

Table 2 - 6 (2) Clients and Partners for Sale

unit : number of household

Project Site	Q12. To whom sold				
	T.M.O.	process- ing mill	broker	Coopera- tives	others*
HACILAR	15	0	10	0	5
URUNLU	7	7	3	0	0
KALESEKISI	0	0	11	0	8
Karavansarai	2	9	7	3	0
KOZLUK	0	5	15	0	0
KUSKARA	0	7	7	1	4
OZDENK	0	5	5	2	5
ASLANLAR	0	2	14	4	2
ILYASKOY	0	2	9	6	0
K.Karistiran	10	10	5	10	8
10 Pr Village	34	47	86	26	32
composition	29%	41%	74%	22%	28%

note : * includes self vending, market and road-side stall sales etc.

Table 2 - 6 (3) Supplying Sources of Farm Inputs

unit : number of household

Project Site	Q13 (2) INPUT SUPPLY SOURCE				
	mills	broker	store	coopera- tives *	others
HACILAR	0	0	0	12	0
URUNLU	2	0	0	7	0
KALESEKISI	0	11	0	0	0
Karavansarai	0	3	0	5	0
KOZLUK	0	0	1	7	0
KUSKARA	4	0	0	0	0
OZDENK	4	5	0	7	0
ASLANLAR	1	15	0	5	0
ILYASKOY	4	9	0	0	0
K.Karistiran	0	7	0	0	0
10 Pr Village	1.5	5	0	4.3	0

Table 2-7 (1) Farm Household Member and Farm Labor

Project Name	unit : person, man-day for hire and Annual Total Hired Labor									
	Q3 young female	Family male	member Aged <50 years old female	composition male	children girl	boy	family labor	Hired Labor		
HACILAR	2.5	2.1	0.6	0.8	1.1	0.9	4.0	48.8		
URUNLU	2.0	1.4	0.6	0.1	1.0	1.0	3.0	102.1		
KALESEKISI	1.1	1.8	0.5	0.5	0.4	0.5	2.5	72.7		
Karavansarai	2.4	2.7	0.5	0.5	1.5	1.7	3.4	4.6		
KOZLUK	2.2	1.8	1.2	0.6	0.4	0.5	1.8	79.4		
KUSKARA	2.1	1.7	0.9	0.9	1.6	1.0	4.6	3.6		
OZDENK	1.8	1.8	0.6	0.6	0.3	0.8	2.7	92.2		
ASLANLAR	1.5	1.5	0.5	0.5	0.7	0.3	2.7	237.4		
ILYASKOY	1.5	1.3	0.5	0.9	0.5	1.0	2.6	83.3		
K.KARUSTIRAN	2.0	1.6	0.6	0.8	0.5	0.5	2.8	75.5		
10 Pt Village	1.9	1.8	0.7	0.6	0.8	0.8	2.9	85.7		
Real Average	1.9	1.8	0.7	0.6	0.7	0.8	2.8	85.2		

Project Site	Q26. Suffering farm labor shortage or not		unit : household replied	
	YES	NO	YES	NO
HACILAR	7	11		
URUNLU	2	6		
KALESEKISI	0	11		
Karavansarai	8	8		
KOZLUK	0	18		
KUSKARA	3	3		
OZDENK	5	3		
ASLANLAR	5	10		
ILYASKOY	2	9		
K.KARUSTIRAN	2	8		
aggregate composition	34	87	28%	72%

Source : all tables are derived from Farm Economic Survey results.

Table 2 - 7 (2) Farm Input Utilization

Project Site	sampled house hold	Q.8 ANNUAL INPUT QUANTITIES, UNIT PRICES AND VALUES											
		SEED			FERTILIZERS			CHEMICALS			ENERGY		
		amount	u price	Value	amount	u price	Value	amount	u price	Value	Kerosene	Elect. Water	
HACILAR	16	1431	27	39	3	34	115	22	1	13	1	-	-
URUNLU	7	1874	25	47	10	28	270	15	2	31	4	-	-
KALESEKISI	11	0	0	0	8	27	216	14	3	35	0	-	-
CAMLIBEL	10	863	20	17	3	25	71	5	2	9	1	-	79
KOZLUK	19	68	2	0	2	22	51	1	3	2	0	-	-
KUSKARA	7	1314	9	12	3	34	117	1	25	25	1	-	-
OZDENK	9	1563	33	51	3	28	76	10	1	6	1	-	282
ASLANLAR	15	627	34	22	5	27	123	23	2	36	3	-	82
ILYASKOY	11	2362	79	187	3	28	90	17	2	36	1	-	132
K.KARISTIRAN	10	2	30	0	9	20	177	28	4	111	3	45	-
10 Pr Village	115	1010	26	37	5	27	131	14	4	30	12	23	107
Average		983	29	29	4	24	-	14	0	-	12	45	274
UNIT	Family	kg	1000		ton	1000		kg	million		litre	kwh	mil.TL

Project Site	CONTINUED FROM ABOVE				Q.8 ESTIMATED ANNUAL INPUT VALUE								
	LABOR	FEEDS	Material	Other	Seed	Fertiliz	Chemil	Energy			Hired	Animal	Mate-
	manday		Input		TOTAL	TOTAL	TOTAL	Kerosene	Electricity	Water	Labor	Feeds	rial
HACILAR	34	1	19	9	7	66	17	95	0	0	100	0	10
URUNLU	0	-	-	-	3	44	17	67	0	1	94	0	10
KALESEKISI	43	14	-	-	5	43	16	65	0	1	95	0	10
CAMLIBEL	3	-	-	-	5	41	17	50	0	1	91	0	10
KOZLUK	8	6	-	-	5	29	16	25	0	1	81	0	10
KUSKARA	0	3	-	-	6	25	18	16	0	1	69	0	10
OZDENK	0	-	-	-	7	33	17	19	0	1	68	0	10
ASLANLAR	1	-	-	-	8	35	17	21	0	1	61	0	8
ILYASKOY	1	1	-	-	9	41	18	33	0	1	59	0	7
K.KARISTIRAN	6	0	-	-	9	46	17	39	0	1	41	0	3
10 Pr Village	7	2	0	25	87	20	116	0	16	107	12	2	1
Average	7	11	19	9	98	20	116	0	0	107	12	2	1
UNIT	day	ton	ton	ton	MILLION T L				Million T.L.				

Project Site	Q25. Need of More Mechanization				Q34. How to Feed Livestock in winter ?					
	YES	NO	desirable own	hiring	what machinery is desirable to add ?	by-pro duct	Feed grain	Processed Feeds	Herd deposit	Other forms
HACILAR	11	4	11	3		46.9	32.5	20.6	0	0
URUNLU	1	1	7	0		39.3	17.1	43.6	0	0
KALESEKISI	9	2	7	0		37.5	0.0	62.5	0	0
CAMLIBEL	10	0	8	0		25.0	47.0	27.5	0	0
KOZLUK	9	9	10	0		12.6	60.5	29.5	0	0
KUSKARA	4	3	2	0		27.1	27.1	31.4	0	0
OZDENK	9	1	9	0		44.6	38.1	17.3	0	0
ASLANLAR	11	4	13	2		39.5	22.7	37.7	0	0
ILYASKOY	3	6	5	0		36.3	38.1	25.6	0	0
K.KARISTIRAN	9	1	10	0		40.0	42.0	18.0	0	0
10 Pr Village	76	31	82	5		34.9	32.5	31.4	0%	0%
Share Compo.	66%	27%	71%	4%		%	%	%		

Source : all tables are derived from Farm Economic Survey results

Table 2 - 7 (3) Labor Balance Situation in Priority Project Sites based on Farm Economy Survey

unit : person-household, decare, man-day and million TL / day hire

	labor per Annual household Farm L*		Mean	Major Crop Composition in decare							
			acreage	cereal	beet	sunflower	cotton	orchard	vegetable	others	
Hacilar	4.0	960	106	79	0	25	0	0	0	0	2
Urunlu	3.0	720	170	118	51	1	0	0	0	0	0
Kalesekisi	2.5	600	15	0	0	0	0	12	0	3	
Camlibel	3.4	816	92	40	28	0	0	0	20	4	
Kozluk**	1.8	450	58	3	0	0	0	32	5	18	
Kuskara	4.6	1150	74	31	14	0	0	5	9	15	
Ozdenk	2.7	675	113	74	6	0	0	5	5	23	
Aslanlar	2.7	756	67	19	0	0	36	8	4	0	
Ilyaskoy	2.6	728	74	50	0	10	0	5	5	4	
K.Karistiran	2.8	784	177	107	18	50	0	2	0	0	
10 Project	3.0	763.9	94.6								

	Annual Labor Requirement by Crop in man-day								annual hired	Total lab. L	supply	Labor Balance	meeting rate
	Total	cereal	beet	sunfl.	cotton	orchard	vegetal	others					
Hacilar	163.1	110.6	0	42.5	0	0	0	10	48.8	1008.8	845.7	6.19	
Urunlu	962.5	165.2	795.6	1.7	0	0	0	0	102.1	822.1	-140.4	0.85	
Kalesekisi	249.0	0	0	0	0	234	0	15	72.7	672.7	423.7	2.70	
Camlibel	986.8	56	436.8	0	0	0	474	20	4.6	820.6	-166.2	0.83	
Kozluk**	894.9	62.4	0	0	0	624	118.5	90	79.4	529.4	-365.5	0.59	
Kuskara	647.6	43.4	218.4	0	0	97.5	213.3	75	3.6	1153.6	506.0	1.78	
Ozdenk	528.2	103.6	93.6	0	0	97.5	118.5	115	92.2	767.2	239.0	1.45	
Aslanlar	774.2	26.6	0	0	496.8	156	94.8	0	237.4	993.4	219.2	1.28	
Ilyaskoy	323.0	70	0	17	0	97.5	118.5	20	83.3	811.3	488.3	2.51	
K.Karistiran	554.6	149.8	280.8	85	0	39	0	0	75.5	859.5	304.9	1.55	
10 Project	608.4								79.96	843.86	235.5	1.97	

note: * : annual family labor assuming 8 hours farm labor per day ** : cereal in Kozluk is paddy

Seasonal Labor Requirement per Decare by Crop abbreviation ; sunfl. = sunflower, L = labor

Crop	wheat	barley	maize	paddy	beans	pea	beet	cotton	sunflower	tobacco	hemp
in crop hour	11.6	9.6	30.7	166.0	43.9	28.5	124.9	110.4	13.2	297.0	149.9
in man-day	1.5	1.2	3.8	20.8	5.5	3.6	15.6	13.8	1.7	37.1	18.7

Crop	potato	grape	tomato	garlic	d.onion	alfalfa	melon	w-melon	apple#	cherry#	bazeln#
in crop hour	73.1	94.9	203.8	223.2	175.0	54.2	26.3	59.1	229.4	141.8	193.5
in man-day	9.1	11.9	25.5	27.9	21.9	6.8	3.3	7.4	28.7	17.7	24.2

note: # for only matured orchard with fruit bearing trees

Source : all tables are derived from Farm Economic Survey results, processed by the Study Team

Table 2.8 (1) Inputs and Farm-Labor Prices

Item of Inputs	unit	1988	1989	1990	1991	1992	1993	1994	1995	1996
FARM LABOR	TL / hr	625	1,050	1,875	2,810	5,187	8,750	16,250	31,250	65,000
MACHINERY	TL / hr	13,801	19,097	30,727	42,360	72,000	86,254	211,750	487,820	1,736,110
N-FERTILIZER	TL / kg	442	634	625	1,802	2,100	4,345	8,750	28,396	57,091
P-FERTILIZER	TL / kg	375	530	515	1,026	1,656	2,930	3,750	23,581	52,079
HERBICIDES	TL / kg	5,600	7,750	9,750	15,583	15,280	38,890	99,400	217,100	400,000
DSI-WATERFEE										
CEREAL/irrigated	TL / kg	1,300	1,820	3,700	6,300	7,000	13,000	24,000	50,000	125,000
CEREAL/PUMP	TL / kg	2,860	4,000	7,900	13,400	17,000	32,000	59,000	126,000	315,000
SUGARBEET	TL / kg	3,060	4,280	8,700	14,800	19,000	36,000	67,000	151,000	380,000
S-BEET/PUMP	TL / kg	6,660	9,320	18,900	32,000	42,000	79,000	146,000	377,000	940,000
OIL of PUMP*	TL / ltr.	436	1,127	1,593	2,253	4,209	5,364	11,752	18,751	50,978
RENTS (dry)	TL / ha	5,000	11,500	17,000	25,000	36,000	50,000	150,000	300,000	500,000
HARVEST-labor	TL / ha	21,000	30,000	58,000	100,000	128,000	200,000	400,000	700,000	1,500,000
TRANSPORT-labor	TL / kg	5.5	8.5	16	20	25	50	100	275	500
BARLEY Seed	TL / kg	140	250	450	750	1,000	2,000	3,000	5,000	12,750
LENTIL SEED	TL / kg	300	450	940	950	3,000	3,500	15,000	53,571	60,000
K.BEAN seed	TL / kg		1.25							
SEED POTATO	TL / kg	150	500	800	1,074		2,000	3,000	5,000	
MELON SEED	TL / kg	6,000	10,000	25,000	35,000	50,000	75,000	200,000	350,000	500,000
PADDY SEED	TL / kg	400	1,000							
BEET Seed	TL / kg						77,000			

* : 4.5 litre / decar / year

Source : GDRS Economy Institute Data

Table 2.8 (2) Price of Commodities other than Supported

Unit: 1,000 TL for crop, livestock products and chicken, million TL for livestock (adult price)

Crop Prod.	1991	1992	1993	1994	1995	1996	Crop Production	1991	1992	1993	1994	1995	1996
Feed Bley	0.6	1	1.7	3.1	5.9	11.5	Table Grape	4.2	7.1	11.8	25.6	27.0	29.0
Sunflower	2	3.4	5.5	15.3	24.0	35.0	Cherry	3.0	4.3	9.8	15.3	24.5	41.0
Dry Broadbean	1.4	2.3	4.3	10.5	-	-	Melon	1.1	1.7	4.0	5.9	-	-
Garden Pea	2	3.3	6.9	12.9	30.0	61.5	Watermelon	0.8	1.1	2.8	4.4	7.5	13.8
Kidney Bean	3.9	4.9	7.2	21.5	38.5	62.6	Squash	1.4	1.8	3.9	6.7	11.4	21.8
Lentils	2.2	3.6	5.4	12.4	26.8	60.0	Tomatoes	1.4	2.2	5.0	7.8	13.6	24.8
Chick Pea	1.8	3	4.7	14.4	27.5	55.0	Brinjal	1.5	2.5	4.9	8.2	-	-
Raw Cotton I	2.9	4.5	7.1	18.3	33.8	67.0	Cucumber	1.5	2.2	4.5	8.2	-	-
Raw Cotton II	2.9	4.1	5.9	17	-	-	Okra	4.3	7.6	14.1	25.5	-	-
Potatoes	0.9	1.4	2.7	5.5	9.8	16.0	Hen's Egg	0.3	0.8	1.0	1.7	2.7	4.1
Polished Rice	2.9	5.3	7.6	13.7	22.7	42.0	Cow Milk	1.7	2.8	4.3	8.5	16.7	30.7
R.Sugarbeet	0.18	0.29	0.45	1.25	2.4	4.4	Sheep Milk	2.0	3.2	5.0	9.6	-	-
Dried Onion	1.1	1.4	3.2	12.1	17.5	23.0	Chicken	20.9	39.1	62.1	116.0	217.0	379.6
Groundnut	3.9	5.8	10.3	22.1	-	-	Adult Ewe	0.3	0.6	1.1	2.1	3.8	6.9
Dried Clover	0.5	0.7	1.5	3.3	5.7	10.0	Lamb	0.2	0.3	0.6	1.1	-	-
Hazelnuts	4.3	7.6	12.6	38.4	-	-	She-Goat	0.2	0.4	0.8	1.6	-	-
Dried Fig	4.1	7.3	14.5	28.5	-	-	ferm.Buffalo	1.7	3.3	5.7	12.4	-	-
Europ' Apple	1.6	2.9	4.3	10.2	13.5	29.5	Milch Cow	1.4	2.9	4.9	9.3	15.3	28.5
Indig' Apple	1.2	2.2	3.4	7.8	12.9	20.0	Calf	0.9	1.9	3.2	6.1	-	-
Juice Orange	1.1	1.9	2.5	5.5	-	-	Europ' Cow	3.2	6.1	10.3	20.4	-	-
Table Orange	1.9	3.3	4.2	8.6	17.4	35.5	Hybr' Cow	2.2	4.4	7.3	14.3	23.6	43.7

Source : Statistic Bulletin of Economics 1995-1996

Table 2-8 (3-1)

PRICE LIST AS OF JULY 1997

unit : TL, MLN= million TL, * 50% subsidized (farmers pay half of listed amount)

ITEM	PLACE	UNIT	PRICE**	ITEM	PLACE	UNIT	PRICE
Farm Inputs				Crop Farm-Gate			
urea*	Kastamonu	50kg bag	35,000	sugar beet root	Kastamonu	kg	11,000
compound*	d.o.	8-24-8 kg	38,000	dry garlic	d.o.	kg	10,500
sugarbeet seed*	d.o.	kg	6,000,000	dried hemp	d.o.	kg	11,000
d.o.	d.o.	da	500 gr.	wheat to broker	d.o.	kg	26,000
water pump	Samsun	15kWnos	85 MLN	wheat to T.M.O	d.o.	kg	28,000
diesel engine pump	d.o.	kg	250 MLN	fuel wood	d.o.	kg	35,000
sprinkler pipe	d.o.	6m. nos	1,500,000	hazelnut highQ.	Samsun	kg	330,000
head+riser+branch	d.o.	nos	7,050,000	hazelnut ordnQ.	d.o.	kg	300,000
diesel fuel	Tokat	ltr	100,000	hazelnut ordnQ.	new price	kg	400,000
chem.*decis*	d.o.	kg	4,000,000	rice paddy	Samsun	kg	55,000
d.o.insecticide	d.o.	da	40gr./spray	husked rice	d.o.	kg	100,000
D.A.P.*	d.o.	50kg bag	1,600,000	high Q. rice	d.o.	kg	120,000
urea*	d.o.	50kg bag	1,650,000	wheat to T.M.O	Tokat	kg	36,000
compound	d.o.	50kg bag	1,100,000	barley to T.M.O.	d.o.	kg	22,000
ammo-nitrate 26	d.o.	50kg bag	1,200,000	tobacco leaf	d.o.	kg	500,000
ammo-nitrate 32	d.o.	50kg bag	1,250,000	water-melon	d.o.	kg	37,000
water pump 13 HP	d.o.	nos	208 MLN	summer straw	nkara, Kirikk	kg	14,000
water pump 17 HP	d.o.	nos	235 MLN	winter straw	d.o.	kg	20,000
thresher	d.o.	nos	430 MLN	fresh alfalfa	Eskisehir	kg	25,000
sprayer attd to tra.	d.o.	nos	180 MLN	dried alfalfa	d.o.	kg	55,000
knapack sprayer	d.o.	nos	71 MLN	barley straw	d.o.	25kg bale	80,000
farmyard manure	d.o.	kg	6,000	wheat straw	d.o.	kg	7,000
Holstein adult	d.o.	head	175 MLN	winter straw	d.o.	25kg bale	250,000
sunflower seed	d.o.	kg	850,000	wheat straw	Bursa, July	kg	3,000
d.o.	d.o.	per da	0.4kg	wheat straw	ursa, Noveml	kg	10,000
Trakya winnower	d.o.	nos	80 MLN	wheat straw	Bursa, sprin	kg	13,000
wheat-straw baler	d.o.	nos	250 MLN	Livestock			
hydraulic disc	d.o.	nos	350 MLN	draught cow	Kastamonu	head	75-100MLN
weedicide "logram"	d.o.	kg	640,000	born calf	d.o.	head	200,000
D.A.P.*	d.o.	50 kg bag	1,600,000	milk	d.o.	kg	30,000
T.S.P.*	d.o.	50 kg bag	1,250,000	milk to broker	Tokat	kg	35,000
urea*	d.o.	50 kg bag	1,250,000	mutton	d.o.	kg	750,000
ammo-sulphate 21	Bursa	50 kg bag	1,035,000	draught cow	Bursa	head	150 MLN
ammo-sulphate 26	d.o.	50 kg bag	1,200,000	Holstein adult	d.o.	head	250 MLN
T.S.P.*July 97	d.o.	50 kg bag	1,700,000	milk	d.o.	ltr.	35,000
urea* July 1997	d.o.	50 kg bag	1,650,000	indigenous cow	nkara, Kirikk	head	150 MLN
compound 15-15-15	d.o.	50 kg bag	1,400,000	Jersy adult cow	d.o.	head	80 MLN
nitrate-phosphate	d.o.	50 kg bag	2,300,000	hubrid adult cow	d.o.	head	180 MLN
calcium nitrate	d.o.	50 kg bag	1,520,000	Holstein adult	d.o.	head	200 MLN
thiodan	d.o.	500 g.	1,650,000	sheep adult	d.o.	head	18 MLN
dithane	d.o.	250 ml.	2,420,000	lamb female	d.o.	head	10 MLN
totem	d.o.	500 ml.	4,500,000	Service, Wages			
pyrspar	d.o.	4 ltr.	1,900,000	tractor rent fee	Kastamonu	da, not hr	765,000
talstail	d.o.	250 ml.	2,190,000	farm labor	d.o.	man-day	700,000
folidol M35	d.o.	1ltr.	88,000	d.o.	d.o.	in spring	600,000
anthracol	d.o.	4 kg	5,995,000	livelihood	d.o.	man-day	400,000
thiovit	d.o.	1 ltr.	1,210,000	minimumBHN	d.o.	man-day	350,000
lida ORC	d.o.	1 kg	3,430,000	electricity	Samsun	kWh	9,000
mavrik	d.o.	250 ml	3,080,000	farm labor	d.o.	man-day	1,000,000
supra-100	d.o.	1 ltr.	3,245,000	cowdung	d.o.	cart	3,000,000
farmyard manure	d.o.	ton	2,500,000	d.o (tezek)	d.o.	ton	6,000,000
water hose pipe	d.o.	6 m.	40,000	electricity*	Tokat	kWh	11,360
well drilling	d.o.	m.	25 MLN	sugarbeet tax to mill	d.o.	per sale %	2
hybr cucumber seed	d.o.	seed	180,000	digging well	d.o.	per m.	25 MLN
mixed feed	d.o.	50 kg bag	2,000,000	A.I. for cow	d.o.	1 time	400,000
wooden trailer	d.o.	nos	1,750,000	veterinarian service	d.o.	1 time	400,000
tractor trailer	d.o.	nos	400 MLN	cold storage fee	nkara, Kirikk	3month/kg	100,000
tractor J.Deer	d.o.	100 HP	1,000 MLN	farm labor	Izmir	man-day	1,200,000

Source : all tables are derived from Farm Economic Survey results, processed by the Study Team

Table 2-8 (3-2)

PRICE LIST FOR AS OF JULY 1997

unit : TL, MLN= million TL * 50% subsidized (farmers pay half of listed amount)

ITEM	PLACE	UNIT	PRICE**	ITEM	PLACE	UNIT	PRICE
Farm Inputs				TMO purchase prices as of July 1997			
vinyl greenhouse	ursa, Yalov	total/da	543 MLN	Anatolian durum	whole state	kg	46,550
of which, frame	d. o.	5.3%	28.8 MLN	other durum wheat	d. o.	kg	39,950
o.w., vinyl sheet	d. o.	26.3%	142.8 MLN	low protein m wheat	d. o.	kg	30,000
construction cost	d. o.	68.4%	371.3 MLN	white hard wheat	d. o.	kg	38,300
vinyl sheet	d. o.	kg	275,000	An red semi-hard wt.	d. o.	kg	35,000
vinyl sheet	d. o.	per da	520 sq. m.	red semihard wheat	d. o.	kg	33,350
house drip system	d. o.	total/da	600 MLN	white semi-hard wt.	d. o.	kg	31,700
o. w. well-drilling	d. o.	10 m.	150 MLN	other red bread wt.	d. o.	kg	30,050
o. w. pump+engine	d. o.	nos	200 MLN	feed wheat	d. o.	kg	27,000
o.w., drip pipes	d. o.	600 m.	210 MLN	white barley	d. o.	kg	26,000
o.w., water-filter	d. o.	nos	40 MLN	black / brown barley	d. o.	kg	24,350
water pump 6 HP	d. o.	nos	200 MLN	feed barley	d. o.	kg	19,250
water pump 6 HP	d. o.	nos	250 MLN	rye wheat	d. o.	kg	26,000
hired labor	d. o.	da-year	305 MLN	oats	d. o.	kg	26,000
hired labor unit	d. o.	man-day	1,100,000	maize	d. o.	kg	29,700
stable building	d. o.	16m x 8m	1,000 MLN	crop farm-gate prices			
processed feed	d. o.	50 kg bag	1,600,000	oats grain	Samsun	kg	30,000
compound 10:45:10	d. o.	25 kg bag	10 MLN	oats straw	d. o.	kg	35,000
plant production (I)	d. o.	25 kg bag	10 MLN	paddy high Q.	d. o.	kg	60,000
compound 11:11:33	d. o.	10 kg bag	2,900,000	d.o.normal Q.	d. o.	kg	50,000
(polifed + MgO)				husked rice	d. o.	kg	140,000
				beet pulp from mill	d. o.	kg	7,500
Captan	d. o.	per da/year	100 MLN	cherry fruit	Adana	kg	110,000
paper carton	d. o.	box	20,000	grape	d. o.	kg	100,000
wooden box	d. o.	box	22,000	dry beans	Kastamonu	kg	136,000
water fee	d. o.	hr	40,000	dry garlic	d. o.	kg	60-100 thou.
water fee	d. o.	48 hrs/da	19.2 MLN	grape	Izmir	kg	18-19 thou.
well drilling	Eskisehir	0-6m per m	1,500,000	cotton	d. o.	kg	120-250 thou.
d. o.	d. o.	6-15m d.o.	2,000,000				
d. o.	d. o.	15-40m d.o.	3,000,000	Farm Input Prices			
kerosene fuel	d. o.	ltr.	90,000	cotton seed	Izmir	kg	48,000
water pump	d. o.	16 HP nos	280 MLN	processed feed	Istanbul	kg	31,000
d. o.	d. o.	13 HP nos	240 MLN				(0.125kg/da weicide)
pneumatic seeder	d. o.	nos	350 MLN	logran herbicide	d. o.	kg	512,000
manure spreader	d. o.	nos	350 MLN	crop insurance fee	d. o.	da/year	350,000
straw baler	d. o.	nos	65 MLN				(0.4kg/da sunflower seed)
grain harvester	d. o.	nos	650 MLN	sunflower seed	d. o.	kg	255,000
remorque	d. o.	nos	400 MLN	Karate pesticide	Tokat	ltr.	4,000,000
PVC water-pipe	Yalova	m./12mm	125,000				(40 ml/da/tim) (0.36kg/da beet-seed)
d. o.	d. o.	m./16mm	148,000	sugarbeet seed*	d. o.	kg	560,000
d. o.	d. o.	m./20mm	217,500	sprinkler head	d. o.	12.5m rad.	2,500,000
drip emitting pipe	d. o.	m/25cm em	23,850	sprinkler pipe	d. o.	4, 6m nos	3,000,000
d. o.	d. o.	m/15cm em	28,950	d. o.	d. o.	3, 6m nos	2,500,000
patriot 12 EC	Istanbul	100 ml	1,603,000	water fee	Samsun	kWh	9,000
afalon dispSC	d. o.	1 ltr.	2,147,000	water / season	d. o.	per da	270,000
Select 240 EC	d. o.	1 ltr.	5,395,000	D.A.P.	Eskisehir	kg	33,925
mithos EC	d. o.	500 ml	2,124,000	26 nitrate	d. o.	kg	14,375
bronotak DS	d. o.	4 kg	6,336,000	esteolash herbicide	d. o.	17 ltr.	6,600,000
mitrus EC	d. o.	1 ltr.	4,640,000	benzal insecticide	d. o.	kg	3,000,000
frownicide EC	d. o.	500ml	3,031,000	decis insecticide	d. o.	kg	3,000,000
pennstil	d. o.	1 ltr.	6,425,000	maize seed	d. o.	kg	60,000
drop ultra SC	d. o.	5 ltr.	31.9 MLN	sunflower seed	d. o.	kg	250,000
agil extra 100EC	d. o.	1ltr.	3,905,600	wheat seed TTK	d. o.	kg	60,000
tomatut EC	d. o.	30ml	254,000	sugarbeet seed	d. o.	kg	11,000
Formone EC	d. o.	100 ml	145,000	motor pump	d. o.	nos	200 MLN
Koy-Gibb EC	d. o.	50 g	215,000	sprinkler head	d. o.	nos	500,000
sowing machine	d. o.	nos	40 MLN	Service, Wages			
harvester	d. o.	nos	55.5 MLN	cotton picking	Izmir	per kg ctn.	27,500
auto-sprayer	d. o.	nos	62 MLN	machine hire charge	Yalova	per da	350,000
tractor	d. o.	120 HP	470 MLN	feeding pasture fee	Tokat	per year	60 MLN
tractor	d. o.	130 D	640 MLN	immune vaccines	d. o.	time	30,000

note : 10% VAT tax is additionally imposed to the above-listed retail price for farm implements.

