0	0.0	7.0	0.0	33.2	398.5
	1971	1.4	35.0	89.0	73.0	82.0	111.0	116.0	0.0	0.0	10.0	0.0	0.0	43.1	517.4
- 1	1972	0.0	22.0	22.0	154.0	127.0	84.0	15.0	10.0	0.0	4.0	0.0	0.0	36.5	438.0
ċ	1973	0.0	0.0	0.0	92.0	117.0	24.1	29.9	22.5	0.0	19.0	0,0	0.0	25.4	304.5
	1974	0.0	71.3	422.4	72.0	299.5	283.0	137.0	150.0	0.0	33.0	0.0	0.0	126.9	304.3
	1975	73.0	43.0	114.0	162.5	18.0	90.0	107.2	18.0	- 0.0	0.0	0.0	0.0	52.1	625.7
1	1976	77.5	148.0	188.4	155.0	83.2	109.1	17.6	2.5	0.0	0.0	0.0	0.0	65.1	781.3
	1977	0.0	71.5	147.7	127.2	73.5	163.5	14.0	146.2	40.4	0.0	2.0	0.0	65.5	786.0
. :	1978	13.0	18.6	68.9	149.4	246.4	147.9	85.2	24.0	0.0	0.0	0.0	0.0	62.8	753.4
•	1979	5.0	25.8	55.7	91.7	139.0	96.0	130.8	14.5	0.0	0.0	0.0	0.0	46.5	558.5
	1980	0.0	91.2	12.5	81.2	84.2	131.5	10.0	9.0	0.0	0.0	0.0	0.0	35.0	419,6
	1981	62.5	162.0	38.0	128.5	63.4	115.5	57.7	35.2	0.0	0.0	0.0	0.0	55.2	662.8
	1982	0.0	3.7	35.8	86.3	51.0	216.8	36.0	59.2	0.0	0.0	0.0	0.0	40.7	488.8
	1983	7.9	48.0	59.5	77.5	57.5	63.0	16.0	4.0	0.0	0.0	0.0	0.0	27.8	333.4
	1984	0.0	14.2	135.2	12.0	53.0	151.0	175.4	103.2	0.0	0.0	0.0	0.0	53.7	644.0
	1985	0.0	197.9	121.4	47.0	47.0	184.0	76.0	0.0	0.0	5.0	5.4	0.0	57.0	683.7
	1986	45.0	14.0	70.2	61.0	99.0	134.0	67.0	0.0	0.0	0.0	0.0	0.0	40.9	490.2
	1987	0.0	70.0	122.0	70.0	108.0	84.0	27.0	14.0	0.0	0.0	0.0	0.0	41.3	495.0
÷	1988	0.0	0.0	238.0	87.0	90.0	46.0	22.0	2.0	0.0	0.0	0.0	0.0	40.4	485.0
	1989	0.0	8.0	52.0	114.0	95.0	126.0	12.0	0.0	3.0	0.0	0.0	0.0	34.2	410.0
٠.	1990	57.0	0.0	255.0	76.0	92.0	82.0	83.0	63.0	0.0	0.0	6.0	0.0	59.5	714.0
. 3	1991	0.0	22.0	211.0	160.0	152.0	236.0	0.0	53.0	0.0	0.0	7.0	0.0	70.1	841.0
	1993	14.0	296.0	109.0	46.0	69.0	84.0	64.0	25.0	33.0	0.0	0.0	0.0	61.7	740.0
	1994	4.0	0.0	67.0	49.0	131.0	46.0	96.5	16.0	0.0	0.0	4.0	0.0	34.5	413,5
٠.	1995	6.0	10.0	34.0	143.0	136.0	212.0			· -	-			90.2	
	Avg	13.7	55.9	105.6	90.6	101.4	122.8	65.8	33.6	2.9	2.7	1.2	0.0	50.9	596.3
	Max	77.5	296.0	422.4	162.5	299.5	283.0	236.0	150.0	40.4	33.0	7.0	0.0	126.9	841.0
	Min	0.0	0.0	0.0	12.0	18.0	24.1	0.0	0.0	0.0	0.0	0.0	0.0	25.4	304.5
	Table (C-2-4	(5) M c	onthly R	ainfall	at Ren	resenta	tive Sta	tions	1.00	Share K	ord Station		UNIT : n	nm
	YEAR	MEH	ABA	AZA	DEY	BAH	ESF	FAR	ORD	КНО	TIR	MOR	SHAH	Avg	Total
•	1976	0.0	31.0	32.5	58.0	14.0	14.0	82.0	25.0	6.5	0.0	0.5	0.0	22.0	263.5
1.	1977	15.0	107.0	98.5	19.0	34.5	97.5	5.5	8.5	0.0	0.0	0.0	0.0	32.1	385.5
	1978	0.0	38.0	75.0	67.0	47.5	29.0	43.0	60.5	10.5	0.0	0.0	11.0	31.8	381.5
	1979	0.0	9.0	84.0	34.0	124.5	153.5	36.5	7.0	0.0	0.0	0.0	0.0	37.4	448.5

							tive Sta				rd Station		UNIT : r	
YEAR		ABA	AZA	DEY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHAH	Avg	Total
1976	0.0	31.0	32.5	58.0	14.0	14.0	82.0	25.0	6.5	0.0	0.5	0.0	22.0	263.5
1977	15.0	107.0	98.5	19.0	34.5	97.5	5.5	8.5	0.0	0.0	0.0	0.0	32.1	385.5
1978	0.0	38.0	75.0	67.0	47.5	29.0	43.0	60.5	10.5	0.0	0.0	11.0	31.8	381.5
1979	0.0	9.0	84.0	34.0	124.5	153.5	36.5	7.0	0.0	0.0	0.0	0.0	37.4	448.5
1980	0.0	28.0	29.0	84.5	74.0	26.5	67.5	14.5	0.0	0.0	0.0	0.0	27.0	324.0
1981	19.5	5.0	31.0	38.5	52.5	77.5	48.0	7.0	. 11.5	0.0	0.0	0.0	24.2	290.5
1982	12.0	71.5	46.5	97.5	27.0	36.5	17.0	18.0	0.0	0.0	0.0	0.0	27.2	326.0
1983	0.0	4.5	6.0	47.0	25.5	80.5	66.0	43.5	0.0	0.0	4.0	0.0	23.1	277.0
1984	5.5	39.0	19.0	46.0	38.0	10.5	41.0	6.5	0.0	0.0	0.0	0.0	17.1	205.5
1985	0.0	20.5	76.0	11.0	36.5	56.5	87.5	66.0	2.5	0.0	0.0	0.0	29.7	356.5
1986	0.0	41.5	143.5	53.0	29.5	67.0	39.0	11.5	0.0	0.0	0.0	0.0	32.1	385.0
1991	22.5	6.0	159.0	55.0	39.0	80.0	36.5	45.5	0.0	0.0	0.0	0.0	37.0	443.5
1992	0.0	0.5	45.0	64.7	73.5	122.5	11.5	78.5	23.0	0.0	0.0	0.0	34.9	419.2
1993	0.0	46.0	4.5	18.8	37.5	33.5	38.5	9.3	0.0	0.0	0.0	0.0	15.7	188.1
1994	9.0	98.0	78.5	18.5	40.5	20.0	25.5	18.0	30.5	0.0	0.0	0,0	28.2	338.5
1995	0.0	0.0	24.5	49.5	49.0	100.5	88.5	30.0	0.0	0.0	0.0	2.0	28.7	344.0
1996	0.0	0.0	16.5	66.0	0.0	34.0	87.0	6,0	8.5	0.0	0.0	0.0	18.2	218.0
Avg	4.9	32.1	57.0	48.7	43.7	61.1	48.3	26.8	5.5	0.0	0.3	8.0	27.4	329.1
Max	22.5	107.0	159.0	97.5	124.5	153.5	88.5	78.5	30.5	0.0	4.0	11.0	37.4	448.5
Min	0.0	0.0	4.5	11.0	0.0	10.5	5.5	6.0	0.0	0.0	0.0	0,0	15.7	188.1
		1.		1000	1000		F 1	1.						
							100				:			
						100								
							C-14							
14.							U-1-1							
	1.0	1.0	* *			100				3				
			100		100				1000					

Table (C-2-4 ((6) Mo	nthly R	ainfall	at Repi	esenta	tive Sta	tions		Armand	Station		UNIT : 1	nnı
YEAR	MEH	ABA	AZA	DEY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHAH	Avg	Total
1970	0.0	0.0	171.0	44.5	92.5	40.5	105.5	30,0	0.0	0.0	0.0	0.0	40.3	484.0
1971	0.0	91.0	105.0	63.0	113.0	117.0	114.5	56.9	0.0	0.0	0.0	0.0	55.0	660.4
1972	0.0	34.5	129.5	38.5	46.0	106.0	43.5	1.0	0.0	0.0	0,0	0.0	33.3	399.0
1973	0.0	0.0	27.0	158.5	163.0	142.0	39.0	1.5	6.0	0.0	0.0	0.0	44.8	537.0
1974	0.0	0.0	196.5	145.0	80.0	84.0	43.0	91.0	0.0	0.0	0.0	0.0	53.3	639.5
1975	0.0	58.0	130.5	297.5	240.0	150.0	93.0	28.0	0.0	0.0	0.0	0.0	83.1	997.0
1976	0.0	22.0	37.0	147.0	43.0	- 17.0	47.0	19.0	0.0	0.0	0.0	0.0	27.7	332.0
1977	0.0	85.8	136.0	124.0	58.0	148.0	11.0	78.0	0.0	0.0	0.0	0.0	53.4	640.8
1978	0.0	41.0	156.0	117.0	1390.0	29.0	91.0	2420.0	14.0	0.0	0.0	0.0	354.8	4258.0
1979	0.0	11.0	168.0	48.0	337.0	155.0	98.0	0.0	0.0	0.0	0.0	0.0	68.1	817.0
1980	0.0	24.0	78.0	117.0	134.0	66.0	109.0	0.0	0.0	0.0	0.0	0.0	44.0	528.0
1981	30.0	0.0	70.0	159.0	110.0	111.0	47.0	7.0	0.0	0.0	0.0	0.0	44.5	534.0
1982	38.0	131.0	75.0	179.0	54.0	98.0	20.0	36.0	0.0	0.0	0.0	0.0	52.6	631.0
1983	0.0	6.0	63.0	105.0	45.0	113.0	143.0	51.0	0.0	0.0	0.0	0.0	43.8	526.0
1984	0.0	98.0	21.0	143.0	82.0	46.0	67.0	22.0	0.0	0.0	0.0	0.0	39.9	479.0
1985	0.0	19.0	125.0	26.0	102.0	78.0	229.0	120.0	0.0	0.0	0.0	0.0	58.3	699.0
1986	0.0	44.0	313.0	76.0	103.0	183.0	87.0	0.0	0.0	0.0	4.0	0.0	67.5	810.0
1987	12.0	66.0	50.0	182.0	135.0	163.0	27.0	82.0	0.0	0,0	0.0	0.0	59.8	717.0
1988	0.0	79.0	61.0	101.0	105.0	63,0	53.0	17.0	0.0	0.0	0.0	0.0	39.9	479.0
1989	0.0	109.0	223.0	75.0	113.0	36.0	28.0	0.0	0.0	0.0	0.0	0.0	48.7	584.0
1990	0.0	8.0	44.0	127.0	70.0	186.0	138.0	0.0	0.0	0.0	0.0	0.0	47.8	573.0
1991	78.0	0.0	204.0	96.0	91.0	185.0	84.0	57.0	0.0	0.0	0.0	2.0	66.4	797.0
1992	0.0	4.0	142.0	225.0	149.0	283.0	41.0	118.0	5.0	0.0	0.0	0.0	80.6	967.0
1993	0.0	38.0	42.0	76.0	60.0	73.0	70.0	43.0	0.0	0.0	0.0	0.0	33.5	402.0
1994	10.0	213.0	234.0	93.0	69.0	75.0	28.0	54.0	0.0	0.0	0.0	0.0	64.7	776.0
1995	7.0	0.0	71.0	84.0	114.0	152.0	126.0	18.0	0.0	0.0	0.0	0.0	47.7	572.0
1996	4.0	0.0	43.0	100.0	0.0	96.0	179.0	26.0	0.0	0.0	0.0	0.0	37.3	448.0
Avg	6.6	43.8	115.4	116.6	151.8	110.9	80.1	125.1	0.9	0.0	0.1	0.1	62.6	751.4
Max	78.0	213.0	313.0	297.5	1390.0	283.0	229.0	2420.0	14.0	0.0	4.0	2.0	354.8	4258.0
Min	0.0	0.0	21.0	26.0	0.0	17.0	11.0	0.0	0.0	0.0	0.0	0.0	27.7	332.0
Table ((7) Ma	41-les D	C- 11	ot Denr		· C4.		4.14.7	Lordian	Ca. 4		IINIT · ·	

969 970 971		ABA	AZA	DEY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHAH	Avg	Total
	0.0	66.5	27.0	58.0	48.5	93.0	22.0	16.0	0.0	0.0	0.0	0.0	27.6	331.0
771	0.0	0.0	49.5	61.5	94.5	26.5	105.5	19.0	0.0	0.0	0.0	0.0	29.7	356.5
	0.0	82.0	70.5	131.4	125.8	62.0	88.0	34.5	0.0	0.0	0.0	0.0	49.5	594.2
72	0.0	18.4	126.0	37.4	34.0	85.0	39.5	6.5	0.0	0.0	0.0	0.0	28.9	346.8
73 .	0.0	0.0	21.1	85.5	236.0	102.0	57.0	0.0	0.0	0.0	0.0	0.0	41.8	501.6
74	8.0	2.0	161.0	112.0	89.5	94.0	42.5	90.5	0.0	0.0	0.0	0.0	50.0	599.5
75	0.0	6.5	91.0	178.8	167.5	135.0	91.5	37.0	0.0	0.0	0.0	0.0	58.9	707.3
76	0.0	33.0	37.0	136.0	88.0	0.0	88.0	22.5	0.0	0.0	0.0	0.0	33.7	404.5
77	0.0	171.0	108.0	75.0	64.0	113.5	22.0	17.0	0.0	0.0	0.0	0.0	47.5	570.5
78	0.0	47.0	129.0	121.0	157.0	28.0	57.0	10.0	0.0	0.0	0.0	0.0	45.8	549.0
79	0.0	0.0	227.0	60.0	240.0	140.0	74.0	48.0	0.0	0.0	0.0	0.0	65.8	789.0
080	26.0	9.0	81.0	94.0	106.0	174.0	49.5	12.5	0.0	0.0	0.0	0.0	46.0	552.0
81	38.5	145.5	135.5	176.5	45.5	99.5	67.0	34.5	0.0	0.0	0.0	0.0	61.9	742.5
82	0.0	6.5	42.0	93.0	33.5	105.0	134.5	77.5	0.0	0.0	0.0	0.0	41.0	492.0
83	0.0	101.5	34.5	137.5	82.0	48.5	54.5	29.0	0.0	0.0	0.0	0.0	40.6	487.5
84	0.0	24.0	120.0	20.5	112.0	50.0	198.0	107.0	0.0	0.0	0.0	7.0	53.2	638.5
85	0.0	48.0	294.0	50.0	91.8	160.0	103.0	0.0	0.0	0.0	16.0	0.0	63.6	762.8
86	14.0	54.5	37.0	141.5	121.5	146.0	25.5	64.0	0.0	0.0	0.0	0.0	50.3	604.0
87	0.0	67.5	42.5	80.5	80.0	100.0	41.5	30.5	0.0	0.0	0.0	0.0	36.9	442.5
88	0.0	105.5	222.0	90.5	119.0	48.0	32.0	0.0	0.0	0.0	0.0	0.0	51.4	617.0
89	0.0	9.5	41.0	119.5	78.0	178.0	119.5	0.0	0.0	0.0	0.0	0.0	45.5	545.5
90	91.0	0.0	205.5	105.0	84.0	166.0	70.0	57.0	3.0	0.0	0.0	0.0	65.1	781.5
91	0.0	2.0	157.5	176.0	145.0	249.0	28.5	86.5	0.0	. 0.0	0.0	0.0	70.4	844.5
92	0.0	62.5	29.5	67.0	64.0	92.5	73.5	43.5	0.0	3.5	0.0	0.0	36.3	436.0
93	15.0	231.6	330.0	69.0	89.0	64.5	58.5	43.5	21.0	0.0	0.0	0.0	76.8	922.1
94 -	2.0	0.0	73.0	152.5	90.0	140.0	131.0	38.0	0.0	0.0	0.0	0.0	52.2	626.5
95	4.0	0.0	44.5	83.0	4.5	73.5	175.0	21.0	0.0	0.0	0.0	0.0	33.8	405.5
vg	7.4	47.9	108.8	100.5	99.7	102.7	75.9	35.0	. 0.9	0.1	0.6	0.3	48.3	579.6
ax ·	91.0	231.6	330.0	178.8	240.0	249.0	198.0	107.0	21.0	3.5	16.0	7.0	76.8	922.1
lin	0.0	0.0	21.1	20.5	4.5	0.0	22.0	0.0	0.0	0.0	0.0	0.0	27.6	331.0

