Crops	Provinces	Jan.	Feb.	Mar.	Арг.	May	Jon.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Wheat	Ankara							•			A -	÷	
, ,	Tarsus		ļ [<u> </u>			•		1		:		<u>.</u>
į	lzmir	.		ļ			•	ļ !			!	. .	<u> </u>
	Eskisehir	···	ļ						•			A	<u>.</u>
(Irri)	Eskisehir		<u> </u>				ļ	•	}		•		
	Konya			ļ	ļ			•		ļ }			
(Im)	Konya							•		1	A =		<u> </u>
	Tokat	<u> </u>	ļ				ļ	•	<u> </u>		İ	A	ļ
(Irri)	Tokat	}	ļ		ļ	ļ	 				•		A
	Kirklareli					ļ		•	ļ		A		
Barley	Ankara				ļ			•			A	-	
	Konya		-					•			•	ļ	-
	Tokat			•									}
Maize	Tokat(Ir)					ļ			•	••			
	Samsun	1		A									
Rice	Ankara					A		.					
	Kastamonu					A -	ļ						
	Izmir				4		ļ		-		•		
	Edirne					A				- •	•		
Dry Beans	Ankara	ĺ		A				-		•	•		
	Eskisehir				A	.	-			••			
(lmi)	Konya				•		-	- 		-	•		
(Irri)	Tokat	1			•					•			
Chick Pea	Ankara				A	<u> </u>			-	•	į		
	Eskisehir		ļ			A				•	ļ		
(Irri)	Eskisehir					A			-	•			
(Irri)	Konya				A	.			. •	•			
Lentil	Ankara			A		-					!		1
	Tokat		A A	-	+			•••					
Vetch	Ankara				•					•			
SugarBeet	(I)Ankara				A					•	•••)	
(lmi)	Kastamon	u l			A						-	•	
• •	Eskisehir				A A							••	
	Konya				.						- 04	•	
	Tokat			A	A A			ļ		- 04			
	Kirklareli			1	A			ļ			- 04		

Notes; ▲....Seeding or Planting Period, ●...Harvesting Time, (I),(Itri)...Itrigated Condition.

Source, Turkiye'de Uretilen Tarim Urunlerinin Uretim Girdileri ve Maliyetleri Rehberi.

Fig. C-1	Cropping So			,		7		1	1			1	(2-2)
Crops	Provinces	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec
Sunflower	Ankara				A			ļ · · · - ·	ļ	• •)		1
	Eskisehir					. 			•••				
	Tokat			A A	. ▲				•	•			
Cotton(I)	Tarsus			**		ļ			·	•	•••	ì	
(imi)	lzmir		<u> </u>			· 📥					••	•	į
Tobacco	Izmir					, 📥						-	•
	Bursa		İ			A			•				•
	Tokat					A		ļ			900	•••	
Hemp(I)	Kastamonu						: : :		•	•			:
Cummin	Ankara		; ;	A	·			-01					
Poppy	Isparta		} 						•		A A .		ļ
	Isparta						<u>.</u>	. 04					
(Irri)	Afyon		<u> </u>				} }	•			A A	ļ 	ļ
Anise	Burdur				1								
(lmi)	Burdur			A A	· •				••		Ì		
Potatoes	Ankara(I)			<u> </u>			ł 	ļ	Ì	-00			
(Imi)	Ege Sea		-	!		· A					1		
(Irri)	Izmir			:	A4	. .	İ	:	į			Ď	
(lmi)	Bursa				A A	.	<u> </u>		•			-	
(Irri)	Konya		1			A A		<u>:</u>			•		1
(icri)	Tokat				· · · · · · · · · · · · · · · · · · ·	<u>. </u>					Ī		1
Dry Onion	•		:		_ 					; 188		1	
(lmi)	Konya				.	1					i n	i	
()	Tokat	-	1		<u> </u>				•				!
Garlic(I)	Kastamonu					<u> </u>			· · · · · · · · · · · · · · · · · · ·				Ì
Alfalfa(I)	Ankara	ļ		1			•						1
(Ini)	Konya			: :			• [•			
(icri)	Tokat						_			ļ		-	
	Erzurum		:	:	- - -				_				
Tomatoes	Izmir(1)		Dlaw	Enting									ļ
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	1		131	Planti	ng i	A 4	<u></u> !	1		,,,	1	, C	
(Irri)	Bursa		Plan		_	<u> </u>		 				1	!
(Irri)	Tarsus		Plan	ting					1			1	
• •	Tarsus	Pla	nting (A-A	A	-	-01) 				'	
	Bursa			•	nting			·					
Cucumber(I)	•	1	Seed	-	A A	A	İ	•			1:		
WaterMelon	1		Seco								••		ļ
	Izmir		Seed			·				•			! !
(Irri)	Izmir		Seec	ling									
Melon	Eskischir	L_	Seco	ling		4	ļ	- 00		}			