Source : all tables are derived from Farm Economic Survey results, processed by the Study Team

Table 2.8 (4) Farm-Gate Price Farmers Declared

Project Name	Q7 Annual Crop Unit Prices Interviewed Farmers Declared													unit : 1,000 T.L. / kg		
	Cereal Crops			Pulses		Industrial/Oilseed/Fiber Crop			Feed Crop		Cash Crop		Vege- tables	Melons	Fruits	
	Wheat	Barley	Paddy	Beans	Beet	Sunfl.	Cotton	Hemp	Clov	Com	Oats	Potato				Onion
HACILAR	14.00	22.13	0	3.13	0.00	77.19	0	0	1.88	0	0	1.56	6.25	17.06	4.38	15.31
URUNLU	18.93	21.14	0	31.43	11.43	14.29	0	0	0	0	0	0	0	0	5.71	0
KALESEKISI	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92.27
Karavansarai	28.70	11.00	0	0	11.10	0	0	0	16.40	0	0	0	0	0	0	0
KOZLUK	2.11	0	281	0	0.00	0	0	0	9.74	0	0	0	0	0	0	0
KUSKARA	22.71	0	0	0	11.00	0	0	48.93	2.14	0	0	0	0	0	0	3.57
OZDENK	33.22	25.22	0	8.56	4.89	0	0	0	0	0	0	0	0	0	0	0
ASLANLAR	22.87	1.80	0	0	0	0	84	0	0	0	0	0	0	7.47	4.30	5.00
ILYASKOY	19.64	14.09	0	0	0	17.36	0	0	0	0	0	0	0	6.82	24.55	17.18
K.KARISTRAN	33.90	8.55	0	0	7.60	48.50	0	0	1.00	0	0	0	0	0	0	0
10 Pr Village	17.58	9.54	44	2.99	3.34	17.34	11	2.95	3.48	0	0	0.22	0.86	3.97	3.83	55.76
Real Average	19.61	13.80	15	10.84	9.02	43.43	84	48.93	6.52	0	0	1.56	6.25	10.95	9.07	80.85

Source : all tables are derived from Farm Economic Survey results

Table 2 - 9 Farmers Farm Properties

unit : number held per farm household

Project Name	Livestock holding		Machinery (and car) holding, users of hiring system		Q5		Q4		hired system	
	Bovine improvi. milk cow	sheep goat	fowls (duck)	Tractor	pump manure (unused) spreader	harvester	pick-up animal	win-ower		
HACILAR	0.9	0.0	0.8	0.7	0.4	0.6	0.0	0.1	0.1	31%
URUNLU	2.4	0.4	21.4	0.9	2.0	0.4	0.3	0.0	0.3	0%
KALESEKISI	0.8	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0%
Karavansarai	6.2	0.0	40.0	0.9	1.2	0.2	0.4	0.5	0.2	20%
KOZLUK	2.1	0.0	0.2	0.2	0.4	0.0	0.2	0.0	0.0	16%
KUSKARA	10.7	0.0	0.0	1.0	0.6	0.1	1.0	0.4	0.0	0%
OZDENK	3.8	1.0	62.2	0.6	0.3	0.4	0.3	0.0	0.4	0%
ASLANLAR	1.1	0.0	1.8	0.7	1.2	0.5	0.0	0.5	0.2	0%
ILYASKOY	3.0	1.0	0.5	0.8	0.5	0.5	0.0	0.1	0.5	9%
K.KARISTRAN	0.9	1.5	0.3	0.7	0.6	0.7	0.0	0.0	0.0	50%
10 Pr Village	2.6	0.3	10.0	0.6	0.7	0.3	0.1	0.5	0.1	16%
Real Average	2.6	1.0	11.2	0.6	0.7	0.5	0.5	0.3	0.1	24%

unit : head/fowl per farm household

Project Name	Q4 Livestock holding		Q4 Livestock holding	fowls (duck)
	Bovine milk cow	Improved sheep		
HACILAR	0.9	0.0	0.8	8.7
URUNLU	2.4	0.4	21.4	8.1
KALESEKISI	0.8	0.0	0.0	1.6
Karavansarai	6.2	0.0	40.0	11.6
KOZLUK	2.1	0.0	0.2	9.1
KUSKARA	10.7	0.0	0.0	17.0
OZDENK	3.8	1.0	62.2	5.0
ASLANLAR	1.1	0.0	1.8	5.7
ILYASKOY	3.0	1.0	0.5	3.9
K.KARISTRAN	0.9	1.5	0.3	16.0
10 Pr Village	2.6	0.3	10.0	8.2
Real Average	2.6	1.0	11.2	8.2

unit : same as above but square meters for green-house

Project Name	Q6 Implements / Farm-Building		storage		straw	
	Trailer	Green house	stable	cage	storage	straw
HACILAR	0.6	0.0	0.1	0.6	0.6	0.0
URUNLU	1.0	0.0	1.0	1.0	0.4	1.0
KALESEKISI	0.1	0.0	0.0	0.5	0.2	0.0
Karavansarai	0.9	0.0	0.3	0.6	0.2	0.0
KOZLUK	0.2	0.1	0.0	0.1	0.1	0.0
KUSKARA	1.0	0.0	0.1	0.6	0.0	0.0
OZDENK	0.4	0.0	1.0	1.0	0.3	1.0
ASLANLAR	0.8	0.0	0.0	0.6	0.1	0.7
ILYASKOY	0.8	357.5	0.1	0.7	0.3	0.2
K.KARISTRAN	0.9	0.0	0.8	0.8	0.2	0.1
10 Pr Village	0.6	33.9	0.3	0.6	0.2	0.0
Real Average	0.6	131.1	0.4	0.6	0.2	0.1

Source : all tables are derived from Farm Economic Survey results

Table 2 - 10 (1) Off - Farm Job Opportunities

Project Site	Q27. Off Farm Labor Use Opportunities in the Village?		Q28. Any Processing Jobs Available within Villages?		Q29. What off-farm Job are you currently engaged?			Q30. Has any family member left home village for job?		number of sample				
	Off-Farm Earning	Cottage Works Opportunity	YES	NO	Indu stry	Const- ruction	food- process service	Public	Others		NO	YES	Number persons returned	
HACILAR	2	1	0	0	1	0	2	0	0	12	2	2	0	16
URUNLU	1	0	0	0	0	0	0	0	0	7	0	0	0	7
KALESEKISI	0	0	0	0	0	0	0	0	0	10	0	0	0	12
Karavansarai	2	0	0	3	2	3	0	0	0	5	5	3	4	10
KOZLUK	2	0	17	3	5	4	1	0	0	12	7	5	0	19
KUSKARA	1	0	6	1	1	0	3	0	0	5	2	0	2	7
OZDENK	0	0	8	5	4	0	1	0	0	5	5	4	1	9
ASLANLAR	3	0	12	3	0	0	2	0	0	9	6	0	6	15
ILYASKOY	1	1	8	1	10	0	2	0	0	6	5	0	4	11
K.KARISTIRAN	0	0	2	1	9	0	1	0	0	3	6	0	0	10
aggregate composition	12	2	53	17	95	13	16	7	12	74	38	14	23	116
	10%	2%	46%	15%	83%	11%	14%	6%	10%	64%	33%	12%	20%	100%

Table 2 - 10 (2) Remittance from Family Member and Past Off-Farm Job Experience

Project Site	Q31. Remittance to Family		Q32. Any Past Off-Farm Experience?							Q33. Off-Farm Job Type						
	YES	NO	per-month amount	Vender roadside	Fish Farm	Shep- hard	Broiler	Serf- culture	Transpor- tation	Winery	Slaugh- tering	Cheese Manuf.	Own terprise	En- Hired	Group Cooperative	
HACILAR	7	11	5	10	0	0	9	7	0	2	0	0	5	11	1	0
URUNLU	4	7	0	0	2	0	1	0	0	3	0	0	0	4	0	0
KALESEKISI	0	7	0	0	1	0	1	0	0	0	0	0	0	4	0	0
Karavansarai	3	6	2	2	1	0	4	0	0	3	0	0	0	6	0	0
KOZLUK	13	6	0	1	1	0	0	3	0	0	0	0	1	7	0	0
KUSKARA	0	7	0	0	1	0	0	3	0	1	0	0	0	6	0	0
OZDENK	1	6	1	0	0	0	5	0	0	0	0	1	5	5	0	0
ASLANLAR	3	6	2	0	1	0	0	0	0	8	0	0	3	10	0	0
ILYASKOY	0	11	0	1	1	1	4	2	0	5	0	2	3	6	0	0
K.KARISTIRAN	0	2	2	0	0	0	2	1	0	4	0	1	0	5	0	0
aggregate composition	31	69	12	14	8	1	26	16	0	26	0	11	17	64	1	0
	27%	60%	10%	12%	7%	1%	23%	14%	0%	23%	0%	10%	15%	96%	2%	0%

Source : all tables are derived from Farm Economic Survey results

Table 2 - 11 (1) Summary of Other Interviewed Articles

Project Site	Q18 Is Any Income Increase Brought about by Irrigation ?			Q19 Necessity for Creating Sales Coop ?			Q20 Whether Satisfied or not with Supported / Offered Price				
	YES	NO	don't know	YES	NO	don't know	T. K. K. YES	T. K. K. NO	BROKER YES	BROKER NO	
HACILAR	16	0	0	8	16	0	0	6	9	0	9
URUNLU	7	0	0	4	7	0	0	1	6	0	6
KALESEKISI	11	0	0	6	11	0	0	4	7	0	11
Karavansarai	10	1	0	3	10	0	0	2	8	0	10
KOZLUK	19	0	0	2	17	2	0	7	12	16	13
KUSKARA	7	0	0	0	4	3	0	4	3	2	0
OZDENK	8	0	0	1	8	2	0	7	2	2	8
ASLANLAR	14	1	0	0	15	0	0	2	13	1	11
ILYASKOY	11	0	0	0	9	2	0	3	8	2	9
K.KARISTIRAN	10	0	0	0	9	1	0	9	1	5	5
mean 10 sites	113	2	0	24	106	10	0	45	69	28	82
composition	97%	2%	0%		92%	9%	0.0	39%	59%	24%	71%

note : * as compared to current levels of yield.

Project Site	number of Samples	Q21 Whether there is any Profitable Livestock / Crop or not ?					Q22. WHAT CONSTRAINTS ARE FARMERS NOW CONFRONT ?					
		not any	cows	sheep	chicken	industri- al crops	Fund	High price	Farm labor	Water short	Slope or Techniques	
HACILAR	16	0	7	4	4	13	2	2	0	0	16	0
URUNLU	7	0	2	5	0	7	4	1	0	0	5	0
KALESEKISI	12	0	9	3	1	0	5	6	0	10	0	0
Karavansarai	10	0	10	4	0	10	1	0	0	10	1	0
KOZLUK	19	0	0	0	0	19	0	0	0	19	0	0
KUSKARA	7	1	6	0	0	5	1	1	0	1	1	1
OZDENK	9	0	1	8	2	9	1	0	0	9	1	1
ASLANLAR	15	0	4	4	0	15	7	8	11	14	0	0
ILYASKOY	11	0	7	0	0	7	1	2	0	11	0	0
K.KARISTIRAN	10	0	8	1	0	10	4	3	0	0	0	0
aggregate	116	1	54	29	3	95	26	23	11	95	3	3
composition	100%	1%	47%	25%	3%	82%	22%	20%	9%	82%	3%	3%

Source : all tables are derived from Farm Economic Survey results

Table 2 - 11 (2) Correlation Coefficient Observed between Economic Factors

Project Site	Number Sampled	farm land holding		ann. farm income		farm land holding		ann. farm income		annual surplus*		
		ann. farm income	living expenditure	ann. hired labor	k.o.c.	ann. hired labor	k.o.c.	ann. hired labor	k.o.c.	ann. farm income	ann. farm income	ann. farm income
HACILAR	16	k.o.c.	0.79 cor.coef.	-0.11	k.o.c.	0.56	cor.coef.	-0.16	cor.coef.	0.19	cor.coef.	0.19
URUNLU	7	k.o.c.	0.84 cor.coef.	0.29	k.o.c.	0.93	cor.coef.	0.00	cor.coef.	0.07	cor.coef.	0.07
KALESEKISI	11	k.o.c.	0.90 cor.coef.	0.79	k.o.c.	0.78	cor.coef.	0.32	cor.coef.	0.52	cor.coef.	0.52
Karavansarai	10	k.o.c.	0.95 cor.coef.	0.35	k.o.c.	0.85	cor.coef.	0.20	cor.coef.	0.72	cor.coef.	0.72
KOZLUK	19	k.o.c.	0.91 cor.coef.	0.49	k.o.c.	0.86	cor.coef.	0.65	cor.coef.	0.73	cor.coef.	0.73
KUSKARA	7	k.o.c.	0.93 cor.coef.	0.14	k.o.c.	0.80	cor.coef.	0.84	cor.coef.	0.63	cor.coef.	0.63
OZDENK	9	k.o.c.	0.97 cor.coef.	0.91	k.o.c.	0.95	cor.coef.	0.65	cor.coef.	0.54	cor.coef.	0.54
ASLANLAR	15	k.o.c.	0.89 cor.coef.	0.57	k.o.c.	0.82	cor.coef.	0.53	cor.coef.	-0.23	cor.coef.	-0.23
ILYASKOY	11	k.o.c.	0.83 cor.coef.	0.59	k.o.c.	0.77	cor.coef.	0.32	cor.coef.	0.63	cor.coef.	0.63
K.KARISTRAN	10	k.o.c.	0.99 cor.coef.	0.58	k.o.c.	0.93	cor.coef.	0.73	cor.coef.	0.68	cor.coef.	0.68

note : k.o.c. = Kendall's order correlation ann. ; annual

Deduced Relationships among Various Economic Factors as tabulated above :

- 1 The bigger the land holding size, the higher farm income results.
typical cases : **Camibel, Ozdenk and K.Karistran**
- 2 The more farm income is earned, the more living expense follows.
typical cases : **Ozdenk and Kalesekisi**
- 3 The bigger the land holding size, the more hired labor is employed
typical case : **Ozdenk**
- 4 The more the farm income holding size, the more hired labor is employed
typical cases : **Ozdenk and Kuskara**
- 5 The bigger the land holding size, the more annual surplus in household budget results.
typical case : **Kozluk Camibel and K.Karistran**

Figure 2 - 1 Average Relief of Interviewed Results as a Basis of General Overview

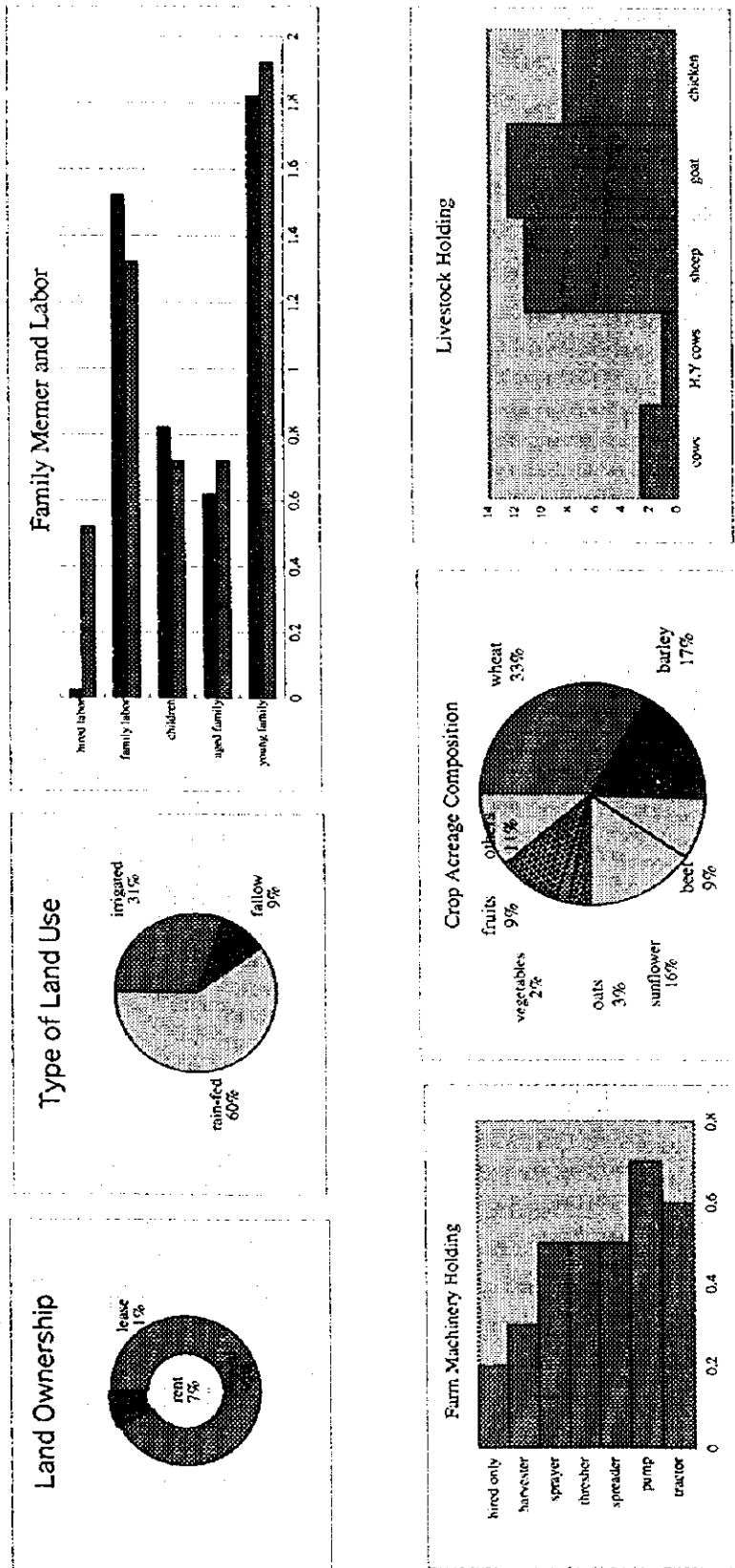


Figure 2 - 2 Average Relief of Interviewed Results as a Basis of General Overview (contd.)

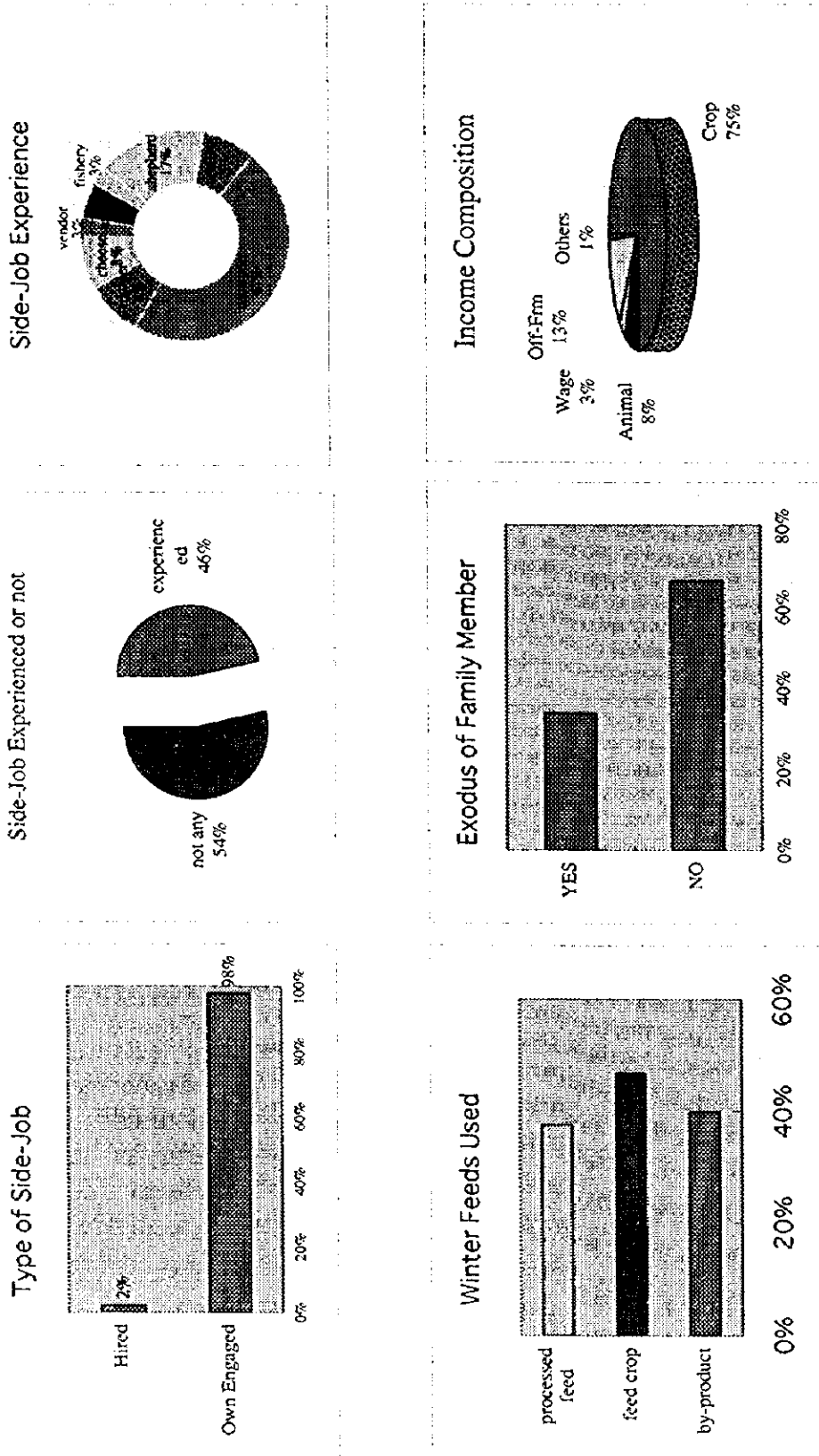


Table 3-1 Unit Input Price Trends

unit: specified item by item

INPUT	1988	1989	1990	1991	1992	1993	1994	1995	1996
Labor wage (TL/h)	625	1,050	1,875	2,810	5,187	8,750	16,250	31,250	65,000
Machinery (TL/h)	13,801	19,097	20,727	42,360	72,000	86,251	211,750	487,420	1,736,110
N-Fertilizer (TL/kg)	441.5	634	625	1,802	2,100	4,345	8,750	28,396	57,091
P-Fertilizer (TL/kg)	375	530	515	1,026	1,656	2,930	3,750	33,581	52,079
Herbicides (TL/kg)	5,600	7,750	9,750	15,583	15,280	38,890	99,400	217,100	460,000
DSwaterfee (TL/da)									
for Cereal	1,300	1,820	3,700	6,300	7,000	13,000	24,000	50,000	125,000
for Cereal Pump	2,860	4,000	7,900	13,400	17,000	32,000	59,000	126,000	315,000
for Sugar-beet	3,060	4,280	8,700	14,600	19,000	36,000	67,000	151,000	380,000
for Sugarbeet Pump	6,660	9,320	18,900	32,000	42,000	79,000	146,000	377,000	940,000
Oil for Pump (TL/ltr)	436	1,127	1,593	2,253	4,209	5,364	11,752	18,751	50,978
dryland Rent (TL/da)	5,000	11,500	17,000	25,000	36,000	50,000	150,000	300,000	500,000
Harvester Fee (TL/h)	21,000	30,000	58,000	100,000	128,000	200,000	400,000	700,000	1,500,000
Transport Fee (TL/kg)	5.5	8.5	16	20	25	50	100	275	500
Wheat seed (TL/kg)	150	350	650	850	1,250	2,500	4,000	9,750	14,600
Barley seed (TL/kg)	140	280	480	780	1,000	2,000	3,000	3,000	12,750
Lentil seed (TL/kg)	300	480	940	950	3,000	5,500	15,000	53,500	60,000
Beans seed (TL/kg)		125							
Potato seed (TL/kg)	150	500	800	1,074		2,000	3,000	5,000	
Melon seed (TL/kg)	6,000	10,000	25,000	35,000	50,000	75,000	200,000	350,000	500,000
Rice seed (TL/kg)	400	1,000							
Sugarbeet seed						77,000			

Source: GDRS economy data from the Institute

Table 3-2 Agricultural Credits Available to Farmers

unit: billion TL at annual current price

Loan Source and Kind	situations	1989	1990	1991	1992	1993	1994	1995	composition
Total Available Credits to Farm Households	new loans	3,977.2	5,703.2	9,880.2	18,724.0	34,502.3	46,832.6	151,507.3	31%
	outstanding	7,284.8	12,609.3	17,787.2	38,769.2	58,486.6	119,650.5	325,615.8	67%
	overdue	205.8	556.3	1,057.7	820.7	977.9	728.8	2,062.8	0%
	litigated	268.6	464.9	717.4	837.6	1,227.5	2,199.4	4,280.2	1%
Agricultural Bank Loan (Ziraat Bankası Kredileri)	new loans	1,391.0	2,255.3	2,964.8	5,420.9	14,761.2	25,756.5	127,880.0	47%
	outstanding	2,136.3	2,711.5	3,533.1	5,904.2	18,671.6	40,345.9	136,927.7	50%
	overdue	205.8	556.3	1,057.7	820.7	977.9	728.8	2,062.8	1%
	litigated	268.6	464.9	717.4	837.6	1,227.5	2,199.4	4,280.2	2%
Farming Operation Credits	new loans	-	-	2,460.0	4,531.6	11,005.8	24,789.1	110,626.7	46%
	outstanding	-	-	2,349.0	4,339.5	16,730.6	37,459.6	121,897.1	51%
	overdue	-	-	865.7	670.3	867.0	647.3	1,872.6	1%
	litigated	-	-	450.8	550.1	907.9	1,861.5	3,953.5	2%
Agricultural Investment Credits	new loans	-	-	442.7	815.5	3,542.3	717.1	15,606.4	53%
	outstanding	-	-	940.0	1,361.4	1,654.2	2,416.8	13,143.1	45%
	overdue	-	-	147.8	132.9	103.6	75.9	170.7	1%
	litigated	-	-	214.1	227.9	257.6	267.7	268.9	1%
Agricultural Village Development Coop. Credits	new loans	-	-	8.2	18.8	81.9	110.8	1,070.2	47%
	outstanding	-	-	20.1	45.9	114.5	225.3	1,188.2	53%
	overdue	-	-	1.3	1.4	1.9	1.0	4.0	0%
	litigated	-	-	-	-	-	-	-	-
Credits by Special Settlement Fund	new loans	-	-	3.6	12.7	26.8	25.7	74.4	30%
	outstanding	-	-	16.4	57.4	79.4	105.1	166.3	67%
	overdue	-	-	0.5	1.4	0.6	0.4	0.1	0%
	litigated	-	-	1.0	1.0	1.8	14.7	8.5	3%
Agro Industry Fund	new loans	1.6	5.4	22.8	16.7	26.4	2.9	20.4	24%
	outstanding	47.5	33.3	26.7	36.6	27.5	22.0	15.1	17%
	overdue	7.9	4.5	24.5	6.8	2.9	3.9	13.5	16%
	litigated	71.0	75.2	41.0	40.9	40.5	37.4	37.5	43%
Former Crop Production and Livestock Credits	new loans	968.2	1,683.5	-	-	-	-	-	-
	outstanding	1,061.0	1,801.1	-	-	-	-	-	-
	overdue	146.1	347.0	-	-	-	-	-	-
	litigated	138.6	279.1	-	-	-	-	-	-
Other Credits including Fishery Loans	new loans	421.1	625.6	27.4	24.9	78.1	110.8	484.8	48%
	outstanding	727.7	877.1	180.8	53.4	65.4	117.1	518.0	51%
	overdue	51.6	204.7	17.9	7.9	1.7	0.1	1.9	0%
	litigated	59.1	110.6	10.4	17.7	19.8	18.0	11.8	1%
Agricultural Bank Loan through Farmers' Cooperative Union (Tarım Kredi Kooperatif)	new loans	1,136.0	2,067.7	3,063.7	6,509.5	12,773.4	20,897.5	20,897.5	31%
	outstanding	1,242.3	2,061.2	3,953.6	6,074.4	10,488.2	19,725.4	47,521.6	69%
	overdue	-	-	-	-	-	-	-	-
	litigated	-	-	-	-	-	-	-	-
Sales Cooperative Union Credits	new loans	1,450.2	1,380.2	3,851.7	6,793.6	6,967.7	178.5	2,726.8	2%
	outstanding	3,906.1	7,896.6	10,300.5	26,790.6	29,326.8	59,579.2	141,166.4	98%
	overdue	-	-	-	-	-	-	-	-
	litigated	-	-	-	-	-	-	-	-
Seed Credits (not inclusive of total as given above)	new loans	1.1	12.7	86.5	139.4	375.8	74.1	96.7	8%
	outstanding	27.6	40.5	145.0	300.7	456.8	678.9	1,063.6	92%
	overdue	2.1	9.7	-	-	-	-	-	-
	litigated	3.0	7.1	-	-	-	-	-	-

Source: Agricultural Bank Statistics

Table 3 - 3 Credit Amounts Granted to Irrigation Cooperatives

(E.T.)

unit : as individually specified by item

Year	Beneficiary, Number of Area (ha) Cooperatives	Project Credit (million TL)	Farmers' Capital (million TL)	Estimated Total E.T. per Project (million TL)	E.T. per ha (million TL)	Share of Farmers' Private Capital	E.T. in 1996 Price (mTL)	E.T./ha in 1996 Price
1984	8,070	42,063	4,857	46.92	3.128	0.006	14,175	1.8
1985	8,111	80,959	17,377	98.336	6.146	0.012	20,479	3.7
1986	6,860	115,385	12,822	128.207	11.655	0.019	19,339	5.6
1987	10,121	136,981	18,276	155.257	9.704	0.015	18,050	4.6
1988	8,055	104,514	36,171	140.685	10.822	0.017	10,874	5.3
1989	8,762	385,639	146,556	532.195	28.010	0.061	24,955	2.8
1990	2,365	266,281	121,686	387.967	38.797	0.164	11,034	4.7
1991	5,823	241,250	80,812	322.062	64.412	0.055	5,965	1.0
1992	6,365	420,250	170,083	590.333	73.792	0.093	6,470	1.0
1993	6,406	646,250	356,429	1,002.679	111.409	0.157	6,628	6.8
1994	6,003	1,080,000	359,935	1,439.935	205.705	0.240	5,702	3.8
1995	6,060	3,150,000	2,405,302	5,555.302	925.884	0.917	10,000	3.0

source : GDRS official data

Table 3 - 4 Amount of Credits Granted in 1995 to GDRS Projects

unit : ha and 1,000 T.L.

REGION	Province	No. of Credited Proj.	Beneficiary Area (ha)	Credit Amounts thousand TL	Credit per ha thousand TL	Cr. per Project thousand TL
ANKARA	Bolu	1	190	342,785	1,804	342,785
ANKARA	Ankara	6	-	3,786,000	-	631,000
ADANA	Adana	1	-	1,084,500	-	1,084,500
ADANA	Icel	3	-	1,150,800	-	383,600
ADANA	Hatay	29	51,425	3,764,067,000	73,195	129,795,414
KONYA	Konya	3	1,220	30,069,950	24,648	10,023,317
KAYSERI	Kayseri	6	85	998,431	11,746	166,405
KAYSERI	Kirsehir	1	-	145,600	-	145,600
KAYSERI	Nevsehir	3	-	560,858	-	186,953
SIVAS	Tokat	2	300	6,846,446	22,821	3,423,223
SAMSUN	Samsun	3	2.5	535,217	214,087	178,406
SAMSUN	Amasya	1	30	1,500,000	50,000	1,500,000
SAMSUN	Corum	3	85	11,179,907	131,528	3,726,636
ESKISEHIR	Eskisehir	21	6,579	55,641,214	8,457	2,649,582
ESKISEHIR	Afyon	7	1,513	12,453,111	8,233	1,779,016
ESKISEHIR	Usak	2	-	79,900	-	39,950
KASTAMONU	Kastamonu	1	-	55,000	-	55,000
KASTAMONU	Zonguldak	1	-	69,107	-	69,107
ANTALYA	Antalya	2	9	12,597,057	1,399,673	6,298,529
ANTALYA	Isparta	5	1,108	1,578,082	1,425	315,616
IZMIR	Izmir	16	2,164	41,118,115	19,002	2,569,882
IZMIR	Aydin	3	60	6,546,966	109,116	2,182,322
IZMIR	Denizli	4	1,320	2,313,000	1,752	578,250
IZMIR	Manisa	6	51	15,387,962	304,110	2,564,660
IZMIR	Mugla	4	600	12,996,181	21,660	3,249,045
BURSA	Bursa	10	63	29,076,534	459,345	2,907,653
BURSA	Balikesir	17	5,074	311,439,600	61,377	18,319,976
BURSA	Bilecik	3	-	1,024,800	-	341,600
BURSA	Canakkale	6	195	1,261,533	6,469	210,256
ISTANBUL	Istanbul	1	-	15,625	-	15,625
ISTANBUL	Edirne	58	13,474	2,651,117,975	196,752	45,708,931
Out of Long-List Regions	K. Maras	1	800	743,344	929	743,344
	Malatya	1	100	199,121	1,991	199,121
	Mardin	1	-	141,726	-	141,726
	Elazig	1	-	60,000	-	60,000
	Van	1	-	123,300	-	123,300
	Erzincan	1	-	158,346	-	158,346
	Erzurum	1	-	22,825	-	22,825
Total		236	86,448	6,978,487,918	80,725	29,569,864

Source : GDRS Sociological Data File

Table 3 - 5 Official Cost Conversion Factors by GDRS

year of works	conversion factors		inflation annual rate	year of works	conversion factors		inflation annual rate
	1996-97	1997 end			1996-97	1997 end	
1953	37,098.2	72,341.49	-	1975	4,879.7	9,515.36	20%
1954	33,462.8	65,252.44	-	1976	4,160.8	8,113.50	16%
1955	29,635.7	57,789.65	-	1977	3,052.0	5,951.34	28%
1956	24,279.5	47,345.06	3%	1978	2,182.0	4,255.74	47%
1957	21,240.1	41,418.18	14%	1979	1,615.9	3,150.97	57%
1958	19,428.8	37,886.14	21%	1980	754.8	1,471.88	116%
1959	16,504.2	32,183.11	29%	1981	522.5	1,018.78	34%
1960	16,504.2	32,183.11	2%	1982	434.4	847.10	22%
1961	16,504.2	32,183.11	0%	1983	377.6	736.36	31%
1962	16,504.2	32,183.11	3%	1984	302.1	589.11	48%
1963	16,504.2	32,183.11	3%	1985	208.3	406.11	45%
1964	16,504.2	32,183.11	2%	1986	150.8	294.14	35%
1965	16,504.2	32,183.11	6%	1987	116.3	226.71	39%
1966	16,504.2	32,183.11	4%	1988	77.3	150.72	74%
1967	14,973.2	29,197.72	7%	1989	46.9	91.44	63%
1968	13,744.5	26,801.83	0%	1990	28.4	35.59	60%
1969	13,092.9	25,531.25	8%	1991	18.5	21.37	64%
1970	12,219.3	23,827.54	8%	1992	11.0	12.89	72%
1971	10,993.6	21,437.50	17%	1993	6.6	7.72	66%
1972	8,317.1	18,158.33	14%	1994	4.0	3.51	106%
1973	8,241.9	16,071.80	16%	1995	1.8	1.95	81%
1974	6,113.1	11,920.45	19%	1996	1.0	1.00	77%

source : official gazette and price statistics by Bureau of Statistics, 1996 - 97

**Table 3 - 6 (1) Official Rate of Interests for Farm Credits
as of 1997**

unit : annual per-cent

Item of Farm Input	Term of Loans	Annual Interest Rate	Item of Farm Input	Term of Loans	Annual Interest Rate
1. Public Project Input		9	2. Farm Investment	(contd.)	%
Cropping Material	short >1year	70	Processing Industry	medium	110
Chemical Fertilizers	short >1year	70	3. Farmers Credit Cooperative	live	(T.K.K.)
Livestock Material	short >1year	59	Cropping Material	short >1year	70
Water Facility	short >1year	59	Crop Seed Purchase	short >1year	70
Irrigation Implement	short >1year	70	Chemical Fertilizers	short >1year	70
Crop Marketing Loan	short >1year	90	Livestock Material	short >1year	59
2. Farm Investment			Plant Protective Kits	short >1year	70
Livestock Investment	medium	59	Transport Means	short >1year	70
Inland Fishery	medium	59	Control Chemicals	medium	70
Reclamation	medium	70	Livestock Purchasing	medium	59
Crop Investment	medium	70	4. Farm Sales Cooperative and		
Private Irrigation	medium	70	Producers' Association Related		
Tractor Purchasing	medium	76	Package Loan	long term	118
Harvester Purchasing	medium	76	5. Tobacco Leaf Sales Cooperative		
Other items, material	medium	70	Tobacco Curing Kits	long term	70

Special interest for Land and Water Credit (l/w) unit %

period from -	period to -	l/w credit	farmer's credit	period from -	period to -	s/w credit	farmer's credit
Mar.1 1980	Oct 1 1980	12	6	Jan.2 1985	Jan.3 1986	26	22
Oct.2 1980	Jan 1 1982	18	12	Jan.4 1986	Feb 23 1988	30 - 34	26 - 30
Jan 2 1982	Jan 1 1984	16	10	Feb 24 1988	Nov.1 1988	39 - 45	35 - 41
Jan 2 1984	Jan 1 1985	22	16	Nov.1 1988		43 - 50	39 - 46

Note : medium term accompanies with amortization term of 1 - 3 years, long term at least 3 years

source : Agricultural Bank Official Bulletin, 1997 (Ziraat Bankası)