	:								-						
		-						-					. *		•
			•			•									
									:						
•	Table	C-2-4	(8) Moi	nthly R	ainfall	at Repi	resentat	ive Sta	tions		Goosheh	Pol Statio	n	UNIT:	nın
	YEAR	MEH	ΛBA	AZA	DEY	BAH	ESF	FAR	ORD	КНО	TIR	MOR	SHAH	Avg	Total
	1985	0.0	98.5	554.0	135.0	262.0	226.0	232.0	360.0	0.0	0.0	0.0	5.0	156.0	1872,5
,	1986	0.0	121.5	513.5	168.5	222.0	526.0	180.0	33.0	0.0	0.0	0.0	0.0	147.0	1764.5
	1987	156.0	258.0	147.5	543.5	353.5	532.0	62.5	96.0	0.0	0.0	0.0	0.0	179.1	2149.0
٠	1988	0.0	94.5	217.5	442.5	205.0	177.5	101.0	87.5	0.0	0.0	0.0	0.0	110.5	1325.5
	1989	0.0	215.0	351.5	133.0	264.0	220.0	101.0	18.0	0.0	0.0	0.0	0.0	108.5	1302.5
	1990	0.0	9.0	24.0	277.5	225.0	293.0	285.0	0.0	0.0	0.0	0.0	0.0	92.8	1113.5
	1991	81.5	17.5	505.0	277.5	250.0	220.5	148.0	139.0	0.0	0.0	0.0	0.0	136.6	1639.0
	1992	0.0	89.0	261.0	379.0	234.0	500.5	135.0	348.5	0.0	0.0	0.0	0.0	162.3	1947.0
	1993	0.0	223.5	100.5	121.5	161.5	191.0	128.0	126.5	0.0	0.0	0.0	0.0	87.7	1052.5
	1994	38.0	314.0	444.0	185.0	96.5	153.0	121.0	90.5	0.0	0.0	4.0	6.5	121.0	1452.5
ď.	1995	0.0	0.0	. 147.5	159.5	117.5	349.0	309.0	59.5	0.0	0.0	0.0	0.0	95.2	1142.0
	1996	0.0	13.0	81.0	218.0	80.5	214.5	283.5	33.5	8.5	0.0	0.0	0.0	77.7	932.5
-	Avg	23.0	121.1	278.9	253.4	206.0	300.3	173.8	116.0	0.7	0.0	0.3	1.0	122.9	1474.4
	Max	156.0	314.0	554.0	543.5	353.5	532.0	309.0	360.0	8.5	0.0	4.0	6.5	179.1	2149.0
	Min	0.0	0.0	24.0	121.5	80.5	153.0	62.5	0.0	0.0	0.0	0.0	0.0	77.7	932.5

Table	C-2-4	(9) Mo	nthly R	ainfall	at Repi	resentat	ive Sta	itions		Behesh	abad Static	n	UNIT:	nm '
YEAR	NEH.	ABA	AZ.A	DEY	BAH	ESF	FAR	ORD	КНО	TIR	MOR	SHAH	Avg	Total
1983	0.0	15.0	49.0	65.0	68.0	113.0	141.0	51.0	0.0	.0.0	0.0	0.0	41.8	502.0
1984	0.0	87.0	22.0	141.0	58.0	52.0	39.5	11.0	0.0	0.0	0.0	0.0	34.2	410.5
1985	0.0	30.0	158.5	9.0	139.0	92.0	170.5	112.0	0.0	0.0	2.0	2.0	59.6	715.0
1986	0.0	49.5	193.5	110.0	69.5	161.0	80.0	7.5	0.0	0.0	6.0	0.0	56.4	677.0
1987	7.0	98.5	76.0	199.0	117.0	163.0	21.0	52.5	0.0	0,0	0.0	0.0	61.2	734.0
1988	0.0	102.0	43.5	117.5	66.0	40.0	37.0	26.5	0.0	0.0	0.0	0.0	36.0	432.5
1989	0.0	73.5	189.0	59.0	63.5	42.0	28.0	0.0	0.0	0.0	0.0	0.0	37.9	455.0
1990	0.0	5.0	27.0	109.5	98.0	119.0	163.0	0.0	0.0	0.0	0.0	0.0	43.5	521.5
1991	82.0	8.0	234.0	94.0	87.5	208.0	60.0	57.0	0.0	0.0	0.0	0.0	69.2	830.5
1992	0.0	16.0	176.0	175.5	143.0	293.5	43.5	121.0	0.0	0.0	0.0	0.1	80.7	968.6
1993	0.0	42.0	33.0	44.5	108.5	80.0	78.0	52.0	0.0	. 1.5	0.0	0.0	36.6	439.5
1994	13.5	210.0	176.0	65.0	76.0	49.5	51.0	39.5	35.0	0.0	0.0	0.0	59.6	715.5
1995	5.0	0.0	50.5	119.5	104.0	251.0	197.0	53.5	0.0	0.0	0.0	0.0	65.0	780.5
1996	3.5	0.0	48.5	85.5	4.0	119.0	224.0	16.0	10.5	1.5	0.0	0.0	42.7	512.5
Avg	7.9	52.6	105.5	99.6	85.9	127.4	95.3	42.8	3.3	0.2	0.6	0.2	51.8	621.0
Max	82.0	210.0	234.0	199.0	143.0	293.5	224.0	121.0	35.0	1.5	6.0	2.0	80.7	968.6
Min	0.0	0.0	22.0	9.0	4.0	40.0	21.0	0.0	0.0	0.0	0.0	0.0	34.2	410.5

Table	C-2-4 ((10) N	Monthly	Rainfa	l at Re	present	ative S	ations		Deh-She	keh -Soos	an Station	UNIT:	on on
YEAR	MEH	ABA	AZA	DEY	BAH	ESF	FAR	ORD	KHO	TIR	MOR	SHAH	Avg	Total
1980	6.3	156.3	180.9	406.1	272.8	181.8	124.1	26.1	1.0	0.0	1.1	0.0	113.0	1356.5
1981	0.0	61.0	67.0	169.5	288.0	257.0	54.0	7.5	18.0	0.0	0.0	0.0	76.8	922.0
1982	48.0	121.0	94.0	247.0	155.0	71.5	66.0	97.0	0.0	0.0	0.0	0.0	75.0	899.5
1983	0.0	0.0	124.0	89.0	56.0	75.0	155.0	18.0	0.0	0.0	0.0	0.0	43.1	517.0
1984	3.0	142.5	85.5	193.5	118.5	39.5	43.5	7.5	0.0	0.0	0.0	0.0	52.8	633.5
1985	0.0	61.0	258.5	45.0	197.0	179.5	149.0	169.0	0.0	0.0	0.0	0.0	88.3	1059.0
1986	0.0	217.5	442.5	110.5	91.0	322.0	110.5	3.0	0.0	0.0	39.0	0.0	111.3	1336.0
1987	11.0	120.0	93.5	442.5	155.0	273.0	25.5	39.5	0.0	0.0	0.0	0.0	96.7	1160.0
1988	0.0	. 79.5	83.0	203.0	35.9	118.0	39.3	31.8	0.0	0.0	0.0	0.0	49.2	590.5
1989	0.0	88.5	302.0	142.2	175.0	81.0	42.5	0.7	0.0	0.0	0.0	0.0	69.3	831.9
1990	0.0	4.2	13.0	222.5	87.0	281.0	210.0	0.0	0.0	0.0	0.0	0.0	68.1	817.7
1991	59.5	3.0	285.5	149.5	172.5	256.0	66.0	67.5	1.0	0.0	0.0	0.0	88.4	1060.5
1992	0.0	59.0	318.0	296.5	281.5	205.0	119.0	280.0	0.0	0.0	0.0	0.0	129.9	1559.0
1993	0.0	165.0	74.0	101.5	63.0	115.0	46.5	41.0	0.0	0.0	0.0	0.0	50.5	606.0
1994	13.5	233.5	298.0	109.5	99.0	93.5	82.5	41.5	7.0	0.0	0.0	0.0	81.5	978.0
1995	4.5	0.0	66.0	208.0	293.0	270.5	194.5	18.0	2.0	0.0	0.0	0.0	88.0	1056.5
1996	0.0	0.0	121.0	182.0	21.5	109.5	259.0	34.0	0.0	0.0	0.0	0.0	60.6	727.0
Avg	8.6	88.9	171.0	195.2	150.7	172.3	105.1	51.9	1.7	0.0	2.4	0.0	79.0	947.7
Max	59.5	233.5	442.5	442.5	293.0	322.0	259.0	280.0	18.0	0.0	39.0	0.0	129.9	1559.0
Min	0.0	0.0	13.0	45.0	21.5	39.5	25.5	0.0	0.0	0.0	0.0	0.0	43.1	517.0
				. —										

Table C-2-5 Monthly Temperature

[32.2. 32.03.00			-	:		•	·	· · · · · · · · · · · · · · · · · · ·			 				
Maximum Monthly Tem Station Name		T	r					r						·	
Station Name	Station			~~~		i nn				,,,,,	022			~~~	
77 11 01 131	Code	Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	oct	NOV	DEC	Average
Karkhaneh-Ghand-Yasuj	341020	1976-78	6.6	10.6	14,3	18.8	26.2	33.3	35.5	34.4	31.1	16.1	14,8	11.7	21.1
YASOYJ	341030	1987-94	8.0	9,5	13.0	19.9	26.0	32.2	34.9	34.1	30.4	24.0	16.9	11.6	21.7
KHAFR		1965-93	14.2	16.5	21.3	26.0	33.6	39.0	41,3	40.1	36.9	31.0	23.5	16.9	28.4
HANNA		1963-93	5.1	8.1	12.1	17.3	22.8	28.5	31.5	30.3	24.8	20.3	14.6	8.6	18.7
LORDJAN	342055	1962-93	9.6	11.5	16.2	21.3	28.1	34.6	37.1	36.2	32.5	26,4	18.9	12.1	23.7
Mehrgerd		1964-93	3.7	5.5	10.4	14.1	21.1	27.5	31,0	28.8	25.3	20.1	13.3	6.8	17.3
ADL	342064	1965-94	4.2	6.4	11.7	17.6	23.1	29.6	32.3	31.9	27.9	21.3	14.4	8.0	. 19.0
Emam-gheis	342067	1963-94	3.7	5.8	10.6	16.2	22.1	28.6	31.9	31.5	27.7	21.3	13.8	6.7	18.3
Edalat-organ	342072	1965-94	3.8	5.6	9.5	14.6	20.6	26.6	30.0	28.2	25.3	19.2	12.0	7.2	16.9
BOROOJEN	342075	1988-94	3.3	4.8	10.0	16.6	21.8	28.3	31.7	30.6	26.2	-20.0	13.3	7.9	17.1
Shahre-kord	342083	1962-94	4.9	7.4	12.7	18.4	24.5	31.3	34.1	33.4	29.7	- 22.8	15.2	8.6	20.3
Naghsh-bahram	342092	1965-93	13.5	16.1	20.1	25.8	33.0	39.5	41.5	40.3	37.6	30.8	21.0	17.2	28.0
Chalshotor	342110	1965-93	1.4	4.2	10.6	16.9	22.8	29.9	32.9	30.8	28.0	21.2	12.8	5.5	18.1
Koohrang	342112	1962-94	0.3	2.7	6.9	12.2	20.0	26.9	30.7	30.0	26.2	19.3	12.2	3.4	15.9
Semirom-olia	342240	1965-93	3.5	6.0	10.6	16.8	21.5	28.1	30.8	29.5	26.2	20.3	13,8	7.0	17.8
IZEH	343069	1966-94	15.1	13.3	17.5	26.4	28.6	38.2	40.0	40.8	37.6	26.3	20.8	16.9	26.8
Mean Monthry Tempera	ture			156		·		1000			4, 11				
Station Name	Station					<u> </u>	1/4							1.0	
	Code	Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	Average
Karkhaneh-Ghand-Yasuj	341020	1976-78	0.8	3.7	7.5	11.4	16.5	21.0	23.2	22.0	18.5	9.6	7.9	4.4	12.2
YASOYJ	341030	1987-94	3.0	4.4	8.0	13.6	18.6	23.5	26.8	26.0	22.0	16.2	10.3	5.9	14.9
KHAFR	341032	1965-93	6.9	9.0	12.8	17.0	23.8	28.2	-30.8	29.7	26.1	20.4	14.0	8.5	18.9
HANNA	341043	1963-93	-2.5	0.6	· 5.3	9.9	14.5	18.9	21.7	20.5	15.5	10.9	6.0	1.1	10.2
LORDJAN	342055	1962-93	3.0	4.9	9.0	13.6	18.7	23.9	25.7	25.8	21.7	16.2	10.5	5.1	14.9
Mehrgerd	342059	1964-93	-2.2	-0.6	4.7	7,9	13.2	17.8	21.1	19.5	15.8	11.4	5.8	0.6	9.6
ADL	342064	1965-94	-2.6	-0.3	4.8	10.2	14.2	18.7	21.8	21.0	16.5	11.1	6.3	1.3	10.2
Emam-gheis	342067	1963-94	-3.1	-1.0	4.1	9.4	14.2	19.1	22.5	21.8	17.4	11.6	5.8	-0.1	10.1
Edalat-organ	342072	1972-95	-3.4	-0.8	3.2	8.7	13.5	18.6	21.9	20.4	17.1	11.1	5.4	0.8	9.7
BOROOJEN	342075	1988-94	2,4	-0.4	4.3	9.7	14.1	18.7	22.1	20.9	16.4	11.1	6.3	1.8	9.8
Shahre-kord	342083	1962-94	-1.5	1.2	6.1	10.6	15.9	20.8	24.1	23.2	18.8	13.2	7.6	2.0	11.9
Naghsh-bahram	342092	1974-93	6.9	9.3	12.4	16.8	22.6	28.3	30.1	30.5	26.7	20.4	13.6	10.4	19.1
Chalshotor	342110	1971-93	-6.1	-3.3	3.1	9.0	13.2	18.5	22.1	20.1	16.3	10.6	4.8	-1.1	8.9
Koohrang	342112	1962-94	-6.6	-3.7	1.5	7.0	13.1	18.0	21.8	21.4	17.2	11.5	5.4	-2.5	8.7
Semirom-olia		1965-93	-2.8	-0.4	5.2	10.4	14.4	20.2	22.8	21.4	18.0	12.6	6.4	1.1	10.8
IZEH	343069	1966-94	8.8	9.6	12.3	19.2	22.8	28.5	30.9	31.4	27.8	19.8	14.9	11.5	19.8
Minimum Monthry Ten	·								. 23.5	2211					12.0
Station Name	Station	1.				. 5							1.0		
	Code	Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	Average
Karkhaneh-Ghand-Yasuj	341020	1976-78	-4.9	-3.2	0.8	4.1	6.8	8.8	10.8	9.6	5.8	3.1	0.9	-2,9	3.3
YASOYJ		1987-94	-2.1	-0.8	3.1	7.3	11.3	14.8	18.7	17.8	13.6	8.4	3.6	0.3	8.0
KHAFR	341032	1964-94	-0.4	1.5	4.3	7.9	14.0	17.5	20.3	19.3	15.2	9.7	4.4	0.2	9.5
HANNA		1962-95	-10.1	-6.9	-1.4	2.4	6.2	9.3	11.8	10.7	6.3	1.6	-2.7	-6.3	1.8
LORDJAN	342055	1962-96	-3.6	-1.8	1.9			13.2	16.8	15.5	10.8	6.0		-1.8	
Mehrgerd		1964-93	-8.1	-6.8	-1.0		5.3	8.1	11.2	10.2	6.3	2.7	-1.8	-5.5	1.8
ADL		1965-94	-9.3	-7.0	-2.2	2.8	5.3	7.7	11.2	10.2	5.0	1.0	-1.8	-5.3	1.5
Emam-gheis		1962-95	-10.0	-7.8	-2.4	2.6	6.2	9.6	13.1	12.1	7.0	2.0	-2.2	-6.9	1.9
Edalat-organ		1972-95	-10.5	-7.2	-3.1	2.8	6.5	10.5	13.8	12.5	9.0	3.0	-1.1	-5.5	2.6
BOROOJEN		1988-96	-8.1	-5.7	-1.5	2.8	6.3	9.0	12.6	11.3	6.6	2.2	-0.8	-4.4	2.5
Shahre-kord		1962-96	-8.0	-5.1	0.5	4.0	7.4	10.3	14.0	12.9	7.9	3.5	-0.8	-4.5	3.5
Naghsh-bahram		1974-93	0.2	2.6	4.8	7.8	12.2	17.0	20.8	20.8	15.7	10.0	6.3	3.7	10.2
Chalshotor		1971-93	-13.5	-10.7	4.4	1.1	3.6	7.1	11.4	9.5	4.6	-0.1	-3.3	-7.8	-0.2
Koohrang		1962-96	-13.5	-10.7	-4.4	1.8	6.1	9.0	12.9	12.7	8.3	3.7	-3.3 -1.3	-7.8	
Semirom-olia		1964-93	-9.2	-6.9	-0.2	3.9	7.3	12.3	14.9	13.3	9.7	4.8	-0.9	-8.3 -4.8	1.4 3.7
IZEH		1964-96	2.6	5.9	7.2	12.0			21.8	21.9	18.1	13.4	9.0	6.1	
******	242003	1704-70	2.0	3.9	1.2	12.0	10.3	18.8	£1.0	41.9	10.1	1.3.4	9.0	1.0	12.8