Notes; ▲....Seeding or Planting Period, ●...Harvesting Time, (I), (Irri)...Irrigated Condition. Source, Turkiye'de Uretilen Tanim Urunlerinin Uretim Girdileri ve Maliyetleri Rehberi.

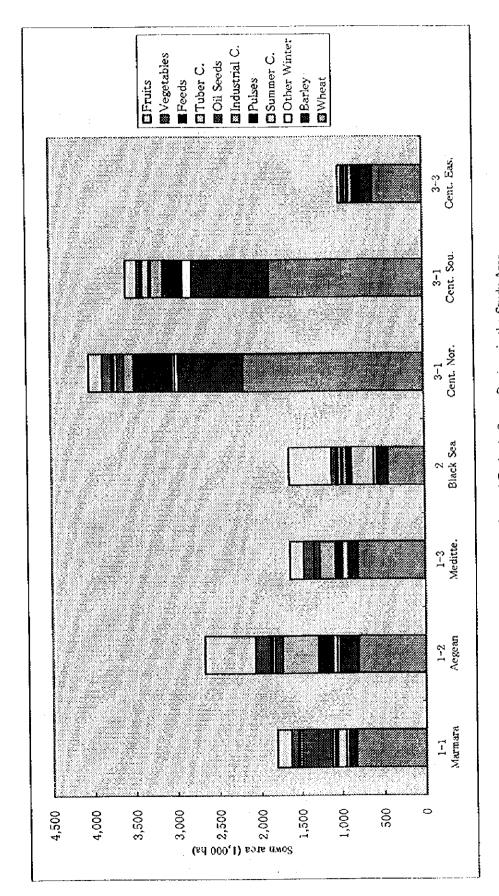


Fig. C-2 Sown Area of Field Crops, Vegetables and Fruits in Seven Regions in the Study Area. (Source: Agricultural Structure, 1994.)