Table 3 - 6 (2) Agricultural Mortgage Transactions

unit : contract number and million TL

Lending of Agricultural Mortgage Loans				Payment of Agricultural Mortgage Loans			
year	number of transactions	total value (million TL)	value per transaction	year	number of transactions	total value (million TL)	value per transaction
1988	92,719	918,102	9.9	1988	85,902	679,882	7.9
1989	96,609	2,241,559	23.2	1989	88,608	480,883	5.4
1990	110,452	3,480,890	31.5	1990	105,199	1,051,452	10.0
1991	97,956	5,632,989	57.5	1991	86,777	2,190,239	25.2
1992	105,318	9,356,542	88.8	1992	103,968	1,883,325	18.1
1993	137,794	23,803,282	172.7	1993	138,118	7,302,860	52.9
1994	110,991	32,255,964	290.6	1994	120,137	14,360,994	119.5
1995	168,478	238,976,138	1,418.4	1995	120,116	70,678,846	588.4

source : General Directorate of Title Deed and Cadaster

Table 3 - 7 Activities of T.K.K. (Farmers Credit Cooperative Union)

year	number of local Branch Offices	Number of Villages covered	joined Member T.K.K.	number T.K.K.	per Household	Fund Asset by central T.K.K.	Released T.K.K. members	annual repay-ment capital	financing loss
unit	number	number	number	number	million TL	billion TL	billion TL	billion TL	billion TL
1990	2,459	26,242	1,579,208	10	115.5	854.1	251.8	12.2	
1991	2,476	26,859	1,480,394	20	202.9	1,315.5	402.7	29.9	
1992	2,483	27,490	1,560,438	30	430.2	2,117.3	652.2	65.5	
1993	2,495	27,647	1,560,917	40	455.6	3,133.9	1,090.9	265.1	
1994	2,502	27,844	1,580,287	50	2,729.1	5,691.2	2,024.8	495.9	
1995	2,506	28,086	1,569,353	100	5,891.8	12,878.4	4,887.4	651.3	
1996	2,514	28,277	1,570,294	250	10,972.8	29,535.9	10,089.7	649.8	
1997	2,518	28,467	-	500	20,435.6	67,741.5	23,141.8	648.3	

note : 1997 data as provisionally estimated.

source : Tarım Kredi Kooperatif (Farmers Credit Cooperative Union)

Table 4 - 1 Economic Analyses Indicators

A. CONVERSION FACTORS

A1. STANDARD CONVERSION FACTOR

Unit : million US\$

Y E A R	Exports	Imports	Import Tax	Export Tax	Exp.Subsidy
1991	13,593.5	21,047.0	4,367.0	0	0
1992	14,714.6	22,871.1	4,749.0	0	0
1993	15,345.1	29,428.4	5,607.0	0	0
1994	18,105.9	23,270.0	7,347.5	0	0
1995	21,637.0	35,709.0	4,751.3	0	0
AVERAGE	16,679.2	25,724.3	5,364.4	0	0
S. C. F. $(16679+25724)/(16679+25724+5364)=$					0.888

A2. CONVERSION FACTOR for CONSUMABLE GOODS

Unit : million US\$

Y E A R	Exports	Imports	Import Tax	Export Tax	Exp.Subsidy
1991	1,575.0	6,882.9	1,642.1	0	0
1992	1,772.2	7,835.3	1,903.5	0	0
1993	2,625.7	8,213.2	1,854.4	0	0
1994	1,381.3	9,153.3	3,468.2	0	0
1995	2,416.5	11,840.4	1,676.5	0	0
AVERAGE	1,954.1	8,785.0	2,108.9	0	0
S. C. F. $(1954+8785)/(1954+8785+2109)=$					0.836

A3. CONVERSION FACTOR for UNSKILLED LABOR

Y E A R	unemployed rate %*	underemployed rate %*	Farm Labor Supply / Requirement in 10 sites		
			total supply	t. requirement	meeting rate
1992	8.45%	10.01%	960.3	458.1	2.096
1993	7.34%	7.58%	857.3	572.6	1.497
1994	7.67%	9.73%	925.2	584.3	1.583
1995	6.67%	11.90%	886.6	596.2	1.487
1996	5.45%	9.74%	843.9	608.4	1.387
AVERAGE	7.12%	9.79%	894.7	563.9	1.610
L. C. F. $563.9/894.7=$					0.630

note : *, only referring to rural media of Turkey, "t" ; total

Table 4-2 E.I.R.R for TEN PRIORITY PROJECT

No	Year	Project Cost					Project Benefit				Project Return	NPV at discount 39%		NPV at discount 40%		NPV at discount 41%	
		Initial Cost	Replacement C.	O & M Cost	Production Cost	Total Cost	Main Product Benefit	By Pro-Benefit	Farming Livestock	Total Benefit		Cost	Benefit	Cost	Benefit	Cost	Benefit
1	1998	8,125	0	0	0	8,125	0	0	0	-8125	5804	0	5804	0	5804	0	
2	1999	6,965	0	99	886	7,950	1,186	2	1	-6761	4056	606	4056	606	4056	606	
3	2000	534	0	584	1,527	2,644	4,383	742	8	5,133	2489	964	1871	964	1871	964	
4	2001	0	40	603	2,388	3,031	8,566	9	230	8,805	5774	789	2292	789	2292	789	
5	2002	0	0	603	4,444	5,047	11,084	11	455	11,551	6503	938	2148	938	2148	938	
6	2003	0	0	603	4,444	5,047	12,960	11	828	13,800	8752	670	1833	670	1833	670	
7	2004	0	207	603	4,444	5,255	12,960	11	828	13,800	8545	498	1309	498	1309	498	
8	2005	0	385	603	4,444	5,432	12,960	11	828	13,800	8367	368	935	368	935	368	
9	2006	716	214	603	4,444	5,977	12,960	11	828	13,800	7823	289	668	289	668	289	
10	2007	0	0	619	4,444	5,063	12,960	11	828	13,800	8737	175	477	175	477	175	
11	2008	0	381	619	4,444	5,444	13,217	11	828	14,056	8613	134	347	134	347	134	
12	2009	0	482	619	4,444	5,545	13,474	11	828	14,313	8768	98	252	98	252	98	
13	2010	0	207	619	4,444	5,270	13,987	11	828	14,826	9556	66	187	66	187	66	
14	2011	0	200	619	4,444	5,263	13,987	11	828	14,826	9564	47	133	47	133	47	
15	2012	0	430	619	4,444	5,493	13,987	11	828	14,826	9334	35	95	35	95	35	
16	2013	0	241	619	4,444	5,304	13,987	11	828	14,826	9523	24	68	24	68	24	
17	2014	0	160	619	4,444	5,223	13,987	11	828	14,826	9603	17	49	17	49	17	
18	2015	0	46	619	4,444	5,109	13,987	11	828	14,826	9718	12	35	12	35	12	
19	2016	0	228	619	4,444	5,291	13,987	11	828	14,826	9535	9	25	9	25	9	
20	2017	0	0	619	4,444	5,063	13,987	11	828	14,826	9764	6	18	6	18	6	
21	2018	0	1,464	619	4,444	6,527	13,987	11	828	14,826	8299	6	13	6	13	6	
22	2019	0	1,403	619	4,444	6,465	13,987	11	828	14,826	8361	4	9	4	9	4	
23	2020	0	299	619	4,444	5,322	13,987	11	828	14,826	9505	2	6	2	6	2	
24	2021	0	157	619	4,444	5,220	13,987	11	828	14,826	9607	2	5	2	5	2	
25	2022	0	183	619	4,444	5,246	13,987	11	828	14,826	9581	1	3	1	3	1	
26	2023	0	304	619	4,444	5,367	13,987	11	828	14,826	9460	1	2	1	2	1	
27	2024	0	83	619	4,444	5,146	13,987	11	828	14,826	9680	1	2	1	2	1	
28	2025	0	0	619	4,444	5,063	13,987	11	828	14,826	9764	0	1	0	1	0	
29	2026	0	385	619	4,444	5,448	13,987	11	828	14,826	9379	0	1	0	1	0	
30	2027	0	228	619	4,444	5,291	13,987	11	828	14,826	9536	0	1	0	1	0	
31	2028	0	202	520	2,046	2,768	10,518	6	823	11,347	8580	0	0	0	0	0	
32	2029	0	785	520	2,046	3,351	10,518	6	823	11,347	7996	0	0	0	0	0	
33	2030	0	0	520	2,046	2,566	10,518	6	823	11,347	8782	0	0	0	0	0	
34	2031	0	26	520	2,046	2,592	10,518	6	823	11,347	8755	0	0	0	0	0	
35	2032	0	45	520	2,046	2,611	10,518	6	823	11,347	8736	0	0	0	0	0	
36	2033	0	0	520	2,046	2,566	10,518	6	823	11,347	8782	0	0	0	0	0	
37	2034	0	214	520	2,046	2,779	10,518	6	823	11,347	8568	0	0	0	0	0	
38	2035	0	285	520	2,046	2,851	10,518	6	823	11,347	8496	0	0	0	0	0	
39	2036	0	45	520	2,046	2,611	10,518	6	823	11,347	8736	0	0	0	0	0	
40	2037	0	0	520	2,046	2,566	10,518	6	823	11,347	8782	0	0	0	0	0	
41	2038	0	0	520	2,046	2,566	10,518	6	823	11,347	8782	0	0	0	0	0	
42	2039	0	998	520	2,046	3,564	10,518	6	823	11,347	7783	0	0	0	0	0	
43	2040	0	50	520	2,046	2,615	10,518	6	823	11,347	8732	0	0	0	0	0	
44	2041	0	228	520	2,046	2,793	10,518	6	823	11,347	8554	0	0	0	0	0	
45	2042	0	143	520	2,046	2,708	10,518	6	823	11,347	8639	0	0	0	0	0	
46	2043	0	0	520	2,046	2,566	10,518	6	823	11,347	8782	0	0	0	0	0	
47	2044	0	45	520	2,046	2,611	10,518	6	823	11,347	8736	0	0	0	0	0	
48	2045	0	0	520	2,046	2,566	10,518	6	823	11,347	8782	0	0	0	0	0	
49	2046	0	0	520	2,046	2,566	10,518	6	823	11,347	8782	0	0	0	0	0	
50	2047	0	175	520	2,046	2,740	10,518	6	823	11,347	8607	0	0	0	0	0	
Total		16339	10928	27694	161262	216223	578650	1150	37303	401640	15354	13997	15019	13392	15019	13392	
		B.C Ratio =					2.86	E.I.R.R			34.9 %						

TABLE 4-3 F.I.R.R. for TEN PRIORITY PROJECT

No	Year	Project Cost					Project Benefit				Project Return	NPV at discount 31%		NPV at discount 32%		NPV at discount 33%		
		Initial Cost	Replacement C.	O & M Cost	Production Cost	Total Cost	Main Product Benefit	By-Product Benefit	Farming Livestock	Total Benefit		Cost	Benefit	Cost	Benefit	Cost	Benefit	
1	1998	1153,805	0	0	0	1,153,805	0	0	0	0	-1153805	874095	0	874095	0	874095	0	
2	1999	1,162,633	0	24,097	156,843	1,343,573	166,269	4,990	297	168656	-1174917	771105	96795	771105	96795	771105	96795	
3	2000	121,446	0	32,588	303,934	457,966	499,885	6,443	48,942	595270	437304	199118	258817	199118	258817	199118	258817	
4	2001	0	0	34,912	721,263	760,175	996,652	10,146	180,931	1187729	425584	250391	391221	250391	391221	250391	391221	
5	2002	0	0	34,912	721,263	760,175	1,330,643	12,141	272,836	1615620	855445	189690	403153	189690	403153	189690	403153	
6	2003	0	0	34,912	721,263	760,175	1,497,487	11,674	274,570	1787731	1027556	143704	337955	143704	337955	143704	337955	
7	2004	0	37,742	34,912	721,263	797,917	1,497,487	11,674	274,570	1787731	998814	114272	256026	114272	256026	114272	256026	
8	2005	0	70,059	34,912	721,263	830,234	1,497,487	11,674	274,570	1787731	957497	90076	193959	90076	193959	90076	193959	
9	2006	144,623	38,936	34,912	721,263	943,724	1,544,311	11,674	274,570	1874555	880827	77568	149966	77568	149966	77568	149966	
10	2007	0	0	42,693	721,263	763,956	1,568,480	11,674	274,570	1838724	1097768	47570	115738	47570	115738	47570	115738	
11	2008	0	69,292	42,693	721,263	833,248	1,602,650	11,674	274,570	1892894	1059646	39306	89292	39306	89292	39306	89292	
12	2009	0	87,815	42,693	721,263	851,771	1,618,385	11,674	274,570	1901629	1049858	30439	67958	30439	67958	30439	67958	
13	2010	0	37,742	42,693	721,263	800,698	1,611,385	11,674	274,570	1901629	1099931	21705	51483	21705	51483	21705	51483	
14	2011	0	36,347	42,693	721,263	800,308	1,611,385	11,674	274,570	1901629	1101326	16414	39002	16414	39002	16414	39002	
15	2012	0	78,272	42,693	721,263	842,228	1,611,385	11,674	274,570	1901629	1059401	13086	29547	13086	29547	13086	29547	
16	2013	0	43,846	42,693	721,263	807,802	1,611,385	11,674	274,570	1901629	1099877	9509	22384	9509	22384	9509	22384	
17	2014	0	28,540	42,693	721,263	792,505	1,611,385	11,674	274,570	1901629	1109124	7067	16958	7067	16958	7067	16958	
18	2015	0	4,770	42,693	721,263	768,726	1,611,385	11,674	274,570	1901629	1122903	5193	12847	5193	12847	5193	12847	
19	2016	0	45,955	42,693	721,263	809,911	1,611,385	11,674	274,570	1901629	1091718	4145	9732	4145	9732	4145	9732	
20	2017	0	0	42,693	721,263	763,956	1,611,385	11,674	274,570	1901629	1137673	2962	7373	2962	7373	2962	7373	
21	2018	0	266,518	42,693	721,263	1,030,474	1,611,385	11,674	274,570	1901629	871155	3027	5586	3027	5586	3027	5586	
22	2019	0	259,523	42,693	721,263	1,023,479	1,611,385	11,674	274,570	1901629	878150	2277	4232	2277	4232	2277	4232	
23	2020	0	47,143	42,693	721,263	811,099	1,611,385	11,674	274,570	1901629	1096330	1367	3206	1367	3206	1367	3206	
24	2021	0	28,540	42,693	721,263	792,505	1,611,385	11,674	274,570	1901629	1109124	1012	2429	1012	2429	1012	2429	
25	2022	0	33,312	42,693	721,263	797,268	1,611,385	11,674	274,570	1901629	1104361	771	1840	771	1840	771	1840	
26	2023	0	60,438	42,693	721,263	824,394	1,611,385	11,674	225,297	1848356	1023962	604	1355	604	1355	604	1355	
27	2024	0	18,598	42,693	721,263	782,554	1,611,385	11,674	225,297	1848356	1065802	435	1026	435	1026	435	1026	
28	2025	0	0	42,693	721,263	763,956	1,611,385	11,674	225,297	1848356	1084400	321	778	321	778	321	778	
29	2026	0	70,059	42,693	721,263	834,915	1,611,385	11,674	225,297	1848356	1014343	266	589	266	589	266	589	
30	2027	0	41,482	42,693	721,263	805,438	1,611,385	11,674	225,297	1848356	1042918	194	446	194	446	194	446	
31	2028	0	36,762	20,923	564,420	612,105	1,181,340	5,988	224,113	1411441	789336	114	258	114	258	114	258	
32	2029	0	79,477	20,923	564,420	664,820	1,181,340	5,988	224,113	1411441	746621	92	196	92	196	92	196	
33	2030	0	0	20,923	564,420	585,343	1,181,340	5,988	224,113	1411441	826098	61	148	61	148	61	148	
34	2031	0	4,770	20,923	564,420	590,113	1,181,340	5,988	224,113	1411441	824328	47	112	47	112	47	112	
35	2032	0	8,213	20,923	564,420	593,556	1,181,340	5,988	224,113	1411441	817885	36	85	36	85	36	85	
36	2033	0	0	20,923	564,420	585,343	1,181,340	5,988	224,113	1411441	826098	27	64	27	64	27	64	
37	2034	0	38,936	20,923	564,420	624,273	1,181,340	5,988	224,113	1411441	787168	22	49	22	49	22	49	
38	2035	0	54,511	20,923	564,420	639,854	1,181,340	5,988	224,113	1411441	771587	17	37	17	37	17	37	
39	2036	0	8,213	20,923	564,420	593,556	1,181,340	5,988	224,113	1411441	817885	12	28	12	28	12	28	
40	2037	0	0	20,923	564,420	585,343	1,181,340	5,988	224,113	1411441	826098	9	21	9	21	9	21	
41	2038	0	0	20,923	564,420	585,343	1,181,340	5,988	224,113	1411441	826098	7	16	7	16	7	16	
42	2039	0	181,730	20,923	564,420	767,073	1,181,340	5,988	224,113	1411441	644368	7	12	7	12	7	12	
43	2040	0	8,213	20,923	564,420	593,556	1,181,340	5,988	224,113	1411441	817885	4	9	4	9	4	9	
44	2041	0	42,482	20,923	564,420	627,825	1,181,340	5,988	224,113	1411441	785416	3	7	3	7	3	7	
45	2042	0	28,540	20,923	564,420	613,897	1,181,340	5,988	224,113	1411441	797549	2	5	2	5	2	5	
46	2043	0	0	20,923	564,420	585,343	1,181,340	5,988	224,113	1411441	826098	2	4	2	4	2	4	
47	2044	0	8,213	20,923	564,420	593,556	1,181,340	5,988	224,113	1411441	817885	1	3	1	3	1	3	
48	2045	0	0	20,923	564,420	585,343	1,181,340	5,988	224,113	1411441	826098	1	2	1	2	1	2	
49	2046	0	0	20,923	564,420	585,343	1,181,340	5,988	224,113	1411441	826098	1	2	1	2	1	2	
50	2047	0	31,848	20,923	564,420	617,189	1,181,340	5,988	224,113	1411441	794253	1	1	1	1	1	1	
Total		2582501	1956849	1605174	31223282	37347806	6643566	442330	11723151	7800007	4622241	3002425	2711565	2918154	2572752	2918154	2572752	
		B.C Ratio =					2.10		F.I.R.R.		26.9 %							

Table 4 - 4 Summary Table of Economic Analysis

Project Site	Initial Cost	Replacement Cost		O & M Production Cost		Total Cost	Crop Benefit	By-Product: Livestock		Total Benefit	Project Return	Cost-Benefit Ratio	Economic I.R.R. %
		Cost	Cost	Cost	Cost			Benefit	Benefit				
HACILAR	1,224	3,401	1,853	13,435	19,913	52,334	389	542	53,265	33,352	2.67	41.4	
URUNLU	1,333	1,597	1,407	3,365	7,702	24,073	256	67	24,396	16,694	3.17	36.7	
KALESEKISI	1,328	2,133	1,152	13,840	18,453	76,297	-10	0	76,287	57,834	4.13	55.6	
Karavansarai	6,499	0	211	37,363	44,073	184,178	-46	39,385	223,517	179,444	5.07	30.6	
KOZLUK	1,325	0	20,944	39,371	61,640	113,472	47	0	113,519	51,879	1.84	43.8	
KUSKARA	267	100	203	1,589	2,159	4,583	-29	86	4,640	2,481	2.15	26.5	
OZDENK	2,107	237	317	3,812	6,473	23,186	34	327	23,547	17,074	3.64	15.7	
ASLANLAR	1,303	2,467	907	18,372	23,049	52,761	-88	0	52,673	29,624	2.29	50.4	
ILYASKOY	703	626	333	6,022	7,684	15,032	-138	0	14,894	7,210	1.94	18.5	
KARISTRAN	347	367	366	5,275	6,355	15,803	-5	0	15,798	9,443	2.49	52.6	
Aggregate	16,339	10,928	27,694	161,262	216,223	578,850	1,150	37,863	617,863	401,640	2.86	34.9	

Project Site	Economic Benefit - Cost Ratio						E.I.R.R.					
	B/C original	cost-incre-ment 20 %	cost-incre-ment 30 %	benefit-loss 20 %	benefit-loss 30 %	cost & loss 30 % both	E.I.R.R. original	cost-incre-ment 20 %	cost-incre-ment 30 %	benefit-loss 20 %	benefit-loss 30 %	cost & loss 30 % both
HACILAR	2.67	2.51	2.44	2.14	1.87	1.71	41.4	35.7	33.4	31.6	26.1	20.2
URUNLU	3.17	2.85	2.71	2.53	2.22	1.90	36.7	31.0	28.7	28.4	23.9	17.8
KALESEKISI	4.13	3.94	3.85	3.31	2.89	2.69	55.6	48.4	45.6	41.5	34.3	28.0
Karavansarai	5.07	4.92	4.85	4.06	3.55	3.39	30.6	27.3	25.9	25.6	22.7	19.0
KOZLUK	1.84	1.72	1.66	1.47	1.29	1.20	43.8	35.6	32.2	27.1	18.0	11.9
KUSKARA	2.15	2.04	1.99	1.72	1.50	1.39	26.5	22.5	20.9	18.4	14.0	10.2
OZDENK	3.64	3.36	3.24	2.91	2.55	2.27	15.7	13.4	12.4	12.3	10.5	10.2
ASLANLAR	2.29	2.20	2.15	1.83	1.60	1.51	50.4	43.9	41.2	35.6	27.7	21.9
ILYASKOY	1.94	1.86	1.82	1.55	1.36	1.27	18.5	15.6	14.4	12.2	8.8	6.2
KARISTRAN	2.49	2.40	2.37	1.99	1.74	1.66	52.6	46.2	43.6	38.1	30.3	24.7
Aggregate	2.86	2.72	2.66	2.59	2.00	1.86	34.9	30.0	28.0	25.9	20.9	16.2

Table 4 - 5 Summary Table of Financial Analysis

Project Site	Initial Cost	Replacement Cost	O & M Cost	Production Cost	Total Cost	Crop Benefit	By-Product Benefit	Livestock Benefit	Total Benefit	Project Return	Cost-Benefit Ratio	Financial I.R.R. %
Project Site	F.I.R.R.											
	B/C original	cost-incre-ment 20 %	cost-incre-ment 30 %	benefit-loss 20 %	benefit-loss 30 %	cost & loss 30 % both	F.I.R.R. original	cost-incre-ment 20 %	cost-incre-ment 30 %	benefit-loss 20 %	benefit-loss 30 %	cost & loss 30 % both
HACLAR	1.90	1.80	1.75	1.52	1.33	1.22	18.7	15.6	14.3	12.4	8.8	5.7
URUNLU	2.32	1.97	1.88	1.73	1.52	1.31	33.3	27.1	24.9	18.1	23.3	11.6
KALESEKISI	2.71	2.45	2.38	2.08	1.82	1.67	25.3	16.2	15.3	13.4	10.9	8.7
Karavansari	1.87	1.86	1.83	1.50	1.31	1.30	33.5	30.3	28.9	21.8	15.1	12.9
KOZLUK	1.42	1.41	1.40	1.14	0.99	0.98	17.7	15.5	14.1	7.4	-	-
KUSKARA	2.59	2.40	2.32	2.07	1.82	1.62	28.2	23.8	22.0	20.8	16.8	12.4
OZDENK	1.34	1.24	1.21	1.05	0.92	0.85	4.4	3.1	2.6	0.8	-	-
ASLANLAR	1.63	1.41	1.37	1.20	1.05	0.96	25.7	19.4	17.6	12.2	4.1	-
ILYASKOY	1.36	0.99	0.94	0.66	0.87	0.66	4.2	-	-	-	-	-
K.KARISTRAN	1.70	1.60	1.56	1.33	1.15	1.08	28.6	24.3	22.6	16.5	9.6	5.6
Aggregate	2.10	2.04	2.01	1.68	1.47	1.30	26.9	23.2	21.7	18.6	14.0	10.7

note : project return includes benefits from land consolidation and soil conservation that do not belong benefits indicated in these items described in this table.

Table 4 - 8 (1) Linear Programming Analysis for Ozdenk

OZDENK	selected factors	input factor				input factor 4. WATER	ALFALF let's N.G. of crop III is minimum	BEEET	POTATO
		NET GAIN	2. LAND	3. FUND	0				
1. NET GAIN		0	0	0	0	0.28	0.37	0.496	blank
2. LAND		126	1	0	0	1	1	1	126
3. FUND		50	0	1	0	0.233	0.38	0.59	84.75
4. WATER		258	0	0	1	3	2.11	2.31	111.69
5. MOBILIZED		0	0	0	0	0	0	0	blank
6. = 1. - 5.		0	0	0	0	-0.28	-0.37	-0.496	blank
1. NET GAIN		0	0	0	0	0.28	0.37	0.496	blank
		0	41.254	1	-1.695	0	0.605	0.356	68.179
	0.496	84.746	0	1.695	0	0.395	0.644	1	214.592
	0	62.237	0.000	-3.915	1.000	2.088	0.622	0.000	29.811
5. MOBILIZED	blank	42.034	0	0.841	0	0.196	0.319	0.496	blank
	blank	42.034	0	0.841	0	-0.084	-0.051	0	blank
		0	0	0	0	0.28	0.37	0.496	
		23.216	1.000	-0.560	-0.290	0.000	0.176	0	143.63689
	0.496	72.973	0.000	2.436	-0.189	0.000	0.526	1	-243.67481
	0.28	29.811	0.000	-1.875	0.479	1.000	0.298	0	35.336972
		44.542	0.000	0.683	0.040	0.280	0.345	0.496	blank
		44.542	0.000	0.683	0.040	0.000	-0.025	0.000	
if C&G minimum		0	0	0	0	0.28	0.37	0.496	
		-1.128	1.000	-1.373	-0.227	0	0	-0.334	
BEEET	0.37	138.634	0.000	4.627	-0.359	0	1	1.900	
ALFALFA	0.28	-11.506	0.000	-3.254	0.586	1	0	-0.566	
		48.073	0.000	0.801	0.031	0	0	0.048	blank
if C&G minimum									

Table 4 - 8 (3) Linear Programming Analysis for K.Karistiran

stage	K.Karistiran	selected factors	NET GAIN	input factor				Alfalfa let's N.G. of crop III is minimum	Vegetable	Sugarbeet
				2. LAND	3. FUND	4. WATER	let's N.G. of crop III is minimum			
stage I	1. NET GAIN		0	0	0	0	0.284	0.423	0.57	blank
	2. LAND		120	1	0	0	1	1	1	120
	3. FUND		36	0	1	0	0.323	1.04	0.325	110.77
	4. WATER		242	0	0	1	1.63	2.31	2.44	99.180
	5. MOBILIZED		0	0	0	0	0	0	0	blank
	6. = 1. - S.		0	0	0	0	-0.284	-0.423	-0.57	blank
stage II	1. NET GAIN		0	0	0	0	0.28	0.42	0.57	blank
			20.820	1	0	-0.410	0.332	0.053	0	390.769
			3.766	0	1	-0.133	0.106	0.732	0	5.14
	Sugarbeet		99.180	0	0	0.410	0.668	0.947	1	104.762
	5. MOBILIZED		56.533	0	0	0.234	0.381	0.540	0.57	blank
			56.533	0	0	0.234	0.097	0.117	0	blank
stage III	min.....C.F						E	F	G	
stage IV										
										blank

Table 4 - 8 (4) Linear Programming Analysis for Kuskara

Kuskara	selected factors	NET GAIN	input factor				Alfalfa let's N.G. of crop III is minimum	Potato	Sugarbeet	
			2. LAND	3. FUND	4. WATER	5. MOBILIZED			6. MIN. C.X	7. MIN. B. W
1. NET GAIN		0	0	0	0	0	0.468	0.496	0.533	blank
2. LAND		108	1	0	0	0	1	1	1	108
3. FUND		350	0	1	0	0	0.233	0.592	0.38	921.05
4. WATER		169	0	0	1	0	2.31	2.11	3.00	56.333
5. MOBILIZED		0	0	0	0	0	0	0	0	blank
MIN. C.X		0	0	0	0	0	-0.468	-0.496	-0.533	blank
1. NET GAIN		0	0	0	0	0	0.468	0.496	0.533	blank
stage		0	51.667	1	0	0	0.230	0.297	0.000	174.157
II		0	328.593	0	1	0	-0.060	0.325	0.000	1011.887
5. MOBILIZED		0.533	56.333	0	0	0	0.770	0.703	1.000	80.095
MIN. B. W		blank	30.026	0	0	0	0.410	0.375	0.533	blank
stage		blank	30.026	0	0	0	0.178	-0.121	0.000	blank
III							E	F	G	
5. MOBILIZED		0	0	0	0	0	0.468	0.496	0.533	blank
if A&F minimum		0	27.905	1	0	0	-0.095	0	-0.422	-66.157
stage		0	302.584	0	1	0	-0.415	0	-0.462	-655.360
MIN. B. W		0.496	80.095	0	0	0	1.095	1	1.422	56.333
stage		39.727		0	0	0	0.075	0	0.172	blank
5. MOBILIZED		0	0	0	0	0	0.468	0.496	0.533	
stage										

Table 4 - 8 (5) Linear Programming Analysis for Urunlu

Urunlu	selected factors	input factor				potatoes let's N.G. of crop III is minimum	sugarbeet	watermelon	
		1. NET GAIN	2. LAND	3. FUND	4. WATER			1.272	blank
1. NET GAIN		0	0	0	0	0.496	0.536	1.272	blank
2. LAND		465	1	0	0	1	1	1	465
3. FUND		140	0	1	0	0.592	0.305	0.328	426.83
4. WATER		871	0	0	1	1.81	2.55	7.59	114.76
5. MOBILIZED		0	0	0	0	0	0	0	blank
6. = 1. - 5.		0	0	0	0	-0.496	-0.536	-1.272	blank
1. NET GAIN		0	0	0	0	0.496	0.536	1.272	blank
		350.244	1	0	-0.132	0.762	0.664	0	459.92
		102.360	0	1	-0.043	0.514	0.195	0	199.23
	1.272	114.756	0	0	0.132	0.238	0.336	1	481.22
5. MOBILIZED	blank	145.97	0	0	0.168	0.303	0.427	1.272	blank
	blank	145.97	0	0	0.168	-0.193	-0.109	0	blank
		0	0	0	0	0.496	0.536	1.272	blank
		350.244	1	0.000	-0.132	0.762	0.664	0	527.45
	0.496	199.229	0	1.946	-0.084	1	0.379	0	525.46
	1.272	67.246	0	-0.464	0.152	0	0.246	1	273.86
		184.354	0.000	0.375	0.151	0.000	-0.036	0.000	blank
if B&G minimum		0	0	0	0	0.496	0.536	1.272	
	1.272	168.394	1	1.255	-0.542	0.762	0	-3	
	0.496	95.394	0	3	0	1	0	-2	
	0.536	273.857	0	-1.890	0.618	0	1	4.072	
		194.103	0	0.308	0.173	0	0	0.145	blank
if C&E minimum									

Table 4-9 Maximum Benefits Estimated from L.P. Analysis

UNIT	Planned Cropping Pattern								Maximum Choice by L.P. calibration								INCRE- MENT (%)
	ha	per ha	BT/TL/ha	Ton/ha	mlTL/ha	BT/TL/ha	BT/TL/ha	ha	per ha	proect	Ton/ha	mlTL/ha	mlTL/ha	mlTL/ha			
RO No	PROJECT SITE/CROP	ACRE-AGE	PRODUC COST	Total COST	Crop Yield	Unit Price	Total Benefit	Net Benefit	ACRE-AGE	INPUT COST	Total COST	Annual Yield	Unit Price	Total Benefit	Net Benefit		
1	HACILAR	522					139.4									243.2	98.8
	WHEAT	210	101	21.2	6.5	47.2	64.4	43.2	119	101	12.0	6.5	47.2	36.5	24.5	66%	
	SUGARBEET	160	277	44.3	30.0	12.5	60.0	15.7	284	277	78.7	30.0	12.5	106.5	27.8		
	SUNFLOWER	77	96	7.4	1.5	100.0	11.6	4.2					100.0				
	TOMATO	25	1,040	26.0	40.0	30.0	30.0	4.0					25.0				
	DRY ONION	50	229	11.5	25.0	75.0	93.8	82.3	119	229	27.3	25.0	75.0	223.1	195.9		
2	URUNLU	465					192.2									288.1	95.9
	WHEAT	140	103	14.4	5.0	47.2	33.0	18.6					47.2				
	SUGAR BEET	140	305	42.7	65.0	12.5	113.8	71.1	274	305	83.6	65.0	12.5	222.6	139.4		
	DRY BEAN	93	125	11.6	2.9	70.0	18.9	7.3					70.0				
	VEGETABLE	70	328	23.0	40.0	40.0	112.0	89.0	96	328	31.5	40.0	40.0	153.6	122.1		
	POTATO	22	592	13.0	35.0	25.0	19.3	6.2	95	592	56.2	35.0	25.0	83.1	26.9		
3	KALENGUZI	210					119.5									145.1	25.6
	VEGETABLE	10	1,040	10.4	50.0	25.0	12.5	2.1					25.0				
	CHERRY	160	319	51.0	8.0	110.0	140.8	89.8					110.0				
	GRAPE	40	309	12.4	20.0	50.0	40.0	27.6	210	309	64.9	20.0	50.0	210.0	145.1		
4	CAMLIBEL	1,366*					387.5		1,366							551.7	164.3
	WHEAT	260	101	26.3	5.0	47.2	61.4	35.1					47.2				
	DRY BEAN/VEG	68	106	7.2	2.9	70.0	13.8	6.6					70.0				
	SUGARBEET	355	318	112.9	70.0	12.5	310.6	197.7	676	318	215.0	70.0	12.5	591.5	376.5		
	POTATO	82	582	47.7	30.0	25.0	61.5	13.8					25.0				
	TOMATO	68	1,040	70.7	50.0	25.0	85.0	14.3					25.0				
	ALFALFA	109	233	25.4	8.0	100.0	87.2	61.8	130	233	30.3	8.0	100.0	104.0	73.7		
	APPLE	30	390	11.7	20.0	20.0	12.0	0.3					20.0				
	PEACH	79	390	30.8	20.0	20.0	31.6	0.8					20.0				
	Rainfed Crops*	315	-	25.6	-	-	82.7	57.1	560	-	45.5	-	-	147.0	101.5		
5	KOZLUK	550					168.8		550							370.2	201.4
	DRY BEAN	54	125	6.8	2.9	70.0	11.0	4.2					70.0				
	PADDY	54	304	16.4	7.0	63.0	23.8	7.4					63.0				
	MAIZE	83	71	5.9	5.0	34.5	14.3	8.4					34.5				
	POTATO	83	582	48.3	30.0	25.0	62.3	13.9					25.0				
	VEGETABLE	110	1,040	114.4	50.0	25.0	137.5	23.1					25.0				
	HAZELNUT	166	227	37.7	3.0	300.0	149.4	111.7	550	227	124.9	3.0	300.0	495.0	370.2		
6	KUSKARA	117					37.6		108							37.6	0.0
	WHEAT	30	99	3.0	4.5	47.2	6.4	3.4					47.2				
	MAIZE	10	136	1.4	4.5	34.5	1.6	0.2					34.5				
	SUGARBEET	40	280	11.2	65.0	12.5	32.5	21.3	28	280	7.8	65.0	12.5	22.8	14.9		
	POTATO	10	592	5.9	35.0	25.0	8.8	2.8	80	592	47.4	35.0	25.0	70.0	22.6		
	ALFALFA	3	233	0.7	7.0	100.0	2.1	1.4					100.0				
	GARLIC	24	638	15.3	9.0	110.0	23.8	8.4					110.0				
7	OZDENK	126					27.8		96							49.9	22.1
	WHEAT	31	98	3.0	5.0	47.2	7.3	4.3					47.2				
	SUGARBEET	31	380	11.8	60.0	12.5	23.3	11.5	23	380	8.7	60.0	12.5	17.3	8.5		
	POTATO	10	592	5.9	35.0	25.0	8.8	2.8					25.0				
	ALFALFA	4	233	0.9	8.0	100.0	3.2	2.3	73	233	17.0	8.0	100.0	58.4	41.4		
	VEGETABLE	13	1,040	13.5	50.0	30.0	19.5	6.0					30.0				
	DRY BEAN	19	125	2.4	2.5	70.0	3.3	1.0					70.0				
8	ASLANLAR	250					133.8		250							159.5	25.7
	WHEAT	25	111	2.8	4.5	47.2	5.3	2.5					47.2				
	VEGETABLES	100	860	86.0	55.0	25.0	137.5	51.5					25.0				
	GRAPE	125	322	40.3	20.0	48.0	120.0	79.8	230	322	80.5	20.0	48.0	240.0	159.5		
9	ILYASKOY	108					11.6		108							11.9	0.2
	WHEAT	11	111	1.2	4.5	47.2	2.3	1.1					47.2				
	SUNFLOWER	11	104	1.1	2.0	100.0	2.2	1.1					100.0				
	PEACH	43	390	16.8	20.0	25.0	21.5	4.7	108	390	42.1	20.0	25.0	54.0	11.9		
	APPLE	43	390	16.8	20.0	25.0	21.5	4.7					25.0				
10	KARISTIRAN	120					58.4		120							62.5	4.1
	WHEAT	18	118	2.1	4.5	47.2	3.8	1.7					47.2				
	SUGARBEET	36	305	11.0	70.0	12.5	31.5	20.5	60	305	18.3	70.0	12.5	52.5	34.2		
	SUNFLOWER	12	109	1.3	2.5	100.0	3.0	1.7					100.0				
	VEGETABLE	48	803	38.5	45.0	32.5	70.2	31.7					32.5				
	ALFALFA	6	328	2.0	8.0	100.0	4.8	2.8	60	328	19.7	8.0	100.0	48.0	28.3		

Note: * a part of crop field remains as rainfed since water cannot meet to cover all.