Table C-2-6 Monthly Evaporation

Station Name	Station Code	Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	TOTAL
YASOUJI	341522	1972-96	43.26	54.26	118.82	131.46	194.03	266.24	310.80	292.83	330.03	160.12	95.69	52.10	2049.66
Dasht Room	341542	1983-96	68.17	61.80	106.02	118.37	175.54	235.84	252.34	258.38	230.28	182.18	119.22	73.00	1881.13
PATAVEH	341544	1978-96	66.64	69.19	89.14	126.63	168.19	249.06	312.90	318.87	298.18	181.21	128.10	85.03	2093.14
HANNA	341547	1975-96	46.40	69.75	132.53	164.85	265.46	362.78	374.12	381.41	320.09	214.51	117.10	68.16	2517.14
Sadeh	341686	1986-96	39.32	42.26	72.73	124.73	179.00	251.21	281.12	301.86	244.55	150.07	83.17	54.65	1824.67
Abchirak	341686	1983-96	145.20	152.14	189.13	263.66	360.73	497.70	548.65	519.07	873.36	350.24	254.02	170.40	4324.30
Dezak	342525	1986-96	3.00	3.00	2.90	3.10	181.58	293.09	340.84	347.73	305.60	192.31	99.76	24.53	1797.44
Mehrgerd	342551	1992-96	3.00	3.00	2.90	42.93	183.26	289.93	338.72	342.77	302.47	190.63	96.68	24.90	1821.19
AHVAZ	342552	1964-86	62.46	73.88	127.80	343.41	311.55	453.85	507.02	471.49	398.97	260.69	136.83	82.92	3230.87
SOLGAN	342553	1980-96	39.60	3.00	. 41.25	105.86	194.68	255.44	312.05	314.16	275.08	192.66	145.99	93.43	1973.20
BOROUJE	342555	1971-94	5.25	0.20	1.93	99.82	176.52	223.94	275.28	255.57	215.08	143.90	85.64	33.70	1518.63
Pol-e-shalu	342578	1979-96	64.33	69.81	101.57	158.44	221.41	394.66	512.86	533.75	460.81	308.87	151.86	79.53	3057.90
MORGHAK	342609	1977-96	53.85	69.36	102.68	162.09	230.42	347.03	428.32	439.77	355.93	234.53	117.48	88.61	2630.07
Monje-Lordjan	342613	1969-96	44.87	50.73	77.17	132.60	189.08	299.95	361.38	343.39	297.78	195.10	108.28	56.05	2156.38
Behesht-abad	342820	1982-96	17.80	82.65	119.80	189.49	295.39	475.09	553.29	531.46	555.68	341.07	187.45	99.62	3448.80
Deh bahrami	343547	1982-96	91.47	91.69	116.85	179.63	285.78	443.43	485.20	483.36	428.75	327.38	208.56	117.02	3259.12
Barand-Gerd	343576	1970-96	45.16	56.60	84.08	118.46	199.70	331.50	391.60	378.26	312.36	211.41	110.19	60.04	2299.37
LALY	343577	1980-96	52.26	58.12	95.62	214.83	423.99	670.26	774.44	761.15	533.09	344.70	183.92	74.86	4187.25
Deh-Sheikeh-Sc	343579	1980-96	36.02	40.69	65.55	97.39	172.05	329.48	443.21	488.67	408.17	254.52	126.69	56.91	2519.35
Godar-e-Landar	343588	1966-89	59.50	63.15	97.74	157.21	280.40	430.98	478.03	457.49	379.52	277.35	156.44	86.28	2924.07
Sad-e-Karun	-	1971-96	61.48	69.41	92.56	145.63	214.36	358.58	483.82	457.76	363.08	230.39	135.23	80.31	2692.62

Table C-2-7 Summary of Discharge Conditions

	Station Name	Station Code	River Name	Year	Catchment Area (km2)	Mean Annual Runoss (m3/s)	Mean Maximum Daily Runoff (m3/s)	Maximum Daily Runoff (m3/s)	Instantaneous Maximum Runoff (m3/s)	Mean Minimum Daily Runoff (m3/s)	Minimum Daily Runoff (m3/s)
	DEHKADESHAHID	34110	MARBOREH	1961-1995	200.0		65.0	91.6		8.5	
	POLTCHOGHONDAR	34112	*,	1963-1995	695.0	The second second second		19.1	20.7	0.5	
	YASOOJ	34114	BOSHAR	1974-1987	803.0	14.7	129.2	186.5	230.0	2.3	·
	SHAHMOKHTAR	34115	• •	1961-1995	1187.0			807.0		2.7	
	DARSHAHI	34117	BOSHAR	1963-1992	1609.0	26.4	210.4	935.0	1090.0	. 6.5	
	BOTARI	34118		1963-1995	885.0	A Company of the Comp	*	607.0	845.0	3.5	
	BOTARI	34119	BOSHAR	1963-1992	2520.0		1254.0	1981.0		7.6	
1.1	BARZBAKHTIARI	-	KHERSAN	1957-1995	8900.0		762.9	1957.0	2776.0	38.4	
1. 4.2.	LORDEJAN		LORDEJAN	1963-1995	351.0		2.8	3.9		1.7	
	TANGZARDALOU	34211	KASGAN	1963-1995	1045.0	4.3	54.2	150.8	286.5	0.7	0.4
10 P	GODARKABK	34212	AGHBOLAGH	1963-1992	588.0	3.8	41.7	67.0	92.2	0.4	0.1
	SHAHREKORD	34214	KHARROOD	1964-1990	495.0	and the second second			-		· ·
	BABAHYEIDAR	34215	SARAB	1964-1986	91.0	1.5	26.8	36.0	36.0	0.1	0
1.5	KOUHRANG_DAM	34217	the state of the s	1964-1974	291.0	15.8	Pagasa		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	. ₂ 1 1 2 -	
	MARBORAN	34218	MARBOREH	1970-1984	34.0	3.3	11.0	16.6	16.6	0.5	0.
	ARMAND	34219	KAROON	1957-1995	9900.0	100.9	572.0	2050.0		35.0	22.
	GHOSHEHPOL	34220	ABETURKY	1964-1995	83.0	3.8	22.4	27.9	32.8	0.9	0.
	POLESHALOO	34222	KAROON	1933-1995	24210.0	320.4	1609.6	3676.0	4564.0	104.4	70.
1.5%	POLEMARI	34224	CHAGHAKHOR	1987-1995	128.0	1.2	3.4	4.8	-	0.1	0.
	KOHESOKHTEH	34226	KIAR	1963-1995	2950.0	7.9	61.9	124.0	137.9	1.2	0.
	DAZAK	34227	BIRGAN	1984-1995	563.0	9.1	136.9	370.0	543.0	1.9	1.
1.5	ZARINDERAKHT	34228	KHANMIRZA	1963-1995	397.0	1.3	23.8	65.0	93.0	0.1	0.0
	OUTSADEKARO	34310	KAROON	1969-1994	25850.0	378.8	1528.4	3763.0	4740.0	124.8	0.
1.	POLELALI	34312	KAROON	1964-1992	31833.0	540.6	2138.5	4060.0	<i>5</i> 680.0	142.5	15.
	GHELOGIR	34314	MORGHAB	1990-1995	480.0	16.0	224.7	413.0	476.0	0.9	0.
	TANG_E_DOULAB	34315	SHOURANDIKA	1990-1995	370.0	6.4	286.0	388.0	512.0	0.1	0.
1.5	POLEKAREHBAS	34230	ABVANAK	1993-1995		16. <i>5</i>	102.0	147.1	- 1	2.1	2.
'.i : : : : : :	GERDBISHEH	34237	GERDBISHEH	1993-1995	124.0	1.3	13.2	23.3	ing state - c	0.6	0.4
	POLBARDEGAN	34241	GHARAHGHACH	1993-1995	-	0.2	0.8	1.3	-	0.0	0.0
	TANGEKHARAJI	34223	ABJAHANBIN	1993-1995		11.9	62.2	66.2	. Tarangan ang kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabup	0.7	0.
	KERIK	34116	KERIK	1963-1992	128.0	2.7	11.2	18.7	43.0	1.0	0.
	PATAVEH	34120	GARMROOD	1963-1995	2800.0	48.3	428.4	863.0	1312.0	12.7	2.
	SOLEGAN	34213	SOLEGAN	1963-1997	1992.0	10.2	214.9	1504.0	1942.0	7.5	0.3
	BEHESHTABAD	34216	BEHESHTABAD	1963-1992	3825.0	22.2	167.1	242.1	282.1	3.1	1.
	MORGHAK	34221	BAZOFT	1963-1995	2355.0	71.5	696.7	1817.0	2284.0	16.3	13.
	TANGEHDARKESH	34225	CHONGHAN	1963-1995	910.0	9.0	86.6	143.9	182.6	0.3	0.
	GODARLANDAR	34311	KAROON	1958-1993	27630.0	320.4	1788.5	3754.0	5134.0	129.6	61.
11 12	SIAHKALK	34242	GARMAB	1994-1995	11.5	1.0	7.8			· · · -	A TORREST
	KHAKDANEH		MARBOREH	1964-1988	801.0	10.2	129.3	203.4	398.0	4.1	3.
	KATA	34113	MARBOREH	1961-1995	4015.0	38.1	226.5	670.0	810.0	11.6	8.6

												;		
т	able C	-2-8(1)	Mont	hly Disc	harge a	t Repres	sentative	Station	Q		Botari Sta	ation	Unit : CM	18
	YEAR	10	11	12	1	2	3	4	5	- 6	7	8	9	Α
	1963							11.7	5.9	2.3	2.1	2.7	3.0	Coppension and a second
	1964	3.8	2.3	3.6	6.0	4.9	12.4	19.2	12.9	8.4	7.1	5.3	4.5	j
	1965	3.8	2.5	3.5	6.0	25.6	29.1	11.7	6.5	4.7	4.6	3.3	3.2	8
	1966	4.2	3.3	4.1	6.2	8.2	14.7	14.1	14.2	8.2	6.0	4.2	4.2	7
	1967	3.7	- 2.4	3.5	6.4	12.0	20.3	24.1	17.6	10.1	7.7	5.5	5.0	9
	1968	4.2	3,9	12.0	7.5	9.8	32.5	50.4	30.9	17.2	11.7	8.5	7.2	10
. 1	1969	4.7	4.0	5.9	8.6	48.5	32.9	11.3	7.3	5.4	4.0	3.9	4.1	11
	1970	6.5	7.7	7.6	9.0	10.9	14.9	21.3	14.3	7.1	4.1	4.0	4.0	. 9
	1971	4.1	4.0	10.0	7.3	8.8	14.0	101.2	28.9	16.0	13.1	10.0	8.8	- 18
	1972	4.1	5.6	12.4	13.5	15.4	29.0	17.0	9.7	6.3	5.3	5.8	4.4	10
	1973	6.9	7.1	7.7	6.8	9.3	21.1	36.1	19.2	10.7	7.9	5.9	4.5	1
	1974	4.5	2.1	3.9	5.0	7.3	44.5	18.2	29.5	15.9	19.8	7.8	5.9	13
	1975	4.7	4.7	11.0	22.0	11.7	41.7	64.8	42.0	23.3	13.6	9.6	7.7	2
	1976	5.4	5.5	8.1	16.5	64.0	53.6	27.2	14.7	7.9	5.7	5.6	3.9	18
÷	1977	7.1	6.5	5.9	10.8	8.7	32.8	29.6	14.4	10.1	7.0	5.0	3.8	1
	1978	4.2	20.8	24.9	14.2	36.4	33.8	43.8	16.7	11.3	8.8	6.5	5.6	- 18
	1979	5.0	5.3	30.4	15.0	34.9	28.7	59.7	31.6	17.1	9.3	· 7.6	6.2	20
٠.	1980	5.5	4.2	12.4	13.5	82,3	77.8	35.8	20.4	8.7	3.7	5.6	6.1	2
	1981	5.8	4.8	5.4	9.3	29.6	42.1	66.8	24.1	13.6	8.3	8.9	8.2	-, 18
	1982	5.7	4.5	4.2	3.6	10.9	58.1	45.0	27.0	8.6	6.3	5.4	5.4	1.
1	1983	3.9	9.3	9.2	16.7	15.6	33.2	39.2	10.7	5.8	4.2	4.0	3.6	12
-	1984	4.1	3.7	3.3	3.5	5.0	8.4	14.2	7.2	5.4	4.4	3.6	2.8	, 5
	1985	3.7	6.6	7.2	12.6	36.0	14.0	46.4	34.9	14.0	7.9	6.6	6.3	10
	1986	3.5	3.2	12.1	12.1	8.3	17.0	43.5	22.3	12.1	8.9	8.0	6.8	13
	1987	4.7	4.4	45.9	23.1	19.3	53.2	25.6	19.8	10.5	7.1	5.9	5.0	18
	1988	5.4	5.6	5.2	16.1	36.7	62.7	29.1	14.5	6.5	5.7	4.3	4.0	··· 16
,	1989	4.6	4.6	5.0	6.1	6.4	41.6	26.0	15.3	8.8	6.9	6.0	5.3	. 11
	1990	4.2	8.0	37.9	16.5	47.3	36.8	34.8	11.7	8.5	6.6	5.0	4.9	18
	1991	5.3	4.9	5.3	11.8	32.5	55.9	72.1	43.8	20.6	11.9	8.5	5.9	23
	1992	5.6	4.7	48.5	33.6	21.0	74.8	75.7	47.4	26.4	18.1	11.5	9.8	31
	1993	7.0	6.1	10.1	41.5	53.8	134.0	19.9	8.4	6.5	4.6	4.0	3.8	25
	1994	8.6	8.6	8.5	8.5	9.5	21.5	51.2	22.8	14.1	10.8	8.7	7.6	15
	1995	3.9	28.5	64.3	43.5	81.9	48.9	61.8	50.7	29.6	21.0	9.1	5.9	3
	1996	8.4	7.4	7.8	16.1	29.7	80.1		<u> </u>			· · · · · · · · · · · · · · · · · · ·		
	Avg	5.1	6.3	13.5	13.6	25.5	39.9	37.8	21.1	11.6	8.3	6.2	5.4	. 16
	Max	8.6	28.5	64.3	43.5	82.3	134.0	101.2	50.7	29.6	21.0	11.5	9.8	37
	Min	3.5	2.1	3.3	3.5	4.9	8.4	11.3	5.9	2.3	2.1	2.7	2.8	. 5

YEAR	C-2-8(2	11	12	1	2	3	Station 4	5	6	7	tiari Station 8	9	
1957	10	11	12	1			133.7	88.8	72.3	59.0	46.6	40.6	Ave
1958	57.7	56.6	99.1	77.1	81.7	112.6	261.7	119.7	89.4	68.1	50.6	41.7	92.6
1959	37.7	36.0	56.3	72.2 45.9	69.6	112.6	109.7			47.3	and the second second		57.0
1960	37.2			38.3		81.2	109.7	83.5 162.4	59.7	47.3 73.7	34.1	30.4	
		36.0	36.0		40.2	54.6		and the second second	105.2		53.4	42.9	72.5
1961 1962	29.8	29.1	35.4	35.7	106.2	161.5	79.4	167.7	93.7	62.7	44.7	37.5	73.6
	38.9	37.0	50.5	57.3	92.1	88.8	48.9	94.8	68.9	45.9	32.4	27.7	56.9
1963	33.9	34.6	34.9	29.2	33.8	44.9	123.1	68.5	54.3	36.4	27.9	24.9	45.5
1964	27.0	27.0	28.6	27.5	30.5	84.4	174.6	133.7	102.4	70.5	55.1	42.0	66.9
1965	24.8	23.8	25.9	27.5	145.5	169.1	126.2	88.2	69.6	45.3	33.8	30.2	67.5
1966	34.9	37.9	35.1	35.3	78.5	118.3	139.7	159.8	100.3	68.1	46.0	34.6	74.0
1967	31.4	31.4	33,6	65.2	71.3	153.7	223.6	172.3	118.6	83.0	56.7	43.0	90.3
1968	36.6	38.1	75.4	47.8	51.0	171.5	378.6	244,2	146.6	113.0	83.1	64.3	120.
1969	38.7	41.0	51.3	61.6	433.2	211.2	95.1	77.2	62.5	45.1	35.3	30.6	98.0
1970	54.2	62.2	51.2	57.3	66.6	88.4	82.0	109.6	70.5	49.4	40.5	36.0	64.0
1971	31.5	31.5	31.5	42.0	39.0	73.3	526.6	297.2	186.6	125.5	99.9	66.0	129.
1972	33.6	43.8	53,3	57.3	66.4	159.3	132.7	87.0	67.6	52.0	43.6	25.6	68.
1973	55.3	50.9	56.7	49.7	57.2	160.7	269.7	166.6	116.5	84.3	58.5	45.8	97.
1974	34.0	32.3	32.5	37.0	51.7	259.7	237.5	213.8	150.9	105.1	76.1	57.5	107.
1975	44.3	41.9	69.7	105.7	84.8	212.8	492.7	384.3	251.9	179.2	150.0	94.5	176.
1976	50.5	53.3	65.8	128.1	487.1	357,4	152.8	116.2	93.3	74.9	61.1	52.1	141.
1977	75.7	73.3	71.4	80.8	84.4	134.7	265.9	191.6	152.9	115.4	82.6	61.1	115.
1978	51.0	123.8	127.2	505.3	219.5	279.7	141.1	135.1	115.5	93.6	69.2	55.7	159.
1979	54.9	58.6	131.1	92.7	186.1	169.3	466.0	273.2	179.9	120.8	87.2	71.1	157.
1980	53.5	53.1	97.2	95.1	288.8	402.0	255.3	198.9	129.3	92.2	67.2	55.2	149.
1981	64.4	65.0	67.6	82.7	162.8	211.4	337.3	189.6	123.6	82.5	56.6	45.6	124.
1982	54.9	53.5	61.2	58.4	90.4	216.0	222.7	227.4	135.4	94.2	71.3	57.0	111.
1983	46.6	94.8	73.1	113.0	117.1	168.8	256.9	112.2	87.0	61.9	45.9	38.9	101.
1984	51.5	49.8	50.7	51.8	56.8	66.3	146.4	99.2	91.2	76.0	61.9	54.7	71.4
1985	36.5	49.0	55.1	86.9	205.2	113.1	107.4	64.7	83.0	79.5	54.8	52.2	82
1986	59.6	76.7	105.0	149.4	278.5	304.0	315.0	233.2	155.4	104.3	78.4	62.5	160.
1987	51.8	59.3	284.9	197.4	135.4	342.6	244.0	190.0	128.3	91.1	66.5	55.0	153.
1988	59.3	63.7	57.2	109.7	148.2	433.3	181.6	132.1	98.6	63.9	56.1	45.1	120,
1989	46.4	51.4	54.1	65.0	61.1	183.8	191.0	141.8	107.5	85.4	66.1	54.0	92.
1990	38.4	77.8	259.7	132.7	218.5	203.0	275.6	143.0	95.9	66.2	50.8	43.3	133.
1991	47.9	47.1	47.5	65.4	167.2	277.1	456.0	407.0	218.0	144.0	106.0	72.7	171.
1992	56.2	45.9	284.0	188.0	151.0	401.0	464.0	386.0	248.0	167.0	125.0	96.5	217.
1993	61.3	63.7	94.2	244.0	284.0	682.0	106.6	86.6	62.2	46.3	39.2	33.1	150.
1994	82.8	77.3	71.4	62.7	76.0	89.9	236.9	195.2	148.5	111.2	77.2	59.3	107.
1995	33.2	122.2	334.5	189.9	322.6	228.0	405.5	271.8	159.9	108.3	77.7	61.2	192.
1996	54.8	55.9	59.5	79.4	125.9	317.2		<u> </u>				·	_
Avg	46.5	54.0	84.9	94.1	140.1	204.8	232.2	172.2	118.0	84.4	63.3	49.8	112.
Max	82.8	123.8	334.5	505.3	487.1	682.0	526.6	407.0	251.9	179.2	150.0	96.5	217.
Min	24.8	23.8	25.9	27.5	30.5	44.9	48.9	64.7	54.3	36.4	27.9	24.9	45.