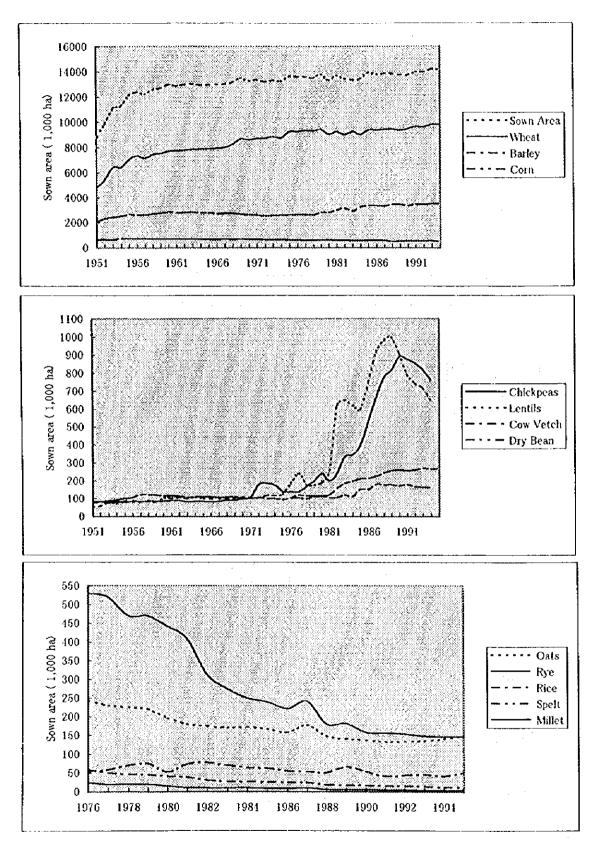


Fig. C-3 Changes in the sown areas of main crops in Turkey
Source: Statistical Yearbook of Turkey, 1995.

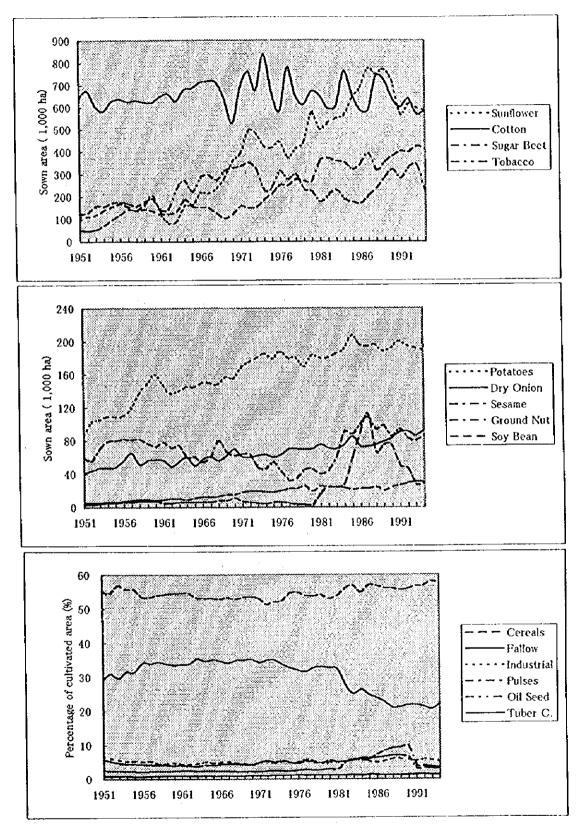


Fig.C-3 Changes in the sown area of some industrial and tuber crops (2-2) and the changes in the rate of the cultivated area of crops.

Source: Statistical Yearbook of Turkey, 1995.

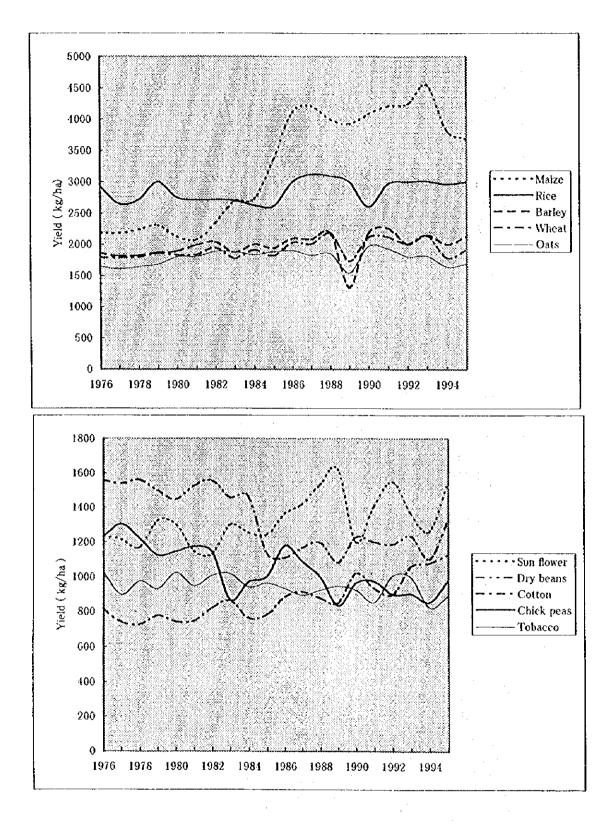


Fig.C-4 Changes in the yield of main crops in recent two decades in Turkey Source: Statistical Yearbook of Turkey, 1995.