Source: Estimated by the survey team

ANNEX E

WATER RESOURCES/IRRIGATION

ANNEX E WATER RESOURCES AND IRRIGATION

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Table 1.1 Summary of Rainfall Stations

Agro-ecological Zone	Region	Province	Meteorological Station				Basin	Remarks						
			Station	No.	Categ.	Elev.(m)								
Mediterranean Zone	Istanbul	Istanbul	Göztepe	62	SNP, PR, RS	33	40.97	28.08	1928	Marmara				
			Edirne	50	SNP, PR	51	41.67	26.57	1926	Meriç				
			Kirklareli	52	SNP, PR	232	41.73	27.23	1928	Meriç				
			Kocaeli	66	PR	76	40.77	29.93	1929-34, 37-	Marmara				
			Sakarya	69	SNP, PR	30	40.78	30.41	1929-52, 54-	Sakarya				
			Tekirdağ	56	SNP, PR, SEA	3	40.98	27.55	1930-	Marmara				
			Bursa	116	SNP, PR	100	40.16	29.07	1930-	Susurluk				
			Yalova	600	PR	4	40.66	29.27	1930-5, 57-	Marmara				
			Izmir	220	SNP, PR, RS, SEA	28	38.43	27.16	1928-	K. Menderes				
			Aydın	234	SNP, PR	56	37.85	27.85	1928-	B. Menderes				
			Denizli	237	SNP, PR	425	37.78	29.08	1929-36, 47-	B. Menderes				
			Manisa	186	SNP, PR, OS	71	38.62	27.43	1928-	Gediz				
			Muğla	292	SNP, PR	646	37.22	28.37	1928-	West Akdeniz				
			Balıkesir	152	PR	146	39.65	27.87	1937-	Susurluk				
			Canakkale	112	SNP, PR, SEA	8	40.13	26.4	1928-36, 37-	Marmara				
Burdur	238	SNP, PR	967	37.67	30.33	1929-31, 39-	Burdur							
Mediterranean	Antalya	Antalya	Isparida	240	SNP, PR, RS	997	37.75	30.55	1928-	Antalya				
			Adana	361	PR, RS, OS	27	36.98	35.35	1928-	Antalya				
			İcel	340	SNP, PR, SEA	3	36.8	34.63	1928-	Seyhan				
			Halay	984	SNP, PR, SEA	100	36.2	36.17	1940-	East Akdeniz				
			Omaniye	962	PR	28	36.85	36.22	1928-	Asi				
			Antalya	300	PA, SNP, PR, OS, SEA	54	36.7	30.73	1948-	Asi				
			Trabzon	37	PR, SEA	30	41	39.72	1928-36, 37-	Antalya				
			Bayburt	686	PR	1904	40.25	40.23	1928-	East Karadeniz				
			Giresun	34	SNP, PR, SEA	37	40.92	36.38	1928-	Coruh				
			Gümüşhane	88	SNP, PR	1219	40.47	38.47	1928-	East Karadeniz				
			Rize	40	SNP, PR	9	41.03	40.52	1928-	East Karadeniz				
			Artvin	46	SNP, PR	628	41.18	41.82	1928-32, 46-	Coruh				
			Kastamonu	74	SNP, PR	800	41.37	33.78	1960-	Kızılırmak				
			Zonguldak	614	PR	30	41.63	32.33	1964-	West Karadeniz				
			Sinop	26	SNP, PR	32	42.02	35.17	1979-	West Karadeniz				
Karabük	646	PR	1126	41.2	32.63	1963-	West Karadeniz							
Black Sea	Samsun	Samsun	Bartın	614	PR	30	41.63	32.33	1964-	West Karadeniz				
			Samsun	30	SNP, PR, RS, SEA	4	41.28	36.3	1928-	Yesilirmak				
			Ordu	33	SNP, PR, RS, SEA	4	40.98	37.8	1928-48, 50	East Karadeniz				
			Ankara	130	PR, RS, OZ, OS	80	39.95	37.88	1926-	Sakarya				
			Bolu	70	SNP, PR	743	40.73	31.6	1928-	West Karadeniz				
			Çankırı	80	SNP, PR	751	40.8	33.62	1928-34, 39-42, 47-	Kızılırmak				
			Kırıkkale	135	SNP, PR	748	39.85	33.52	1950-58, 60-	Kızılırmak				
			Eskişehir	706	PA, PR, OS	786		30.52	1948-	Sakarya				
			Kütahya	725	PR	969	39.42	29.97	1928-	Sakarya				
			Uşak	188	SNP, PR	919	38.68	29.4	1928-	B. Menderes				
			Kirsehir	160	SNP, PR	1007	36.15	34.17	1929-	Kızılırmak				
			Yozgat	140	SNP, PR	1288	39.82	34.8	1929-36, 38-	Kızılırmak				
			Bilecik	122	SNP, PR	539	40.15	29.87	1928-	Sakarya				
			Çorum	84	SNP, PR	776	40.55	34.95	1928-	Yesilirmak				
			Konya	244	SNP, PR, OS	1081	37.97	32.55	1948-	Yesilirmak				
Central Anatolian Zone	Konya	Konya	Akaray	966	36.38	34.05	1900-31, 33-34, 38-	Konya basin						
			Karaman	532	PR	1025	37.18	33.22	1928-	Konya basin				
			Niğde	250	SNP, PR	1211	37.97	34.88	1935-	Konya basin				
			Kayseri	156	PR	1063	36.75	35.46	1929-34, 37-	Kızılırmak				
			Neveşehir	193	SNP, PR	1260	38.62	34.7	1956-	Kızılırmak				
			Alvın	190	SNP, PR	1094	38.78	30.53	1928-	Kızılırmak				
			Sivas	90	SNP, PR	1285	36.75	37.02	1928-	Kızılırmak				
			Tokat	86	SNP, PR	606	40.3	36.57	1928-	Yesilirmak				
			Amasya	85	SNP, PR	412	40.68	36.65	1928-30, 37-	Yesilirmak				
			Central Anatolian Zone	Ankara	Ankara	Bolu	70	SNP, PR	743	40.73	31.6	1928-	West Karadeniz	
						Çankırı	80	SNP, PR	751	40.8	33.62	1928-34, 39-42, 47-	Kızılırmak	
						Kırıkkale	135	SNP, PR	748	39.85	33.52	1950-58, 60-	Kızılırmak	
						Eskişehir	706	PA, PR, OS	786		30.52	1948-	Sakarya	
						Kütahya	725	PR	969	39.42	29.97	1928-	Sakarya	
						Uşak	188	SNP, PR	919	38.68	29.4	1928-	B. Menderes	
Kirsehir	160	SNP, PR				1007	36.15	34.17	1929-	Kızılırmak				
Yozgat	140	SNP, PR				1288	39.82	34.8	1929-36, 38-	Kızılırmak				
Bilecik	122	SNP, PR				539	40.15	29.87	1928-	Sakarya				
Çorum	84	SNP, PR				776	40.55	34.95	1928-	Yesilirmak				
Konya	244	SNP, PR, OS				1081	37.97	32.55	1948-	Yesilirmak				
Akaray	966	36.38				34.05	1900-31, 33-34, 38-	Konya basin						
Karaman	532	PR				1025	37.18	33.22	1928-	Konya basin				
Niğde	250	SNP, PR				1211	37.97	34.88	1935-	Konya basin				
Central Eastern	Samsun	Samsun				Kayseri	156	PR	1063	36.75	35.46	1929-34, 37-	Kızılırmak	
			Neveşehir	193	SNP, PR	1260	38.62	34.7	1956-	Kızılırmak				
			Alvın	190	SNP, PR	1094	38.78	30.53	1928-	Kızılırmak				
			Sivas	90	SNP, PR	1285	36.75	37.02	1928-	Kızılırmak				
			Tokat	86	SNP, PR	606	40.3	36.57	1928-	Yesilirmak				
			Amasya	85	SNP, PR	412	40.68	36.65	1928-30, 37-	Yesilirmak				

Note: PR=Principal Station, SM=Small Station, RA=Rainfall Station, RS=Rainfall Station, SEA=Sea, OZ=Ozone

Table 1.2 Monthly Rainfall between 1960 and 1990, Station: Istanbul, Station No.:62

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	112.2	26.4	35.6	44.8	25.2	43.9	17.8	21.9	31.3	35.7	30.7	113.3	538.8
1961	71.8	61.6	45.1	20.3	40.7	12.9	3.2	0.3	121.3	110.1	41.2	84.5	613.0
1962	52.5	89.4	140.8	47.2	6.0	21.6	57.5	0.0	46.7	125.8	140.8	216.8	945.1
1963	153.9	109.8	103.3	30.6	11.3	0.6	0.1	0.0	16.6	59.4	34.2	286.2	806.0
1964	25.7	91.6	32.4	23.0	39.6	1.9	5.6	31.5	168.8	1.4	78.7	155.7	655.9
1965	30.5	150.9	43.4	130.1	30.5	3.9	27.2	11.5	2.2	57.9	175.0	118.0	781.1
1966	118.7	14.2	99.2	35.5	25.5	4.9	0.3	44.3	12.1	2.8	83.6	181.1	622.2
1967	118.4	50.0	47.9	48.1	24.3	30.8	2.8	0.0	41.6	44.3	43.0	98.7	549.9
1968	216.8	49.2	71.8	56.8	18.8	29.3	1.3	38.4	115.2	31.7	68.1	123.7	821.1
1969	129.5	69.2	56.7	81.2	13.7	49.7	8.7	4.5	14.4	15.3	48.6	159.0	650.5
1970	100.1	115.6	58.1	99.1	40.9	15.0	2.0	8.7	27.7	106.8	72.4	109.8	756.2
1971	62.9	63.0	147.6	14.3	21.1	6.7	1.9	7.8	22.2	129.6	69.2	116.6	662.9
1972	58.8	48.2	22.0	54.4	22.0	30.0	13.4	48.1	94.5	100.0	100.0	40.4	631.8
1973	56.7	80.7	59.8	63.3	26.4	37.5	4.1	3.9	17.8	162.3	64.5	63.3	640.3
1974	85.4	51.9	48.6	36.2	124.4	5.8	10.6	89.6	28.3	13.4	59.5	93.2	646.9
1975	111.6	66.9	95.7	26.2	51.5	39.6	16.8	112.2	9.2	98.3	69.6	92.1	789.7
1976	56.4	64.5	19.3	27.7	12.3	22.3	28.2	38.1	59.7	43.4	54.5	126.5	552.9
1977	56.5	20.7	83.9	62.7	5.3	28.9	73.4	12.6	27.4	28.1	79.1	117.4	596.0
1978	148.0	73.3	66.8	99.8	32.5	1.3	3.9	23.2	65.7	146.2	56.8	85.8	803.3
1979	131.5	75.5	12.3	76.2	5.6	11.9	36.7	103.4	22.2	43.3	107.9	125.2	626.5
1980	157.1	80.3	134.9	41.5	58.3	19.9	11.2	34.2	31.3	14.1	154.7	131.3	868.8
1981	182.4	98.4	62.4	19.2	61.9	41.8	51.9	27.1	106.6	44.5	99.5	252.0	1047.7
1982	113.4	44.6	57.6	89.1	37.7	2.6	30.4	18.0	9.3	31.7	36.3	119.2	589.9
1983	111.1	110.4	13.6	34.4	51.7	45.6	16.9	6.8	46.8	83.3	94.5	41.4	656.5
1984	96.6	43.2	90.7	58.9	33.1	26.9	30.1	47.9	2.6	41.0	79.9	27.7	578.6
1985	187.5	64.4	25.5	33.7	10.6	13.8	24.5	0.3	6.7	163.4	169.9	79.3	781.6
1986	143.3	99.6	15.0	30.6	3.9	29.0	0.4	2.2	17.0	90.5	56.5	87.0	575.0
1987	108.1	22.5	99.3	41.5	18.6	9.1	82.6	52.5	0.5	114.6	98.1	163.2	808.6
1988	12.6	50.4	59.8	45.7	17.3	49.8	17.2	0.9	23.7	65.4	208.2	169.4	720.4
1989	28.8	23.3	26.4	15.9	49.3	12.5	8.4	6.6	5.7	101.2	115.8	62.0	455.9
1990	33.9	24.3	24.0	32.2	46.4	34.5	1.1	8.1	53.4	52.1	108.6	123.9	542.5
Mean	99.1	65.6	61.3	49.0	31.2	22.1	19.0	26.0	40.3	69.6	87.0	121.3	687.6
P50%	98.4	65.1	60.8	48.7	30.9	21.9	18.9	25.8	40.0	69.1	86.3	120.3	682.3
P80%	83.7	55.4	51.7	41.4	26.3	18.6	16.1	21.9	34.0	58.7	73.4	102.4	580.3
P90%	76.4	50.6	47.2	37.8	24.0	17.0	14.7	20.0	31.1	53.7	67.1	93.5	530.1

Table 1.3 Monthly Rainfall between 1960 and 1990, Station: Edirne, Station No.:50

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	135.5	34.4	20.6	77.5	49.1	160.4	44.0	2.9	50.4	8.9	73.1	106.3	763.1
1961	111.6	26.4	26.4	18.9	102.8	71.1	23.0	17.0	9.1	7.6	33.6	89.9	537.3
1962	20.0	50.5	98.6	56.7	24.8	27.3	58.4	0.1	32.6	55.5	74.0	75.4	573.9
1963	115.5	115.9	84.1	63.9	43.7	65.0	8.4	5.6	31.8	62.3	23.1	65.6	684.9
1964	11.4	43.1	46.3	35.1	51.0	23.4	42.4	15.0	135.3	26.8	35.7	98.6	564.1
1965	32.8	113.3	65.1	40.8	72.0	7.0	6.4	30.7	0.1	2.1	88.9	141.1	600.3
1966	112.8	20.7	66.6	51.9	52.1	33.9	28.6	28.3	31.9	88.3	218.3	130.2	863.6
1967	103.9	18.9	35.8	43.3	49.6	67.0	44.5	10.3	40.7	36.5	32.5	53.7	536.7
1968	133.6	50.3	18.3	3.6	3.2	35.9	5.8	67.1	52.4	10.0	48.5	95.6	524.3
1969	81.8	109.7	50.2	66.5	10.9	22.9	17.0	47.1	19.8	0.9	16.0	153.6	596.4
1970	47.7	80.0	81.1	92.7	52.3	25.9	38.7	2.9	12.7	45.5	58.6	30.2	568.3
1971	68.0	59.4	125.3	76.7	28.5	107.8	68.0	2.6	101.5	30.7	48.3	46.6	763.4
1972	16.8	40.0	10.2	50.2	55.0	13.9	29.6	67.2	88.4	150.9	24.2	3.8	550.2
1973	86.5	96.1	84.4	59.1	17.2	43.6	18.9	6.0	9.5	50.6	16.1	60.3	548.3
1974	16.8	50.8	60.2	29.0	83.6	47.9	14.4	10.0	21.3	49.2	87.3	37.8	508.3
1975	54.6	12.0	44.4	95.7	106.4	94.8	8.1	115.8	6.5	121.0	70.0	40.2	769.5
1976	22.4	15.5	20.3	31.9	44.5	28.3	21.3	40.9	14.4	68.2	49.6	73.2	430.5
1977	49.5	74.2	42.4	62.0	41.8	55.9	47.9	2.5	95.4	19.2	45.5	32.1	568.4
1978	36.2	58.3	68.1	65.5	66.6	29.8	5.8	6.7	121.9	34.5	20.6	25.8	539.8
1979	109.5	72.3	4.4	30.5	49.3	4.1	85.2	16.1	6.3	91.5	112.9	72.6	654.7
1980	80.1	33.0	29.1	88.5	93.2	38.0	15.3	39.6	13.3	9.6	59.3	137.3	636.3
1981	163.2	48.7	65.2	15.6	49.9	7.2	25.3	20.7	7.8	44.6	90.8	83.3	622.3
1982	34.6	56.6	64.0	95.2	35.1	22.9	15.1	20.7	1.8	37.1	46.6	94.6	524.3
1983	16.8	29.8	11.8	25.9	27.1	134.2	26.0	21.6	106.7	17.3	25.8	40.5	483.5
1984	89.9	52.6	144.4	62.1	63.1	10.2	53.7	38.8	1.3	0.1	127.3	14.5	658.0
1985	62.7	92.0	16.3	54.6	13.4	48.2	15.5	32.4	6.6	16.0	87.3	7.9	452.9
1986	82.2	113.6	13.7	19.0	25.5	22.7	23.7	14.0	0.2	67.3	29.2	40.9	452.0
1987	68.3	19.3	38.6	97.2	21.1	39.4	10.7	29.1	1.6	52.9	117.4	115.1	610.7
1988	9.9	34.9	106.9	41.2	23.2	20.9	7.3	0.0	31.0	17.2	137.1	48.6	478.2
1989	0.2	4.3	120.9	23.3	68.4	69.2	7.4	22.6	23.0	40.2	64.5	83.5	527.5
1990	2.6	6.3	6.3	62.7	65.0	29.8	19.0	4.3	55.7	90.6	32.2	126.4	500.9
Mean	63.8	52.7	53.9	52.8	48.0	45.4	26.9	23.8	36.5	43.6	64.3	71.8	583.6
P50%	63.9	52.7	53.9	52.9	48.1	45.5	27.0	23.9	36.5	43.7	64.4	71.9	584.3
P80%	55.0	45.4	46.4	45.5	41.4	39.2	23.2	20.5	31.4	37.6	55.4	61.9	503.0
P90%	50.4	41.6	42.6	41.7	38.0	35.9	21.3	18.8	28.8	34.5	50.8	56.7	481.1

Table 1.4 Monthly Rainfall between 1960 and 1990, Station: Kirklareli, Station No.:52

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	141.2	36.9	13.8	54.7	54.5	158.7	76.7	1.5	7.3	16.0	40.0	85.0	686.3
1961	100.7	24.3	34.6	13.8	74.5	46.4	11.2	28.2	37.4	18.3	36.3	70.4	496.1
1962	18.0	35.0	232.9	41.3	84.0	55.8	36.1		57.8	26.2	148.8	77.9	813.8
1963	91.4	139.2	103.8	76.5	34.1	29.1	4.6		38.5	72.9	9.9	75.3	675.3
1964	10.6	53.0	52.4	57.0	41.0	9.9	9.2	5.8	75.9	23.7	38.3	106.0	482.8
1965	43.7	113.3	13.6	73.4	68.6	0.0	9.2	6.7	0.3	2.1	98.2	109.6	538.7
1966	144.8	37.5	122.6	75.0	63.9	66.7	8.2	32.0	56.7	67.1	156.7	159.1	990.3
1967	117.4	11.2	22.1	39.0	21.7	51.6	14.3	44.3	33.2	31.0	32.2	83.4	501.4
1968	161.2	63.1	22.8	7.3	26.3	10.1	3.1	58.4	49.5	4.3	28.9	112.2	547.2
1969	58.4	135.6	32.7	44.0	4.2	16.8	32.9	31.7	3.8	0.3	28.5	105.2	494.1
1970	104.0	90.2	53.1	57.7	39.2	21.1	5.1	15.0	0.4	61.7	73.5	26.9	547.9
1971	63.8	83.7	98.9	25.3	43.1	49.4	56.9	2.1	55.0	30.1	114.8	33.3	656.4
1972	13.5	18.4	16.8	50.1	64.1	19.6	36.3	53.7	80.3	140.9	30.4	4.9	529.0
1973	65.1	99.2	64.1	43.8	31.9	22.1	52.0	7.4	38.5	117.2	20.4	99.7	661.4
1974	14.0	46.2	41.9	56.6	69.7	52.0	7.1	8.6	22.5	56.6	98.1	41.9	515.2
1975	58.2	8.1	62.4	52.9	76.2	73.4	22.3	44.9	0.3	147.5	75.5	53.0	674.7
1976	41.1	8.6	17.4	38.8	33.2	66.3	35.9	96.1	19.0	55.9	64.9	101.7	578.9
1977	74.0	76.0	27.3	48.3	34.5	102.2	25.3	6.9	58.5	26.5	82.1	32.7	594.3
1978	45.3	60.7	83.6	85.1	53.0	15.3	1.3	12.1	49.6	39.8	23.4	35.2	504.4
1979	125.5	90.4	8.5	63.7	55.1	17.4	98.2	49.8	4.8	90.7	151.7	51.0	806.8
1980	86.3	6.0	30.8	59.9	91.9	44.3	1.8	32.8	17.8	23.6	32.8	162.8	590.8
1981	106.1	30.0	60.2	36.4	94.2	0.8	12.7	21.3	8.2	58.2	110.0	169.4	707.5
1982	28.3	36.2	37.4	69.2	52.9	23.7	15.3	10.0	3.3	64.4	66.4	95.9	493.0
1983	18.1	30.5	10.1	11.7	29.4	115.8	27.3	3.6	28.5	27.5	36.9	42.5	381.9
1984	91.3	35.5	121.0	62.8	28.9	12.7	12.7	33.5	2.2	2.1	108.4	14.6	525.7
1985	76.0	57.0	22.8	63.9	9.4	51.0	14.5	0.7	5.3	15.7	118.0	9.7	444.0
1986	90.8	67.4	10.9	22.5	14.6	45.8	15.2	0.2	2.6	49.9	25.1	95.7	440.7
1987	53.4	32.9	50.7	70.7	53.2	46.6	7.7	42.9	2.7	34.3	107.6	86.7	589.4
1988	13.9	53.3	71.5	24.1	65.9	100.8	9.6		13.8	9.4	133.4	81.2	576.9
1989	0.6	3.2	37.9	17.7	28.7	119.3	1.1	23.7	9.0	42.7	60.3	45.1	389.3
1990	1.2	22.4	11.3	82.0	45.4	37.3	26.7	3.6	50.5	70.1	38.5	99.4	488.4
Mean	66.4	51.8	51.3	49.2	48.0	47.8	22.3	24.2	26.9	45.7	70.6	76.4	578.1
P50%	66.1	51.5	51.0	49.0	47.7	47.6	22.2	24.1	26.7	45.5	70.3	76.0	575.3
P80%	54.7	42.7	42.3	40.6	39.6	39.4	18.4	19.9	22.2	37.7	58.2	63.0	476.6
P90%	49.1	38.3	37.9	36.4	35.5	35.3	16.5	17.9	19.9	33.8	52.2	56.4	427.3

Table 1.5 Monthly Rainfall between 1960 and 1990, Station: Kocoei-izmit, Station No.:66

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	112.5	61.7	59.3	29.4	39.3	52.6	38.1	45.4	38.4	31.8	25.5	89.8	623.8
1961	80.4	63.0	51.0	20.9	63.1	119.6	47.1	2.5	43.1	68.6	60.1	65.2	674.6
1962	40.6	81.9	93.6	51.3	6.4	7.1	42.3		55.5	191.6	92.9	210.0	873.2
1963	154.6	61.0	98.6	35.8	39.4	19.0	42.7	0.2	115.0	98.8	29.1	234.6	928.8
1964	48.1	79.5	72.5	45.4	31.3	15.6	3.8	24.0	138.3	6.6	120.1	162.6	747.8
1965	37.4	101.8	61.1	89.1	35.1	59.5	82.0	13.3		47.6	75.4	75.4	677.7
1966	103.2	14.8	104.2	34.1	52.6	20.2	16.4	73.1	3.1	25.9	29.8	104.3	581.7
1967	116.7	82.1	67.4	61.8	61.7	146.3	20.6	13.8	58.5	71.8	149.0	110.9	960.6
1968	135.5	48.2	86.5	54.4	21.9	35.5	2.0	29.3	217.3	85.8	111.8	92.4	920.6
1969	114.4	51.3	39.3	70.8	44.4	48.8	10.3	0.2	3.4	27.7	66.8	104.7	582.1
1970	85.9	143.8	81.5	71.9	65.1	38.6	1.6	27.6	97.1	89.4	57.9	179.9	940.3
1971	42.1	53.9	137.3	43.8	62.0	19.5	16.2	18.4	15.5	62.4	129.3	160.3	760.7
1972	55.3	41.6	37.0	47.6	46.2	157.7	31.1	66.6	88.2	95.9	47.9	45.3	760.4
1973	32.5	35.1	66.5	59.4	13.4	43.9	9.3	36.1	39.6	307.8	98.3	93.6	835.5
1974	96.7	33.7	67.6	34.8	74.4	28.2	16.1	219.7	43.4	19.8	52.6	97.3	784.3
1975	93.7	105.8	74.3	21.8	143.9	112.1	27.8	65.4	40.7	100.7	83.1	136.3	1005.6
1976	62.1	58.8	15.5	44.9	19.1	33.3	31.1	91.0	41.7	52.5	51.0	88.7	589.7
1977	56.8	23.5	88.9	71.0	8.3	58.0	2.0	1.7	42.4	35.8	80.9	113.9	583.2
1978	103.0	60.5	56.1	91.9	23.2	10.3	4.9	40.9	89.9	84.5	18.8	99.2	683.2
1979	106.4	56.4	14.6	63.7	53.8	21.3	61.0	139.5	34.7	90.5	112.7	106.8	861.4
1980	115.1	61.2	104.8	52.0	25.3	17.4	20.6	64.4	41.3	36.8	130.2	188.5	857.6
1981	135.4	105.8	65.4	14.7	78.2	19.5	33.3	18.8	170.5	98.2	60.4	199.6	999.8
1982	95.8	66.4	69.0	96.4	38.0	17.1	109.5	66.4	31.1	33.2	31.6	92.2	746.7
1983	103.8	138.6	28.6	59.4	30.8	101.3	44.1	107.1	45.1	115.9	160.5	52.9	988.1
1984	84.0	83.2	86.9	97.9	27.9	29.9	143.9	69.8	2.5	27.4	61.7	17.4	732.5
1985	122.0	83.4	33.8	28.7	39.6	26.2	8.5	2.4	9.9	146.5	96.2	89.3	686.5
1986	103.7	90.7	8.1	18.8	22.9	75.2	11.9	0.7	5.0	113.3	78.8	113.7	642.8
1987	156.6	32.9	138.5	56.1	52.9	42.3	61.4	60.7	0.2	164.8	83.0	157.6	1007.0
1988	29.0	75.7	70.1	47.2	74.3	85.1	14.3		27.5	104.4	142.5	89.9	760.0
1989	35.0	13.9	15.0	5.4	48.7	20.9	21.3	23.7	8.1	229.4	137.8	74.7	633.9
1990	64.4	55.2	37.0	76.6	42.2	22.7	34.5	7.3	107.5	80.4	128.2	78.3	734.3
Mean	87.8	66.6	65.5	51.5	44.4	48.5	32.6	45.9	55.2	88.6	84.0	113.7	779.5
P50%	86.5	65.6	64.5	50.8	43.7	47.8	32.1	45.2	54.3	87.3	82.8	112.0	768.0
P80%	74.4	56.4	55.5	43.6	37.6	41.1	27.6	38.8	46.7	75.0	71.1	96.3	660.2
P90%	68.7	52.1	51.2	40.3	34.7	38.0	25.5	35.9	43.1	68.3	65.7	88.9	609.5

Table 1.6 Monthly Rainfall between 1960 and 1990, Station: Sakarya, Station No.:69

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	135.3	79.7	79.5	36.7	57.7	86.5	48.9	51.3	32.2		27.2	84.9	719.9
1961	111.0	79.0	78.8	39.9	67.0	80.3	117.4	0.7	83.2	58.5	56.4	59.2	831.4
1962	52.4	123.6	85.9	68.2	23.8	10.8	77.8		45.4	120.6	64.6	213.8	886.9
1963	186.3	33.3	145.4	48.6	41.8	21.5	56.2	1.5	97.0	70.4	40.0	199.7	941.7
1964	47.3	102.3	79.0	35.0	50.9	70.1	20.7	78.3	113.5	4.3	142.1	153.2	896.7
1965	27.6	120.4	73.2	104.7	52.2	26.4	92.4	12.4	0.1	52.8	97.9	103.1	763.2
1966	105.9	15.2	124.0	46.8	20.5	45.1	20.9	55.0	9.1	47.7	12.0	104.1	606.3
1967	98.3	82.5	89.3	65.8	61.1	48.8	7.6	5.3	73.0	57.6	143.9	94.6	827.8
1968	144.1	44.7	94.4	60.9	23.2	12.6	0.1	130.5	172.8	103.7	86.8	87.0	960.8
1969	101.4	64.1	62.3	133.8	36.6	126.8	57.8		0.7	13.9	64.5	81.6	743.5
1970	94.1	160.3	90.4	74.3	30.5	50.2	7.8	22.3	96.1	110.5	84.2	137.1	957.8
1971	42.2	53.1	117.6	50.1	51.3	53.3	33.4	21.9	73.1	73.6	86.6	174.8	831.0
1972	59.3	48.8	26.8	46.9	29.8	352.5	127.2	150.7	92.8	88.2	56.7	17.9	1097.6
1973	35.3	36.0	66.2	41.7	13.9	68.9	19.5	53.5	22.0	117.6	125.4	86.7	686.7
1974	65.6	39.5	61.2	36.5	67.5	45.2	7.2	179.7	28.0	18.6	58.9	124.4	732.3
1975	113.1	124.5	73.2	32.8	89.9	60.8	26.7	94.4	35.4	102.7	91.4	128.5	973.4
1976	68.6	63.6	21.6	45.2	28.0	99.6	80.1	52.4	55.9	82.6	91.2	76.5	765.3
1977	68.3	16.7	98.5	73.8	26.0	92.2	38.0	8.8	49.4	39.5	60.6	154.1	725.9
1978	142.3	66.7	57.1	117.3	30.9	13.5	5.1	70.1	65.0	118.9	11.4	101.7	800.0
1979	122.7	67.3	29.6	60.1	63.5	47.7	75.5	78.0	54.6	64.7	101.4	124.9	890.0
1980	124.6	47.7	104.8	29.9	53.0	28.6	24.5	29.6	46.4	46.6	145.7	133.7	815.1
1981	141.5	125.2	90.1	19.8	64.2	22.1	161.6	8.9	49.9	64.6	47.2	167.9	963.0
1982	107.8	69.2	71.5	109.9	46.1	18.4	52.2	61.7	9.7	34.7	53.7	88.1	723.0
1983	97.9	96.0	25.4	61.5	40.5	86.3	43.7	85.7	44.0	146.2	135.8	50.8	913.8
1984	62.4	89.2	73.4	133.4	23.4	80.5	120.2	70.4	0.3	50.8	80.8	26.2	811.0
1985	80.3	88.9	32.7	22.8	84.0	14.6	19.0	4.0	38.6	122.8	68.8	79.7	656.2
1986	107.5	98.3	10.0	18.3	28.3	123.5	65.5	0.6	20.3	102.0	114.9	80.5	769.7
1987	168.6	36.1	153.9	57.6	38.7	24.5	40.4	64.4	0.7	131.1	92.6	155.8	964.4
1988	35.0	63.2	76.9	48.2	97.7	71.4	69.2	1.4	19.6	104.2	122.9	77.7	787.4
1989	38.7	25.6	10.8	1.4	54.2	86.4	45.3	14.1	31.2	150.8	134.3	82.6	675.3
1990	69.3	60.6	68.3	85.0	38.5	53.8	19.8	8.9	114.1	78.9	72.8	61.2	731.2
Mean	92.1	71.7	73.3	58.3	46.3	65.3	51.0	48.8	50.8	79.3	83.0	106.8	820.9
P50%	91.3	71.1	72.7	57.8	45.9	64.7	50.6	48.4	50.4	78.7	82.3	106.0	814.2
P80%	81.2	63.2	64.7	51.4	40.8	57.6	45.0	43.1	44.8	70.0	73.2	94.3	724.2
P90%	76.4	59.4	60.8	48.3	38.4	54.1	42.3	40.5	42.1	65.8	68.8	86.6	680.6