the same of the sa	C-2-8(3)		thly Disc	harge at	Repre	sentative	Station	S		Lordejan :	Station	UNIT : C	
YEAR	10	11	12	1	- 2	3	4	5	б	7	8	9	Avg
1963	100						1.7	2.2	2.1	1.9	2.0	1.9	-
1964	1.5	2.0	2.0	1.9	2.3	1.9	2.0	2.4	2.3	2.2	2.3	2.1	2.1
1965	1.5	2.0	2.0	1.9	2.1	2.0	1.7	2.3	2.2	2.0	2.1	2.0	2.0
1966	1.7	2.0	2.0	1.9	2.1	1.9	1.8	2.4	2.3	2.2	2.2	2.0	2.0
1967	1.7	2.0	2,0	1.9	2.2	2.0	2.3	2.4	2.4	2.3	2.3	2.1	2.1
1968	1.8	2.0	2,0	1.9	2.2	2.0	2.9	2.5	2.5	2.6	2.5	2.3	2.3
1969	1.8	1.9	2.0	1.9	1.9	2.1	1.5	2.2	2.1	2.0	2.1	2.0	2.0
1970	2.1	. 1.9	2.0	1.9	2.2	1.9	1.4	2.3	2.2	2.0	2.1	2.0	2.0
1971	1.7	2.0	2.0	1.9	2.2	1.8	3.4	2.6	2.7	2.7	2.7	2.4	2.3
1972	1.7	1.9	2.0	1.9	2.2	2.0	1.8	2.3	2.2	2.0	2.1	1.9	2.0
1973	2.1	1.9	2.0	1.9	2.2	2.0	2.5	2.4	2.4	2.3	2.3	2.1	2.2
1974	1.7	2.0	2.0	1.9	2.2	2.2	2.3	2.5	2.5	2.5	2.4	2.3	2.2
1975	1.9	1.9	2.0	2.0	2.1	2.1	3.3	2.7	2.9	3.2	3.1	2.7	2.5
1976	2.0	1.9	2.0	2.0	1.9	2.4	1.9	2.3	2.3	2.2	2,3	2.2	2.1
1977	2.5	1.9	2.0	1.9	2.1	2.0	8.2	3.1	1.4	0.9	0.9	0.5	2.3
1978	0.1	0.5	1.2	2.7	4.8	7.0	1.8	2.4	2.4	2.4	2.4	2.3	2.5
1979	2.1	1.9	1.9	1.9	2.0	2.0	3.0	2.6	2.3	2.3	2.2	2.2	2.2
1980	2.1	1.9	1.8	1.7	2.2	2.6	2.9	3.0	2.8	2.6	3.6	2.6	2.5
1981	2.2	2.3	2.3	2.4	2.5	2.6	2.5	2.5	2.3	2.3	2.6	2.3	2.4
1982	2.4	2.0	2.1	2.3	2.3	2,3	2.4	2.3	2.4	2.3	2.2	2.0	2.2
1983	2.0	1.9	2.0	2.1	2.2	2.5	2.7	2.3	2.2	2.2	2.0	2.0	2.2
1984	1.6	1.6	1.8	1.8	2.1	2.2	1.9	2.0	2.0	2.0	1.6	1.8	1.9
1985	1.8	1.5	1.7	1.6	1.8	1.8	1.5	2.4	2.6	2.4	2.2	2.3	2.0
1986	1.8	1.3	1.1	1.2	1.4	1.2	2.9	2.8	2.5	2.5	2.5	2.5	2.0
1987	2.1	1.7	1.8	2.0	2.2	2.7	2.0	2.0	2.4	2.3	2.2	2.1	2.1
1988	2.5	2.0	1.7	1.7	1.9	2.0	2.1	2.2	2.2	2.1	2.1	2.0	2.0
1989	2.2	2.0	2.0	2.2	2.1	1.9	2.2	2.6	2.4	2.4	2.2	2.2	2.2
1990	1.6	1.6	1.8	2.0	1.9	2.0	2.3	2.5	2.5	2.4	2.4	2.3	2.1
1991	2.2	2.2	2.1	1.9	1.9	1.9	2.8	2.6	2.4	2.6	2.7	2.7	2.3
1992	2.1	1.9	1.7	1.9	2.2	2.5	3.6	2.7	3.4	3.5	3.0	2.7	2.6
1993	2.4	2.7	3.0	2.7	2.7	3.6	2.4	2.5	2.6	2.6	2.7	2.4	2.7
1994	2.7	2.3	2.6	2.4	2.2	2.3	3.2	3.2	3.0	3.0	2.8	2.9	2.7
1995	2.6	2.7	2.9	3.0	3.0	3.1	2.4	3.0	3.0	2.7	2.4	2,2	2.7
1996	3.0	2.4	2.4	2.2	2.6	2.5	100						
Avg	2.0	1.9	2.0	2.0	2.2	2.3	2.5	2.5	2.4	2.3	2.3	2.2	2.2
Max	3.0	2.7	3.0	3.0	4.8	7.0	8.2	3.2	3.4	3.5	3.6	2.9	2.7
Min	0.1	0.5	1.1	1.2	1.4	1.2	1.4	2.0	1.4	0.9	0.9	0.5	1.9

Table (C-2-8(4)	Montl	ıly Disc	harge at	Repres	sentativ 3	e Station	1S 5	6	Armand S	tation 8	UNIT:C	
1957		11	12	1	<u>Z</u>		145.1	134.5	89.6	52.5	43.4	37.1	Avg
1958	50.8	61.2	67.6	66.2	80.3	104.6	328,3	167.5	101.7	32.3 75.7	53.6	37.1 44.7	100.2
1959	33.5	36.2	73.9	46.8	57.6	71.8	114.1	145.3	84.8	56.0	45.3	37.3	66.9
1960	39.8	40.4	45.0	51.9	51.5	54.9	127.6	279.7	131.6	81.3	56.2	47.2	83.9
1961	35.0	37.8	41.1	43.9	67.7	75.1	116.2	222.6	125.5	69.8	43.5	34,0	76.0
1962	27.9	27.7	46.3	69.8	147.9	86.2	95.3	132.8	105.7	68.1	38.4	30.3	73.0
1963	30.9	41.1	38.0	34.7	40.0	75.0	148.5	104.2	73.7	36.3	28.0	24.0	56.2
1964	27.7	27.8	30.3	30.7	33.0	73.1	167.3	173.1	125.5	68.1	38.4	30.3	68.8
1965	22.5	22.7	29.5	29.0	66.6	112.3	152.7	163.4	111.0	61.9	42.4	34.0	70.7
1966	29.5	53.4	41.4	34.5	95.9	121.8	110.0	131.1	97.5	52.0	36.2	29.9	69.4
1967	35.1	40.8	34.7	42.4	50.3	97.3	171.7	201.5	143.9	87.4	52.1	40.5	83.1
1968	26.7	31.9	42.1	39.2	40.3	94.4	453.3	371.7	215.1	148.1	105.3	71.8	136.7
1969	32.9	41.1	67.8	67.3	178.4	241.0	145.5	128,6	83.8	50.5	39.8	33.1	92.5
1970	53.2	67.8	53.5	57.9	64.8	87.9	156.4	216.2	110.2	58.9	45.0	38.3	84.2
1971	29.5	31.7	43.9	41.0	43.4	100.0	330.3	288.7	234.2	133.2	80.7	55.7	117.7
1972	35.4	40.1	51.5	48.3	50.2	- 111.7	187.1	157.6	105.6	68.5	53.4	42.8	79.4
1973	49.6	52.2	68.6	54.2	64.9	193.3	227.2	190.8	142.7	76.7	53.2	43.0	101.4
1974	37.8	38.5	39.7	39.7	42.8	165.7	222.3	256.3	155.7	94.0	61.3	48.7	100.2
1975	39.2	41.4	60.8	83.5	68.0	146.4	361.0	550.0	368.2	213.0	145.0	85.5	180.2
1976	45.4	50.2	62.5	63.3	230.0	0.081	161.0	147.8	100.7	63.7	45.5	36.6	98.9
1977	70.4	84.6	76.1	84.4	78.8	129.8	218.1	183.1	134.6	89.3	71.3	52.1	106.0
1978	34.6	122.3	100.2	155.0	111.6	158.5	224.3	151.6	112.4	66.3	48.7	43.3	110.7
1979	45.1	46.3	97.1	64.0	116.7	130.2	558.1	341.6	183.6	120.4	78.5	54.8	153.0
1980	38.0	40.1	60.1	58.3	101.0	213.8	248.6	247.1	160.2	95.4	64.3	48.9	114.7
1981	47.4	59.2	68.8	76.3	111.2	140.1	250.8	241.7	132.6	73.8	52.6	43.9	108.2
1982	44.4	46.9	62.5	57.6	64.7	107.3	198.0	304.2	173.2	97.0	60.8	47.2	105.3
1983	48.0	87.2	64.3	87.4	78.8	114.8	259.9	169.7	98.0	58.6	44.1	37.5	95.7
1984	45.3	48.0	51.7	52.5	57.9	73.5	178.9	107.1	80.6	55.0	42.2	36.1	69.1
1985	37.1	46.1	50.2	65.7	101.5	83.3	240.2	314.3	139.4	81.4	58.0	49.7	105.6
1986	34.5	36.9	45.0	54.9	51.6	76.8	276.8	337.7	150.4	88.3	67.4	51.9	106.0
1987	45.4	51.9	103.2	94.2	118.7	244.5	236.3	208.0	116.0	74.6	56.1	46.9	116.3
1988	52.2	99.8	63.7	125.6	104.9	318.7	185.8	183.5	108.7	65.6	47.6	40.3	116.4
1989	44.7	59.3	62.9	75.3	67.2	151.5	199.7	159.8	90.1	63.6	48.6	43.2	88.8
1990	37.3	62.6	116.1	83.0	98.8	184.9	253.3	130,2	76.0	51.5	42.2	39.6	97.9
1991	39.1	41.6	43.7	49.9	71.0	120.3	298.0	382.0	215.0	113.0	74.0	58,8	125.5
1992	43.5	41.9	135.0	86.9	74.0	182.0	356.0	480.0	284.0	149.0	105.0	78.6	168.0
1993	54.9	55.1	67.8	123.0	124.0	403.0	132.5	112.5	69.7	49.5	40.8	36.2	105.7
1994	67.8	82.0	83.1	84.4	108.5	97.7	153.3	166.2	120.9	68.7	52.9	43.3	94.1
1995	38.0	88.9	240.5	112.0	130.9	130.0	285.5	259.9	131.4	76.7	57.0	45.9	133.
1996	43.1	45.5	66.1	49.9 66.3	74.5	152.5 138.6	222.4	221.6	125 5	80.9	56.9	44.7	101
Avg	40.8 70.4	52.1 122.3	240.5	155.0	85.1 230.0	403.0	222.4 558.1	221.6 550.0	135.5 368.2	213.0	36.9 145.0	44.7 85.5	101.6 180.2
Max													

	. :													
		~ ~ ~ ~							:					
-		C-2-8(5)				Repres					Poleshaloo		UNIT : C	
-	YEAR 1933	10	11	12	1	2	3	834.0	5 734.0	6 482.0	7 310.0	8 229.0	9 187.0	A
:	1934	178.0	213.0	330.0	354.0	469.0	579.0	689.0	606.0	400.0	259.0	193.0	158.0	369
	1935	151.0	180.0	276.0	295.0	390.0	479.0	671.0	590.0	390.0	253.0	188.0	155.0	334
	1936	148.0	176.0	269.0	288.0	300.0	467.0	625.0	550.0	364.0	237.0	177.0	146.0	31:
:	1937	139.0	165.0	252.0	270.0	355.0	436.0	980.0	861.0	564.0	361.0	266.0	216.0	40
	1938	206.0	247.0	385.0	413,0	549.0	678.0	853.0	750.0	492.0	316.0	234.0	191.0	44
	1939	102.0	218.0	337.0	362,0	480.0	592.0	799.0	702.0	462.0	298.0	220.0	180.0	39
N.	1940	172.0	205.0	317.0	340.0	450.0	594.0	506.0	446.0	296.0	194.0	145.0	120,0	31:
	1941	114.0	135.0	206.0	219.0	299.0	354.0	604.0	532.0	354.0	232.0	174.0	145.0	28
	1942	138.0	163.0	246.0	263.0	345.0	422.0	798.0	702.0	462.0	298.0	222.0	182.0	35
	1943	173.0	206.0 129.0	318.0 194.0	341.0	450.0	554.0	473.0	417.0	278.0 377.0	182.0	138.0	114.0	30.
	1944 1945	110.0 145.0	172.0	261.0	206.0 279.0	270.0 367.0	331.0 451.0	646.0 963.0	570.0 846.0	554.0	246.0 355.0	184.0 262.0	151.0 213.0	284 403
	1946	203.0	243.0	378.0	406.0	540.0	667.0	434.0	383.0	256.0	170.0	129.0	108.0	320
. '	1947	104.0	121.0	180.0	192,0	250.0	305.0	366.0	324.0	218.0	146.0	112.0	94.0	20
	1948	91.0	153.0	154.0	164.0	213.0	259.0	1006.0	883.0	578.0	370.0	272.0	221.0	36
:	1949	211.0	253.0	394.0	424.0	563.0	696.0	805.0	708.0	465.0	300.0	222.0	182.0	435
.*	1950	173.0	206.0	319.0	342.0	453.0	558.0	359.0	326.0	250.0	181.0	133.0	120.0	28
	1951	152.0	146.0	193.0	253.0	284.0	408.0	453.0	571.0	343.0	222.0	157.0	133.0	27
	1952	111.0	143.0	155.0	224.0	339.0	403.0	638.0	571.0	382.0	269.0	197.0	149.0	29
1:	1953	123.0	124.0	142.0	399.0	382.0	761.0	1178.0	797.0	469.0	322.0	227.0	173.0	42
	1954	129.0	172.0	497.0	386.0	327.0	622.0	581.0	538.0	377.0	256.0 228.0	187.0	147.0	35
7	1955 1956	147.0 132.0	139.0 116.0	662.0 161.0	361.0 174.0	298.0 220.0	362.0 586.0	443.0 611.0	474.0 776.0	346.0 526.0	316.0	168.0 228.0	131.0 165.0	31: 33
٠.	1957	114.0	110.0	118.0	193,0	154.0	389.0	390.0	290.0	212.0	149.0	117.0	97.0	19
٠.	1958	142.0	165.0	232.0	183.0	201.0	332.0	600.4	378.4	248.3	180.2	125.5	98.3	. 240
٠.	1959	89.8	90.2	171.1	130.7	171.3	221.6	337.4	340.3	219.9	136.7	49.5	79.7	169
	1960	90.1	86.0	90.0	114.8	123.5	161.3	409.0	490,0	310.0	197.0	132.0	100.0	19
٠.,	1961	74.0	.: 81.0	85.0	101.0	277.0	306.0	282.4	466.3	282.0	187.8	132.6	112.2	. 19
	1962	90.1	87.0	132.7	147.0	277.4	276.5	266.7	354.8	272.2	181.7	121.7	100.2	19
	1963	103.2	111.1	118.8	117.3	152.9	224.8	362.9	254.3	179.3	110.3	86.7	78.9	15
	1964 1965	84.9 76.9	80.1 76.2	89.3 96.7	85.7 111.7	102.9 327.0	244.9 415.9	451.2 396.4	415.0 350.3	293.8 253.0	174.4 157.1	120.1 107.9	96.0 87.1	18 20
11	1966	89.6	145.0	104.7	101.9	271.0	349.7	350.4	410.5	275.8	174.6	118.2	98.4	20
	1967	92.0	104.7	95.0	153.4	175.2	356.2	544.5	544.3	361.5	243.3	161.1	118.4	24:
	1968	88.6	98.4	180.5	133.0	147.0	397.3	1230.0	884.0	487.0	342.1	269.7	196.4	37
	1969	103.5	126.7	200.4	195.0	1072.0	696.9	388.4	314.2	217.0	149.7	116.8	99.9	300
	1970	161.3	176.0	155.3	172.8	199.8	278.3	457.1	447.2	273.7	169.2	119.2	99.7	22
	1971	95.2	95.7	138.3	123.6	136.3	274.2	1140.0	773.4	555.9	351.9	252.7	162.0	34
	1972	93.5	110.8	170.3	155.9	182.0	383.5	469.0	343.6	246.0	171.0	130.6	105.0	21.
	1973 1974	149.0 98.0	160.0 99.2	182.5 106.9	150.9 113.1	192.0 130.0	539.0 524.0	661.0 550.3	474.4 524.2	335.2 345.3	230.7 237.4	150.5 164.4	127.4 135.1	275 25
-	1975	115.2	110.8	186.6	284.9	213.9	469.1	1015.0	1135.0	818.0	495.0	354.0	237.0	45
	1976	119.0	130.0	154.0	302.0	896.0	633.0	450.4	392.0	268.8	180.9	138.1	116.2	31
	1977	192.5	237.6	196.5	230.7	232.6	404.5	615.6	481.1	342.4	239.3	171.7	123.9	28
	1978	115.1	281.0	395.8	762.5	455.1	556.0	644.6	422.2	331.5	208.5	158.7	132.1	. 37
	1979	129.6	142.2	359.1	249.7	444.0	410.7	1587.0	1005.0	576.0	389.0	277.0	194.0	48
٠.	1980	124.9	128.0	187.0	193.0	589.0	922.0	761.0	629.0	402.0	291.0	200.0	153.0	38
	1981	163.5	172.0	193.0	275.0	439.0	543.0	890.0	652.4	391.7	227.1	166.2	130.8	35
: '	1982	144.7	152.9	195.4	190.3	249.2	460.0	665.3	884.1	448.3	265.5	179.9	137.6	33
	1983 1984	144.2 122.3	287.7 120.8	216.8 138.2	302.6 138.2	302.4 165.3	424.7 225.5	757.3 536.8	390.9 329.7	251.8 245.8	157.9 169.0	118.2 119.0	100.8	28 20
	1985	94.2	154.4	174.5	236.5	438.9	299.9	828.0	975.0	479.0	276.0	196.0	160.0	35
	1986	93.9	104.0	231.0	217.0	204.0	310.0	944.5	968.0	540.9	317.0	239.4	166.1	36
	1987	135.4	181.0	584.0	392.0	384.1	951.0	730.0	618.0	376.0	252.0	202.0	168.0	41
٠,	1988	164.0	273.0	193.0	438.0	408.0	1102.0	657.0	570.0	358.0	224.0	181.0	138.0	39
	1989	154.0	180.0	191.0	263.0	215.0	555.0	585.0	475.0	327.0	246.0	180.0	135.0	29
	1990		226.0	568.0	334.0	452.0		882.0	452.0	275.0	185.0	138.0	121.0	36
	1991	122.0	126.0	128.0	169.0	317.0	577.0	987.0	1078.0	659.0	391.0	269.0	203.0	41
	1992	147.0	124.0	558.0	359.0	303.0	707.0	1232.0	1302.0	784.0	473.0	365.0	249.0	550
	1993 1994	182.0 206.7	177.0 259.3	261.0 242.3	566.0 260.1	602.0 345.2	1497.0 340.4	415.7 550.7	354.9 573.8	217.0	159.0 259.1	124.4 174.1	109.0 158.6	385 315
	1994	106.7	417.8	896.2	489.7	593.1	527.8	1015.6	373.8 838.1	509.6	301.0	207.1	158.6	50
٠.	1995	142.5	141.6	142.5	181.4	283.8	713.1	1013.0		202.0	501.0	207.1	150.4	. 50
	Avg	130.7	161.2	245.8	258.3	340.0	494.3	672.3	591.1	382.0	247.2	179.4	142.3	31
	Max	211.0	417.8	896.2	762.5	1072.0	1497.0	1587.0	1302.0	818.0	495.0	365.0	249.0	550
_	Min	74.0	76.2	85.0	85.7	102.9	161.3	266.7	254.3	179.3	110.3	49.5	78.9	15
	+.7					1- 1		·						