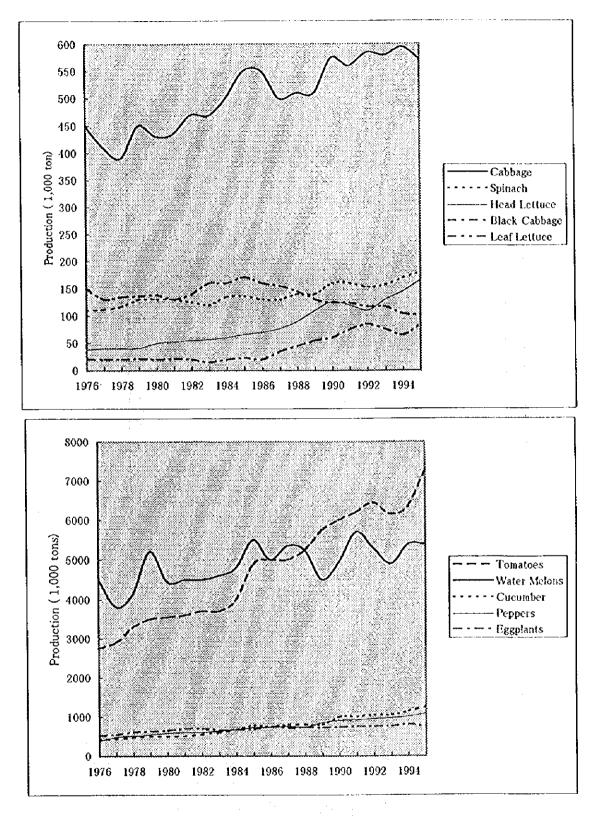
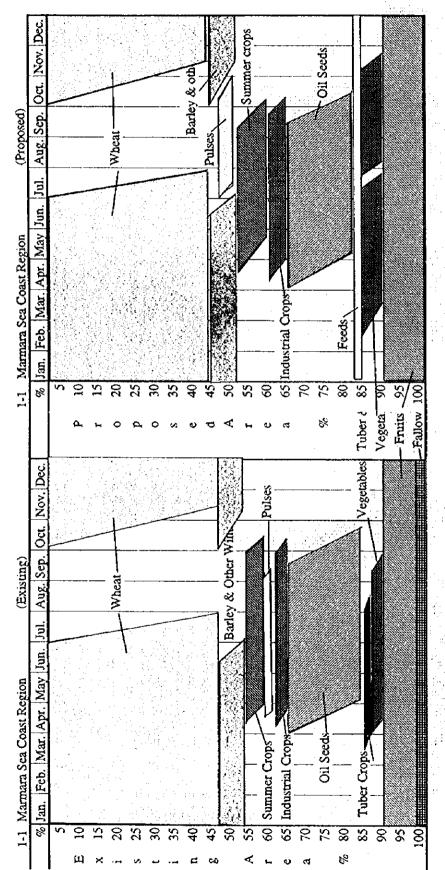
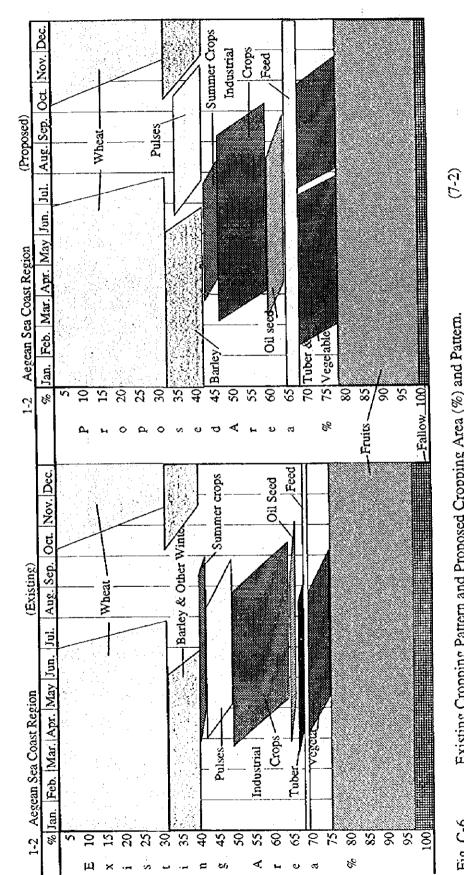