Table 1.7 Monthly Rainfall between 1960 and 1990, Station: Tekirdag, Station No.:56

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	104.8	31.5	34.4	51.7	43.9	88.8	13.2	0.0	21.6	34.6	32.4	89.5	546.2
1961	53.5	27.1	17.0	17.7	50.5	48.9	3.2	0.4	14.1	43.6	39.0	90.2	405.2
1962	36.4	62.8	119.0	41.6	3.0	24.4	26.2	0.0	100.4	78.5	67.6	184.1	744.0
1963	73.5	86.2	72.7	47.0	53.7	9.5	20.6		26.5	60.2	27.8	151.1	628.8
1964	19.1	50.2	29.5	17.7	48.2	20.6	8.7	9.9	132.8	30.5	36.9	121.8	525.9
1965	35.6	117.9	37.8	80.0	59.2	12.2	3.1	22.3	0.2	39.0	200.8	170.8	778.9
1966	132.8	13.9	83.8	65.2	19.9	32.7	9.2	10.3	10.9	17.2	147.1	123.0	666.0
1967	120.7	30.1	34.9	49.9	33.5	37.2	13.9	11.1	12.0	44.5	20.6	102.9	511.3
1968	156.7	39.6	91.9	8.7	7.9	38.2	10.4	32.5	99.1	38.8	59.1	139.4	722.3
1969	106.2	112.4	43.5	51.0	0.5	68.5	22.1	5.8	1.5	0.0	32.4	134.7	578.6
1970	48.3	125.3	83.5	46.2	36.5	26.3	1.3		4.3	66.6	75.5	64.9	578.7
1971	83.1	55.7	128.1	18.5	22.8	11.7	20.3	13.7	30.5	36.7	99.5	41.5	561.9
1972	23.4	24.9	19.2	16.8	38.1	45.2	25.9	26.3	54.9	135.8	65.7	0.9	477.1
1973	46.9	95.8	46.7	26.0	15.6	12.7	28.4	6.8	26.3	40.6	33.9	30.6	410.3
1974	17.6	45.8	61.9	35.9	87.3	50.4	0.4	2.4	15.3	24.5	93.1	45.4	480.0
1975	66.5	26.2	80.6	40.9	65.2	113.8	14.8	38.4	0.0	84.3	124.0	57.2	711.9
1976	34.9	9.5	28.0	39.4	42.3	20.4	20.9	77.5	16.1	99.9	84.8	96.0	569.7
1977	57.0	27.7	60.7	30.4	23.3	68.6	8.8	1.3	67.2	21.5	64.5	52.8	483.8
1978	104.5	60.7	38.9	114.1	57.4	8.3	2.0	42.9	122.5	100.6	23.3	21.6	696.8
1979	88.7	31.5	19.7	58.4	56.8	29.0	53.7	13.9	6.3	122.7	96.4	43.4	620.5
1980	100.2	51.5	60.7	41.9	43.8	28.8	27.0	2.1	7.5	6.6	77.0	88.6	535.7
1981	142.2	55.4	35.1	7.3	52.8	0.7	43.8	0.4	22.9	65.0	146.2	183.1	754.9
1982	61.5	22.3	41.9	100.1	59.7	15.2	21.9	21.2	1.2	32.6	26.0	74.5	478.1
1983	36.1	70.2	3.2	15.9	18.8	35.4	85.7	18.5	64.2	15.0	30.0	45.7	438.7
1984	110.5	35.8	95.8	80.0	28.6	20.0	65.1	13.3	0.0	4.2	50.8	13.0	517.1
1985	106.1	49.5	24.0	66.7	5.8	26.5	13.2		4.4	32.5	130.1	25.4	484.2
1986	141.0	77.6	40.3	15.3	4.5	94.6	8.3	0.1	7.7	44.2	44.7	76.3	554.6
1987	116.1	23.7	56.6	39.6	40.7	22.4	12.8	5.2	0.2	31.9	100.2	116.6	566.0
1988	11.4	54.6	86.4	50.3	39.8	41.1	28.0		26.7	14.7	163.7	109.1	625.8
1989	1.2	9.5	61.6	8.1	70.7	75.6	13.8	36.8	5.5	28.2	48.2	71.3	430.5
1990	3.5	8.6	13.3	55.9	37.1	58.2	22.6	9.0	36.7	61.2	60.0	144.9	511.0
Mean	72.3	49.5	53.2	43.2	37.7	38.2	20.9	15.6	30.3	47.0	74.2	87.4	567.6
P50%	71.3	48.8	52.5	42.6	37.2	37.7	20.7	15.4	29.9	46.4	73.3	86.3	560.1
P80%	61.1	41.8	45.0	36.5	31.8	32.3	17.7	13.2	25.6	39.7	62.7	73.9	479.6
P90%	56.2	38.5	41.5	33.6	29.3	29.8	16.3	12.2	23.6	36.6	57.8	68.1	441.8

Table 1.8 Monthly Rainfall between 1960 and 1990, Station: Bursa, Station No.:116

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	128.1	63.9	60.5	56.1	57.3	82.6	16.9	4.3	11.7	22.5	69.0	158.8	731.7
1961	78.1	49.9	47.7	28.1	30.7	44.7	9.2	1.2	17.3	38.4	47.4	55.1	447.8
1962	32.8	117.3	109.8	88.9	5.3	7.0	21.3		21.9	112.4	68.9	228.6	814.2
1963	169.6	57.7	80.4	68.8	76.8	33.8	3.2		31.3	42.9	38.7	244.2	847.4
1964	18.5	76.6	94.7	27.0	50.7	3.0	2.3	31.0	94.4	2.1	104.4	162.2	666.9
1965	30.4	165.5	51.3	85.1	45.0	21.7	30.9	7.1		22.8	112.4	82.7	654.9
1966	127.2	12.5	130.0	99.1	15.6	36.9	0.0	70.2	5.4	29.1	48.2	103.1	677.3
1967	149.4	64.3	63.1	66.6	27.5	22.0	14.7	0.8	17.0	96.3	79.6	111.4	712.7
1968	210.4	61.1	77.3	27.1	11.7	30.8	0.5	53.1	120.8	83.7	76.5	81.2	834.2
1969	95.2	91.8	61.8	94.5	21.8	42.6	18.2		0.0	9.3	28.1	147.0	610.3
1970	101.9	158.6	61.6	90.6	68.0	20.8	0.7	12.2	46.8	77.7	62.2	169.9	871.0
1971	35.5	67.1	139.5	32.2	24.8	15.9	18.8	26.7	24.1	53.7	66.7	132.4	637.4
1972	31.9	24.4	29.5	79.5	48.2	34.2	13.3	69.1	103.0	102.0	69.5	16.9	621.5
1973	48.1	90.2	69.4	110.5	57.3	46.0	4.5	45.7	12.2	96.7	111.3	131.7	823.6
1974	47.4	33.3	72.2	70.0	107.2	14.3	16.1	49.8	49.8	29.1	93.5	137.1	719.8
1975	63.9	65.2	91.5	47.8	97.0	64.6	3.7	10.1	4.7	54.2	69.6	118.7	691.0
1976	72.5	19.8	25.9	46.4	61.8	32.8	27.4	32.8	60.8	74.5	49.8	123.2	617.7
1977	53.1	22.3	60.9	85.6	8.1	14.6	0.3		22.5	32.5	131.7	142.9	574.6
1978	102.3	85.2	59.6	81.2	36.6	13.6	6.1	11.1	112.2	63.5	35.1	84.2	690.7
1979	111.3	49.2	16.4	63.2	32.0	12.2	5.0	33.6	31.9	42.8	86.3	81.3	565.2
1980	152.3	65.7	106.8	52.1	40.1	44.5	19.4	1.6	14.6	27.8	127.8	155.6	808.2
1981	167.7	64.3	64.2	3.3	91.3	10.2	37.4	9.3	88.3	60.4	58.0	227.1	881.5
1982	118.5	42.1	44.1	105.5	73.8	11.1	61.0	8.0	0.2	35.1	16.3	93.2	608.9
1983	90.3	105.1	12.0	59.6	47.7	39.4	27.3	13.5	23.5	45.7	119.4	58.6	642.1
1984	86.4	64.1	93.4	96.6	39.6	24.6	72.4	3.1	1.7	10.2	69.1	22.8	584.0
1985	104.1	73.7	31.7	33.0	49.3	30.1	8.4	0.2	10.4	79.4	121.1	44.9	586.3
1986	135.8	99.6	5.0	36.7	14.2	81.6	6.6	0.1		53.0	53.9	143.6	630.1
1987	173.9	24.8	91.4	42.4	56.5	52.9	31.3	27.5	0.1	66.4	89.2	140.6	797.0
1988	16.4	57.9	77.1	61.6	17.2	28.6	1.1	0.9	13.4	53.8	133.5	87.0	548.5
1989	28.0	6.6	23.8	11.8	43.5	44.6	6.8	9.0	15.3	163.9	108.6	96.9	558.6
1990	33.3	55.0	26.6	70.3	66.9	22.5	39.4	0.2	57.3	79.6	141.5	128.0	720.6
Mean	90.8	65.6	63.8	62.0	45.9	31.7	16.9	19.7	34.6	56.8	80.2	119.7	683.1
P50%	89.2	64.5	62.8	60.9	45.1	31.2	16.8	19.4	34.0	55.8	78.9	117.7	671.4
P80%	78.2	56.5	55.0	53.4	39.6	27.4	14.6	17.0	29.8	49.0	69.1	103.1	588.5
P90%	73.2	52.9	51.5	49.9	37.0	25.6	13.6	15.9	27.9	45.8	64.7	96.5	550.5

Table 1.9 Monthly Rainfall between 1960 and 1990, Station: Yalova, Station No.:660

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	117.1	53.0	67.6	42.9	40.0	50.5	36.1	18.6	26.8	32.3	36.2	132.3	653.2
1961	117.4	102.5	64.2	34.9	62.6	55.4	22.2	6.3	50.7	116.1	61.0	84.2	777.5
1962	62.5	129.3	124.3	75.0	0.7	11.6	39.1		54.4	125.0	79.0	251.7	952.6
1963	192.9	77.0	107.5	39.1	20.1	2.4	20.5	0.8	34.6	93.4	33.4	286.4	908.1
1964	29.5	159.0	100.1	35.7	43.1	7.7	4.4	37.1	132.7	5.3	94.6	118.3	767.5
1965	41.4	210.8	80.2	149.1	47.1	1.5	48.5	6.8		48.8	62.4	73.8	770.4
1966	148.7	14.6	134.3	36.3	15.6	18.3	0.1	48.7	6.7	4.4	36.2	137.9	601.8
1967	134.7	70.7	56.7	39.3	39.9	20.1	11.1	0.5	25.6	119.0	45.0	135.2	697.8
1968	173.6	72.1	102.8	46.9	21.3	22.4	0.7	44.2	219.5	62.3	95.7	149.0	1010.5
1969	114.0	92.0	59.9	92.6	29.3	45.2	24.6	0.3	0.7	22.0	66.6	133.7	680.9
1970	108.7	121.6	89.4	68.4	43.5	14.1	2.1	9.7	127.1	124.6	48.7	192.1	950.0
1971	59.6	70.9	176.1	13.4	18.9	29.1	13.5	8.0	24.5	74.5	113.8	118.6	720.9
1972	44.8	23.6	30.2	56.7	23.3	29.6	42.0	54.2	103.9	90.1	93.3	18.1	609.8
1973	44.3	56.9	78.8	80.9	11.5	27.9	0.0	27.3	9.8	226.6	90.5	122.2	776.6
1974	76.3	56.4	53.9	34.2	73.4	138.1	10.9	81.5	15.9	27.1	75.1	120.2	763.0
1975	111.7	102.8	86.4	39.2	55.2	82.0	6.5	77.6	16.6	80.3	66.4	131.4	856.1
1976	65.5	27.9	21.7	41.0	13.5	45.4	59.5	122.1	53.1	61.8	55.0	136.2	702.7
1977	56.4	39.4	72.2	82.3	6.6	8.3	8.5	0.2	123.9	41.3	72.3	137.8	649.2
1978	121.8	79.0	58.0	59.3	21.4	2.2	2.2	49.1	103.9	55.6	34.0	114.8	701.3
1979	83.4	43.2	9.7	55.5	17.8	2.1	15.6	66.1	47.8	36.2	66.5	61.1	505.0
1980	148.4	87.6	134.7	63.9	30.7	36.5	7.5	4.8	37.7	31.5	131.3	167.2	881.8
1981	184.7	133.7	91.4	8.1	66.3	13.6	50.0	5.4	214.6	50.7	84.2	243.3	1146.0
1982	132.7	48.0	66.8	108.3	36.3	10.7	52.2	12.7		16.6	49.1	80.2	613.6
1983	128.3	117.4	10.8	65.2	74.0	45.5	18.5	19.9	26.0	97.5	139.6	55.3	798.0
1984	87.9	62.3	91.5	88.0	34.7	18.5	59.4	32.5		5.8	17.1	47.5	562.4
1985	122.8	53.8	28.7	35.4	14.4	13.2	21.0		18.4	129.8	149.1	58.2	644.8
1986	98.5	132.1	8.1	16.7	6.7	42.5	12.1		2.6	70.1	73.0	110.4	572.8
1987	155.2	31.0	92.7	42.1	56.5	21.2	47.7	36.2	1.4	76.9	88.6	169.0	818.5
1988	11.8	47.0	42.1	81.3	41.2	27.5	8.5	9.1	28.8	111.7	169.9	89.5	666.4
1989	13.5	12.3	15.7	3.7	53.9	81.3	47.7	10.9	7.8	133.6	151.6	74.9	606.9
1990	28.1	53.8	35.9	35.8	53.9	66.3	6.3	16.7	100.1	113.8	140.1	108.8	759.6
Mean	97.3	76.8	70.7	53.9	34.6	32.0	22.5	28.8	55.9	74.1	82.2	123.5	746.0
P50%	96.6	76.3	70.2	53.5	34.4	31.7	22.3	28.6	55.5	73.5	81.6	122.6	740.4
P80%	82.0	64.7	59.6	45.4	29.2	26.9	18.9	24.3	47.1	62.4	69.3	104.1	628.6
P90%	74.8	59.1	54.4	41.4	26.6	24.6	17.3	22.2	43.0	56.9	63.2	95.0	573.5

Table 1.10 Monthly Rainfall between 1960 and 1990, Station: Izmir, Station No.:220

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	135.6	55.1	35.3	67.6	17.7	7.5	0.3		6.0	4.8	157.3	296.9	784.1
1961	127.2	87.6	12.2	100.5	16.8	23.5		8.2	3.9	30.3	59.2	109.9	579.3
1962	55.3	147.9	151.9	56.7	1.3	3.8			28.5	32.3	94.2	291.0	862.9
1963	167.5	120.8	49.7	22.8	41.7	0.6				83.3	36.8	46.0	569.2
1964	55.5	72.4	65.3	2.3	16.6	27.8		0.0	68.5	0.2	19.6	181.7	509.9
1965	73.4	220.3	73.2	142.7	86.3	0.0		0.0		9.7	87.2	202.2	895.0
1966	187.2	42.9	153.6	23.6	29.3	6.3		17.2	27.8	5.9	93.9	304.8	892.5
1967	142.4	19.6	17.4	39.3	9.9	2.8		0.0	9.2	12.4	14.9	147.1	415.0
1968	269.7	100.0	72.8	0.8	6.5	8.0		2.2	34.2	20.3	67.3	134.4	716.2
1969	136.3	106.3	57.3	35.3	29.8	6.4	5.9		0.2	0.1	35.6	380.3	793.5
1970	71.7	184.1	68.7	26.0	22.5	10.1	0.0		1.5	92.3	61.8	88.5	627.2
1971	80.0	196.0	120.6	32.3	3.9	2.9	9.4	18.1	0.4	22.9	107.1	131.7	725.3
1972	25.2	62.1	35.7	41.4	38.1	0.4	0.1	2.6	9.2	85.6	34.0	4.9	339.3
1973	135.3	186.7	38.6	44.6	9.5	20.7		0.2	7.6	29.7	39.7	111.6	624.2
1974	12.7	148.4	127.3	23.1	29.1	0.5		1.5	11.8	59.5	118.3	167.8	700.0
1975	175.1	76.0	53.4	57.8	16.8	47.5			5.0	31.1	128.1	123.2	714.0
1976	72.2	82.7	63.8	94.1	33.9	9.5	24.0	4.8	28.2	242.9	74.8	141.8	872.7
1977	73.5	65.4	24.5	37.8	2.1	0.7		0.0	16.8	72.4	71.7	103.1	468.0
1978	247.7	179.2	123.6	75.0	40.7	3.5			51.5	66.1	80.2	28.0	895.5
1979	238.8	77.7	31.0	20.6	63.7	9.3		0.0		38.8	182.7	126.9	789.5
1980	206.2	41.5	77.8	51.7	33.0	13.6				8.7	150.4	198.0	780.9
1981	337.8	52.4	83.7	13.0	22.7				0.0	21.1	170.9	354.6	1056.2
1982	63.7	53.4	110.1	98.4	51.8		0.7			77.7	76.2	129.1	661.1
1983	47.4	106.8	9.7	40.3	2.4	12.8	9.8	0.4		2.6	158.8	158.4	549.4
1984	242.6	99.5	104.2	71.5	0.2	0.0	16.4	1.9	0.2		89.8	58.8	685.1
1985	145.7	34.6	104.0	6.1	42.5	1.5				29.8	142.0	20.6	526.8
1986	282.8	151.6	31.5	44.1	7.2	21.2			0.7	22.4	22.8	122.0	706.3
1987	203.8	55.8	114.9	46.0	5.2	1.5	1.5			0.0	1.5	167.3	746.7
1988	55.7	103.8	164.2	22.0	8.1	0.0				0.0	5.4	118.2	627.5
1989	4.6	11.0	128.8	1.8	30.0	38.6			29.2	44.4	84.7	146.3	519.4
1990	31.4	85.5	21.8	64.9	3.9	2.6		2.0	8.1	19.9	23.6	278.7	542.4
Mean	132.4	97.6	75.1	45.3	23.3	9.8	6.8	3.5	14.5	39.1	89.3	157.7	683.1
P50%	125.4	92.5	71.1	42.9	22.1	9.3	6.4	3.3	13.8	37.1	84.6	149.3	646.9
P80%	103.7	76.5	58.8	35.5	18.3	7.7	5.3	2.7	11.4	30.7	70.0	123.5	535.2
P90%	95.2	70.2	54.0	32.6	16.8	7.0	4.9	2.5	10.4	28.1	64.2	113.4	491.3

Table 1.11 Monthly Rainfall between 1960 and 1990, Station: Aydin, Station No.:232

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	111.2	105.4	81.3	84.5	51.0	20.1			4.9	22.8	101.6	246.2	829.0
1961	111.6	66.5	31.4	56.7	17.0	46.4	0.1			20.9	36.4	147.4	534.4
1962	80.7	142.3	55.1	65.7	2.9	1.9	0.2		15.4	43.8	68.9	214.2	689.1
1963	135.2	128.7	67.9	60.4	34.9	15.7	1.3			81.2	23.3	65.9	614.5
1964	11.0	88.7	38.9	2.6	13.4	24.4			69.3	0.4	52.6	216.8	518.1
1965	47.3	131.1	85.2	148.2	137.3	1.3				29.4	79.5	157.7	817.0
1966	204.3	65.2	109.0	58.1	16.5	2.1		0.3	33.3	4.3	87.7	190.7	771.5
1967	118.8	33.9	50.2	87.9	30.0	0.0	5.2		20.2	30.3	40.2	176.2	592.9
1968	172.4	50.7	67.5	10.2	7.0	7.4		1.1	24.9	64.4	79.7	133.6	618.9
1969	176.8	114.2	60.3	35.4	26.9	0.1	0.1		0.0	0.0	34.2	216.6	664.6
1970	96.7	202.5	77.2	20.1	13.9	0.8	2.4		5.0	78.4	60.7	58.3	616.0
1971	134.2	164.7	100.0	12.8	11.8	6.9	9.7	6.6		22.1	107.7	84.8	661.3
1972	28.7	61.4	31.6	40.5	36.0	15.5	17.4		12.8	80.2	27.4	8.2	359.7
1973	84.3	110.8	34.3	56.3	1.1	11.1	20.6		30.0	22.9	34.7	75.8	481.9
1974	25.2	167.0	105.1	39.2	29.2	0.9		12.8	10.6	29.7	67.5	132.6	619.8
1975	122.2	67.5	62.6	60.7	59.8	97.9		0.1	3.5	34.5	96.5	78.8	684.1
1976	53.2	54.2	12.7	99.9	32.3	26.8	31.0			132.2	68.6	73.7	584.6
1977	92.1	99.4	50.1	68.2	0.1	25.6	0.1		34.4	25.1	38.4	77.1	510.6
1978	185.8	207.0	74.6	119.4	5.6	0.0			50.8	99.4	27.0	116.5	886.1
1979	156.0	56.1	40.6	36.6	49.5	22.9	6.4			63.5	125.2	115.1	671.9
1980	114.8	18.3	94.5	28.3	36.1	57.8			1.9	38.2	90.4	216.8	697.1
1981	264.4	71.6	55.5	18.4	35.6	22.4		0.8	7.6	3.9	171.8	280.0	932.0
1982	68.3	47.4	114.9	73.1	33.7	23.6	2.1		11.8	125.0	47.3	114.0	661.2
1983	59.3	119.2	62.7	47.3	35.1	20.1	2.9	1.7	0.8	10.4	117.1	159.0	635.6
1984	174.1	140.1	141.2	98.6	4.4	0.2	1.0				132.9	45.7	738.2
1985	172.7	86.9	101.1	20.1	27.4					29.5	76.2	64.7	578.6
1986	209.4	182.3	18.2	26.3	20.8	58.2		18.3	4.5	21.9	29.7	153.3	742.9
1987	162.0	58.2	78.1	58.9	7.9	2.0				1.5	51.3	77.3	497.2
1988	35.6	103.5	167.0	18.2	11.7			3.7		15.3	116.1	133.3	604.4
1989	18.2	11.4	77.0	0.6	44.0	6.8	1.0			49.4	114.4	58.8	381.7
1990	6.0	44.8	19.1	98.0	23.2	2.3		3.0	15.2	7.8	14.5	213.6	447.5
Mean	110.7	96.8	69.8	53.3	27.6	18.0	6.3	4.8	17.0	39.6	71.5	132.3	633.6
P50%	106.3	92.9	67.0	51.1	26.5	17.3	6.1	4.6	16.3	38.0	68.7	127.0	608.3
P80%	89.5	78.3	56.5	43.1	22.3	14.5	5.1	3.9	13.7	32.0	57.8	107.0	512.3
P90%	82.7	72.3	52.1	39.8	20.6	13.4	4.7	3.6	12.7	29.6	63.4	98.8	473.1

Table 1.12 Monthly Rainfall between 1960 and 1990, Station: Denizli, Station No.:237

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	103.8	50.4	53.6	62.9	34.6	38.1	0.0	0.0	2.6	6.7	28.1	185.1	565.9
1961	83.5	103.8	78.7	29.1	21.8	6.7	10.4	28.2	11.4	48.2	8.3	125.8	555.9
1962	82.6	116.5	67.9	41.8	41.3	28.8	7.5	7.3	50.2	55.2	69.4	188.3	756.8
1963	136.8	62.6	49.9	71.8	122.6	31.1	9.4	2.5	2.3	52.2	26.1	16.3	583.6
1964	4.6	55.6	60.9	6.3	57.1	41.0	0.3		11.5		67.0	143.5	447.8
1965	63.3	202.9	58.3	111.7	77.1	3.4		0.0		17.7	75.5	141.0	750.9
1966	258.4	24.8	100.8	23.7	48.1	4.4	15.6	9.6	48.9	5.3	31.7	170.2	741.5
1967	60.3	37.9	27.6	66.5	40.7	7.4	12.7	0.1	23.4	28.2	30.3	106.6	441.7
1968	214.2	58.5	108.1	50.6	2.7	10.4		8.3	45.5	45.2	47.1	124.9	715.5
1969	88.9	74.9	80.2	77.4	53.2	13.8	9.7		0.5	13.0	49.8	148.8	610.2
1970	57.0	98.9	60.2	12.5	10.1	14.0	2.2	19.2	3.1	49.2	46.4	85.5	458.3
1971	57.6	99.8	86.6	44.7	20.7	62.0	9.3	33.4	3.2	6.3	81.7	86.3	591.6
1972	22.1	91.2	33.6	56.4	46.9	50.1	35.6	35.1	2.8	108.0	22.9		504.7
1973	29.0	158.5	25.1	36.7	16.2	8.1	57.6		1.8	59.9	23.3	55.1	471.3
1974	62.2	67.7	53.8	48.6	22.9	5.1		10.9	5.2	19.3	22.1	54.3	372.1
1975	56.6	47.3	71.9	98.7	53.6	18.3	0.4	0.4	9.9	21.9	107.8	90.3	577.1
1976	84.4	51.7	47.4	83.9	38.8	7.7	38.4	6.3		45.7	50.1	156.1	610.5
1977	28.6	31.8	34.8	78.5	2.3	25.9	19.1	0.3	32.0	29.7	4.7	50.2	337.9
1978	151.3	211.3	104.0	40.8	12.9	7.4	0.1		29.5	97.9	42.7	74.7	772.6
1979	203.9	30.0	40.1	20.1	126.3	18.9				52.9	113.6	65.3	671.1
1980	146.9	34.9	95.9	59.4	50.0	6.5			35.0	30.2	75.4	102.6	636.8
1981	206.3	77.1	50.4	20.9	41.0	34.9		1.2	0.2	1.6	75.5	156.1	665.2
1982	67.7	43.6	31.4	79.4	25.0	30.0	19.0	2.0	2.2	53.3	16.2	65.9	435.7
1983	89.8	87.6	55.8	63.4	16.3	45.5	54.3	11.1	7.9	7.6	111.7	126.3	677.3
1984	121.5	76.0	102.3	103.9	3.7	0.3	28.4	2.0	0.3		63.9	17.7	520.0
1985	174.8	100.1	64.9	22.7	31.5	42.9	1.0	7.8	1.0	39.4	34.8	39.0	559.9
1986	81.7	97.8	5.9	13.1	18.9	32.0	3.0	20.4	82.9	19.3	4.6	104.0	483.6
1987	94.0	42.7	94.5	51.0	47.4	49.4	11.4		0.1	6.5	62.9	68.1	528.0
1988	13.9	96.4	114.9	48.3	44.4	8.0	17.6	19.2	3.0	51.9	107.0	80.8	605.4
1989	8.0	11.3	40.6	2.5	35.7	4.6	8.4	0.7	2.3	82.6	114.0	36.4	347.1
1990	22.7	48.0	39.1	35.3	17.9	7.5		3.0	53.7	23.6	41.7	126.6	419.1
Mean	92.8	77.1	62.6	50.4	38.1	21.4	15.5	9.5	16.9	37.2	53.4	99.7	561.8
P50%	89.2	74.1	60.1	48.4	36.6	20.6	14.9	9.2	16.2	35.7	51.3	95.8	539.8
P80%	74.5	61.9	50.2	40.5	30.6	17.2	12.4	7.7	13.5	29.9	42.9	80.1	451.1
P90%	68.4	56.9	48.1	37.2	28.1	15.8	11.4	7.0	12.4	27.4	39.4	73.5	414.2

Table 1.13 Monthly Rainfall between 1960 and 1990, Station: Manisa, Station No.:186

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	168.5	57.6	54.3	55.5	29.8	15.1	0.0		4.3	5.2	126.1	325.7	842.1
1961	108.6	99.9	30.6	140.0	25.8	47.1	0.0	0.1	0.5	49.0	68.8	138.2	708.6
1962	79.4	123.7	192.1	86.7	4.6	3.9	25.4		11.5	45.2	162.9	309.4	1044.8
1963	197.4	150.5	41.7	48.3	94.3	1.6	19.6			75.8	26.9	47.3	703.4
1964	34.1	86.7	137.0	0.0	14.2	40.7			55.1	0.3	57.2	186.8	612.1
1965	80.4	347.6	83.6	179.5	80.8	1.4				30.9	131.8	229.5	1165.5
1966	242.0	64.0	171.2	35.0	38.3	38.9		22.5	27.3	27.0	73.2	305.2	1044.6
1967	136.7	33.8	32.7	65.2	63.5	3.1	6.7	0.3	41.2	40.2	9.9	178.6	611.9
1968	278.2	110.9	97.3	1.5	50.0	25.2		0.0	44.0	61.1	60.3	121.4	849.9
1969	136.9	130.7	51.1	44.3	17.2	7.9	16.6		0.6	1.6	26.9	323.5	757.3
1970	94.9	200.4	131.6	45.0	24.0	39.7	20.7		3.3	97.8	53.8	111.5	822.7
1971	72.0	152.6	158.8	23.3	7.4	24.3	4.0	55.3	6.4	42.6	131.4	135.5	813.6
1972	28.5	75.3	43.5	52.2	43.2	6.1	3.7	1.4	20.7	140.1	41.1	3.7	459.5
1973	59.7	213.7	62.8	84.0	26.2	27.8	16.0		9.0	22.1	76.9	148.6	746.8
1974	18.6	178.4	131.2	47.6	24.6	25.2	0.9	11.0	36.6	39.3	173.2	113.2	799.8
1975	161.4	88.8	69.4	65.9	51.3	38.8		1.9	15.8	41.5	107.7	120.3	762.8
1976	72.0	67.2	44.2	93.2	51.8	20.6	21.1	17.1	0.1	157.7	93.0	154.2	792.2
1977	77.9	67.4	56.0	68.3	2.9	10.6		0.0	51.5	101.6	94.1	142.1	672.4
1978	257.1	151.0	164.4	80.4	34.5	12.1			87.8	96.8	59.1	51.9	995.1
1979	230.5	87.5	36.1	26.7	47.8	9.0	2.1	17.0		14.3	126.2	145.8	743.0
1980	202.0	28.0	115.2	52.9	65.4	39.9		0.1	1.0	7.5	137.1	215.3	864.4
1981	298.2	62.7	84.9	20.1	49.3	0.1			1.7	8.4	134.3	393.8	1053.5
1982	53.4	76.4	105.2	123.7	52.3		6.7			75.5	58.4	132.9	684.5
1983	69.0	128.9	12.9	60.7	32.8	11.4	23.6	46.3	1.0	15.4	182.6	100.3	684.9
1984	205.5	93.5	117.3	102.5	1.2	1.0	22.0		0.1		51.2	47.5	648.9
1985	162.3	48.2	79.7	18.1	40.5	5.6		0.3		48.6	143.1	36.8	583.2
1986	215.5	157.2	34.7	50.8	5.0	50.8			5.4	37.6	15.1	219.8	791.9
1987	262.5	55.4	61.0	74.4	13.5	6.0		0.1		13.3	152.0	115.8	754.0
1988	27.6	123.3	163.9	24.6	10.9	0.6			2.7	15.7	116.6	110.4	596.3
1989	0.8	12.1	108.3	9.1	45.7	8.8			7.4	96.1	136.3	180.9	605.5
1990	6.3	59.0	19.9	55.0	15.0	12.6		10.7	19.9	21.1	11.6	245.0	476.1
Mean	130.3	107.5	86.9	59.2	34.3	17.9	11.8	11.2	18.2	47.6	91.6	164.2	764.2
P50%	127.0	104.8	84.7	57.7	33.5	17.4	11.5	11.0	17.7	46.5	89.3	160.1	745.3
P80%	105.9	87.4	70.6	48.1	27.9	14.5	9.6	9.1	14.8	38.7	74.4	133.5	621.1
P90%	96.4	79.5	64.3	43.8	25.4	13.2	8.7	8.3	13.5	35.3	67.8	121.5	565.5

Table 1.14 Monthly Rainfall between 1960 and 1990, Station: Mugla, Station No.:292