			•									. •	
e de la companya de La companya de la co			1							100			
Pra . 1. 4	~ ~ ~ ~ ~				. *-		~	4				tat kalanda	
	C-2-8(6	 		charge a		esentativ	e Station			Dazak Sta	ation	UNIT : C	-
YEAR	10	11	12	1	2	3	4	5	6	7	8	9	٨
1984					1.74		23.2	14,0	14.9	10.3	5.7	3.4	· · · -
1985	2.4	3.5	3.8	4.1	6.8	7.8	19.1	35.2	10.0	5,6	4.0	4.3	. 8.
1986	2.6	2.5	4.0	3.1	3.2	4.4	28.9	73.8	16.9	6.3	4.7	4.7	12
1987	3.7	4.9	8.1	5.5	6.0	18.3	17.7	20.0	9.7	6.8	4.8	3.1	9.
1988	4.9	27.3	6.2	12.8	6.7	20.0	13.8	21.4	8.5	5.7	3.8	2.4	. 11
1989	3.0	4.7	4.3	4.5	3.9	8.8	13.5	13.2	6.4	5.9	4.4	2.2	6.
1990	2.7	6.8	7.4	3.9	3.6	12.5	17.3	9.7	4.8	3.2	2.6	1.9	6.
1991	2.2	2.4	2.1	2.3	3.3	8.7	18.1	35.4	22.1	9.0	5.9	3.3	9.
1992	2.0	2.2	10.2	5.3	3.2	6.6	27.7	45.0	26.0	21.1	8.3	4.7	13
1993	3.4	2.7	3.5	7.2	6.1	22.6	9.7	9.7	6.3	4.4	2.7	2.0	6.
1994	3.7	6.4	5.0	5.0	8.3	6.9	11.3	13.0	9.1	5.2	3.3	2.5	6.0
1995	2.5	9.8	19.0	5.8	5.4	5.8	21.8	29.6	12.9	6.0	2.8	2.2	10.
1996	2.5	2.8	2.1	2.0	3.4	9.4	$(x_1, \dots, x_n) \in \mathbb{R}^{n \times d}$			11 A. 11	400		
Avg	3.0	6.3	6.3	5.1	5.0	11.0	18.5	26.7	12.3	7.5	4.4	3.0	9.2
Max	4.9	27.3	19.0	12.8	8.3	22.6	28.9	73.8	26.0	21.1	8.3	4.7	13.
Min	2.0	2.2	2.1	2.0	3.2	4.4	9.7	9.7	4.8	3.2	2.6	1.9	6.2

1993	3.4	2.7	3.5	. 7.2	6.1	22.6	9.7	9.7	6.3	4.4	2.7	2,0	6.7
1994	3.7	6.4	5.0	5.0	8.3	6.9	11.3	13.0	9.1	5.2	3.3	2.5	6.6
995	2.5	9.8	19.0	5.8	5.4	5.8	21.8	29.6	12.9	6.0	2.8	2.2	10.3
1996	2.5	2.8	2.1	2.0	3.4	9.4	S. 4 L. L.					- 77	
Avg	3.0	6.3	6.3	5.1	5.0	11.0	18.5	26.7	12,3	7.5	4.4	3.0	9.2
Max	4.9	27.3	19.0	12.8	8.3	22.6	28.9	73.8	26.0	21.1	8.3	4.7	13.5
Min	2.0	2.2			3.2	4.4		9.7			2.47		
IVIIII	2.0	2.2	2.1	2.0	3.4	4.4	9.7	9.7	4.8	3.2	2.6	1.9	6.2
		100											
3 - 41 -	, Yang jar	ing the same	Mark Branch		1000		E 4 / 4 / 1		arta ja 1			. 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	
able C	-2-8(7)	Montl	aly Disc	harge at	t Repres	sentative	 Station 	IS .		Solegan S	Station	UNIT : C	MS
YEAR	10	11	12	1	2	3	4	5	6	7	8	9	Ave
1963							16.9	4.4	2.0	1.6	0.3	0.6	
1964	1.3	3.2	4.3	3.8	4.6	9.7	19.4	9.7	4.8	2.9	1.2	1.0	5.5
1965	0.9	2.5	4.2	3,5	9.8	16.0	17.4	8.9	4.0	2.6	1.5	1.2	6.1
1966	1.5	6.5	5.9	4.3	14.6	17.6	11.8	6.3	3.3	2.2	1.0	0.9	6.3
1967	2.2	4.9	5.0	5.5	7.3	13.5	20.0	12.3	5.5 5.8	3.6	2.3	1.8	7.0
1968	1.2	3.7	6.0		5.7		57.4	31.8	97	6.0		6.4	
1969	1.9	4.9	9.7	5.0	3.7 28.4	13.1 38.8	37.4 16.5				6.8		12.7
1970				9.3			7	6.1	2.5	2.2	1.3	1.2	10.2
	5.2	8.5	7.7	7.8	9.6	12.0	17.9	13.7	4.0	2.5	1.7	1.6	7.7
1971	1.5	3.7	6.3	5.3	6.2	14.0	41.0	21.5	10.8	5.5	4.7	3.6	10.3
1972	2.2	4.8	7.4	6.4	7.3	15.9	22.0	8.4	3.7	2.9	2.4	2.1	7.1
1973	4.5	6.4	9.8	7.3	9.6	30.0	27.3	11.3	5.8	3.2	2.4	2.1	10.0
1974	2.6	4.6	5.7	5.1	6.1	25.1	26.7	17.9	6.5	3.9	3.1	2.7	9.1
1975	2.8	4.9	8.7	11.9	10.1	21.8	45.1	58.4	18.1	8.6	10.1	9.3	17.5
1976	3.8	6.1	8.9	. 8.7	37.4	27.6	18.5	7.6	3.5	2.7	1.8	1.5	10.7
1977.	9.4	10.9	10.9	12.0	11.8	18.9	26.1	10.6	5.3	3.7	3.9	3.2	10.6
1978	2.1	16.3	14.3	24.1	17.2	23.9	26.7	13.0	5.0	2.6	2.6	3.0	12.6
1979	3.9	6.8	12.5	9.4	16.6	18.7	68.5	29.1	9.2	6.0	5.5	5.6	16.0
1980	3.7	5.8	8.6	8.3	22.2	58.9	26.2	16.6	4.4	3.1	3.1	3.0	13.7
1981	5.2	8.1	9.6	11.4	17.7	17.6	27.5	12.7	5.5	2.8	2.3	2.4	10.2
1982	3.9	6.2	9.7	7.7	10.4	17.7	31.7	24.0	6.2	3.5	3.0	3.1	10.6
1983	5.5	13.9	9.1	14.6	11.9	20.8	33.9	10.1	3.2	2.2	2.0	2.1	10.8
1984	4.2	6.3	7.9	7.3	9.3	9.4	10.8	2.9	1.6	0.9	0.9	0.9	5.2
1985	2.7	5.8	6.6	8.4	13.4	9.6	32.8	38.6	6.4	3.3	2.6	2.5	11.1
1986	1.5	3.3	6.2	6.2	5.8	8.6	35.5	19.0	6.0	4.1	4.9	4.0	8.7
1987	3.0	5.1	14.0	13.4	16.9	34.3	22.8	11.1	3.5	2.5	2.4	2.4	10.9
1988	4.7	10.2	9.2	13.0	14.4	43.6	19.8	11.3	3.1	1.9	1.6	1.4	11.2
1989	3.0	7.4	10.2	10.0	9.2	22.6	28.7	9.6	3.9		5		
1990	2.1	8.3	20.6						.*	2.1	2.0	1.6	9.2
				13.2	16.3	27.4	29.9	6.6	2.9	1.8	1.3	1.5	11.0
1991	3.1	4.9	6.2	7.0	13.7	18.6	41.1	38.9	11.1	4.9	3.4	3.1	13.0
1992	3.2	4.4	17.4	9.9	9.9	28.3	48.1	38.1	13.3	6.5	6.2	6.2	16.0
1993	4.2	6.0	9.1	27.4	17.7	64.3	10.7	4.5	1.4	0.7	1.0	0.8	12.3
1994	. 7.3	10.7	11.6	12.2	16.1	13.1	17.8	11.2	5.7	1.4	1.1	0.8	9.1
1995	2.2	9.4	39.2	14.2	17.4	22.8	30.1	17.2	4.5	3.4	2.3	2.2	13.7
1996	2.5	4.7	5.7	7.1	18.6	21.9	12.4	5.7	1.6	0.9	0.6	0.4	6.8
1997	4.0	4.9	6.6	6.3	6.2	6.5	47.7	12.9	4.5	3.0	2.6	2.5	9.0
1998	1.2	3.1	4.4	5.8	17.6	25.7	n terfor	19.0%	1.00		Thurst .		·
Avg	3.3	6.5	9.7	9.5	13.3	22.5	28.2	16.1	5.5	3.2	2.7	2.5	10.3
Max	9.4	16.3	39.2	27.4	37.4	64.3	68.5	58.4	18.1	8.6	10.1	9.3	17.5

Table (C-2-8(8)	Mont	hly Disc	harge a	t Repres	entative	Station	s		Beheshtal	ad Station	UNIT : C	MS
YEAR	10	11	12	1	2	3	4	5	6	7	8	9	Avg
1963			7.			: :	32.2	17.6	7,3	2.3	0.8	1.5	•
1964	1.2	2.3	5.1	3.9	6.6	19.2	38.9	34.4	16.9	6.1	2.8	2.5	11.7
1965	0.2	1.1	4.9	3.3	15.4	32.0	33.7	32.0	13.9	5.3	3.5	3.0	12.4
1966	1.6	8.6	8.3	5.1	23.9	35.1	18.5	24.2	11.4	4.0	2.4	2.4	12.1
1967	2.6	5.5	6.4	7.6	11.0	27.1	40.5	41.3	20.9	9.0	5.3	4.1	15.1
1968	1.0	3.3	8.4	6.6	8.4	26.1	141.0	82.7	39.3	20,7	15.1	9.1	30.1
1969	2.2	5.6	15.7	15.5	50.4	74.1	31.2	23.6	9.0	3.8	3.0	2.9	19.7
1970	6.1	12.1	11.7	12.5	14.9	24.0	35.0	44.9	13.8	4.9	4.0	3.7	15.6
1971	1.6	3.3	9.0	7.1	9.2	28.0	97.1	62.5	44.9	17,5	10.6	6.5	24.8
1972	2.7	5.4	11.1	9.5	11.0	31.8	46.0	30.6	12.9	6.2	5.5	4.4	14.7
1973	5.4	8.3	15.9	11.3	14.9	58.5	60.3	38.7	20.7	7.4	5.5	4.5	20.9
1974	3.1	5.0	7,8	6.7	9.0	49.5	58.6	54.6	23.7	10.1	7.0	5.4	20.0
1975	3.4	5.7	13.7	20.6	15.8	43.1	108.0	126.0	91.0	36.7	22.4	11.2	41.5
1976	4.6	7.8	14.2	14.2	68.5	54.1	36.7	28.2	12.0	5.5	4.1	3.5	21.1
1977	9,3	16.3	18.0	20.9	18.8	37.7	57.1	36.8	18.9	9.3	8.8	5.9	21.5
1978	2.5	25.5	24.8	43.3	28.7	47.1	59.3	29.2	14.2	5.9	4.7	4.5	24.1
1979	4.5	6.9	23.9	14.4	30.2	37.8	178.4	75.4	30.6	15.0	10.1	6.4	36.1
1980	3.2	5.4	13.5	12.6	25.4	65.2	67.9	52.4	24.8	10,4	7.5	5.4	24.5
1981	5.0	10.0	15.9	18.3	28.5	41.1	68.7	51.1	18.4	6.9	5.4	4.6	22.8
1982	4.4	7.0	14.2	12.4	14.9	30.4	55.0	60.2	20.8	7.9	6.4	5.3	19.9
1983	5.1	18.5	13.5	22.2	18.0	34.2	65.1	29.3	11.1	6.0	4.6	3.8	19.3
1984	5.0	7.0	10.2	12.1	15.6	20.1	34.6	15.5	6.0	2.8	2.3	2.6	11.1
1985	3.5	6.8	11.4	14.4	20.7	18.9	58.5	67.2	19.4	7.6	6.1	4.6	19.9
1986	2.0	3.3	10.8	11.6	11.0	18.8	83.6	77.8	25.2	12.5	8.8	6,4	22.6
1987	3.9	7.8	26.3	23.3	36.0	82.1	68.2	48.3	14.9	6.5	5.2	5.0	27.3
1988	5.6	18.0	13.8	34.7	28.3	94.1	52.1	42.8	24.4	8.3	5.8	5.1	27.7
1989	5.0	12.6	14.3	17.0	13.9	46.4	50.5	31.2	10.1	5.5	4.6	4.5	18.0
1990	3.0	10.9	29.2	20.5	24.7	55.7	69.6	24.0	7.7	3.9	3.5	3.9	21.4
1991	3.4	5.7	8.9	10.0	16.6	34.6	85.6	85.2	39.2	13.5	9.3	7.0	26.6
1992	4.2	5.8	34.5	21.7	17.5	54.8	106.3	109.0	60.6	20.9	15.0	10.1	38.4
1993	6.4	9.0	15.7	33.1	32.5	127.0	<u> 1988 - 19</u>	1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	March 1997			· <u>-</u> ·
Avg	3.7	8.3	14.4	15.5	21.3	44.9	64.6	49.2	22.8	9.4	6.7	5.0	22.1
Max	9.3	25.5	34.5	43.3	68.5	127.0	178.4	126.0	91.0	36.7	22.4	11.2	41.5
Min	0.2	1.1	4.9	3.3	6.6	18.8	18.5	15.5	6.0	2.3	0.8	1.5	11.1