Fig.C-5 Changes in the Production of vegetables in Turkey Source: Statistical Yearbook of Turkey, 1995.

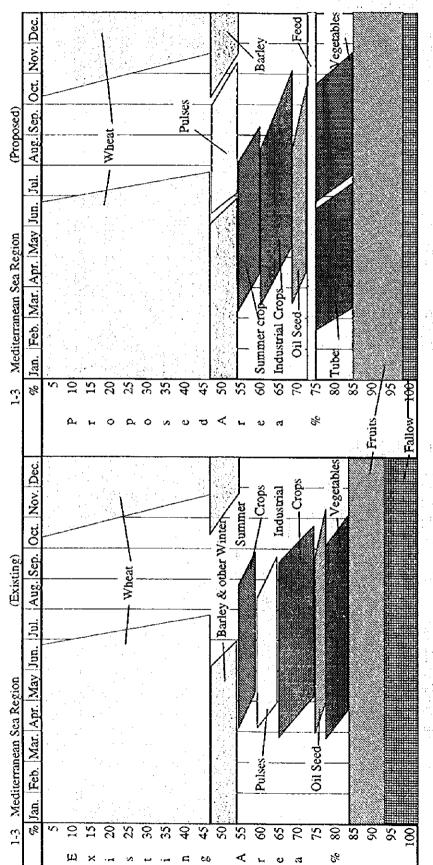


Existing Cropping Pattern and Proposed Cropping Area (%) and Pattern.