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	300.0	59.0	78.0	91.2	28.9	2.6	0.1		0.9	1.8	179.7	557.2	1299.4
1961	245.5	182.7	45.7	48.0	26.1	34.5	27.5			90.9	19.0	316.7	1036.6
1962	248.7	358.8	133.9	51.3	16.1	5.4		1.2	115.9	106.5	155.1	543.8	1736.7
1963	246.9	186.7	108.8	80.8	114.7	3.8	20.9		3.8	93.1	75.4	121.7	1056.6
1964	26.6	300.3	104.6	9.6	32.6	24.1			82.1	15.3	88.1	359.3	1042.6
1965	265.4	297.8	191.5	161.3	51.8	6.2				55.4	117.0	441.2	1587.6
1966	460.8	94.2	154.5	68.4	11.2	13.8	9.0		14.1	28.2	103.0	550.2	1507.4
1967	209.0	61.1	59.6	143.1	59.9	4.6	9.7	7.3	37.7	70.7	85.2	373.1	1120.9
1968	429.3	105.9	139.9	25.7	12.0	1.8		4.7	42.5	138.0	123.4	318.7	1341.9
1969	384.7	211.6	276.8	110.8	65.4				0.1	31.3	94.9	629.4	1805.0
1970	135.3	289.4	109.3	14.6	8.2	14.2	23.9	2.1	4.3	131.5	64.4	248.9	1046.1
1971	201.7	292.2	226.2	12.8	47.6	19.1	11.1	28.2	7.1	27.0	245.6	145.5	1264.1
1972	57.1	110.5	68.4	64.3	52.2	38.7	13.1	3.8	36.4	209.0	55.5	11.1	720.1
1973	148.6	351.2	33.3	52.0	25.4	18.1	0.8		8.0	62.7	42.2	168.9	911.2
1974	55.8	279.6	157.0	77.8	18.9	20.5			20.9	59.2	118.9	385.9	1227.6
1975	332.4	125.6	93.0	96.0	160.8	90.1		14.2	0.8	30.1	273.3	152.4	1368.7
1976	291.0	89.3	23.8	142.6	31.3	23.6	7.2			108.1	123.2	231.2	1071.3
1977	156.5	95.4	41.7	53.1	7.2	36.8		0.5	5.9	40.5	150.9	158.9	747.4
1978	310.8	324.5	169.0	75.4	7.6	6.3			78.0	108.8	64.7	154.0	1299.1
1979	407.8	219.4	71.7	47.4	138.1	80.6	11.5	0.1		109.4	319.1	279.0	1684.1
1980	267.5	58.3	163.1	85.9	30.2	11.4	0.0	0.2	0.8	47.8	182.8	311.4	1159.4
1981	645.3	185.9	76.9	9.1	61.8	8.1		0.1	1.0	3.0	220.8	548.6	1760.6
1982	125.9	74.5	195.2	89.8	34.2	95.3	4.4	0.0	10.0	134.2	95.8	295.8	1155.1
1983	85.1	268.7	88.4	70.8	53.8	24.3	11.2	0.3	2.3	28.2	155.2	311.5	1095.8
1984	360.8	242.4	201.5	104.2	6.3		0.0		1.4		224.3	96.5	1237.4
1985	393.9	149.5	70.9	13.9	92.6	29.0	2.4	11.2		124.2	120.3	78.0	1085.9
1986	381.8	256.9	35.8	17.8	94.3	20.9		37.0	82.0	57.1	45.0	162.1	1190.7
1987	260.8	110.2	178.5	67.0	11.3	28.4	7.2			17.6	167.5	158.0	1006.5
1988	154.2	242.5	255.8	53.8	9.6	1.3	17.0	10.3	0.9	20.8	232.3	373.8	1372.3
1989	17.3	51.3	134.8	2.7	26.6	9.5	4.9	1.3	1.2	98.4	263.3	197.8	809.1
1990	10.4	144.0	32.0	61.5	11.5	10.8	0.3	68.4	5.4	37.1	33.1	307.9	722.4
Mean	245.7	187.7	119.9	64.6	43.5	23.6	9.1	11.8	22.5	69.5	136.7	290.0	1208.7
P50%	236.5	180.6	115.4	62.2	41.9	22.7	8.8	11.3	21.7	66.9	131.6	279.1	1163.3
P80%	193.0	147.4	94.2	50.7	34.2	18.5	7.2	9.3	17.7	54.6	107.4	227.7	949.2
P90%	174.4	133.2	85.1	45.9	30.9	16.7	6.5	8.4	16.0	49.4	97.1	205.8	858.1

Table 1.15 Monthly Rainfall between 1960 and 1990, Station: Balikesir, Station No.:152

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	122.3	93.1	45.4	37.2	83.6	74.4	4.3	0.0	26.1	23.8	63.1	144.3	717.6
1961	62.4	63.6	14.9	62.7	28.5	44.8	3.1	4.6	8.2	23.4	54.1	59.5	429.8
1962	62.3	94.9	102.8	41.9	21.5	13.2	3.9		6.9	59.0	111.6	293.7	811.7
1963	186.8	104.0	46.7	55.9	29.8	30.9	0.9		0.3	65.6	49.1	176.9	746.9
1964	16.0	73.0	115.5	8.0	44.0	1.9	0.0	9.9	64.8	0.0	72.1	152.7	557.9
1965	42.7	199.5	32.8	148.4	48.1	2.5	0.0	13.2	0.0	16.3	110.7	89.4	703.6
1966	136.9	13.2	139.1	80.1	37.5	46.8		16.6	48.5	16.5	62.0	169.9	767.1
1967	149.0	30.3	50.2	76.1	16.3	33.5	0.0	0.0	36.7	58.6	16.2	97.0	563.9
1968	274.5	62.9	48.9	19.5	69.8	23.9		48.6	74.1	9.2	38.9	61.0	721.3
1969	119.6	69.9	55.8	46.1	9.7	63.5	53.2	3.9	0.9	1.8	4.7	149.8	578.9
1970	72.3	155.9	58.9	55.8	44.3	10.2	5.5	3.6	19.2	34.8	72.4	65.1	598.0
1971	75.6	70.3	93.0	20.0	30.0	13.0	10.6	3.3	15.5	20.4	94.0	98.8	544.5
1972	34.5	27.0	21.8	76.4	66.3	28.5	10.7	51.6	51.8	88.2	35.8	0.2	492.8
1973	27.5	110.3	43.7	75.6	29.2	15.9	12.4	12.2	12.4	65.2	114.7	92.8	611.9
1974	25.8	64.2	72.7	51.8	85.6	4.8	8.4	5.3	17.5	3.9	98.8	81.4	520.2
1975	119.1	36.8	73.3	59.6	81.8	24.6	0.1	3.0	11.2	31.1	81.5	113.0	635.1
1976	48.2	57.6	31.3	60.0	57.0	2.0	11.3	35.8	8.0	97.7	24.8	101.9	535.6
1977	61.7	38.8	45.0	39.2	17.5	1.7	6.8	0.0	52.3	38.4	110.8	77.1	489.3
1978	110.0	94.9	68.4	65.0	75.9	2.5		0.0	119.7	60.9	55.1	15.1	667.5
1979	98.1	57.1	25.5	54.6	40.8	20.3	4.0	8.6	8.5	36.7	110.1	75.0	539.3
1980	148.1	26.9	88.6	62.6	58.6	91.7	0.1	0.0	7.0	7.6	118.1	139.8	749.1
1981	145.8	36.1	42.3	4.7	74.8	0.0	16.5	3.6	7.7	46.7	102.5	300.0	780.7
1982	49.0	30.1	26.4	76.6	70.2	2.5	25.2	0.0	0.0	38.5	3.3	103.7	425.5
1983	48.2	49.9	12.9	44.7	29.9	10.7	51.9	0.1	15.6	38.2	108.4	58.0	468.5
1984	75.6	69.6	63.3	103.0	9.8	4.5	34.4	5.0	10.3	1.9	71.2	12.5	461.1
1985	124.9	37.5	52.0	8.2	48.0	30.7	0.3	3.7	0.0	69.3	107.2	40.0	621.8
1986	118.6	105.2	16.6	34.7	10.5	19.2	0.0	0.2	8.1	54.8	24.5	86.0	478.4
1987	164.6	43.7	55.0	24.4	39.1	16.8	9.5	1.0	0.0	31.0	113.9	135.8	634.8
1988	17.6	45.7	93.7	40.9	19.1	23.4	1.4		5.0	29.4	167.2	111.8	555.2
1989	12.9	3.6	45.0	13.0	31.5	34.7	2.1		10.0	60.7	64.8	120.7	399.0
1990	4.8	37.4	31.1	66.6	20.6	22.5	0.0		20.3	34.1	165.9	154.1	557.4
Mean	88.9	64.6	55.2	52.0	42.6	23.1	9.9	9.0	21.5	37.5	78.3	108.9	589.2
P50%	87.3	63.5	54.3	51.1	41.8	22.7	9.7	8.8	21.1	36.9	76.9	107.0	578.9
P80%	74.1	53.9	46.0	43.4	35.5	19.2	8.2	7.5	17.9	31.3	65.3	90.8	491.1
P90%	67.9	49.4	42.2	39.8	32.5	17.6	7.5	6.9	16.4	28.7	59.8	83.3	450.3

Table 1.16 Monthly Rainfall between 1960 and 1990, Station: Canakkale, Station No.:112

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	92.7	66.9	51.9	65.5	19.9	63.3	5.3	0.2	6.2	10.7	33.2	183.2	599.0
1961	119.8	42.1	9.2	41.9	68.2	28.0		0.2		10.4	138.6	96.5	554.9
1962	40.2	86.8	110.6	43.9	5.5	18.2	87.3		11.1	183.7	102.8	287.6	977.7
1963	137.3	93.1	63.3	38.8	33.1	6.6	0.1		3.8	66.5	33.3	221.1	697.0
1964	47.0	63.2	43.6	14.2	63.2	5.0	1.3	11.2	140.8	50.3	57.9	219.3	717.0
1965	30.5	191.6	21.0	60.7	44.8	1.1	0.4	0.0		49.0	95.1	177.4	671.6
1966	221.0	21.2	90.8	46.2	19.3	19.2		9.8	36.7	13.6	125.2	153.2	756.2
1967	124.6	43.3	34.0	42.2	8.0	25.3	3.1	9.0	9.7	58.5	27.8	138.3	523.8
1968	175.0	24.3	107.0	26.3	9.7	43.4		3.9	194.6	29.2	52.6	129.9	795.9
1969	102.0	131.7	49.1	84.9	4.2	1.4	5.5		0.6		68.8	169.7	617.9
1970	56.3	150.4	65.2	44.1	39.5	15.4	2.0	0.2	7.9	28.5	79.1	62.2	540.8
1971	90.7	91.0	145.8	19.8	66.3	28.8	12.8	2.3	19.2	13.9	69.7	55.1	615.4
1972	26.1	48.7	23.3	58.5	41.5	5.0	65.7	45.9	40.0	106.4	44.5	12.2	517.8
1973	50.6	117.5	53.0	52.3	5.0	0.4	2.4	1.7	32.1	30.2	17.3	67.7	430.2
1974	26.5	71.0	120.2	21.8	53.1	19.7	17.5		13.4	30.6	222.2	89.4	685.4
1975	97.1	65.8	78.1	58.6	53.8	65.4	5.8	7.9	3.2	43.8	191.0	129.3	799.8
1976	61.3	27.4	26.4	22.6	14.8	45.4	55.3	50.1	13.2	75.7	98.1	81.4	571.7
1977	67.2	41.8	42.9	19.7	10.4	9.5	30.7	0.4	39.4	18.4	66.2	68.2	414.8
1978	153.9	82.5	94.1	77.8	14.7	6.2		0.7	63.9	64.7	26.7	47.5	632.7
1979	169.8	33.5	24.7	58.0	34.8	1.8	2.6		19.8	45.3	118.9	53.9	563.1
1980	107.8	49.5	98.8	91.0	91.6	75.4	6.0	6.0	7.1	16.4	205.3	147.5	902.4
1981	153.0	76.9	36.7	9.6	93.3	0.0	53.8		22.2	71.6	184.8	135.5	817.2
1982	88.4	54.6	44.1	117.1	46.9	0.9	12.0		0.5	55.3	15.5	95.2	530.5
1983	52.5	66.3	26.8	36.9	33.4	40.1	30.7		11.2	34.0	61.9	90.1	483.9
1984	140.8	98.7	115.9	77.6	10.2	20.8	1.2	0.6	0.1		74.0	38.6	578.5
1985	137.2	34.7	67.5	10.3	11.5	10.8	2.4	0.1		50.4	114.3	31.6	470.8
1986	203.6	95.4	24.4	101.2	23.5	31.8			2.3	34.2	27.3	124.1	667.8
1987	150.1	27.6	65.7	39.5	11.7	10.2	2.7	2.1	1.1	18.0	73.6	171.1	573.4
1988	87.3	50.9	74.7	55.9	1.4	37.4	4.4		30.1	21.0	202.0	139.1	704.2
1989	0.2	2.7	58.3	9.1	28.3	19.3		24.9	32.8	84.6	76.2	94.1	430.5
1990	4.8	11.8	24.5	37.1	12.2	49.8	7.0	1.4	19.3	33.4	14.4	198.8	414.5
Mean	97.3	66.5	60.7	47.8	31.4	22.8	16.7	8.5	27.9	46.5	87.0	119.6	621.2
P50%	95.2	65.2	59.4	46.8	30.8	22.3	16.4	8.3	27.4	45.5	85.2	117.1	608.2
P80%	78.5	53.7	49.0	36.6	25.4	18.4	13.5	6.9	22.6	37.5	70.3	96.6	501.6
P90%	71.0	48.6	44.3	34.9	22.9	16.6	12.2	6.2	20.4	33.9	63.5	87.3	453.3

Table 1.17 Monthly Rainfall between 1960 and 1990, Station: Burdur, Station No.:238

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	66.8	41.4	85.7	39.7	52.9	83.7	3.5		2.7	12.8	37.6	92.1	518.9
1961	96.9	74.5	16.4	41.0	17.6	21.2	6.4	0.1	0.4	31.2	6.3	54.0	366.0
1962	22.8	53.8	76.8	32.1	26.8	5.5	0.2	4.6	23.4	32.2	22.7	117.2	418.1
1963	53.3	70.3	32.5	63.3	101.8	17.7	8.5		5.5	20.8	18.3	20.7	412.7
1964	0.0	63.6	50.9	4.3	57.2	22.5	2.1	4.0	17.1	10.0	46.5	115.8	394.0
1965	49.5	83.9	55.5	49.0	67.4	27.5	5.6	1.2		25.2	39.9	69.7	474.4
1966	169.4	14.8	46.0	36.5	29.4	20.7	3.9	0.6	20.5	2.6	32.6	126.3	503.3
1967	29.0	17.7	13.5	68.2	32.3	22.5	5.4	1.6	21.3	37.7	33.1	71.5	353.8
1968	99.5	46.4	59.1	17.7	19.1	15.5		16.9	28.7	60.1	76.3	76.5	515.8
1969	156.0	52.6	65.7	55.6	43.2	2.9	16.9	8.4	6.1	40.2	46.1	121.5	615.2
1970	11.7	32.1	20.2	58.1	22.3	16.6	6.0	0.0	11.1	41.9	27.6	39.0	286.6
1971	46.0	54.9	66.9	48.9	43.1	27.7	34.0	14.8	5.2	12.8	31.0	36.9	422.2
1972	19.0	51.5	17.6	42.3	46.0	34.5	24.4	19.0	4.3	43.4	16.9	1.2	320.1
1973	19.4	73.3	22.6	32.2	23.7	19.4	2.5	0.0	0.1	42.6	9.0	24.7	269.5
1974	49.2	37.3	40.4	35.4	41.5	6.5	3.7	18.4	14.4	74.4	11.7	41.2	374.1
1975	55.0	48.2	20.1	24.8	93.4	34.3	13.7	5.5	0.6	21.1	54.3	74.4	445.4
1976	70.5	40.4	27.3	79.2	73.0	32.6	1.1	0.2	0.1	51.9	31.2	50.4	457.9
1977	17.9	24.1	28.2	56.3	5.8	6.4	2.2	0.0	54.8	27.7	3.6	60.2	287.2
1978	77.6	80.1	52.0	47.3	1.5	5.8	3.6		59.3	62.6	0.0	70.7	460.5
1979	126.6	13.5	28.5	20.9	86.7	68.3	2.9	14.0	2.8	67.1	65.6	74.2	571.1
1980	79.4	31.2	88.5	33.4	25.7	37.2	0.0	0.0	28.2	45.3	38.0	15.7	422.6
1981	132.4	58.9	23.2	14.6	55.7	15.5	1.0	0.0	0.1	7.5	19.6	106.0	434.5
1982	38.0	45.9	42.2	58.0	17.2	45.9	15.8	15.7	10.7	51.7	16.1	21.6	378.8
1983	52.2	56.9	64.4	64.4	11.3	23.0	13.2	7.9	12.3	23.7	70.8	45.6	445.7
1984	58.8	17.4	95.8	103.7	25.0	1.8	10.6		12.0	14.5	54.2	11.6	405.4
1985	109.0	80.2	35.9	19.8	21.4	31.4		0.2	7.4	36.2	77.5	58.2	477.2
1986	53.9	51.6	10.3	10.5	33.6	34.6	6.3	4.8	38.5	11.1	7.2	53.7	316.1
1987	47.2	69.2	48.2	60.0	46.5	48.6	31.0		10.5	5.9	55.5	28.7	451.3
1988	8.6	45.2	73.7	38.5	35.0	25.7	9.0	2.1	12.8	59.9	87.5	17.1	415.1
1989	12.2	5.9	45.4	1.5	33.6	7.9	6.3	4.0	1.0	62.6	61.1	46.5	288.0
1990	8.2	27.2	7.9	40.6	31.7	49.5	7.5	1.5	16.2	15.1	15.6	82.2	303.2
Mean	59.2	47.2	43.9	41.9	39.4	26.2	8.5	5.8	14.4	34.6	35.9	58.9	413.1
P50%	57.4	45.8	42.6	40.6	38.2	25.4	8.3	5.7	13.9	33.5	34.8	57.1	400.6
P80%	48.4	38.6	35.9	34.2	32.2	21.4	7.0	4.8	11.7	28.3	29.4	48.1	337.6
P90%	44.5	35.5	33.0	31.5	29.6	19.7	6.4	4.4	10.8	26.0	27.0	44.2	310.4

Table 1.18 Monthly Rainfall between 1960 and 1990, Station: Isparta, Station No.:240

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	79.5	47.9	88.5	63.9	84.9	81.7	29.7		14.5	3.8	63.3	176.9	734.6
1961	78.2	132.4	47.9	38.2	15.1	26.9	12.0	0.0	3.4	26.7	9.3	61.2	451.3
1962	56.2	121.7	96.9	68.9	21.9	8.2	3.3	7.6	31.5	69.6	19.8	207.0	712.6
1963	62.8	151.8	47.0	78.9	136.2	19.1	14.4		13.0	24.4	25.1	28.4	601.1
1964	1.7	100.0	79.9	3.4	59.1	112.3	9.9	3.0	26.6	6.9	66.8	117.1	586.7
1965	85.0	137.3	86.8	95.5	95.4	9.2			0.0	11.1	56.4	144.0	720.7
1966	200.1	22.6	84.2	65.0	33.6	14.3	5.3	0.9	21.6		30.2	360.1	837.9
1967	53.4	22.2	25.2	74.9	48.9	5.6	5.4	0.1	28.4	49.2	44.2	69.6	427.1
1968	172.8	44.1	123.2	25.7	20.1	44.5	3.7	22.1	20.2	41.2	80.8	142.5	740.9
1969	259.0	82.3	64.4	85.8	74.8	8.6	64.0	1.1	19.3	48.3	56.3	205.0	968.9
1970	76.4	52.4	31.3	34.7	32.7	10.9	1.3		3.8	14.9	38.1	35.9	332.4
1971	45.3	64.2	62.3	51.3	56.0	22.7	50.5	11.9	11.9	16.8	62.6	129.8	585.3
1972	16.6	44.1	20.5	36.5	54.9	48.0	6.5	1.7	7.2	83.4	20.7	2.0	342.1
1973	60.6	79.7	24.2	30.4	33.3	31.1	7.6	3.5	1.2	36.5	9.5	41.7	359.3
1974	46.0	124.8	41.1	26.1	75.0	2.7	6.4	26.9	13.7	14.5	17.2	42.3	436.7
1975	127.2	50.7	28.6	54.5	107.5	58.2	0.3	24.1	6.8	39.4	55.3	87.7	640.3
1976	83.1	33.1	32.0	75.4	96.3	45.1	11.8	0.0	11.3	84.3	30.9	51.8	555.1
1977	19.8	42.4	23.2	73.4	4.0	10.3	3.5		48.4	28.8	9.9	92.2	355.9
1978	102.5	130.0	87.4	47.2	1.8	6.4	6.2	0.1	41.2	124.2	10.9	101.6	659.5
1979	148.5	31.6	26.2	46.5	93.2	81.4	0.9	0.0	2.7	89.9	202.5	81.3	804.7
1980	84.7	49.5	67.1	43.0	44.3	43.3			6.8	39.3	35.7	57.1	470.8
1981	182.3	149.2	20.5	21.5	30.6	45.0	6.9		4.4	7.7	40.4	128.3	636.8
1982	27.8	69.8	35.7	114.9	42.2	61.9	12.6	7.0	2.2	34.9	44.5	52.1	505.6
1983	73.0	51.2	45.9	63.7	16.2	29.4	16.2	58.6	13.8	13.6	90.4	56.6	528.6
1984	52.0	62.8	102.5	153.6	10.1	2.3	3.6	5.6	5.5		45.3	20.4	463.7
1985	97.3	92.9	45.2	42.8	14.5	28.3	0.0	4.0	1.9	30.9	55.7	55.9	469.4
1986	69.7	84.9	9.7	12.7	41.3	11.9	0.8	20.0	19.1	20.9	17.7	72.7	381.4
1987	50.6	79.4	78.6	58.9	47.0	82.9	9.2	26.9	0.8	5.3	68.3	51.3	559.2
1988	8.3	80.1	120.6	72.2	27.1	12.3	52.8	20.6	11.8	50.8	82.2	72.9	611.7
1989	12.2	17.1	60.2	12.9	33.5	25.2	3.1	0.1	0.4	72.3	48.6	34.2	319.8
1990	6.6	24.5	18.6	38.4	70.5	23.3	11.4	1.2	6.0	6.5	12.3	101.4	320.7
Mean	78.7	73.4	55.7	55.2	49.1	32.7	12.4	10.3	12.9	37.8	46.8	92.9	552.3
P50%	75.1	70.1	53.1	52.6	46.8	31.2	11.8	9.8	12.3	36.1	44.7	88.7	526.9
P80%	58.1	54.2	41.1	40.7	36.2	24.1	9.1	7.6	9.5	27.9	34.5	68.6	407.5
P90%	50.9	47.5	36.0	35.7	31.7	21.1	8.0	6.7	8.3	24.4	30.3	60.1	357.1

Table 1.19 Monthly Rainfall between 1960 and 1990, Station: Adana, Station No.:351

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	50.9	26.2	175.4	35.8	64.5	11.0	2.9	0.0	2.6	6.0	55.6	51.3	482.2
1961	36.9	236.0	53.5	29.8	32.8	0.0			21.1	56.7	16.9	364.2	847.9
1962	77.9	144.6	39.2	65.5	33.5	0.0		0.0		30.0	2.5	273.6	666.8
1963	168.5	160.3	66.7	89.6	211.4	30.7	10.1		5.8	11.4	23.7	31.1	809.3
1964	10.5	136.8	93.9	45.8	40.5	71.2		0.0	1.8		91.4	38.7	530.6
1965	62.7	149.0	111.3	69.9	21.8	27.9	0.0	5.3	0.0	18.5	20.1	180.1	666.6
1966	299.1	22.8	79.2	16.9	10.3	0.5	6.5	0.0	13.3	10.5	68.3	203.9	731.3
1967	91.7	47.9	166.1	192.8	73.7	23.4	1.5		1.7	33.5	137.3	109.6	879.2
1968	229.8	66.3	50.6	7.4	62.9	36.1	10.4	0.2	55.8	56.6	342.7	345.8	1264.6
1969	202.2	58.6	126.2	24.8	30.3	33.8			15.1	66.8	31.9	110.5	700.2
1970	61.6	97.1	72.9	7.1	13.6	1.8	6.6	0.0	6.6	39.0	94.2	64.8	465.3
1971	17.3	91.4	36.5	127.3	6.8	15.6	0.6	5.4	11.8	1.6	60.1	64.0	438.4
1972	19.8	87.3	29.7	36.2	36.2	26.5	8.2		9.3	37.7	28.5		319.4
1973	25.8	23.3	38.2	86.3	28.4	34.1	10.2	18.2	10.2	18.2	65.0	78.3	426.0
1974	95.2	32.5	58.0	38.7	3.6			42.6	54.6	28.5	36.1	334.4	724.2
1975	91.1	100.0	52.1	154.4	25.5	5.3	0.0		2.3	1.6	77.4	81.3	591.0
1976	160.0	58.0	52.2	127.6	151.2	0.9	51.3	3.0	27.3	95.3	154.6	160.5	1041.9
1977	154.8	60.9	52.8	80.5	34.9	1.8	13.0		10.0	48.4	3.8	144.9	605.8
1978	175.7	161.3	69.6	50.2	5.1	17.7			17.1	99.1	16.0	143.4	755.2
1979	72.2	30.6	21.1	34.4	29.9	46.1	0.0		5.9	32.0	136.7	137.3	546.2
1980	182.2	109.3	124.7	95.2	63.4	1.1			1.8	24.5	97.9	71.1	771.2
1981	394.5	153.2	46.1	63.8	48.7	125.3			4.9	63.8	59.7	216.2	1176.2
1982	61.0	26.1	49.2	35.3	13.6	43.1	27.8	5.7	15.6	79.3	16.9	69.1	442.7
1983	89.1	145.3	74.0	89.0	104.3	30.6	0.0	0.2	38.0	8.2	123.7	109.6	812.0
1984	145.8	85.1	61.5	94.7	1.7	0.2	0.1	18.6		7.2	73.8	55.3	534.0
1985	178.1	76.4	53.8	30.4	63.7	7.9			10.5	116.5	67.8	40.1	645.2
1986	107.2	67.8	4.0	8.4	50.3	13.8			3.6	60.3	57.9	83.7	457.0
1987	155.1	40.8	200.0	15.8	38.2	3.9	55.8	48.4		76.5	70.7	201.3	906.5
1988	48.6	130.6	164.3	27.0	62.9	60.5			0.5	107.1	114.8	90.9	805.2
1989	65.8	2.1	67.4		0.1	18.2			29.1	106.8	91.7	131.3	502.5
1990	17.5	134.1	58.7	30.0	40.3	63.6	0.0	0.2	16.3	35.4	16.1	62.5	474.7
Mean	114.4	89.1	75.1	60.4	45.3	25.1	10.8	9.2	14.2	45.9	72.7	135.0	678.0
P50%	109.3	85.1	71.8	57.7	43.3	24.0	10.3	8.8	13.6	43.9	69.5	129.0	648.0
P80%	83.1	64.7	54.6	43.8	32.9	18.2	7.8	6.7	10.3	33.3	52.8	98.0	492.4
P90%	71.8	55.9	47.1	37.9	28.4	15.7	6.8	5.8	8.9	28.8	45.6	84.7	423.4

Table 1.20 Monthly Rainfall between 1960 and 1990, Station: Mersin, Station No.:340

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	115.5	19.8	94.4	7.7	14.1	2.8	7.9		2.0	15.5	64.5	58.1	402.3
1961	27.3	300.8	45.0	7.6	39.1	2.0		0.0	6.8	60.7	45.9	333.9	869.1
1962	93.8	136.3	18.0	26.9	32.5				0.0	51.2	1.1	247.4	607.2
1963	159.2	119.7	28.7	50.5	9.7	4.9	61.8		19.8	9.8	23.1	43.1	530.3
1964	11.7	128.9	54.1	13.6	29.8	10.7		1.8	12.1		109.3	81.9	453.9
1965	172.1	184.2	39.9	49.0	19.3	1.0		0.2	0.3	16.0	9.0	125.1	616.1
1966	238.9	46.6	54.8	13.5	1.7	4.2	4.0	0.1	9.6	0.4	108.4	183.6	665.8
1967	98.3	64.8	161.5	77.7	28.1	0.3			0.9	83.4	115.3	97.6	727.9
1968	176.4	53.0	42.4	3.2	2.8	1.1	0.0	18.5	19.1	15.5	285.3	421.7	1039.0
1969	322.2	18.2	79.6	23.1	38.3	2.7		2.1	10.6	33.6	39.1	132.5	702.0
1970	70.9	95.8	86.5	1.0	27.4		50.2		1.1	45.8	104.4	26.8	509.9
1971	33.6	63.6	21.9	110.4	0.7	2.3	0.1	15.9		49.9	57.2	83.5	439.1
1972	32.6	91.5	38.1	54.0	34.4	46.0	18.8	0.0	2.1	45.0	21.7		384.2
1973	28.3	28.0	22.0	12.5	0.9	11.7	39.5			8.9	57.2	69.8	278.8
1974	32.7	45.4	127.8	13.3	1.8			9.3	8.4	21.5	22.8	201.3	484.3
1975	125.9	88.6	30.3	107.5	22.1	3.0	0.0			0.0	91.7	98.6	567.7
1976	121.1	63.2	25.2	57.3	41.8	0.8	12.1	0.2	33.9	98.6	155.7	137.6	747.5
1977	83.2	34.4	58.5	87.8	0.3	0.3	1.0	0.0	0.9	15.7	6.6	169.7	458.4
1978	196.3	81.0	57.4	53.5		5.1				85.3	10.0	160.9	649.5
1979	67.4	52.5	49.0	21.7	11.3	13.8		0.0		78.1	166.5	132.1	592.4
1980	162.8	119.2	116.2	41.5	6.5				0.4	26.9	62.0	72.3	607.8
1981	373.6	153.6	39.0	10.0	32.2	28.5	0.0	14.2	3.2	16.5	42.5	199.0	912.3
1982	42.5	13.8	61.4	17.0	1.8	5.7	2.9	12.2	0.2	43.6	13.2	87.8	302.1
1983	76.1	96.7	71.2	16.3	46.7	0.0				5.2	112.7	111.6	536.5
1984	196.1	93.0	15.7	70.8	0.4	3.5	1.3	8.4		8.8	90.7	77.2	565.9
1985	149.0	120.7	71.2	55.0	38.1	0.7		10.2	16.8	124.9	168.4	76.2	831.2
1986	136.9	101.7	13.0	1.5	57.8	5.7			0.9	11.7	52.3	128.0	509.5
1987	94.0	55.2	184.4	14.4	25.1	2.1	0.8	0.9		27.4	55.1	130.6	590.0
1988	32.3	107.9	117.3	42.3	44.4	26.2	1.0		0.0	105.8	90.9	148.4	716.5
1989	104.9	6.1	31.5		0.5	9.3	0.0		0.2	75.6	96.1	57.8	382.0
1990	43.6	134.7	67.9	11.0	11.6	2.0	44.8	0.3	75.6	31.2	19.2	55.0	496.9
Mean	116.7	87.7	62.1	35.7	20.7	7.3	13.7	5.2	9.8	40.4	74.1	131.6	586.3
P50%	110.3	82.9	58.6	33.7	19.6	6.9	12.9	4.9	9.2	38.2	70.0	124.4	553.9
P80%	66.2	64.8	45.8	26.4	15.3	5.4	10.1	3.9	7.2	29.9	54.8	97.2	433.1
P90%	76.4	57.4	40.6	23.4	13.5	4.8	8.9	3.4	6.4	26.4	48.5	86.1	383.5

Table 1.21 Monthly Rainfall between 1960 and 1990, Station: Hatay, Station No.:984

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	106.9	116.0	268.7	161.1	82.4	39.6	8.0	51.2	5.6	52.8	50.0	101.3	1043.6
1961	77.7	230.7	86.5	68.7	87.0	11.7	0.0		42.1	48.2	63.1	385.9	1101.6
1962	102.4	321.8	47.7	225.0	12.3				2.7	59.8	4.2	460.5	1236.4
1963	385.7	213.6	168.2	89.4	108.1	124.6	0.0		15.4	150.0	38.9	112.7	1406.6
1964	67.1	230.1	250.2	91.2	29.6	0.3			41.4	164.9	164.9	144.9	1184.6
1965	261.1	217.5	95.1	311.0	50.2	91.5	30.0	0.2	10.3	52.9	68.1	222.7	1410.6
1966	318.3	95.4	112.2	69.6	84.3			0.2	250.9	10.0	51.2	374.4	1366.5
1967	123.7	191.1	258.8	385.2	117.6	0.2			36.1	109.1	132.4	171.1	1525.3
1968	335.9	139.1	209.2	0.0	10.4	69.7		65.8	16.2	96.4	275.7	332.4	1550.8
1969	232.6	114.0	120.3	92.5	87.0	86.7			25.5	56.6	40.7	104.6	960.5
1970	120.3	146.5	157.4	18.5	34.5	1.1			5.3	35.6	192.3	185.0	898.1
1971	49.9	153.7	235.9	227.5	0.8	7.6		10.4		36.8	140.6	130.0	993.2
1972	61.8	61.8	92.1	34.4	160.5	82.1	15.4		13.8	82.1	46.4	0.2	650.6
1973	88.6	85.8	99.0	106.8	147.9	58.2			12.6	68.0	115.7	172.5	955.1
1974	179.4	71.8	101.5	76.9	21.4	0.6		52.6	48.3	19.5	42.2	315.4	929.6
1975	135.6	207.5	80.8	67.1	58.2	1.3			2.1	104.6	109.7	152.4	919.3
1976	273.9	117.8	142.6	197.3	324.5	13.3	283.0	1.3	49.0	191.2	160.6	220.9	1975.4
1977	156.7	117.4	139.3	159.3	31.5				2.4	55.1	75.4	252.8	989.9
1978	405.1	167.1	103.8	75.5	6.2	81.3	21.0		29.6	118.7	2.2	283.6	1294.1
1979	267.0	175.8	81.6	90.7	68.9	5.5	20.3		3.2	180.1	125.7	165.5	1184.3
1980	230.9	117.5	184.7	199.8	63.1			4.5	4.5	111.7	77.8	144.0	1128.5
1981	309.9	149.4	128.2	107.0	91.5	60.9		0.2	9.3	21.6	122.6	202.5	1203.1
1982	124.3	102.3	114.8	88.1	18.0	4.3	7.6		5.5	158.0	46.1	102.6	771.6
1983	113.8	189.0	180.2	77.4	87.5	0.3	0.0	2.0	61.9	29.7	353.6	65.8	1161.2
1984	151.0	134.0	192.8	176.3	1.8	7.2	3.6	3.1		128.5	88.4	80.9	967.6
1985	233.9	292.6	61.8	51.6	4.9	8.0			16.6	195.2	48.6	122.6	1035.8
1986	177.8	232.7	52.8	17.1	430.7	39.5			0.1	114.3	199.1	223.7	1487.8
1987	400.0	218.7	292.2	63.1	8.8	0.8	1.1	19.0	2.4	90.5	120.9	169.9	1387.4
1988	205.7	193.7	369.6	40.2	209.2	40.8	2.0		4.9	77.8	186.6	226.8	1557.3
1989	29.1	28.9	86.6	2.0	50.7	0.7			20.4	67.0	178.8	140.3	602.5
1990	94.4	208.3	14.9	13.4	26.6	41.6			27.1	95.3	34.6	56.9	613.1
Mean	187.8	162.6	146.1	109.2	80.8	32.6	28.0	17.7	26.4	89.7	108.2	187.9	1144.9
P50%	177.6	153.8	138.2	103.2	76.5	30.8	26.5	16.7	25.0	84.9	102.4	177.7	1082.9
P80%	142.4	123.4	110.9	82.8	61.3	24.7	21.3	13.4	20.0	68.1	82.1	142.6	868.6
P90%	128.3	111.1	99.8	74.6	55.2	22.3	19.1	12.1	18.0	61.3	73.9	128.4	782.2