Table (C-2-8(9)	Mont	hly Discl	narge at	Repre	sentative	Station	s		Morghak 3	Station UI	NT : CMS	
YEAR	10	11	12	1	2	3	4	5	6	7	8	9	Avg
1963			. 1				103.6	51.6	33,1	17.0	16.0	14.8	
1964	14.8	9.1	13.6	17.7	22.7	57.1	122.2	92.2	59.0	30.9	21.5	17.3	39.8
1965	13.6	8.0	15.5	22.7	64 5	101.4	110.7	75.9	49.8	27.2	19.5	16.0	43.7
1966	15.5	26.4	17.6	20.8	54.1	84.2	100.9	91.1	54.9	31.0	21.2	17.6	44.6
1967	15.8	15.7	15.1	30.6	36.2	85.9	133.9	126.0	81.1	47.3	28.7	21.7	53.2
1968	14.8	19.6	45.8	29.4	39.8	111.6	334.3	179.0	99.6	60.7	40.8	28.5	83.7
1969	17.3	25.4	57.9	59.2	168.1	199.9	120.3	80.0	48.3	32.4	25.2	21.6	71.3
1970	22.4	22.5	18.5	27.9	39.5	83.6	144.9	109.2	53.5	34.6	23.4	19.5	50.0
1971	14.8	14.1	23.6	20.5	21.4	74.6	286.2	190.4	123.0	71.9	43.2	28.7	76.0
1972	15.7	27.8	58.2	32.9	40.7	102.4	136.8	83,0	51.0	33.1	23.9	19.1	52.1
1973	22.5	25.3	33.3	24.7	59.8	172.9	223.2	146.6	82.9	46.3	29.6	22.4	74.1
1974	17.3	- 16.4	18.2	20.9	25.3	143.0	140.0	127.0	74.6	43.2	27.8	23.2	56.4
19.75	19.8	17.1	38.0	61.4	37.7	117.0	262.0	283.0	192.0	110.0	66.0	41.0	103.8
1976	18.9	17.6	33.9	87.5	221.0	104.0	91.5	73.7	47.6	30.2	22.7	19.8	64.0
1977	37.1	34.7	28.5	37.8	47.8	98.8	120.6	96.4	65.0	42.7	28.2	21.1	54.9
1978	27.3	84.2	93.3	89.9	85.1	156.7	106,9	77.5	57.3	40.3	28.4	20.3	72.3
1979	19.2	20.6	90.6	37.8	74.9	68.3	318.1	183.1	95.8	55.6	39.5	28.1	86.0
1980	20.9	18.4	28.6	33.5	111.3	173.3	166.2	105.4	67.8	44.7	30.2	23.1	68.6
1981	24.3	26.9	33.6	60.9	85,6	123.0	277.6	185.7	80.9	40.2	28.4	23.3	82.5
1982	22.2	26.5	32.6	28.3	49.6	119.5	159.8	194.3	91.3	47.3	28.3	25.1	68.7
1983	24.2	60.7	31.8	50.6	44.8	77.1	160.8	67.8	44.2	29.8	21.8	18.3	52.6
1984	21.0	18.8	23.7	23.7	39.4	55.0	152.1	82.5	52.2	32.0	23.2	18.2	45.1
1985	16.3	36.5	36.2	42.2	83.9	77.8	211.1	262.7	116.9	53.7	39.3	31.1	84.0
1986	16.2	22.4	76.7	46.1	56.1	89.6	226.3	231.7	114.8	61.9	41.2	27.7	84.2
1987	22.4	36.0	144.4	76.2	75.2	240.3	181.0	143.4	77.6	47.8	35.0	28.0	92.3
1988	26.8	60.6	41.0	85.0	79.6	279.5	165.3	129,8	75.2	43.6	30.7	23.7	86.7
1989	27.3	41.0	34.4	51.8	43.4	129.3	128.4	106.4	68.9	40.3	26.8	17.3	59.6
1990	21.5	54.1	136.9	54.6	76.0	151.2	225.1	98.9	55.5	34.1	25.5	19.8	79.4
1991	18.6	17.9	16.0	27.7	48.0	130.4	242.0	280.0	144.0	82,3	18.4	28.0	90.3
1992	27.1	18.2	130.7	50.8	48.5	149.0	252.0	336.0	164.0	108.0	65.1	45.3	116.2
1993	26.0	32.0	83.9	200.6	137.0	194.0	117.2	85.1	54.8	34.0	26.9	22.6	84.5
1994	34.6	59.3	53.5	66.3	92.0	100.7	141.2	142.0	84.3	50.5	38.0	40.0	75.2
1995	19.8	145.3	280.1	89.7	100.0	109.8	261.0	189.3	94.9	51.0	33.9	24.2	116.6
1996	23.0	21.3	21.0	28.8	57.1	161.1		M. Early		7000	the first		4 10 <u>2</u> 15
Avg	21.2	32.7	54.7	49.6	68.7	124.9	179.5	142.6	80.5	47.1	31.8	24.1	72.3
Max	37.1	145.3	280.1	200.6	221.0	279.5	334.3	336.0	192.0	110.0	66.0	45.3	116.6
Min	13.6	8.0	13.6	17.7	21.4	55.0	91.5	51.6	33.1	17.0	16.0	14.8	39.8

		·	e •										
										-			
		•									•		
4													
Table (C-2-8(1	l0) Mon	thly Dis	charge:	at Repr	esentativ	e Statio	ns		Kata Stati	on	UNIT: C	MS
YEAR	10	11	12	1	2	3	4	5	. 6	7	8	9	Avg
1963	······						66.5	44.6	38.4	24.4	18.4	13.6	
1964	13.7	14.8	22.0	22.2	18.2	40.3	56.1	58.7	48.4	32.1	23.1	19.3	30,7
1965	14.8	15.5	22,3	23.5	29.1	51,8	30.3	35.9	33.0	20.2	14.4	10.9	25.1
1966	15.9	16.7	22.4	22.6	23.7	37.5	44.2	74.8	55.1	38.7	25.2	20.2	33,1
1967	14.1	15.2	21.9	24.4	22.3	46.7	67.5	50.7	49.8	36.7	24,3	18.4	32.7
.1968	15.4	16.3	24.2	24.1	22.4	33.2	127.7	78.0	57.3	48.1	37.3	26.7	42.6
1969	16.1	15.9	22.8	24.8	97.8	80.6	25.7	33.1	32,1	17.5	14.4	11.4	32.7
1970	18.4	18.0	22.6	23.8	23.8	36.7	35.4	49.5	39.6	21.0	15.1	12.0	26.3
1971	. 13.8	14.8	22.9	22.8	17.2	34.5	136.5	89.5	75.5	58.6	37.5	24.7	45.7
1972	. 12.9	13.5	15.8	15.2	18.2	37,0	43.6	. 34.4	35.7	25.8	18.8	14.3	23.8
1973	19.3	18.1	20.3	18.8	20.2	44.6	60.1	52.4	50.9	35.6	26.3	24.6	32.6
1974	12.8	12.9	14.1	14.4	14.9	53.3	63.3	67.6	56.9	46.7	30.8	20.0	34.0
1975	22.9	16.0	19.8	27.3	21.2	45.8	126.5	108.8	83.3	73.2	53.2	31.1	52.4
1976	15.6	17.5	20.0	34.4	96.1	88.7	42.5	44.8	40.5	30.6	19.5	14.0	38.
1977	24.0	28.4	24.4	24.6	23.8	35.5	66.8	59.3	55.2	46.1	29,8	21.3	36.0
1978	9.8	33.3	36.0	86.6	51.5	58.8	67.8	48.9	48.6	33.5	21.2	15.7	42.0
1979	18.8	19.4	31.1	24.8	40.0	46.7	183.5	119.0	86.8	51.4	30,3	18.9	55.9
1980	16.8	12.8	20.8	15.6	51.9	92.1	83.9	64.4	55.3	40.8	25.4	16.5	41.3
1981	13.1	12.7	15.1	15.8	35.6	50.1	76.5	73.2	48.0	15.3	15.3	14.9	32.
1982	15.1	11.2	13.1	18.1	21.9	41.7	56.0	70,0	57.9	41.4	29.0	18.0	32.8
1983	20.2	37.6	25.5	32.8	32.9	39.1	76.9	37.1	32.8	20.7	14.1	11.8	31.8
1984	13.4	13.1	16.4	17.5	17.9	18.1	47.4	30.9	35.0	27.8	15.1	9.1	. 21.8
1985	10.4	12.2	15.8	26.3	36.2	32.2	85.4	90.1	54.6	48.0	27.6	18.2	38.1
1986	10.6	10.6	20.9	18.9	15.2	19.0	89.3	87.8	69.7	48.6	28.0	21.2	36.7
1987	13.9	18.2	79.2	53.7	41.9	87.2	64.2	64.9	52.5	37.0	19.1	14.6	45.5
1988	18.1	27.9	24.5	29.2	42.3	94.8	44.8	49.8	43.6	22.7	15.9	12.2	35
1989	15.7	18.8	23.4	23.3	20.3	38.7	52.4	51.3	31.5	28.0	21.9	16.2	28.4
1990	12.2	27.6	57.9	32.6	41.1	50.5	79.7	56.2	45.3	29.0	17.9	14.7	38.
1991	16.2	15.8	18.6	20.0	36.4	51.2	82.9	135.0	87.4	62.3	41.5	24.8	49.3
1992	19.5	15.5	71.6	41.9	31.6	73.9	132.8	156.7	91.9	67.2	54.0	42.2	66.6
1993	20.5	22.3	25.4	55.6	57.4	171.0	44.8	36.4	27.8	22.4	15.5	14.6	42.8
1994	25.1	26.3	23.7	26.3	27.6	36.7	66.3	62.0	63.3	53.1	32.6	20.2	38.6
1995	15.5	99.4	91.1	48.8	70.1	63.3	91.5	76.8	57.2	44.9	29.1	- 17.1	58.7
1996	17.0	17.6	19.8	21.0	35.8	62.1			· · · · ·	124 44			
Avg	16.1	20.8	28.0	28.2	35.0	54.3	73.3	66.4	52.7	37.8	25.5	18.3	38.3
Max	25.1	99.4	91.1	86.6	97.8	171.0	183.5	156.7	91.9	73.2	54.0	42.2	66.6
Min	9.8	10.6	13.1	14.4	14.9	18.1	25.7	30.9	27.8	15.3	14.1	9.1	21.8

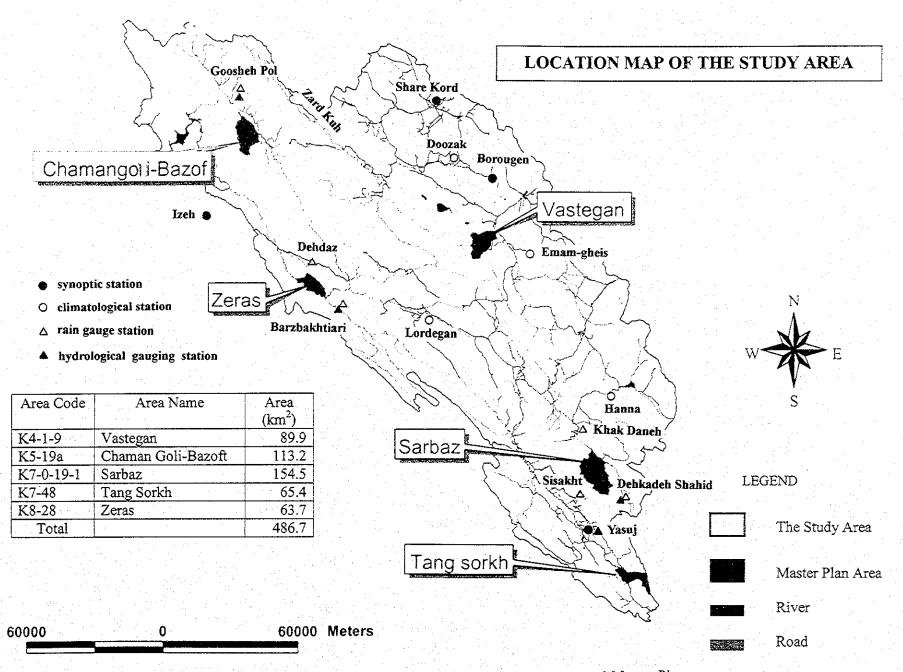
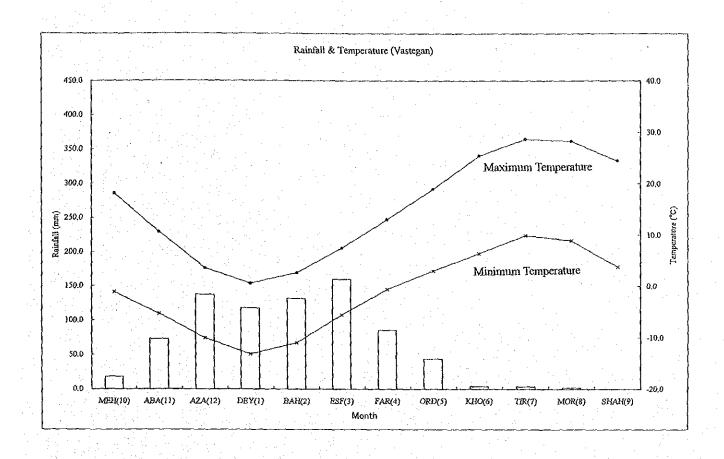


Figure C-2-1 Meteorological and Hydrological Gauging Stations around Master Plan area



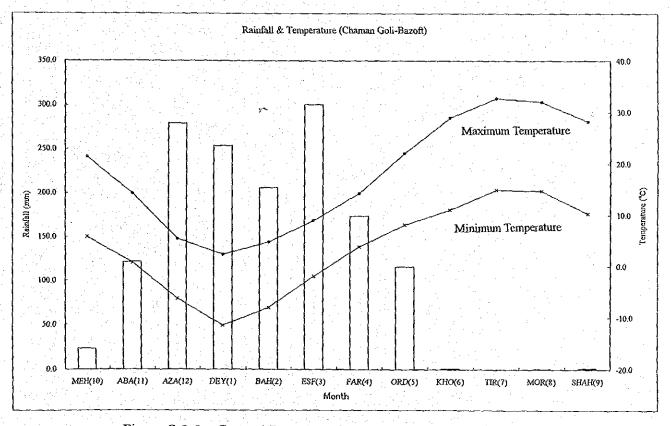
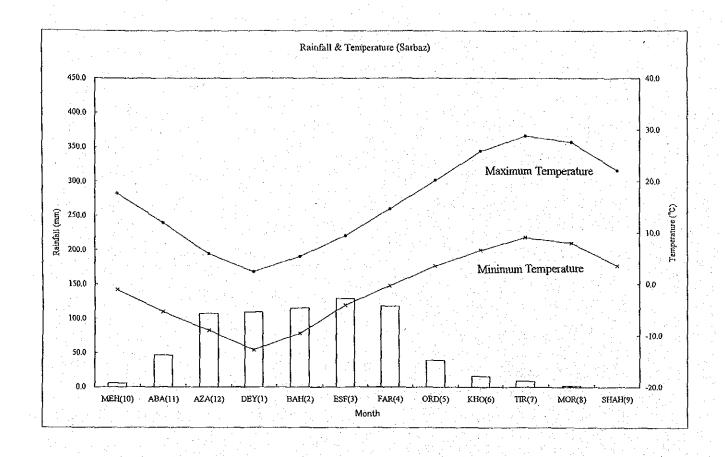


Figure C-2-2 General Feature of Climate in Master Plan area (1)



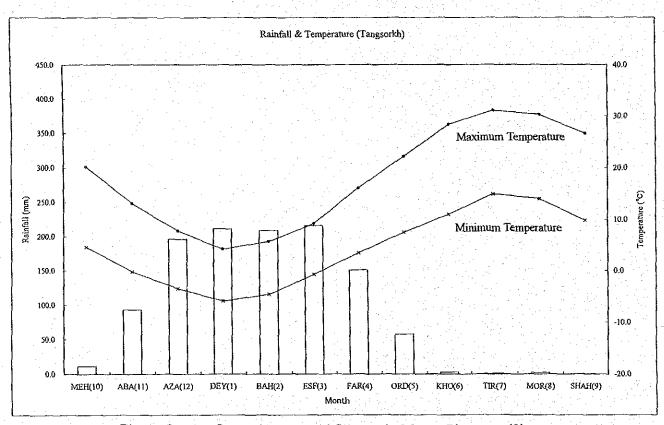


Figure C-2-2 General Feature of Climate in Master Plan area (2)

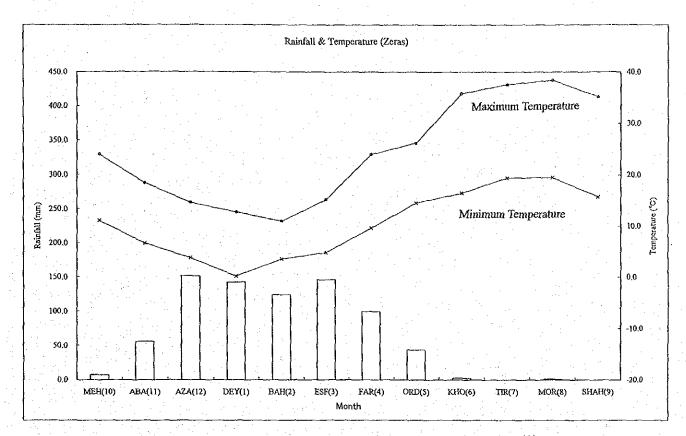


Figure C-2-2 General Feature of Climate in Master Plan area (3)

Table C-2-9 Rainfall Intensity near Master Plan area

Rainfall Intensity (Emam Gheis)

Return				Intensi	ty (mm/h	r) of Dura	tion of:			
Period	15 min.	30 min.	45 min.	60 min.	90 min	120 min.	180 min.	240 min.	300 min.	360 min
2	22.6	16.1	13.2	11.5	9.4	8.2	6.7	5.8	5.2	4.8
5	42.5	29.5	23.9	20,5	16.2	13.7	10.8	9.1	7.9	7.2
10	57.0	38.7	31.9	25.6	20.0	16.4	12.6	10.4	8.9	7,9
25	73.9	50.9	41.0	33.0	24.5	19.6	14.6	11.7	10.0	8.7
50	86.7	59.4	47.7	38,3	28.1	22.5	16.6	13.2	11.1	9.8
100	101.3	67.0	54.8	44.0	32.3	25.7	18.5	14.8	12.4	10,8

Source: Khajeh Nassir al Deen Toosi University of Technology and Department of Water Engineering Research

Rainfall Intensity (Pol-e-shalu)

Return		in the Victor		Intensity (mm/hr) of Duration of:							
Period	15 min.	30 min.	45 min.	60 min.	90 min	120 min.	180 min.	240 min.	300 min.	360 min.	
2	31.1	20.8	16.0	13.9	10.1	9.8	8.1	7.8	7.1	6.5	
5	41.6	27.8	21.5	18.7	12.6	13.3	10.6	10.6	9.7	8.8	
10	48.5	32.4	25,2	21.8	14.3	15.6	12.2	12.5	11.3	10.3	
25	57.3	38.2	29.8	25.8	16.4	18.5	14.3	14.8	13,4	12.2	
50	63.8	42.6	33.2	28.8	17.9	20.7	15.9	16.6	15.0	13.6	
100	70.2	46.9	36.6	31.7	26.5	22.8	17.4	18.3	16.6	15.0	