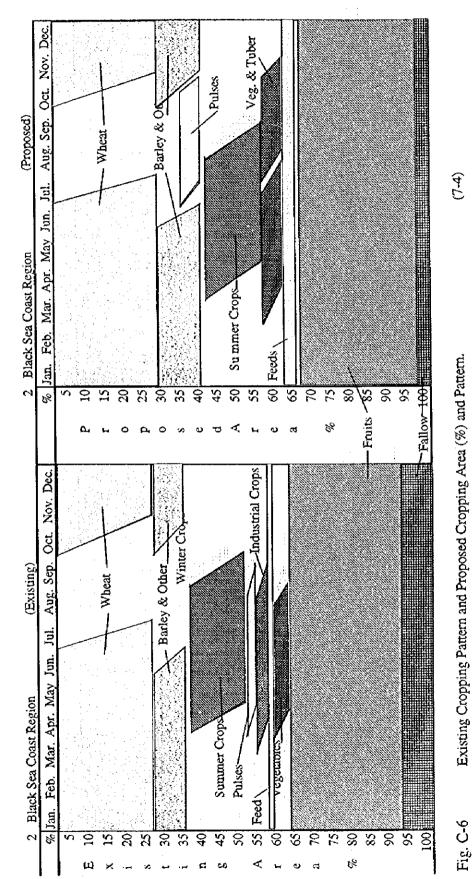
Fig. C-6



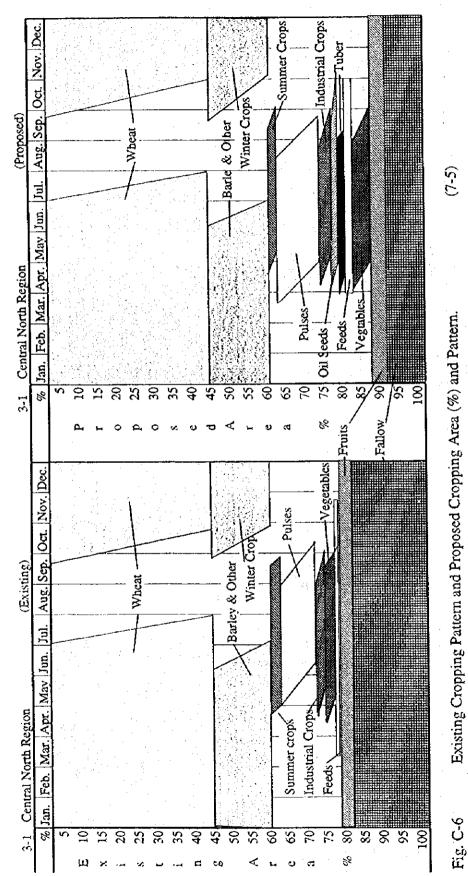
Existing Cropping Pattern and Proposed Cropping Area (%) and Pattern. Fig. C-6



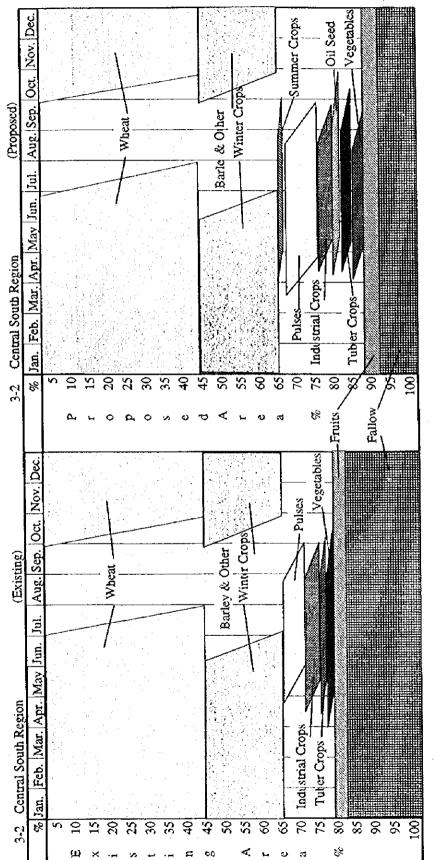
Existing Cropping Pattern and Proposed Cropping Area (%) and Pattern.



Existing Cropping Pattern and Proposed Cropping Area (%) and Pattern.



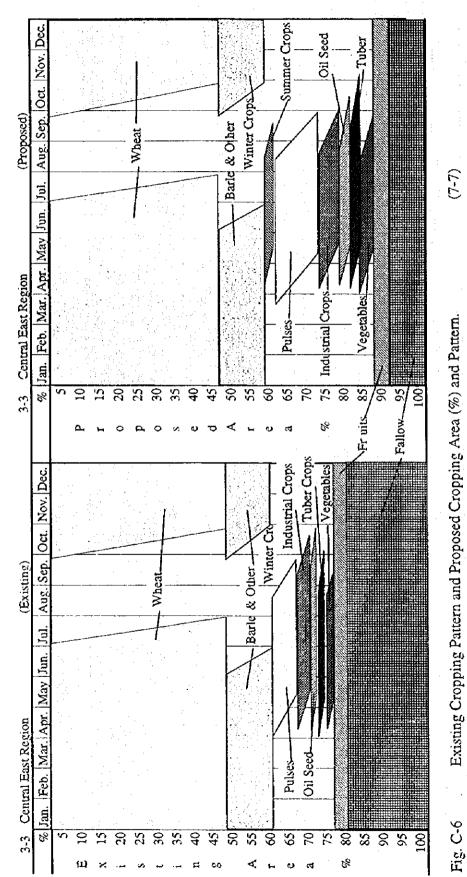
Existing Cropping Pattern and Proposed Cropping Area (%) and Pattern.