Table 1.22 Monthly Rainfall between 1960 and 1990, Station: Dortyol, No.:962

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	133.1	101.9	139.7	267.3	45.1	21.2	13.6	15.6	7.8	35.9	68.1	64.6	913.9
1961	77.5	112.2	69.1	56.4	56.3	14.2		27.8	6.8	108.2	39.6	133.5	701.6
1962	67.9	145.9	78.1	98.8	45.6	18.2	9.5	27.2	12.5	12.5	9.3	367.9	893.4
1963	229.7	267.2	147.5	188.9	218.7	107.9	23.9		74.3	141.9	53.2	49.3	1502.5
1964	35.0	82.3	111.7	84.5	46.9	81.3	38.6	8.5	45.3	0.2	104.3	43.1	679.7
1965	46.6	125.9	114.5	152.2	31.6	12.5	32.0	42.1	10.2	129.6	58.7	148.8	904.7
1966	243.9	36.2	107.1	176.7	43.7	5.0	6.4	37.7	361.9	52.2	70.3	197.6	1338.6
1967	136.7	93.5	177.1	180.5	38.1	3.2	47.8	0.2	59.0	40.7	80.9	151.3	1009.0
1968	195.9	90.2	117.6	2.1	38.5	50.7	35.7	33.6	72.8	149.3	120.4	265.0	1171.8
1969	75.9	65.4	50.8	112.7	197.9	31.4	1.0	5.5	11.7	39.6	41.0	91.7	724.6
1970	43.7	142.4	98.0	7.7	24.7	21.9	39.5	11.3	20.8	138.7	178.2	122.0	846.9
1971	27.7	77.1	170.6	98.6	0.5	61.5	42.3	51.5	0.2	45.7	69.8	56.4	701.9
1972	16.5	43.2	94.1	85.3	124.7	98.6	31.1	13.5	169.8	61.2	51.1	1.3	790.4
1973	46.7	56.4	75.9	172.5	55.3	54.0	14.4	7.7	6.9	92.9	46.5	228.3	857.5
1974	95.9	38.3	74.0	185.5	37.8	2.6		114.6	41.2	53.8	16.4	180.4	840.5
1975	94.7	82.5	68.5	99.3	48.0	11.8	1.3	8.9	8.9	14.7	93.5	99.1	631.2
1976	254.7	68.4	40.4	173.2	127.6	11.0	6.3	73.8	132.2	95.2	90.9	146.3	1220.0
1977	49.1	62.8	179.7	121.8	95.4	28.8	0.1	1.8	45.6	26.2	108.6	138.1	858.0
1978	196.3	248.4	154.6	39.1	1.2	30.4	0.5	0.6	75.2	123.2	0.4	142.6	1012.5
1979	161.1	139.8	23.8	59.1	53.5	32.1	7.4	38.0	16.7	176.4	139.8	78.7	926.4
1980	175.4	87.2	208.1	163.5	81.1	1.1	6.9	77.8	45.6	120.0	37.2	113.3	1117.2
1981	202.8	129.7	142.1	58.2	95.7	47.9	23.6	80.2	91.8	50.3	123.9	231.6	1277.8
1982	95.5	48.4	101.4	66.5	72.8	8.3	9.2	9.3	43.7	174.0	20.7	66.5	716.3
1983	33.6	103.5	127.6	93.9	54.7	59.6	4.7	17.0	71.0	75.3	285.3	90.3	1016.5
1984	102.7	106.9	150.4	215.2	18.2	4.2	42.0	42.0	0.5	72.3	110.7	28.9	894.0
1985	79.8	122.2	85.8	41.1	23.0	126.5	5.7	2.3	23.3	225.0	71.3	46.9	852.9
1986	144.8	84.0	26.8	38.3	126.0	44.3	13.1	6.4	16.3	156.1	105.6	124.8	886.5
1987	255.8	131.4	190.7	61.2	30.7	11.4	56.1	0.5	3.3	37.6	114.1	118.5	1011.3
1988	48.1	154.7	227.5	98.1	182.3	27.5	6.6	26.0	10.6	227.0	159.4	138.0	1305.8
1989	15.8	9.8	91.4	15.8	119.6	10.7	0.4	23.8	5.1	225.7	154.5	83.8	756.4
1990	60.7	202.8	5.8	41.8	47.0	45.4	16.3	6.7	11.2	58.5	152.9	30.5	679.6
Mean	111.1	105.2	111.3	105.0	70.4	35.0	18.4	27.1	48.5	95.4	89.6	121.9	936.8
P50%	110.0	104.2	110.2	104.0	69.7	34.7	18.2	26.8	48.0	94.5	88.7	120.7	927.9
P80%	90.3	85.5	90.4	85.3	57.2	28.4	15.0	22.0	39.4	77.5	72.8	99.0	761.1
P90%	80.6	75.3	80.7	76.2	51.1	25.4	13.4	19.6	35.2	69.2	65.0	88.4	679.6

Table 1.23 Monthly Rainfall between 1960 and 1990, Station: Antalya, Station No.:300

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	358.5	39.0	133.1	34.3	44.5	18.6	2.2		27.9	7.3	131.3	524.6	1321.3
1961	204.4	169.0	21.7	131.7	1.6	34.2			13.2	16.4	37.2	319.4	948.8
1962	208.2	235.0	106.4	42.9	76.1		0.9		62.6	69.3	10.7	228.1	1040.2
1963	148.7	308.8	91.8	26.2	78.9	3.4	1.8			4.4	88.8	185.1	937.9
1964	65.5	218.0	108.8	0.5	31.5	13.7			25.4	0.0	46.6	73.3	583.3
1965	301.7	264.7	234.7	65.5	80.3	2.1		1.4	0.1	37.2	21.5	366.3	1375.5
1966	525.0	66.8	114.4	63.6	3.6	2.4	0.0	0.2	11.5	1.2	79.0	395.4	1263.1
1967	139.8	102.1	103.5	107.7	34.1	5.6	2.2	0.3	13.6	330.7	188.4	176.1	1204.1
1968	164.4	70.8	87.4	44.5	2.5	2.8		24.1	40.7	110.3	410.4	364.5	1322.4
1969	797.8	148.4	223.2	32.3	31.2	3.8			6.2	30.7	55.7	585.0	1914.3
1970	316.5	264.8	82.4	20.3	39.9	1.1	0.0	0.5	7.3	57.2	60.5	142.0	992.5
1971	127.5	394.8	61.7	39.3	16.5	3.8	41.9	0.3	0.9	9.1	166.2	206.0	1068.0
1972	210.9	138.9	64.4	31.4	41.7	9.6		0.0	13.5	83.5	9.2	27.5	630.6
1973	92.6	220.8	34.3	17.3	3.6	16.2	0.0		0.0	22.6	55.6	89.9	552.9
1974	95.4	624.6	146.6	15.0	11.3	0.6		0.1	9.2	66.4	128.0	205.2	1302.4
1975	465.1	202.0	10.9	27.8	53.7	12.1		3.4		54.5	142.5	308.4	1280.4
1976	163.7	59.5	62.9	83.9	64.5	6.7	6.7	0.2	40.9	235.2	207.1	204.4	1135.7
1977	162.7	35.9	113.4	107.0	10.6	9.6	0.6		0.2	68.1	61.1	426.1	995.3
1978	287.3	322.5	136.6	43.0	0.5				8.8	121.6	127.4	388.6	1436.3
1979	381.3	249.0	63.4	3.9	16.6	5.9	0.0	0.5	0.8	165.0	242.3	155.2	1283.9
1980	218.2	83.1	79.7	58.6	32.5			2.4	41.6	21.5	96.8	192.1	826.5
1981	527.8	260.5	30.9	22.9	16.2	2.2	0.1			4.0	482.7	250.8	1598.1
1982	84.3	147.2	237.9	54.0	8.2	48.0		0.0	0.4	69.2	54.7	126.4	830.3
1983	105.3	190.7	191.6	28.0	2.0	3.1	12.8			185.5	164.7	282.8	1166.5
1984	217.0	53.3	50.1	110.8	0.0	0.0	5.2	0.1	2.0		625.9	88.1	1152.3
1985	482.1	102.0	100.9	23.5	8.3	0.3				56.0	141.8	187.7	1102.6
1986	328.3	332.1	20.3	10.4	29.0	0.1		0.0	21.6	6.4	1.1	104.0	853.3
1987	62.9	104.5	104.9	101.7	15.5	49.2		5.1	0.1	29.8	83.5	163.7	720.9
1988	152.8	241.8	186.1	53.5	97.9	0.1	3.1		0.0	121.4	88.1	287.3	1210.1
1989	48.2	108.8	162.4	0.1	33.3	6.0			0.2	69.3	109.9	110.6	648.8
1990	72.5	146.2	62.3	8.2	10.8	5.1			5.1	66.4	30.4	195.2	602.2
Mean	242.5	190.5	104.2	45.5	28.9	9.5	5.2	2.4	13.6	70.7	133.8	236.8	1074.2
P50%	226.8	178.2	97.4	42.5	27.1	8.9	4.8	2.3	12.7	66.1	125.2	221.5	1005.0
P80%	177.6	139.5	76.3	33.3	21.2	7.0	3.8	1.8	10.0	51.8	98.0	173.4	786.8
P90%	158.3	124.3	68.0	29.7	18.9	6.2	3.4	1.6	8.9	46.1	87.3	154.5	701.1

Table 1.24 Monthly Rainfall between 1960 and 1990. Station: Trabzon, Station No.:37

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	54.6	124.8	18.3	107.8	41.3	70.1	18.7	15.6	84.7	18.6	38.5	43.9	636.9
1961	63.6	44.0	90.0	29.4	57.6	38.4	48.4	36.8	44.2	31.5	163.9	74.0	721.8
1962	48.5	94.6	25.2	27.2	95.7	35.4	20.0	13.2	56.3	134.5	57.6	127.8	736.0
1963	118.9	27.8	106.9	63.6	45.5	73.4	41.2	60.0	143.6	91.6	57.3	77.4	907.2
1964	87.9	28.9	74.7	65.1	64.6	25.2	50.7	35.5	22.3	82.6	127.8	77.4	742.7
1965	36.3	55.6	94.7	80.4	29.5	93.0	18.7	25.4	50.3	293.0	66.4	32.2	875.5
1966	50.8	34.9	61.2	53.5	51.5	48.3	22.0	66.1	149.8	28.8	22.3	64.5	653.7
1967	109.9	120.1	18.0	64.6	57.4	43.9	31.1	80.5	29.6	55.5	83.0	126.1	819.7
1968	131.7	30.6	69.6	42.5	48.5	51.1	13.9	54.6	64.4	174.9	23.0	85.1	789.9
1969	62.3	39.3	54.4	97.4	35.1	54.0	32.1	12.8	39.6	171.0	65.9	87.2	751.1
1970	58.2	42.4	69.9	52.8	43.7	8.1	25.4	87.1	116.3	107.8	85.2	48.4	735.3
1971	12.8	81.7	76.8	47.0	21.5	56.4	22.4	15.4	85.6	243.4	108.6	139.4	911.0
1972	34.4	31.5	14.0	30.4	31.7	46.4	63.2	51.3	49.5	58.2	104.8	60.6	576.0
1973	70.7	29.8	80.9	70.7	16.4	56.1	26.4	28.2	50.3	110.5	201.8	133.0	874.8
1974	51.9	10.6	23.4	68.9	69.8	9.6	13.6	37.4	139.4	3.7	93.1	109.7	631.1
1975	24.9	120.9	24.3	38.3	37.9	21.0	12.9	52.1	94.7	94.3	82.3	94.3	697.9
1976	118.0	85.8	30.2	30.4	57.6	29.2	14.5	62.6	62.7	101.9	19.1	34.7	646.7
1977	31.6	15.9	75.9	72.8	51.1	62.5	60.4	24.9	147.6	87.2	47.8	173.9	851.6
1978	74.9	27.2	55.3	93.6	27.6	110.9	23.5	31.4	36.6	72.2	125.9	128.4	807.5
1979	157.7	65.9	50.5	56.2	84.6	67.2	51.8	2.8	56.5	109.2	36.7	46.0	785.1
1980	126.1	37.7	25.9	75.9	58.5	7.2	14.2	86.7	51.3	30.8	93.4	97.9	705.6
1981	13.0	22.7	75.3	49.3	66.8	21.6	44.0	65.9	49.4	104.9	146.4	33.5	691.8
1982	51.0	42.4	53.4	55.5	25.0	52.0	118.4	69.5	48.3	154.5	103.7	71.6	845.3
1983	138.4	43.4	71.9	24.8	57.7	67.7	46.1	23.8	49.2	88.3	175.6	48.4	835.3
1984	22.4	56.5	68.1	101.0	49.2	38.4	12.5	64.9	7.7	130.8	59.6	20.9	632.0
1985	28.6	141.7	13.9	35.9	72.4	109.4	26.8	12.9	80.1	158.3	47.6	122.0	849.6
1986	81.6	54.5	36.4	35.0	71.3	59.1	23.3	25.9	95.5	68.6	112.1	89.5	752.8
1987	103.7	38.8	63.6	51.6	30.7	40.1	42.5	85.9	63.2	79.8	84.9	105.0	787.8
1988	82.2	46.6	91.1	37.3	82.8	55.2	58.0	31.0	33.7	138.3	175.7	39.4	871.3
1989	86.0	64.9	44.1	31.6	50.1	45.6	20.3	24.0	116.5	213.8	106.7	97.3	900.9
1990	54.7	60.3	36.9	99.7	76.7	148.5	34.5	48.5	82.4	91.3	81.2	64.9	879.6
Mean	70.6	55.5	54.3	57.7	51.9	53.1	33.9	43.0	71.0	107.4	90.3	82.4	771.1
P50%	69.4	54.6	53.5	56.8	51.1	52.2	33.4	42.3	69.8	105.7	88.8	81.0	758.4
P80%	62.8	49.4	48.4	51.4	46.2	47.2	30.2	38.3	63.2	95.6	80.3	73.4	686.5
P90%	59.9	47.1	46.2	49.0	44.1	45.1	28.8	36.5	60.3	91.2	76.7	70.0	655.0

Table 1.25 Monthly Rainfall between 1960 and 1990. Station: Bayburt, Station No.:686

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	29.3	58.4	27.5	88.2	60.5	109.2	27.2	13.4	1.4	25.8	28.0	11.3	478.2
1961	40.4	5.9	33.8	38.1	25.1	55.1	1.7	14.3	16.3	9.1	38.8	39.7	318.3
1962	28.5	33.0	50.8	48.6	75.9	13.5	16.0	18.3	0.0	15.8	24.6	34.1	359.1
1963	38.8	34.7	59.5	108.4	98.2	111.5	64.0	3.5	36.9	51.4	28.6	32.1	667.6
1964	9.5	24.5	55.2	55.0	145.8	65.7	5.4	2.9	12.4	3.7	63.3	23.9	467.3
1965	15.0	21.7	31.6	87.1	36.1	44.5	7.4	0.0	27.7	55.2	33.2	16.0	375.5
1966	24.6	3.2	36.3	51.8	57.2	14.7	10.8	13.8	25.1	6.1	13.3	18.4	275.3
1967	30.5	24.3	15.6	48.8	47.7	65.7	35.0	8.6	21.1	36.9	37.6	67.7	439.5
1968	29.0	26.3	24.8	47.0	79.1	38.5	8.9	22.3	61.5	57.4	44.1	34.3	473.2
1969	11.9	24.9	39.9	47.7	51.1	58.3	1.4	0.1	27.1	70.6	8.3	37.5	378.8
1970	9.2	13.6	37.0	16.3	49.6	32.3	67.2	54.3	16.8	61.2	34.8	24.1	416.4
1971	6.9	16.5	59.1	21.4	81.1	70.8	10.7	47.5		31.4	26.1	49.9	421.4
1972	14.3	11.6	44.9	56.6	56.9	113.3	6.1	21.3	18.3	28.0	41.2	8.9	421.4
1973	22.9	16.2	28.7	67.0	29.8	63.6	5.8			42.5	58.5	15.2	350.2
1974	25.6	9.9	10.5	114.8	18.2	24.6	2.0	28.1	11.1	11.8	17.7	35.7	310.0
1975	8.7	37.7	20.3	35.6	76.5	22.0	10.1	0.3	41.9	16.4	23.3	14.6	307.4
1976	48.2	36.7	37.6	46.1	43.4	54.0	10.3	2.0	15.2	48.7	12.9	18.0	373.1
1977	10.8	8.9	46.7	45.2	105.3	98.9	5.9	6.2	5.1	56.4	20.8	44.0	454.2
1978	45.4	25.3	47.6	79.8	26.4	37.2	3.4		16.4	22.0	9.6	26.8	339.9
1979	38.9	54.3	40.5	46.2	40.9	110.3	57.5	4.0	8.4	102.2	62.0	55.6	620.8
1980	28.2	11.6	55.0	77.3	58.9	10.4	1.4	17.9	11.0	20.6	43.7	48.1	382.1
1981	7.2	12.5	53.0	61.8	107.1	69.0	3.3	4.1	22.3	25.3	40.9	13.0	419.5
1982	22.2	12.7	28.5	104.6	66.9	11.1	20.4	3.2	10.5	11.7	19.0	7.4	318.2
1983	19.4	14.1	25.7	19.0	89.5	69.4	2.1	6.0	55.2	55.6	72.2	2.4	430.6
1984	6.3	8.7	45.1	84.2	97.3	14.5	5.7	21.7		5.4	19.5	25.4	333.8
1985	43.7	63.5	10.3	86.5	68.7	47.9	11.6	4.0	15.1	81.8	20.3	37.2	490.6
1986	35.0	32.5	12.1	19.4	130.6	43.6	3.9	3.3	9.7	38.4	47.5	14.1	390.1
1987	70.3	35.4	31.6	43.0	22.3	62.3	43.6	39.6	0.0	41.6	54.0	73.5	517.2
1988	28.8	17.4	42.0	32.1	91.5	88.6	31.2	37.6	25.7	96.9	48.6	19.0	557.4
1989	7.7	6.8	31.9	35.9	51.1	63.7	5.8	3.3	33.8	47.6	44.5	24.8	356.9
1990	13.0	41.9	1.9	119.1	46.3	39.1	19.5		18.2	41.3	60.6	31.6	432.5
Mean	24.8	24.0	35.0	59.1	65.6	55.5	16.3	14.3	20.2	39.3	35.3	29.2	415.4
P50%	24.7	23.9	34.8	58.7	65.1	55.1	16.2	14.2	20.0	39.0	35.1	29.0	412.4
P80%	20.5	19.9	28.9	48.9	54.2	45.9	13.5	11.9	16.7	32.5	29.2	24.1	343.4
P90%	18.5	17.9	26.1	44.0	48.8	41.3	12.1	10.7	15.0	29.3	26.3	21.7	309.3

Table 1.26 Monthly Rainfall between 1960 and 1990, Station: Giresun, Station No.:34

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	109.7	150.8	59.4	127.5	68.4	73.1	64.3	114.0	105.7	62.8	77.8	60.5	1074.0
1961	140.9	90.3	110.7	25.0	67.7	53.9	85.2	36.0	198.9	57.3	187.7	127.0	1180.6
1962	92.1	187.3	77.1	57.1	36.8	62.3	22.1	70.4	68.6	229.8	93.8	193.0	1190.4
1963	187.2	81.7	181.5	132.2	44.7	33.6	26.0	49.5	93.8	105.3	62.2	135.6	1113.3
1964	131.6	51.6	133.8	83.5	74.5	39.3	64.4	66.0	160.8	54.9	180.0	110.6	1151.0
1965	104.6	90.7	86.0	109.4	74.6	64.6	139.7	51.7	87.3	368.6	118.5	122.1	1417.8
1966	106.6	64.3	114.2	78.5	121.8	68.5	153.4	96.6	88.7	17.2	48.3	146.6	1104.7
1967	241.8	210.3	59.8	58.6	67.6	54.0	42.5	226.2	31.8	120.7	166.6	143.1	1423.0
1968	141.6	54.8	97.8	45.1	48.7	126.0	28.3	76.2	135.9	277.8	46.7	162.4	1241.3
1969	173.1	91.7	64.6	99.9	22.9	68.8	134.7	22.1	89.1	165.4	106.4	131.2	1169.9
1970	145.4	84.9	70.7	75.1	43.0	14.4	32.6	168.0	168.1	113.5	141.7	131.9	1189.3
1971	38.4	72.7	88.6	86.4	40.8	41.6	70.2	75.1	136.0	143.9	166.4	116.2	1076.1
1972	61.7	45.2	28.5	53.6	60.5	150.2	11.8	150.4	118.4	196.9	98.7	123.6	1099.5
1973	75.5	40.0	96.9	51.9	31.3	108.9	107.9	133.7	123.4	181.6	223.7	173.9	1348.7
1974	120.2	40.1	38.9	62.5	103.0	32.5	75.6	73.7	162.6	39.8	193.2	203.6	1145.7
1975	34.6	149.7	65.0	85.9	19.7	102.3	20.3	67.5	141.3	106.5	111.4	152.6	1056.8
1976	168.6	118.1	63.7	35.7	92.0	94.9	30.4	165.3	131.8	150.5	41.1	59.8	1151.9
1977	76.1	42.6	185.3	145.8	91.0	23.9	154.2	84.8	222.3	95.2	75.2	189.2	1385.6
1978	149.0	70.7	111.4	132.1	58.9	95.2	23.7	31.1	71.7	123.4	119.0	166.6	1152.8
1979	160.4	87.1	61.6	96.4	56.8	152.0	71.5	48.5	105.5	130.5	137.3	44.5	1152.1
1980	210.2	57.7	103.2	105.8	82.8	43.9	16.1	112.6	141.6	54.0	174.3	112.9	1215.1
1981	49.3	41.1	111.4	95.1	99.8	54.8	185.6	105.0	53.5	265.1	253.1	84.8	1399.6
1982	113.6	107.4	107.0	82.6	35.1	74.0	114.0	74.3	107.2	179.8	201.5	89.2	1285.7
1983	143.0	116.4	106.6	33.2	59.8	79.6	42.1	66.0	54.9	197.1	289.2	54.4	1242.3
1984	94.7	64.9	109.2	130.0	40.4	72.6	79.0	185.1	42.2	163.4	99.0	75.7	1156.2
1985	84.6	227.2	32.0	62.0	53.4	80.4	100.7	26.9	85.7	263.5	98.7	160.5	1275.6
1986	114.7	106.9	52.4	61.0	115.6	105.1	138.5	26.8	102.4	104.0	198.1	111.6	1237.3
1987	169.0	73.2	113.9	98.8	42.1	86.4	44.9	76.5	51.4	169.6	127.1	240.8	1293.7
1988	167.9	91.0	110.0	38.4	80.9	96.6	115.0	190.9	106.1	342.3	237.3	108.7	1685.1
1989	71.9	55.9	66.3	33.3	64.0	156.2	64.6	59.1	196.7	299.1	125.5	179.8	1372.4
1990	80.9	60.8	39.0	173.9	150.6	103.2	54.5	83.8	107.6	72.4	158.6	87.2	1172.5
Mean	121.3	91.2	88.0	82.5	66.1	77.8	74.7	90.8	112.6	156.5	140.6	129.0	1231.0
P50%	122.8	92.3	89.0	83.5	66.9	78.8	75.6	91.9	114.0	158.4	142.3	130.6	1246.2
P80%	111.5	83.9	80.9	75.9	60.8	71.6	68.7	83.5	103.6	144.0	129.3	118.7	1132.3
P90%	104.9	78.9	76.1	71.3	57.2	67.3	64.6	78.5	97.4	135.4	121.6	111.6	1064.8

Table 1.27 Monthly Rainfall between 1960 and 1990, Station: Gumushane, Station No.:88

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	53.8	56.5	24.7	126.1	57.0	21.7	42.4						416.4
1961	35.2	3.2	50.2	46.8	49.6	46.3	8.5	0.0	16.7	16.1	58.1	34.6	365.3
1962	17.7	37.9	33.4	31.6	108.1	32.9	3.6	7.0	2.1	31.8	23.9	74.5	404.5
1963	83.2	42.9	55.7	45.5	80.3	79.6	28.5	4.4	27.9	30.0	20.6	41.5	540.1
1964	9.2	24.5	33.3	37.2	86.9	65.9	13.1	9.0	15.4	3.3	65.0	12.5	375.3
1965	14.8	38.9	36.3	52.6	45.9	61.3	4.5	0.8	10.5	43.3	34.0	53.4	396.3
1966	82.0	6.7	90.6	51.2	69.5	26.0	13.7	7.6	17.2	3.9	18.6	47.0	434.0
1967	74.4	21.0	33.2	32.5	74.9	70.4	39.2	0.4	27.8	48.9	44.1	92.8	559.6
1968	49.8	25.1	81.2	68.5	58.2	10.8	2.2	19.7	49.0	46.3	28.9	34.8	474.5
1969	28.0	34.6	27.7	74.4	54.5	59.0	12.4	13.7	7.9	44.6	16.2	41.0	414.0
1970	18.1	54.5	40.7	33.1	54.2	27.6	12.2	24.5	20.0	49.2	63.7	50.7	448.5
1971	4.9	20.3	69.0	57.3	67.6	61.3		62.3	8.0	31.3	59.8	70.6	512.4
1972	20.7	9.4	10.5	68.8	73.5	74.0	3.7	24.2	20.9	69.2	29.6	8.7	413.2
1973	9.1	17.3	38.1	79.7	16.8	54.5	4.2		0.5	47.5	41.9	38.9	348.5
1974	39.2	11.6	32.0	64.1	54.8	17.0	0.6	15.9	11.6	19.6	33.3	57.8	357.5
1975	18.1	43.4	38.6	62.5	85.7	59.7	4.0	2.3	9.1	17.5	21.9	67.1	429.9
1976	92.5	34.2	23.6	40.4	77.6	36.3	17.7	1.8	20.2	32.1	18.2	40.2	434.8
1977	6.5	7.7	79.0	80.2	79.3	63.5	6.2	10.1	18.7	53.3	21.2	53.6	479.3
1978	47.4	42.1	83.3	101.7	44.9	45.9	4.5	0.1	18.8	41.6	7.0	45.8	483.1
1979	59.2	31.3	36.3	65.6	61.6	67.0	19.9	0.3	17.8	56.8	51.5	82.8	550.1
1980	36.0	8.5	37.4	58.8	69.9	9.4	0.1	22.9	7.8	12.3	52.5	55.6	371.2
1981	36.4	28.4	32.9	26.8	100.9	43.0	6.8	8.6	5.4	27.5	62.8	57.4	436.9
1982	49.7	27.5	30.3	76.4	53.3	28.0	28.6	2.4	25.0	15.9	24.1	17.2	378.4
1983	29.6	31.7	32.2	32.8	141.9	72.1	4.2	8.6	23.0	51.5	79.3	15.8	522.7
1984	6.2	32.3	46.7	126.0	67.7	20.2	5.2	9.9	2.7	13.4	16.7	15.7	362.7
1985	30.7	66.4	19.1	43.5	83.7	71.7	0.3	24.5	23.7	106.0	21.8	46.6	538.0
1986	38.8	45.0	1.0	23.9	107.6	68.6	4.7	6.0	12.6	31.1	42.4	61.8	443.5
1987	95.5	40.0	36.6	41.7	44.4	30.2	31.0	33.5	0.8	58.6	61.9	85.4	559.6
1988	28.6	55.6	57.2	37.7	85.6	67.6	37.0	19.9	44.2	78.8	127.4	11.4	651.0
1989	40.0	16.7	38.2	43.4	29.6	29.2	2.0	3.8	20.3	48.4	83.7	68.6	423.9
1990	23.5	35.0	2.9	97.8	104.0	109.5	19.8		25.4	33.8	38.3	39.0	529.0
Mean	38.0	30.7	40.4	59.0	70.6	49.4	12.7	12.3	17.0	38.8	41.5	46.5	453.4
P50%	37.8	30.5	40.2	58.7	70.3	49.1	12.6	12.2	17.0	38.6	41.3	46.2	451.2
P80%	32.9	26.5	34.9	51.0	61.1	42.7	11.0	10.6	14.7	33.6	35.9	40.2	392.2
P90%	30.4	24.5	32.3	47.1	56.4	39.4	10.1	9.8	13.6	31.0	33.1	37.1	362.2

Table 1.28 Monthly Rainfall between 1960 and 1990, Station: Rize, Station No.:40

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	204.6	294.9	220.8	102.9	65.0	137.5	274.3	373.8	256.2	150.4	169.6	161.5	2411.5
1961	281.3	163.6	196.7	82.4	144.6	92.3	87.4	109.0	307.8	112.4	289.0	258.3	2124.8
1962	180.6	264.0	130.6	116.0	98.7	158.1	111.5	163.9	157.5	181.0	95.7	239.3	1896.9
1963	325.3	95.1	269.9	96.6	106.7	195.2	143.3	345.1	152.4	215.8	296.0	472.7	2714.1
1964	274.4	131.8	148.4	187.4	116.6	78.1	197.2	209.3	152.2	241.3	359.1	127.2	2223.0
1965	144.0	245.5	183.9	173.2	56.6	131.2	186.7	84.8	72.6	478.7	215.3	179.3	2151.8
1966	112.7	121.4	201.0	73.2	107.1	57.1	105.1	193.8	279.8	98.0	18.6	231.4	1599.2
1967	281.6	227.8	140.6	129.1	89.2	111.1	139.1	269.8	166.0	151.0	303.6	336.3	2345.2
1968	463.3	113.0	129.5	76.1	122.0	190.8	65.3	196.2	306.4	349.3	317.4	190.8	2520.1
1969	217.1	136.6	131.9	125.3	46.2	116.4	106.6	47.9	227.9	324.6	158.6	225.9	1865.0
1970	215.7	177.8	167.6	63.7	104.1	52.2	250.2	314.8	288.1	378.8	182.2	191.9	2387.1
1971	65.4	197.9	177.9	69.3	46.3	181.2	132.1	140.2	351.7	348.4	241.9	385.2	2337.6
1972	278.1	129.9	127.9	60.0	161.8	68.6	114.3	259.4	168.9	181.0	359.7	191.3	2100.9
1973	176.2	131.6	173.8	72.7	75.2	235.9	137.9	69.8	112.2	261.6	378.9	294.8	2120.6
1974	200.8	38.6	37.1	197.0	83.0	84.3	163.4	147.4	452.3	8.4	270.4	247.0	1929.7
1975	144.9	340.7	82.7	76.5	74.8	130.4	190.4	148.2	349.3	246.1	321.0	297.5	2402.5
1976	298.5	223.3	74.3	62.5	132.1	127.3	91.3	208.6	224.4	272.2	103.6	140.8	1958.9
1977	193.4	54.0	149.9	112.1	74.3	102.8	124.4	218.5	295.0	287.4	118.9	248.4	1979.1
1978	210.3	133.6	78.9	213.2	66.7	250.5	135.7	141.5	136.0	176.1	328.1	321.3	2191.9
1979	194.8	210.5	96.8	117.3	189.8	92.1	193.0	134.6	203.5	398.6	202.9	163.4	2197.3
1980	435.4	89.6	162.5	98.3	63.3	78.1	32.8	329.2	293.7	148.9	317.9	196.4	2246.1
1981	130.2	172.5	195.9	67.2	188.0	65.1	84.5	298.9	131.5	180.6	406.8	136.3	2057.5
1982	231.8	238.8	134.6	115.9	28.9	96.0	162.7	102.6	170.8	322.5	250.0	175.1	2029.7
1983	202.5	135.8	222.6	26.0	94.0	200.4	167.5	97.2	227.7	310.3	311.5	184.9	2180.4
1984	140.8	51.4	134.6	108.7	92.6	40.8	144.2	194.2	52.4	373.0	198.2	162.8	1693.7
1985	126.6	476.3	150.3	67.8	135.7	167.4	232.2	100.9	208.7	404.9	135.1	332.5	2538.4
1986	222.1	254.7	110.6	57.1	118.9	125.0	152.9	53.2	237.5	272.8	248.4	196.3	2049.5
1987	260.5	180.6	163.4	137.6	23.6	87.9	123.9	421.4	169.5	251.4	148.6	319.9	2288.3
1988	249.7	173.9	213.0	51.3	132.0	167.0	120.5	332.7	179.0	383.9	502.0	192.9	2697.9
1989	185.7	124.1	106.9	50.2	126.1	101.9	71.1	116.7	247.9	516.6	229.7	286.6	2163.5
1990	248.9	102.2	85.7	163.9	132.3	172.3	57.8	129.8	355.1	297.6	198.6	222.5	2166.7
Mean	222.5	175.2	148.4	101.6	99.9	125.6	138.7	192.0	223.7	268.5	247.7	235.8	2179.6
P50%	219.4	172.8	146.4	100.2	98.5	123.9	136.8	189.4	220.6	264.8	244.3	232.6	2149.7
P80%	199.5	157.1	133.0	91.1	89.5	112.6	124.3	172.2	200.5	240.7	222.0	211.4	1954.0
P90%	190.4	150.0	127.0	87.0	85.5	107.5	118.7	164.4	191.4	229.8	212.0	201.8	1865.5