Source: Khajeh Nassir al Deen Toosi University of Technology and Department of Water Engineering Research

Rainfall Intensity (Yasuj)

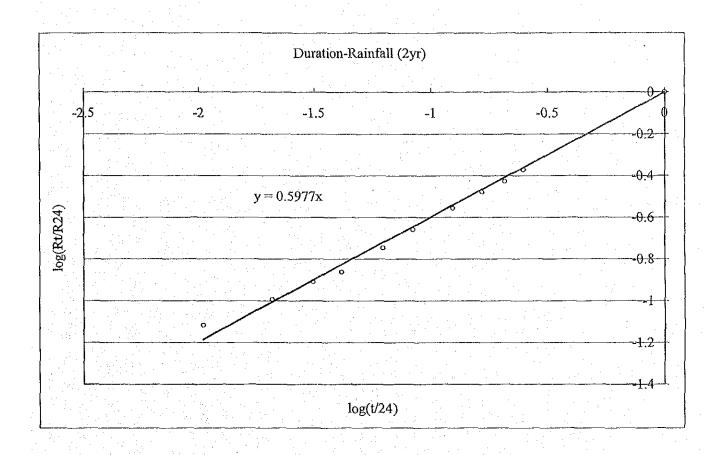
Return				Intensity (mm/hr) of Duration of:							
Period	15 min.	30 min.	45 min.	60 min.	90 min	120 min.	180 min.	240 min.	300 min.	360 min.	
2	21.8	14.5	11.8	9.9	8.6	7.9	6.7	6.0	5.4	5.1	
5	31.1	19.7	16.0	14.0	11.8	10.8	9.0	7.9	7.2	6.7	
10	37.3	23.2	18.7	16.6	14.0	12.8	10.5	9.2	8.3	7.8	
25	45.1	27.6	22.2	20.0	16.8	15.2	12.4	10.8	9.8	9.2	
50	50.9	30.8	24.8	22.5	18.8	17.0	13.9	12.0	10.9	10.2	
100	56.6	34.1	27.4	24.9	20.8	18.8	15.3	13.2	12.0	11.2	

Source : Khajeh Nassir al Deen Toosi University of Technology and Department of Water Engineering Research

Rainfall Intensity (Izeh)

Return	Intensity (mm/hr) of Duration of:									
Period	15 min.	30 min.	45 min.	60 min.	90 min	120 min.	180 min.	240 min.	300 min.	360 min.
2	45.9	28.0	21.1	18.1	14.3	11.8	8.9	7.5	6.5	5.9
5	67.6	44.1	33.2	28.3	22.2	18.2	13.3	11.2	9.9	9.1
10	82.0	54.9	41.2	35.1	27.4	22.4	16.2	13.6	12.2	11.2
25	100.1	68.4	51.3	43.7	34.0	27.8	19.9	16.7	15.0	13.8
50	113.6	78.4	58.8	50.0	39.0	31.7	22,6	19.0	17.1	15.8
100	127.0	88.4	66.2	56,3	43.8	35.7	25.3	21.2	19.2	17.7

Source: Khajeh Nassir al Deen Toosi University of Technology and Department of Water Engineering Research



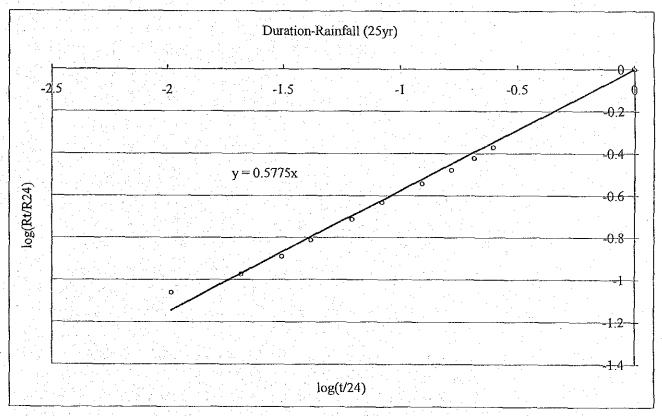


Figure C-2-3 Rainfall Intensity at Yasouj Station

Table C-2-10 Peak Flood Estimation by Rational Formula

Area Name	Site	Catchment Area (km2)	Time of Concentration (min.)	Rainfall Intensity (mm/hr)	Runoff Coefficient	Runoff (m3/s)	Baseflow (m3/s)	Total Runoff (m3/s)
Vastegan	V1	15.48	42	52,32	0.39	87.733	•	87.733
	V2	24.36	44	50.53	0.39	133,345	·	133.345
	V3	38.09	65	38.48	0.39	158.787	0.014	158.800
	V4	8.88	36	57.95	0.39	55.745	0.006	55.751
	V5	11.15	35	58.76	0.38	69,155	0.008	69.162
Chaman	B1-1	18.11	44	54.71	0.40	110.084	0.196	110.280
Goli-Bazoft	B1-2	35.11	62	46.65	0.38	172.881	0.381	173.261
	. B1-3	46.09	69	44.43	0.37	210.476	0.500	210.976
	B1-4	6.64	30	65.51	0.40	48,330	0.072	48,402
	B1-5	8,35	39	57.96	0.37	49,738	0.091	49.829
	B2-1	5.32	22	76.78	0.36	40,846	0.058	40.904
	B2-2	27.48	45	54.54	0.37	154.033	0.298	154.331
	B2-3	60.53	66	45,25	0.37	281.484	0.656	282.140
	B2-4	10.57	33	63.16	0.39	72,320	0.115	72.435
	B2-5	14.09	40	57.59	0.40	90,164	0.153	90.317
	B3	3.03	20	79.90	0.34	22.864		22.864
Sarbaz	S1-1	25,64	43	36.67	0.40	104.474	1.090	105.564
	S1-2	49.87	61	31.04	0.38	163.389	2.119	165.508
	S1-3	88.21	83	26.91	0.37	243.936	3.749	247.685
	S1-4	113.28	97	24.94	0.36	282.522	4.814	287.337
	S1-5	5.71	29	44.54	0.40	28.260	0.243	28,503
	S1-6	25.54	59	31.54	0.39	87.267	1.085	88.353
	S1-7	19.63	38	39.06	0.33	70,279	0.834	71.113
	S2-1	6.83	25	47.50	0.36	32.442		32.442
	S2-2	20.13	50	34.09	0.35	66.712		66.712
	S2-3	3.04	20	52.87	0.38	16.964		16.964
	S3	4.06	24	48.88	0.39	21.500		21.500
Tangsorkh	T1-1	20.16	72	24.84	0.37	51.474	0.058	51.532
	T1-2	34.91	83	23.23	0.37	83.351	0.100	83,451
	T1-3	43.09	99	21.40	0.37	94.758	0.123	94.881
	T1-4	10.99	42	32,26	0.37	36.435	0.031	36,467
	T1-5	5.69	20	46.01	0.37	26.910	0.016	26,926
	T2	1.82	15	52.74	0.34	9.065	* . * . * . - .	9.065
	Т3	5.02	25	40.93	0.38	21.688		21.688
Zeras	Z1	4.2	23	95.50	0.32	35.652		35,652
•	Z2 ·	12.91	31	77.66	0.33	91.906	-	91,906
	Z3	2.52	19	106.56	0.31	23.124		23.124
	Z4-1	7.38	27	84.97	0.33	57.481		57.481
	Z4-2	13.12	32	76,60	0.33	92.120	-	92.120
	Z4-3	4.38	24	93.03	0.32	36.219		36.219
	Z 5	15.38	32	77.03	0.34	111.896		111.896
	Z 6	2.33	15	127.84	0.35	28.958	-	28.958
			74.25		7.3 Feb. 2007		and the second of	and the second of the

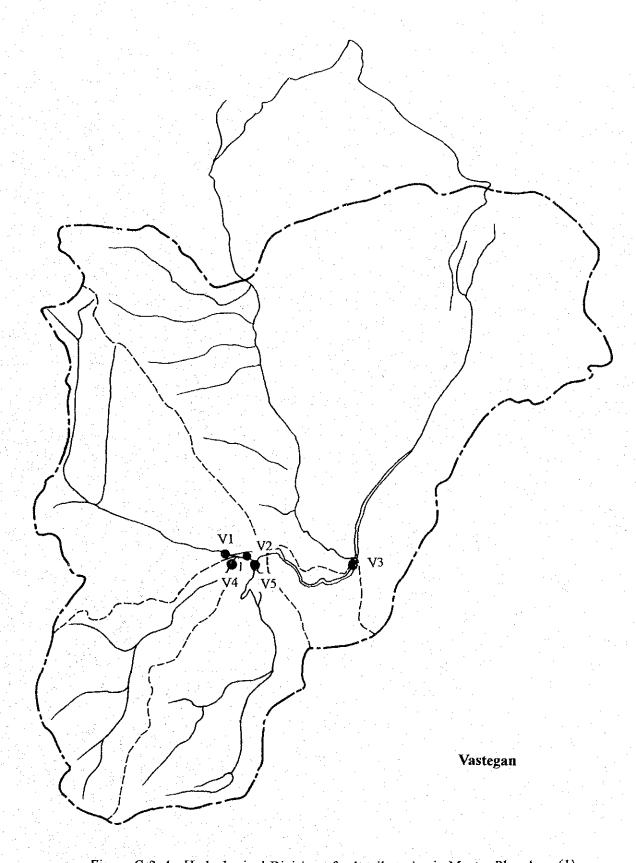


Figure C-2-4 Hydrological Division of sub-tributaries in Master Plan Area (1)

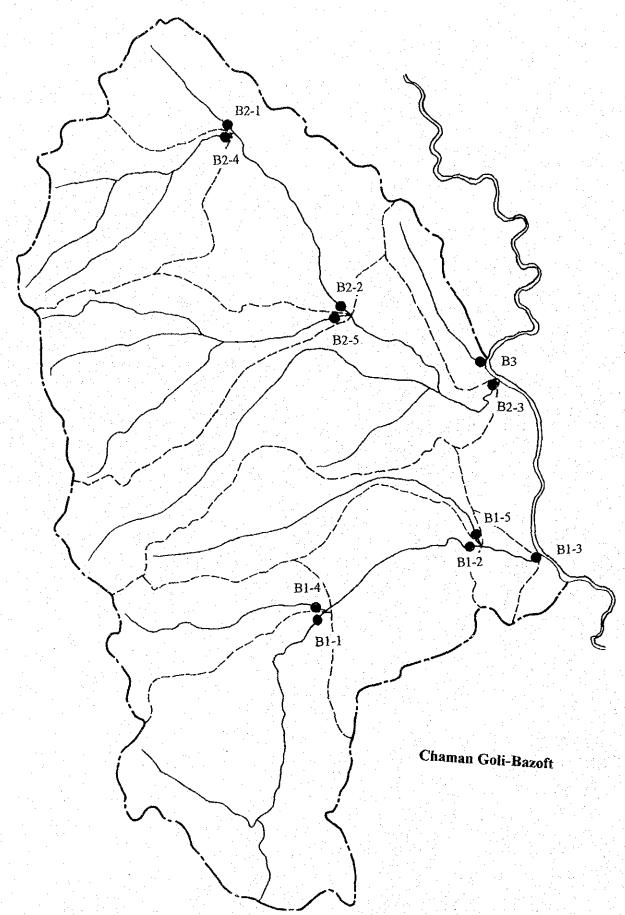
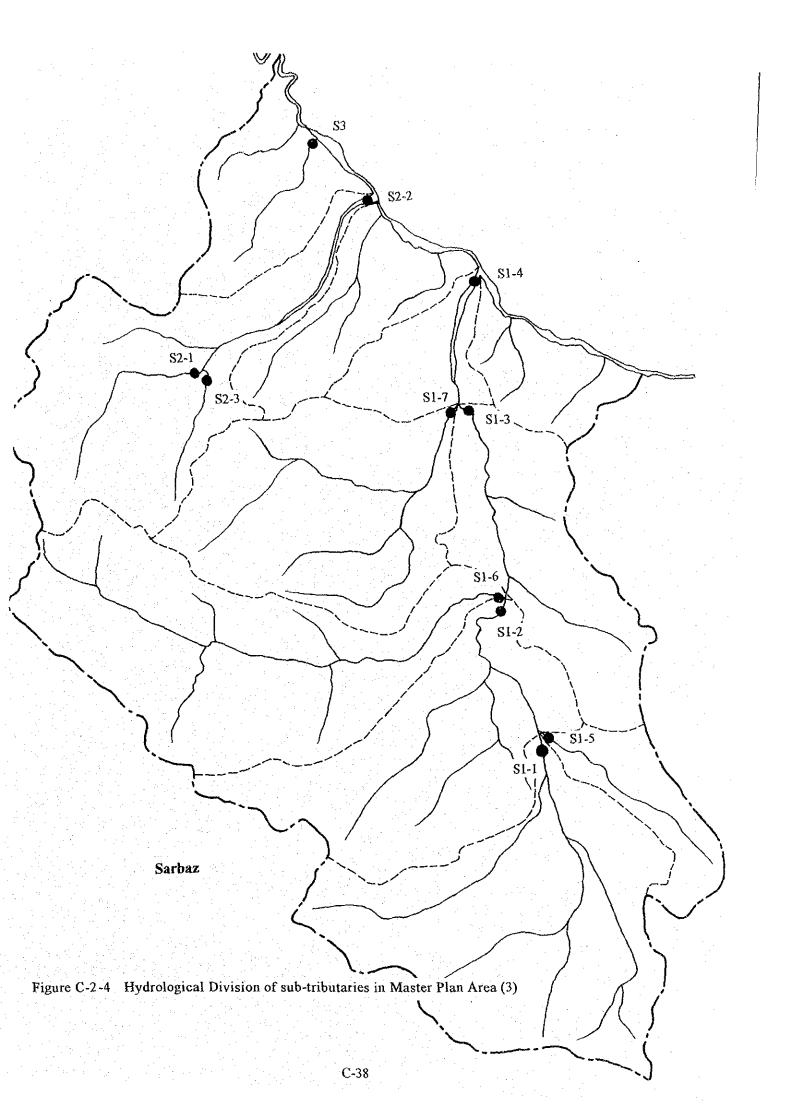


Figure C-2-4 Hydrological Division of sub-tributaries in Master Plan Area (2)



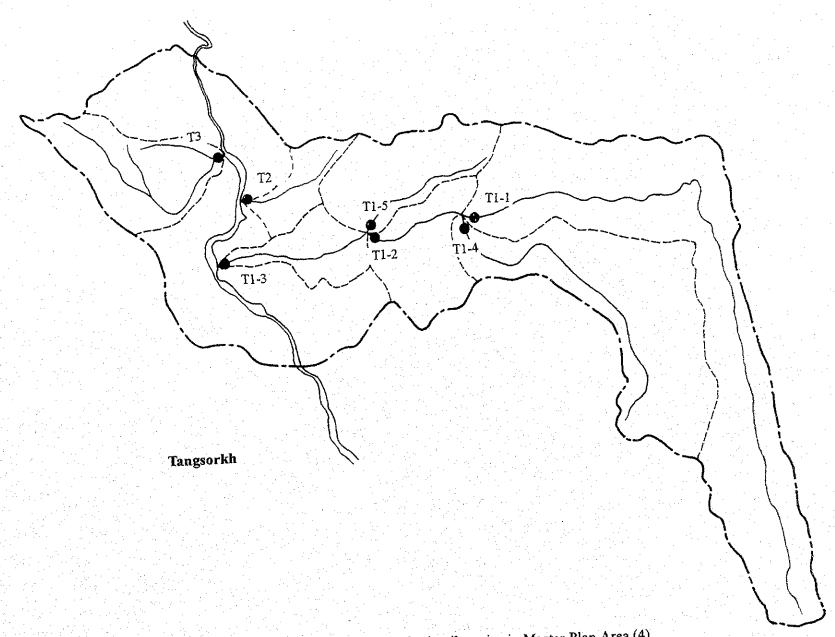
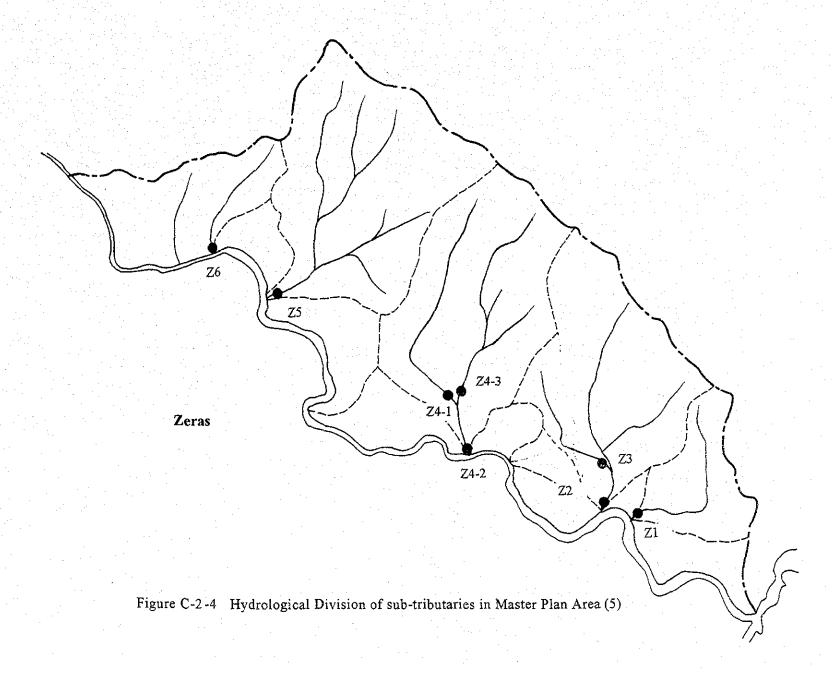


Figure C-2-4 Hydrological Division of sub-tributaries in Master Plan Area (4)