Existing Cropping Pattern and Proposed Cropping Area (%) and Pattern.

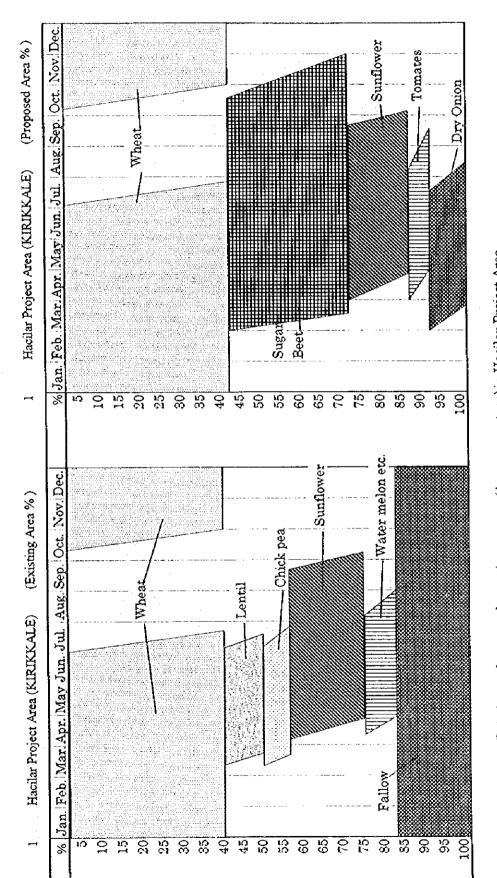
Fig. C-6

(7-6)

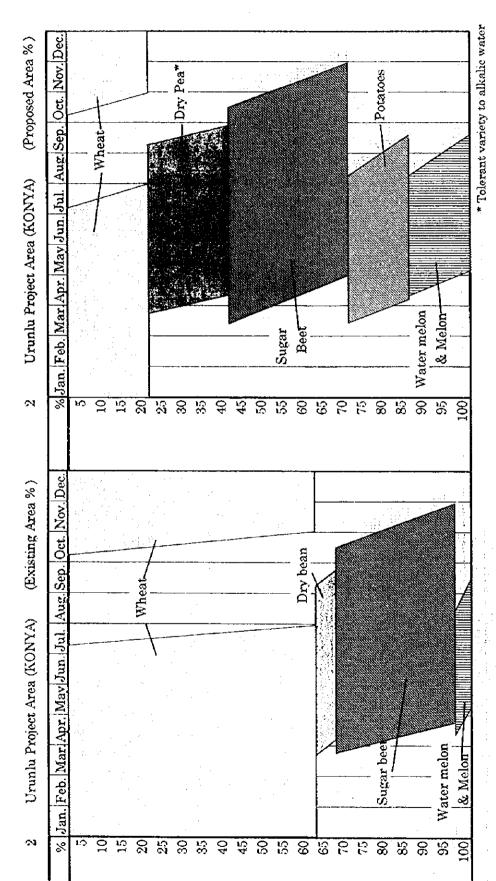


Existing Cropping Pattern and Proposed Cropping Area (%) and Pattern.

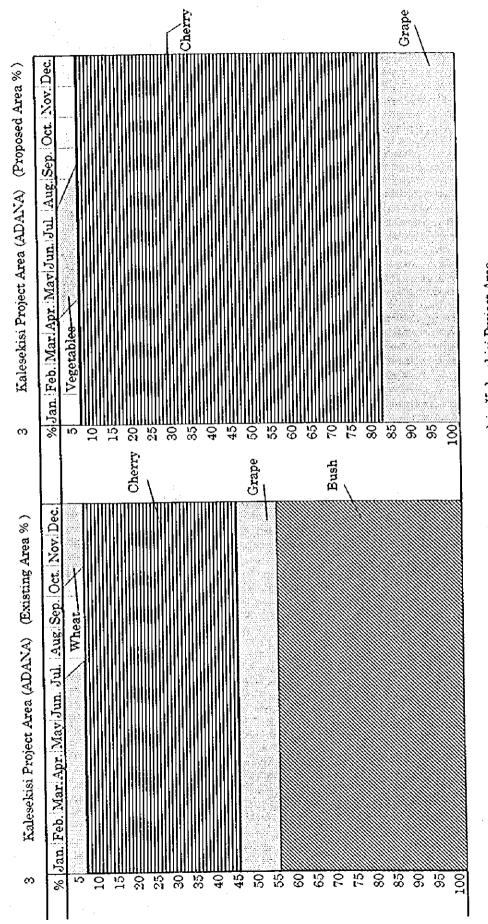
(7-7)