Table 1.29 Monthly Rainfall between 1960 and 1990, Station: Artvin, Station No.:45

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	80.5	80.3	31.1	37.8	35.5	59.3	57.4	24.5	3.9	28.9	48.8	97.7	585.7
1961	48.5	42.3	108.8	26.0	51.4	52.4	22.1	10.5	29.3	24.2	129.5	66.1	611.1
1962	60.3	73.6	56.7	73.5	46.0	35.5	33.8	28.0	62.3	45.6	47.0	53.7	616.0
1963	64.7	50.4	63.4	71.9	71.9	63.5	77.6	42.0	23.3	64.6	69.8	152.0	815.1
1964	152.0	20.4	47.9	53.2	72.9	43.1	17.0	9.4	31.8	69.9	234.5	106.3	858.4
1965	26.5	59.4	68.2	74.9	27.7	64.7	28.5	4.4	34.7	117.1	94.9	81.4	682.4
1966	30.8	52.6	56.8	53.8	63.3	27.1	24.5	46.5	47.0	6.5	2.8	40.7	452.4
1967	88.8	129.9	42.2	77.8	24.8	90.5	30.9	68.4	50.5	17.7	113.2	231.3	966.0
1968	126.2	64.6	59.2	63.9	47.1	36.7	14.4	48.3	61.1	55.9	13.6	34.9	625.9
1969	25.4	33.6	39.6	56.8	28.4	33.2	9.1	16.4	28.7	152.2	19.6	62.0	505.0
1970	60.6	73.6	90.0	15.2	72.6	28.5	18.9	71.9	26.7	126.0	27.5	64.1	675.6
1971	44.0	162.7	78.7	52.0	63.7	59.5	17.1	61.9	25.2	57.5	63.4	224.6	910.3
1972	40.8	10.0	33.3	59.6	40.3	94.0	25.0	24.1	45.0	41.0	107.7	166.6	687.4
1973	72.2	104.9	59.4	52.8	44.6	59.9	18.9	0.9	2.7	45.7	119.8	110.6	692.4
1974	33.9	12.9	29.0	77.0	46.7	17.0	4.6	21.0	53.9	2.3	40.0	71.1	409.4
1975	56.9	134.3	98.5	32.8	56.0	63.3	24.3	4.8	25.9	55.9	69.4	79.1	701.2
1976	122.7	38.8	22.4	31.3	41.9	102.5	26.9	21.5	46.5	134.9	20.9	28.0	638.3
1977	36.4	42.1	39.2	67.8	55.0	40.9	30.1	14.8	49.3	99.7	27.0	72.7	575.0
1978	46.8	59.0	69.0	128.8	24.7	77.0	10.3	28.4	24.6	21.0	129.9	182.0	801.5
1979	113.2	83.9	25.2	60.2	59.5	48.1	25.7	11.0	13.9	61.1	55.0	131.2	688.0
1980	92.7	7.1	30.7	65.6	29.4	13.2	3.3	38.0	15.3	41.6	121.4	82.1	540.4
1981	22.8	127.2	60.9	37.0	76.4	42.2	10.8	11.4	32.2	45.8	124.3	62.4	653.4
1982	97.9	30.2	34.0	91.3	52.4	29.8	44.8	28.6	16.8	31.3	41.1	123.4	621.6
1983	138.1	10.0	99.7	12.1	51.9	63.0	12.6	6.6	37.9	59.5	58.7	145.7	695.8
1984	17.8	21.8	23.3	57.8	126.0	32.4	15.1	43.4	1.3	31.2	51.7	35.6	457.4
1985	27.3	184.7	27.4	90.6	42.8	17.1	17.2	27.8	54.0	74.1	25.4	145.6	734.0
1986	95.4	60.9	15.7	65.9	102.2	48.5	31.5	5.5	44.6	35.4	56.2	102.2	664.0
1987	81.0	69.7	42.9	94.2	32.4	56.8	46.9	45.1	35.1	12.6	64.6	114.4	695.7
1988	199.2	28.7	138.6	54.6	53.7	69.5	20.9	43.3	24.5	68.0	114.0	61.8	876.8
1989	342.2	153.9	57.1	58.7	48.4	27.9	17.6	8.1	32.6	44.8	83.2	76.7	951.2
1990	128.1	50.6	52.4	67.4	41.4	39.4	37.8	23.6	29.9	55.4	80.9	98.0	705.9
Mean	83.1	66.9	54.9	60.1	52.6	49.6	25.0	27.1	32.6	55.7	72.8	100.1	680.4
P50%	80.4	64.8	53.1	58.1	50.9	48.0	24.2	26.2	31.6	53.9	70.4	96.9	658.6
P80%	68.1	54.8	45.0	49.2	43.1	40.6	20.5	22.2	26.7	45.7	59.6	82.1	557.6
P90%	62.8	50.6	41.5	45.4	39.8	37.5	18.9	20.5	24.6	42.1	55.0	75.7	514.3

Table 1.30 Monthly Rainfall between 1960 and 1990, Station: Kastamonu, Station No.:74

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	16.7	25.3	44.4	76.0	41.1	97.1	15.8	20.2	32.1	30.2	27.9	19.6	446.4
1961	24.3	34.9	30.0	54.2	38.1	143.2	11.1	0.6	43.1	11.4	7.1	28.7	426.7
1962	21.6	62.9	29.1	29.7	37.7	20.1	24.3	0.6	70.2	66.7	12.1	77.3	452.3
1963	91.8	42.3	32.5	49.8	99.1	36.1	16.0	0.1	21.3	22.2	9.5	18.7	439.4
1964	5.0	35.3	20.2	34.1	66.5	119.9	38.1	69.3	19.5	3.4	70.8	30.1	512.2
1965	20.5	78.0	41.7	38.8	62.2	135.6	17.3	41.4	1.1	13.2	44.2	20.3	514.3
1966	60.4	2.2	51.3	71.2	47.4	50.6	11.7	57.6	1.6	26.7	26.2	14.4	421.3
1967	19.0	18.2	44.3	65.3	103.1	129.2	17.1	6.9	28.2	52.7	28.3	48.6	560.9
1968	57.4	18.0	46.5	24.9	34.6	64.5	19.9	87.2	67.0	67.6	23.3	25.8	536.7
1969	46.3	48.1	51.7	86.7	53.3	103.5	31.5	3.2	60.1	11.3	40.0	32.8	568.5
1970	34.9	37.9	33.7	12.5	51.6	60.2	11.2	3.6	19.7	30.5	11.8	45.4	353.0
1971	12.2	13.8	50.9	81.0	99.5	48.7	13.7	40.6	28.1	21.2	17.5	50.0	477.2
1972	15.1	12.4	20.4	112.3	72.9	62.1	121.8	30.6	47.6	83.8	19.0	19.1	617.1
1973	10.2	25.9	30.4	65.8	10.9	92.7	15.6	9.3	14.3	18.8	40.6	34.5	369.0
1974	10.2	13.0	29.1	36.4	58.0	28.0	36.8	76.4	8.6	33.0	8.9	43.2	381.6
1975	41.3	20.9	28.2	82.4	53.6	40.7	47.1	25.9	5.3	37.2	29.5	47.1	459.2
1976	50.6	22.9	8.4	42.8	32.4	39.4	25.4	18.2	21.3	58.6	21.4	42.9	384.3
1977	9.5	5.4	30.9	38.6	65.3	45.6	12.3	19.6	64.6	25.2	32.1	25.5	374.6
1978	42.7	32.8	38.6	102.9	97.1	46.0	19.1	27.6	72.8	47.3	2.5	68.7	598.1
1979	45.0	27.4	16.8	50.8	109.0	64.4	45.9	35.7	26.7	27.4	22.3	23.8	485.2
1980	53.9	28.8	50.2	89.1	90.5	33.5	1.8	12.3	32.8	30.5	40.4	49.4	511.2
1981	21.8	43.4	31.2	18.7	68.9	21.1	72.8	57.6	7.7	50.5	45.0	66.6	505.3
1982	44.2	14.3	36.8	76.0	84.5	41.2	111.1	80.4	26.9	24.6	39.5	17.9	597.4
1983	23.2	25.9	16.6	94.0	88.3	43.5	92.1	61.2	16.6	47.9	77.9	23.4	610.6
1984	28.2	15.0	29.9	106.1	71.9	57.9	71.9	61.6	0.4	17.5	18.3	4.4	483.1
1985	60.5	45.9	24.1	46.5	68.9	45.1	17.8	0.9	8.8	67.8	31.8	39.8	457.9
1986	37.4	35.6	3.8	5.1	122.8	74.6	1.6	2.9	23.5	18.5	10.5	49.6	385.9
1987	76.0	11.8	45.6	62.8	56.7	102.1	47.2	52.3	2.1	43.6	17.8	50.4	568.4
1988	8.5	40.1	66.8	60.9	75.1	89.8	16.1	0.9	8.5	116.0	37.9	63.7	584.3
1989	18.6	12.8	32.6	20.2	54.2	98.7	28.0	1.2	26.6	62.3	73.8	23.8	452.8
1990	7.1	4.8	15.7	76.0	89.3	17.1	12.4	52.6	44.0	42.7	18.5	40.1	420.3
Mean	32.7	27.5	33.3	58.4	67.9	65.9	33.0	30.9	27.5	39.0	29.2	37.0	482.4
P50%	32.2	27.2	32.8	57.6	66.9	64.9	32.6	30.5	27.1	38.5	28.8	36.4	475.6
P80%	28.1	23.7	28.6	50.2	58.3	56.6	28.4	26.6	23.6	33.5	25.1	31.8	414.6
P90%	26.2	22.1	26.7	46.8	54.4	52.7	26.5	24.8	22.0	31.3	23.4	29.6	386.3

Table 1.31 Monthly Rainfall between 1960 and 1990, Station: Bartin(Substituted), Station No.:614

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	173.5	92.4	62.5	52.9	44.2	125.9	31.4	319.7	67.3	73.6	71.4	93.4	1208.2
1961	231.7	94.0	81.5	29.9	59.4	83.7	71.9	17.1	65.1	47.9	172.9	94.2	1049.3
1962	93.3	162.7	122.7	45.0	18.4	57.0	142.4	8.7	80.9	97.8	74.9	159.0	1062.8
1963	161.7	43.7	98.9	54.6	75.8	24.2	103.5	83.8	122.1	106.6	73.4	228.5	1176.8
1964	125.2	161.5	52.8	53.6	73.5	92.4	69.3	130.9	131.9	25.0	138.6	96.3	1151.0
1965	61.3	136.5	61.1	136.5	39.9	13.7	151.7	21.3	2.5	123.9	183.1	158.9	1090.4
1966	107.4	34.1	153.9	60.8	54.1	22.3	35.8	42.5	12.8	27.2	32.7	138.2	721.8
1967	267.4	117.2	92.4	34.9	69.5	67.8	1.6	52.9	43.8	70.2	312.2	183.2	1313.1
1968	292.2	74.2	88.3	44.4	22.9	25.8	6.0	236.7	297.9	100.0	53.1	61.5	1303.0
1969	82.2	122.9	51.2	118.1	68.5	70.1	29.6	37.7	19.9	18.1	61.7	143.1	823.1
1970	109.7	138.2	79.5	64.7	113.8	42.7	32.8	226.1	55.9	140.5	78.2	192.3	1274.4
1971	39.5	147.2	90.2	51.2	70.5	37.7	23.8	23.0	69.4	174.4	93.9	313.5	1134.3
1972	76.6	60.8	40.2	87.6	28.7	100.3	57.9	104.2	75.5	126.2	149.0	33.7	940.7
1973	126.7	94.1	73.5	88.3	92.8	83.0	18.5	29.8	11.8	131.1	349.1	154.6	1253.3
1974	84.5	48.9	61.7	58.9	83.7	31.5	22.6	93.9	80.0	54.8	127.5	192.8	940.8
1975	60.3	89.7	68.5	59.3	142.3	28.2	17.3	61.2	28.2	144.2	69.7	143.8	912.7
1976	134.5	75.0	41.8	18.1	11.0	83.3	51.1	207.3	54.5	53.8	43.3	121.6	895.3
1977	81.7	41.4	80.9	69.9	34.2	25.4	37.3	95.6	71.7	60.7	97.3	107.4	803.5
1978	89.3	98.5	43.2	100.6	48.9	39.1	134.6	52.8	138.5	56.6	27.3	163.7	993.0
1979	170.2	75.5	34.6	48.2	23.9	69.2	122.2	77.0	64.8	45.1	113.5	132.2	976.4
1980	156.1	49.2	142.7	30.6	47.3	46.3	16.9	23.7	81.0	108.2	150.1	242.2	1094.3
1981	112.4	109.1	90.2	40.3	48.3	22.9	77.2	49.2	79.3	37.8	124.1	140.8	931.6
1982	121.7	53.2	135.8	58.4	37.0	25.8	135.6	301.7	49.6	66.4	31.7	84.4	1101.3
1983	227.2	114.2	29.1	57.8	21.2	43.7	114.1	53.6	34.2	177.3	72.0	53.7	998.1
1984	110.7	41.2	50.0	98.5	20.1	195.1	97.3	81.2	1.6	98.2	199.1	91.9	1084.9
1985	100.1	153.6	35.3	69.5	31.8	68.8	71.3	16.3	19.5	192.7	44.1	142.3	945.3
1986	98.7	65.5	14.4	36.5	79.1	98.9	63.2	2.5	12.2	59.5	150.3	111.0	791.8
1987	204.8	31.6	79.1	61.7	41.9	30.1	33.8	77.0	1.2	88.8	86.1	202.1	938.2
1988	61.7	47.1	77.5	78.2	61.2	74.6	89.0	44.9	62.2	187.7	197.1	120.4	1101.6
1989	50.2	56.3	24.1	16.6	59.4	79.2	19.5	10.5	226.0	159.6	172.2	92.0	965.6
1990	75.5	51.4	37.3	69.5	74.4	42.6	71.8	14.8	181.4	85.7	35.9	135.3	875.6
Mean	125.4	86.5	70.8	61.1	54.8	59.7	62.9	83.8	72.3	94.8	115.7	139.6	1027.5
P50%	123.4	85.1	69.7	60.1	53.9	58.8	61.9	82.4	71.2	93.3	113.8	137.4	1010.9
P80%	108.9	75.1	61.5	53.1	47.6	51.9	54.7	72.8	62.8	82.4	100.5	121.3	892.5
P90%	102.4	70.6	57.8	49.9	44.7	48.8	51.4	68.4	59.1	77.4	94.4	114.0	838.9

Table 1.32 Monthly Rainfall between 1960 and 1990, Station: Sinop, Station No.:26

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	47.1	50.1	27.9	74.6	38.0	58.9	6.0	77.5	23.0	65.7	99.1	56.0	623.9
1961	91.8	68.2	62.8	34.7	115.4	19.3	28.2	17.2	109.0	39.4	76.5	96.2	758.7
1962	41.4	93.1	26.0	10.3	32.3	23.1	1.8	19.4	82.2	56.5	46.5	121.9	554.5
1963	103.7	42.8	83.1	34.0	8.4	20.6	82.6	1.6	40.6	59.1	11.5	102.1	590.1
1964	95.9	67.9	27.5	30.1	66.9	13.6	21.7	97.3	102.7	22.2	101.8	60.9	708.5
1965	56.4	69.7	51.6	56.6	30.7	35.8	29.2	11.0	58.7	102.9	103.3	55.8	661.7
1966	88.8	25.2	85.7	59.0	40.9	37.6	5.2	51.7	70.1	17.0	52.9	162.1	696.2
1967	147.5	72.4	54.4	70.9	32.8	31.9	0.2	38.7	78.6	200.3	165.4	97.3	990.4
1968	125.3	49.3	40.7	7.4	6.6	34.5	18.1	184.2	126.2	102.5	52.5	172.6	919.9
1969	119.1	49.8	46.1	79.5	39.1	38.2	9.4	0.3	40.9	32.8	68.1	69.8	593.1
1970	74.5	43.7	43.1	31.5	75.2	8.7	4.8	29.9	46.1	93.7	29.5	150.8	631.5
1971	1.8	33.3	38.2	42.0	28.7	7.4	32.8	22.8	42.8	157.0	78.2	176.5	661.5
1972	71.2	25.9	21.3	34.7	18.3	14.9	10.8	45.3	82.1	116.8	72.7	37.0	551.0
1973	55.4	37.9	35.4	28.6	10.0	15.7	32.5	34.2	58.0	33.4	160.2	77.5	578.8
1974	50.7	31.8	24.3	26.8	58.3	10.7	29.7	73.2	98.7	51.0	60.2	124.1	639.5
1975	55.8	54.1	17.1	53.4	37.8	36.6	4.3	41.3	66.7	91.5	69.5	100.8	628.9
1976	83.8	46.1	10.1	33.9	26.5	31.8	35.0	19.5	64.6	53.3	58.9	47.1	510.6
1977	29.9	4.8	92.8	36.5	23.3	15.0	10.0	38.6	72.5	45.3	19.3	67.8	455.8
1978	94.2	25.1	41.2	40.3	31.6	48.0	5.5	35.9	66.5	91.4	39.3	98.8	617.8
1979	44.5	41.7	5.1	19.7	8.0	20.0	62.5	52.8	59.6	137.9	23.9	62.9	538.6
1980	69.8	39.0	56.7	52.7	46.7	20.0	1.6	23.5	52.8	27.6	95.8	85.6	571.8
1981	57.1	16.8	20.4	39.9	52.4	5.2	26.1	41.7	13.8	29.7	77.6	34.0	414.7
1982	76.4	29.6	60.4	36.3	20.1	12.7	26.7	102.7	38.3	38.0	21.8	24.8	487.8
1983	134.0	59.0	41.6	29.2	24.4	83.4	181.7	56.1	15.5	131.9	95.1	23.9	875.8
1984	43.3	14.9	25.1	74.0	22.6	34.3	98.2	225.3	5.9	75.7	118.5	47.5	785.3
1985	50.7	127.9	29.7	27.3	22.9	21.7	38.6	0.5	19.0	104.0	54.5	81.1	577.9
1986	35.4	43.9	0.0	12.2	29.2	23.7	7.2	14.6	29.1	33.9	66.3	37.8	333.3
1987	77.3	30.8	82.8	69.1	45.5	61.0	55.6	61.5	2.7	98.9	90.8	107.4	783.4
1988	110.5	43.9	39.3	24.4	38.4	47.8	36.5	14.7	25.9	324.0	144.0	81.8	931.0
1989	80.7	38.2	37.4	12.6	60.0	36.7	11.8	0.1	104.6	79.9	243.2	67.5	772.7
1990	86.1	6.2	31.1	40.4	69.2	41.4	48.2	37.1	111.0	96.2	91.8	66.2	724.9
Mean	74.2	44.6	40.6	39.4	37.4	29.4	31.0	47.4	58.3	84.2	80.3	83.7	650.6
P50%	71.2	42.8	39.0	37.8	35.9	28.2	29.8	45.5	56.0	80.8	77.0	80.3	624.3
P80%	58.9	35.4	32.2	31.3	29.7	23.3	24.6	37.6	46.3	66.8	63.7	66.5	516.4
P90%	53.8	32.3	29.4	28.6	27.1	21.3	22.5	34.4	42.3	61.0	58.2	60.7	471.4

Table 1.33 Monthly Rainfall betw 1960 and 1990 Station: Cerkes No:646

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	29.1	22.5	62.8	70.5	38.4	96.0	13.7	25.5	53.0	21.4	6.0	19.8	456.7
1961	26.7	46.9	15.9	25.7	21.6	60.6	29.8	0.1	6.6	21.0	32.0	34.6	321.5
1962	14.4	47.2	29.3	13.5	57.1	8.1	19.4	6.7	27.7	29.5	9.3	76.8	339.0
1963	70.0	24.2	30.9	52.3	99.1	22.2	33.2		69.5	15.4	37.5	28.2	482.5
1964	13.4	40.3	28.2	10.0	64.7	96.9	31.0	5.5	27.5	4.0	46.3	44.8	412.6
1965	7.5	50.2	27.2	61.6	34.6	27.0	12.4	25.4		6.9	16.5	24.8	294.1
1966	39.9	5.5	46.9	51.2	66.4	15.2	46.4	15.0	1.8	34.4	14.4	19.7	356.8
1967	16.1	15.9	39.5	31.0	62.2	54.8	2.6	1.8	8.0	24.8	14.5	31.6	302.8
1968	68.1	17.2	59.6	29.8	105.4	71.1	10.2	18.9	59.1	29.9	19.9	42.8	532.0
1969	36.8	28.1	37.9	45.1	78.0	65.1	3.6	0.0	28.9	2.8	10.4	53.6	390.3
1970	25.9	35.2	45.8	21.2	61.0	28.3	3.3	0.9	20.8	35.1	12.0	36.2	325.7
1971	16.7	12.7	43.1	45.0	106.2	62.1	15.3	37.4	34.2	16.8	18.1	41.4	449.0
1972	6.2	13.7	15.1	80.8	63.3	83.5	77.3	60.1	54.7	64.4	10.7	10.1	539.9
1973	21.0	21.3	29.7	43.1	56.3	23.3	25.1	6.3	7.6	10.2	28.8	17.9	290.6
1974	9.3	10.8	14.8	42.9	75.6	95.6	13.4	23.0	22.3	11.6	10.2	33.4	362.9
1975	46.0	14.8	14.6	51.9	162.2	35.7	10.8	25.1	5.7	10.7	23.5	24.4	425.4
1976	27.4	16.8	14.0	22.1	50.4	32.3	1.5	15.9	25.9	33.8	15.5	45.1	300.7
1977	18.0	3.9	19.7	28.2	45.8	41.5	4.3	8.8	20.4	7.3	21.4	15.1	234.4
1978	45.3	43.5	23.9	85.2	79.3	10.8	24.5	12.4	30.2	45.8	0.6	48.1	449.6
1979	58.7	26.8	13.9	32.4	70.6	28.2	23.7	5.0	4.0	42.8	28.8	21.8	356.7
1980	49.2	18.1	38.9	65.4	52.1	26.9	18.2	5.0	17.8	2.8	54.1	53.4	401.9
1981	65.0	26.1	55.4	8.1	27.6	63.2	37.8	8.9	16.9	17.2	38.8	52.1	417.1
1982	26.7	17.6	31.7	53.4		25.3	19.7	64.0	2.8	12.2	20.1	9.0	282.5
1983	30.5	18.1	7.0	70.7	121.7	86.0	89.1	29.0	4.5	23.6	74.7	13.2	568.1
1984	30.7	20.7	27.9	84.0	57.0	44.7	26.5	23.0	0.6	4.0	27.1	2.4	348.6
1985	27.3	32.6	16.0	32.7	119.2	16.4	7.3	5.3	0.0	25.4	29.0	40.6	351.8
1986	30.6	21.7	7.3	12.7	60.9	68.5	1.3	3.0	30.4	13.0	17.6	42.6	309.5
1987	64.7	19.1	30.2	68.3	46.7	47.6	19.9	27.5	9.5	43.4	22.5	54.7	454.1
1988	11.4	21.4	47.0	48.3	35.6	106.1	7.0	1.1	16.3	51.9	23.2	28.2	397.5
1989	9.4	11.4	35.6	17.9	45.6	101.7	19.8	15.2	14.0	54.6	60.6	32.5	418.3
1990	18.7	5.5	6.5	64.9	47.3	29.6	43.3	24.1	29.5	23.3	25.0	26.2	343.9
Mean	31.0	22.9	29.6	44.2	67.0	50.8	22.3	16.7	21.7	23.9	24.8	33.1	384.4
P50%	30.4	22.4	29.0	43.3	65.6	49.7	21.8	16.3	21.2	23.4	24.3	32.4	376.5
P80%	25.4	18.8	24.3	36.3	55.0	41.7	18.3	13.7	17.8	19.6	20.4	27.1	315.4
P90%	23.2	17.1	22.1	33.0	50.1	38.0	16.7	12.5	16.2	17.8	18.5	24.7	287.3

Table 1.34 Monthly Rainfall between 1960 and 1990, Station: Bartın, Station No.:614

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	173.5	92.4	62.5	52.9	44.2	125.9	31.4	319.7	67.3	73.6	71.4	93.4	1208.2
1961	231.7	94.0	81.5	29.9	59.4	83.7	71.9	17.1	65.1	47.9	172.9	94.2	1049.3
1962	93.3	162.7	122.7	45.0	18.4	57.0	142.4	8.7	80.9	97.8	74.9	159.0	1062.8
1963	161.7	43.7	98.9	64.6	75.8	24.2	103.5	83.8	122.1	106.6	73.4	228.5	1176.8
1964	125.2	161.5	52.8	53.6	73.5	92.4	69.3	130.9	131.9	25.0	138.6	96.3	1151.0
1965	61.3	136.5	61.1	136.5	39.9	13.7	151.7	21.3	2.5	123.9	183.1	158.9	1090.4
1966	107.4	34.1	153.9	60.8	54.1	22.3	35.8	42.5	12.8	27.2	32.7	138.2	721.8
1967	267.4	117.2	92.4	34.9	69.5	67.8	1.6	52.9	43.8	70.2	312.2	183.2	1313.1
1968	292.2	74.2	88.3	44.4	22.9	25.8	6.0	236.7	297.9	100.0	53.1	61.5	1303.0
1969	82.2	122.9	51.2	118.1	68.5	70.1	29.6	37.7	19.9	18.1	61.7	143.1	823.1
1970	109.7	136.2	79.5	64.7	113.8	42.7	32.8	226.1	55.9	140.5	78.2	192.3	1274.4
1971	39.5	147.2	90.2	51.2	70.5	37.7	23.8	23.0	69.4	174.4	93.9	313.5	1134.3
1972	76.6	60.8	40.2	87.6	28.7	100.3	57.9	104.2	75.5	126.2	149.0	33.7	940.7
1973	126.7	94.1	73.5	88.3	92.8	83.0	18.5	29.8	11.8	131.1	349.1	154.6	1253.3
1974	84.5	48.9	61.7	58.9	83.7	31.5	22.6	93.9	80.0	54.8	127.5	192.8	940.8
1975	60.3	89.7	68.5	59.3	142.3	28.2	17.3	61.2	28.2	144.2	69.7	143.8	912.7
1976	134.5	75.0	41.8	18.1	11.0	83.3	51.1	207.3	54.5	53.8	43.3	121.6	895.3
1977	81.7	41.4	80.9	69.9	34.2	25.4	37.3	95.6	71.7	60.7	97.3	107.4	803.5
1978	89.3	98.5	43.2	100.6	48.9	39.1	134.6	52.8	138.5	56.5	27.3	163.7	993.0
1979	170.2	75.5	34.6	48.2	23.9	69.2	122.2	77.0	64.8	45.1	113.5	132.2	976.4
1980	156.1	49.2	142.7	30.6	47.3	46.3	16.9	23.7	81.0	108.2	150.1	242.2	1094.3
1981	112.4	109.1	90.2	40.3	48.3	22.9	77.2	49.2	79.3	37.8	124.1	140.8	931.6
1982	121.7	53.2	135.8	58.4	37.0	25.8	135.6	301.7	49.6	66.4	31.7	84.4	1101.3
1983	227.2	114.2	29.1	57.8	21.2	43.7	114.1	53.6	34.2	177.3	72.0	53.7	998.1
1984	110.7	41.2	50.0	98.5	20.1	195.1	97.3	81.2	1.6	98.2	199.1	91.9	1084.9
1985	100.1	153.6	35.3	69.5	31.8	68.8	71.3	16.3	19.5	192.7	44.1	142.3	945.3
1986	98.7	65.5	14.4	36.5	79.1	98.9	63.2	2.5	12.2	59.5	150.3	111.0	791.8
1987	204.8	31.6	79.1	61.7	41.9	30.1	33.8	77.0	1.2	88.8	86.1	202.1	938.2
1988	61.7	47.1	77.5	78.2	61.2	74.6	89.0	44.9	62.2	187.7	197.1	120.4	1101.6
1989	50.2	56.3	24.1	16.6	59.4	79.2	19.5	10.5	226.0	159.6	172.2	92.0	965.6
1990	75.5	51.4	37.3	69.5	74.4	42.6	71.8	14.8	181.4	85.7	35.9	135.3	875.6
Mean	125.4	86.5	70.8	61.1	54.8	59.7	62.9	83.8	72.3	94.8	115.7	139.6	1027.5
P50%	123.4	85.1	69.7	60.1	53.9	58.8	61.9	82.4	71.2	93.3	113.8	137.4	1010.9
P80%	108.9	75.1	61.5	53.1	47.8	51.9	54.7	72.8	62.8	82.4	100.5	121.3	892.5
P90%	102.4	70.6	57.8	49.9	44.7	48.8	51.4	68.4	59.1	77.4	94.4	114.0	839.0

Table 1.35 Monthly Rainfall between 1960 and 1990, Station: Samsun, Station No.:30

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1960	91.7	107.7	50.6	69.3	40.7	28.8	12.0	40.2	18.1	23.3	80.8	18.6	581.8
1961	86.2	114.9	108.7	32.1	64.8	54.4	6.0	6.1	78.3	54.2	71.2	68.8	745.7
1962	64.0	126.0	48.7	28.9	54.9	56.1	13.5	0.2	17.5	100.0	4.9	150.6	665.3
1963	119.6	43.7	79.8	71.5	44.2	24.9	62.0	0.3	130.6	61.6	59.6	72.6	770.4
1964	53.3	39.0	51.3	43.1	43.7	21.8	39.2	38.7	31.5	5.9	90.3	54.6	512.4
1965	49.6	86.2	58.1	63.8	46.1	27.3	24.2	23.7	12.9	89.7	108.1	54.8	644.5
1966	104.6	18.3	86.1	51.1	19.2	17.7	115.7	91.2	75.2	4.5	46.4	238.5	868.5
1967	92.5	68.5	81.8	118.8	72.9	60.3	5.8	21.8	18.7	25.4	350.3	95.4	1012.2
1968	82.2	48.4	57.6	45.9	15.1	83.9	22.1	102.4	80.7	171.9	62.6	134.9	907.7
1969	80.6	43.3	82.9	88.6	30.4	53.3	0.5		53.3	79.6	103.9	40.4	656.8
1970	76.5	66.8	43.2	36.1	73.7	21.5	7.1	9.9	62.2	160.8	70.9	154.6	805.3
1971	8.9	31.2	68.0	120.3	73.0	23.8	51.6	48.8	55.1	94.2	53.7	77.4	706.0
1972	31.1	31.8	29.5	61.4	37.3	92.0	31.5	93.9	89.8	149.1	67.8	43.8	759.0
1973	13.2	41.9	80.0	52.6	59.5	36.0	4.3	10.9	64.0	74.3	100.7	86.2	613.6
1974	22.2	38.1	38.9	50.7	109.0	22.6	15.9	41.3	24.7	17.6	36.1	127.2	544.3
1975	60.1	71.0	19.7	88.7	23.6	80.9	0.3	32.5	111.4	63.7	66.3	71.2	689.4
1976	120.4	41.6	27.0	29.6	35.2	49.4	25.1	31.0	12.6	82.9	41.7	41.6	538.1
1977	52.3	28.6	88.9	88.7	49.3	61.2	60.0	13.8	80.6	54.9	26.8	110.4	715.5
1978	106.5	29.0	64.2	110.1	39.3	29.0	7.3	41.9	107.1	113.0	25.9	110.5	783.8
1979	37.3	58.1	19.7	54.6	8.1	31.2	69.3	20.2	49.3	121.3	76.5	26.0	571.6
1980	51.2	42.9	81.3	96.5	92.4	29.5	4.1	33.5	67.8	56.5	75.3	53.1	684.1
1981	32.7	14.3	49.5	31.6	53.8	22.6	9.6	32.6	13.4	44.1	132.2	66.9	503.3
1982	42.4	42.2	53.2	60.9	19.3	13.8	26.6	82.8	13.2	70.2	102.9	46.2	573.7
1983	76.5	60.9	56.3	31.8	26.9	71.3	58.7	16.6	6.4	107.1	135.5	49.1	697.1
1984	37.8	62.3	70.2	111.9	40.4	37.6	21.9	68.8	3.9	14.1	147.1	43.1	659.1
1985	47.7	44.0	31.5	31.9	24.3	69.0	16.4	9.5	36.4	208.2	89.3	40.8	649.0
1986	28.1	72.0	4.8	24.7	132.9	61.3	3.5	2.1	71.7	40.8	72.4	81.2	595.5
1987	109.5	35.2	84.0	105.6	23.3	63.6	26.1	50.1	8.6	58.2	78.1	142.2	784.5
1988	56.3	36.0	50.4	37.8	32.7	43.4	65.4	2.3	15.2	257.0	127.8	67.4	791.7
1989	51.8	47.9	39.2	25.3	41.6	37.3	24.1	3.4	65.0	93.1	174.9	84.8	668.4
1990	45.6	17.1	19.4	51.4	83.6	59.9	41.1	58.6	40.7	67.0	80.7	50.6	615.7
Mean	62.3	51.9	55.6	61.8	48.7	44.7	28.1	34.3	49.2	82.7	89.1	80.1	687.5
P50%	61.9	51.6	55.2	61.4	48.4	44.4	27.9	34.1	48.9	82.1	88.4	79.6	682.7
P80%	53.6	44.6	47.8	53.1	41.9	38.4	24.1	29.5	42.3	71.1	76.5	68.8	590.8
P90%	49.4	41.2	44.1	49.0	38.7	35.4	22.3	27.2	39.0	65.6	70.6	63.5	545.2