C-4

Table C-3-1 Water Consumption in Rural Area

						Volume of			12 21 1	Wastewater		
Plain Name	Plain Code	Population	Per Car	ita Demand (litres/d	ay/head)	Water	Source of	water (%)	Wastewater	volume	Wastewat	er disposal
	·		Existing	Recommended	Usual	TCM ⁽¹⁾	Surface water	Groundwater	coefficient	TCM ⁽¹⁾	Surface water	Groundwate
YASOJ-SEECAKHT	34101	44665	91	122	131	1484	10	90	0.77	1142	. 20	80
KAHARDAN	34102	98051	106	122	131	3794	10	90	0.77	2921	20	30
GHABRKIKHA	34103	0	106	122	131	0	10	90 -	0.77	0	20	89
HANA	34104	6428	112	122	131	263	10	90	0.77	202	20	80
SAMIROM	34105	366	109	119	128	15	10	90	0.72	10	20	80
MAL-KHALIFEH	34106	18913	112	122	131	773	10	90	0.77	595	20	80
DASHTROOM	34107	6992	106	122	131	271	10	90	0.77	208	20	80
MEHRGERD	34201	8500	105	114	122	326	0	100	0.76	248	20	80
IMAMGHIS-DORAHAN	34202	11427	105	114	122	438	0	100	0.76	333	20	80
BROJEN-SEPIDASHT	34203	8784	119	130	140	382	. 0	100	0.7	267	20	80
GANDOMAN-BELDAJI	34204	20010	105	114	122	767	- 0	100	0.76	583	20	80
SHALAMZAR	34205	28224	112	122	131	1154	0	100	0.76	877	20	80
ARDEL	34206	8394	- 118	128	138	362	- 0	100	0.77	278	20	80
KYAR	34207	9256	105	114	122	355	0	100	0.76	270	20	80
Shahrekurd -hafeshjan	34208	45366	107	116	125	1772	0	100	0.7	1240	20	80
SORSHEJAN-VANAN	34209	17390	103	112	121	654	0	100	0.77	503	20	80
FARSAN-JONEGHAN	34210	45867	112	122	131	1875	0	100`	0.79	1481	20	- 80
CHENDAR-KOLONCHI	34211	1629	105	114	122	62	0	100	0.76	47	20	80
DASHTAK	34212	21739	105	114	122	833	0	100	0.76	633	20	80
CHESHMEH-SOLEIMAN	34213	6160	105	114	122	236	. 0	100	0.76	179	. 20	80
JAVANMARDI	34214	25372	105	114	122	972	0	100	0.76	739	20	80
CHENARMAHMODI	34215	9416	105	114	122	361	.0	100	0.76	274	20	80
BARDBAR	34216	4988	105	114	122	191	0	100	0.76	145	20	80
LORDEKAN	34217	19532	120	- 131	141	856	0	100	0.7	599	20	80
DARREHBAZOFTKHERSAN	34218	72498	105	114	122	2778	0	100	0.76	2112	20	- 80
BARANGARD	34301	13133	96	139	149	460	50	50	0.65	299	50	50
IZEH-CHENARESTAN	34302	32115	92	133	142	1078	50	50	0.73	787	. 50	50
PION	34303	7765	96	139	149	272	50	50	0.65	177	50	50
DEHSHEIKH	34304	21016	96	139	149	736	50	50	0.65	479	50	50
CHEGARMAN	34305	27356	96	139	149	959	50	50	0.65	623	50	50
LALI	34306	14366	96	139	149	503	50	50	0.65	327	50	50

Note) (1) TCM means Thousand cubic meters.

Table C-3-2 Irrigation Water Demand

Plain Name	Plain Code	Irrigated Area (ha)	Unit Water Requirement (m3/ha)	System Efficiency (%)	Unit Water Use (m3/ha)	Surface Water Use (1000m3)	Ground Water Use (1000m3)	Total
YASOJ-SEECAKHT	34101	18,285	3,936	35	11,245	184,183	21,424	205,607
KAHARDAN	34102	6,310	3,161	30	10,535	66,479	0	66,479
GHABRKIKHA	34103	1,824	4,139	36	11,497	20,970	0	20,970
HANA	34104	8,489	3,769	32	11,777	99,971	0	99,971
SAMIROM	34105	10,426	3,528	. 32	11,025	109,476	5,472	114,948
MAL-KHALIFEH	34106	5,153	4,191	32	13,096	57,408	10,075	67,483
DASHTROOM	34107	6,000	3,124	32	9,762	55,068	3,503	58,571
MEHRGERD	34201	4,234	4,504	36	12,512	27,976	24,999	52,975
IMAMGHIS-DORAHAN	34202	3,534	3,617	34	10,638	26,095	11,501	37,596
BROJEN-SEPIDASHT	34203	11,386	4,030	34	11,854	34,999	99,976	134,975
GANDOMAN-BELDAJI	34204	11,790	3,351	34	9,855	57,191	59,004	116,195
SHALAMZAR	34205	4,038	3,670	33	11,121	29,597	15,308	44,905
ARDEL	34206	3,084	3,834	34	11,276	30,559	4,215	34,774
KYAR	34207	4,440	3,891	36	10,809	12,996	34,995	47,991
SHAHREKURD-HAFESH	34208	20,618	3,697	38	9,730	0	200,621	200,621
SORSHEJAN-VANAN	34209	3,162	4,018	35	11,480	6,298	30,001	36,299
FARSAN-JONEGHAN	34210	6,869	3,407	32	10,648	60,145	12,997	73,142
CHENDAR-KOLONCHI	34211	2,344	2,646	31	8,537	20,011	0	20,011
DASHTAK	34212	2,501	3,654	31	11,786	29,477	0	29,477
CHESHMEH-SOLEIMAN	34213	1,213	4,387	31	14,153	17,167	. 0	17,167
JAVANMARDI	34214	10,507	3,018	35	8,624	0	90,609	90,609
CHENARMAHMODI	34215	2,134	3,325	35	9,500	9,604	10,670	20,274
BARDBAR	34216	714	4,539	32	14,183	8,528	1,599	10,127
LORDEKAN	34217	5,033	4,705	32	14,702	61,995	12,002	73,997
DAREHBAZOFT-KHERSAN	34218	3,571	4,970	31	16,033	57,255	0	57,255
DEHSHEIKH	34304	602	9,044	32	28,262	17,014	0	17,014
CHEGARMAN	34305	129	3,798	34	11,171	961	480	1,441
Total		158,390			11,054	1,101,423	649,451	1,750,874

Table C-3-3 Water Quality of Surface Water

Station .	Code River	TDS (mg/lit.)	EC (PH	CO3 (mg/lit.)	HCO3 (mg/lit.)	CL (mg/lit.)	SO4 (mg/lit.)	CA. (mg/lit.)	MG (mg/lit.)	NA (mg/lit.)	K (mg/lit.)	SAR (mg/lit.)
Dehkadeshahid	34110 Marboreh	205.94	315.44	. 7.80	0.12	2.35	0.46	0.42	1.88	0.87	0.47	0.03	0.43
Polichoghodar	34112 Hana	362.91	562.08	7.72	0.00	3.33	1.56	0.79	2.66	1.67	1.29	0.08	0.88
Yasooj	34114 Boshar	257.92	397.10	7.91	0.00	2.92	0.70	0.42	2.57	0.92	0.58	0.03	0.42
Shahmoktar	34115 Boshar	220.31	335.31	7.87	0.11	2.88	0.31	0.17	2.46	0.83	0.21	0.02	0.16
Darshahi	34117 Boshar	248.44	402.35	7.88	0.60	3.02	0.70	0.49	2.49	1.07	0.60	0.03	0.44
Botari	34118 Kabkian	278.00	440.10	7.82	0.08	3.27	0.68	0.57	2.75	1.24	0.52	0.02	0.37
Barzbakhtiari	34121 Kersan	265.64	408.37	7.80	0.04	2.95	0.60	0.81	2.39	1.28	0.66	0.03	0.50
Lordejan	34210 Lordejan	279.58	431.13	7.80	0.40	3.10	0.90	0.56	2.32	1.44	0.78	0.03	0.50
Tangzardalou	34211 Kasgan	289,25	443.74	7.74	0.00	3.67	0.55	0.50	2.63	1.53	0.56	0.02	0.39
Godarkabk	34212 Aghbolagh	281.61	433.71	7.83	0.10	3.97	0.30	0.58	2.63	1.79	0.40	0.03	0.23
Sharekord	34214 Kharrood	293.40	452.15	7.79	0.30	3.96	0.34	0.71	2.65	1.82	0.49	0.02	0.33
Babahyeidar	34215 Sarab	229.79	355.75	7.87	0.13	3.00	0.21	0.29	2.51	0.87	0.21	0.01	0.16
Kouhrang Dam	34217 Abe Kohrang	144.50	222.50	8.32	0.05	1.80	0.13	0.14	1.33	0.63	0.18	0.00	0.18
Marboran	34218 Marboreh	126.75	195.31	7.96	0.24	1.66	0.21	0.26	1.36	0.60	0.22	0.01	0.23
Armand	34219 Karoon	333.00	511.76	7.88	0.07	2.91	1.64	0.67	2.32	1.30	1.62	0.03	1.2
Ghoshehpol	34220 Abe Turky	182.66	281.20	7.95	0.05	2.43	0.19	0.24	1.92	0.82	0.14	0.01	
Poleshaloo	34222 Karoon	354.68	575.02	7.97	0.00	2.78	2.08	0.93	2.42	1.31	1.98	0.04	
Polemari :	34224 Chaghakhor	279.58	429.43	8.00	0.17	3.58	0.26	0.39	2.21	1.90	0.23	0.03	and the second second
Kohesokhteh	34226 Kiar	311.45	479.35	7.93	0.12	3.78	0.51	0.50	2.58	1.71	0.58	0.03	0.40
Dazak	34227 Birgan	200.06	308.05	7.95	0.07	2.70	0.19	0.22	2.11	0.88	0.17	0.01	
Zarinderakht	34228 Khanmirza	449.89	692.01	7.97	0.13	4.06	1.90	0.94	2.49	2.49	1.92	0.03	1.21
Outsadekaro	34310 Karoon	352.31	564.11	7.97	0.00	2.81	1.85	1.07	2.64	1.23	1.74	0.03	
Polekarenbas	34230 Ab Vanak	233.50	359.88	8.20	0.08	2.70	0.30	0.32	1.84	1.39		0.02	and the second second
Gerdbisheh	34237 Gerdbisheh	265.08	407.19	8.15	0.08	3.21	0.40	0.31	2.48	1.17	0.34	0.02	and the second
Polbardegan	34241 Gharahghach	248.75	383.50	7.73	0.00	3.08	0.31	0.44	2.67	0.96	0.21	0.02	
Tangekharaii	34223 Ab Jahanbin	183.02	281.67	8.00	0.06	2.23	0.27	0.24	1.80	0.77	0.27	0.01	the second secon
Kerik	34116 Kerik	363.60	611.25	7.90	_	2.97	2.42	0.69	2.47	1.26	2.25	0.02	
Pataveh	34120 Garmrood	385.13	605.56	7.85	0.05	3.09	2.01	1.07	2.97	1.28	1.89	0.03	•
Solegan	34213 Solegan	273.27	421.37	7.89	0.10	3.54	0.38	0.47	2.43	1.57	0.42	0.03	
Beheshtabad	34216 Beheshtabad	334.27	513.37	7.89	0.11	3.22	1.33	0.47	2.49	1.43	1.14	0.07	
Morghak	34221 Bazoft	450.00	691.06	7.81	0.09	2.84	3.42	0.74	2.36	1.20	3.45	0.03	
Tangedarkesh	34225 Chonghan	277.77	427.77	7.95	0.14	3.20	0.51	0.51	2.67	1.17	0.43	0.03	the same and the same and
Siahkalk	34242 Garmab	289.05	445.32	7.69	0.00	3.99	0.38	0.46	2.79	1.69	0.43	0.03	and the second second
Khakdaneh	34111 Marborch	194.62	299.42	7.91	0.37	2.55	0.32	0.43	2.79	0.89	0.32	0.03	
Kata	34111 Marboreh	268.14	410.47	7.87	0.27	2.98	0.32	0.31	2.01	1.19	0.24	0.02	The Control of the Control
Average	24112 Maionight	277.54	431.25	7.90	0.04	3.04	0.77	0.44	2.44	1.19		0.04	

C-44

Table C-3-4 Spring Numbers and Discharge

			Springs											
		1		Hard Formati	on in Mountain			in Hard Format	ion near Alluvial			Allur	vial	
Plain Name Plain Cod	Plain Code	Year	No. of Springs	Ave. Discharge (lit/sec)	Max. Discharge (lit/sec)	Total Discharge (MCM/year)	No. of Springs	Ave. Discharge (lit/sec)	Max. Discharge (lit/sec)	Total Discharge (MCM/year)	No. of Springs	Ave. Discharge (lit/sec)	Max. Discharge (lit/sec)	Total Discharge (MCM/year)
YASOJ-SEECAKHT	34101	1374	9	374	4000 -	106	12	60	700	23	15	8	120	3.8
HANA	34104	1373	3	32	<u> </u>	3							1	
SAMIROM	34105	1373	12	103		39							f	
MAL-KHALIFEH	34106	1372	71	68	3530	152.2	5	14.5	41	1.33	1	0.5	1	0.02
DASHTROOM	34107	1374					25	37	500	29.17	15	5	8.5	2.36
MEHRGERD	34201	1373	257	9.3	150	75.5							,	1
IMAMCHIS-DORAHAN	34202	1373	52	92		151							1	
BROJEN-SEPIDASHT	34203	1369	3	3	5	0.06	. 6	22.8	146	4.31	7	4.8	22	1.05
GANDOMAN-BELDAJI	34204	1373	39	83		102.4			·					
SHALAMZAR	34205	1372	41	77	1236	99.77								
ARDEL	34206	1372	198	19.6	222	122.25								T
KYAR	34207	1372	17	46,5	100	24.9								T
SHAHREKURD-HAFESHIAN	34208	1372	48	11.45	274	17.3								
SORSHEJAN-VANAN	34209	1372	83	. 4	27	10.38								
FARSAN-JONEGHAN	34210	1372	100	16	400	50.91								
JAVANMARDI	34214	. 1369	29	2.7	10	2.43	11	20	137	7	10	18	61	5.7
CHENARMAHMODI	34215	1369	8	3.3	12	0.84	6	41	305	7.77	6	2	3	0.4
BARDBAR	34216	1369	14	7.3	14	3.25	6	32	106	6.07				1
LORDEKAN	34217	1369	4	114	544	14,36	- 4	771	2165	97.32	6	21		4

Table C-3-5 Numbers and Discharge of Wells and Qanaat

		1			WELLs			Qa	nal		
Plain Name	Plain Code	Year	No. of Wells	Dischar	ge (lit/sec)	Operation (Hours/year)	Total Extraction (MCM/Year)	No. of Qanats	Discharg	e (lit/ser)	Total Extraction (MCM/Year)
	I I I I I I I I I I I I I I I I I		1.0.0.	Average	Max.	()	(1	Average	Max.	1 ` ` ` ` ` `
YASOJ-SEECAKHT	34101	1995	258	11	90	2880	29.7				
HANA	34104	1994			Į			1	12		0.4
SAMIROM	34105	1994	75	11		1490	4.5	4	31.7		4
MAL-KHALIFEH	34106	1993	64	23	43	2286	8.96	12	7.2	21	2.74
DASHTROOM	34107	1995	14	49	90	3820	9.53				
MEHRGERD	34201	1994	42	12		2000	3.3	75	13		30.4
IMAMGHIS-DORAHAN	34202	1994	31	16	30	5433	9.74	6	15		2.8
BROJEN-SEPIDASHT	34203	1990	449	15	43	4324	85.49	60	9.5	58	18.02
GANDOMAN-BELDAJI	34204	1994	300	12	43	3360	43.55	18	48	156	27.54
SHALAMZAR	34205	1993	134	5.2	25	2258	5.63	24	18.9	46	14.29
ARDEL	34206	1993	14	7.7	16	2278	1	20	9.7	45	6.2
KYAR	34207	1993	129	14.8	64	3070	21.05	22	29.7	135	20.63
Shahrekurd-hafeshjan	34208	1993	696	23.2	73	2538	147.5	125	37.6	223	148.38
SORSHEJAN-VANAN	34209	1993	43	2.2	23	1479	0.5	80	19.8		49.74
FARSAN-JONEGHAN	34210	1993	212	6.3	53	1791	8.58	7	52.5		11.6
JAVANMARDI	34214	1990	537	15	47	3042	88.2	. 14	9	30	4
CHENARMAHMODI	34215	1990	74	13.8	28	3346	10.3	2	7	10	0.44
BARDBAR	34216	1990	4	17	27	2070	0.5	8	5.7	15	1.5
LORDEKAN	34217	1990	53	14.7	31	3697	10.4	3	3.4	7	0.32

	Groundwater

Table C-3-0 Water Qu	Name Plain Code Na Mg Ca SO4 Cl HCO3									
Name	Plain Code	Na	Mg	Ca	SQ4	Cl	HCO3	ph	EC	TDS
SAMIROM	34105	5.97	2.04	3.70	5.10	1.84	3.11	7.93	970.00	639.00
BROJEN-SEPIDASHT	34203	1.02	1.82	1.34	1.32	1,06	1,54	9.00	453,00	297.00
GANDOMAN-BELDAJI	34204	0.55	1.64	1.41	0.48	0.41	2.43	8.97	374.00	244.00
SHAHREKURD-HAFESHJAN	34208	0.80	1.69	1.84	1.02	0.63	2.31	8.89	448.00	290.00
FARSAN-JONEGHAN	34210	0.30	1.22	1.28	0.53	0.38	0.53	1.72	291.00	193.00
LORDEKAN	34217	0.93	2.51	1.21	0.92	1.06	2.11	9.16	493.00	325.00
Average		1.60	1.82	1.80	1.56	0.90	2.01	7.61	504.83	331.33