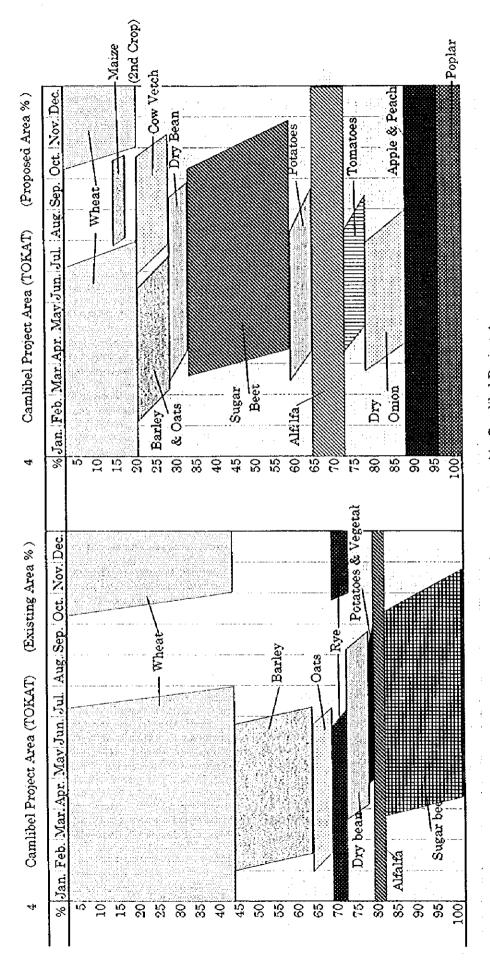
Existing and proposed cropping pattern (Area percentage) in Hacilar Project Area Fig. C-7-1



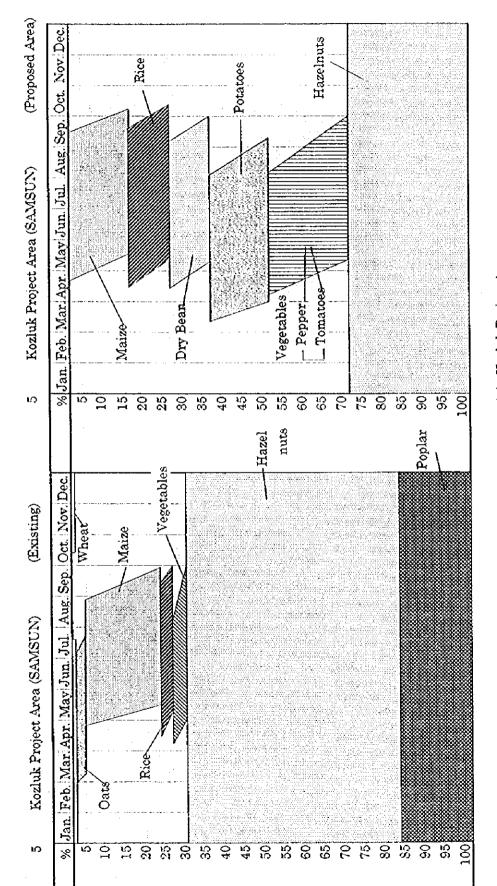
Existing and proposed cropping pattern (Area percentage in Urunlu Project Area Fig. C-7-2



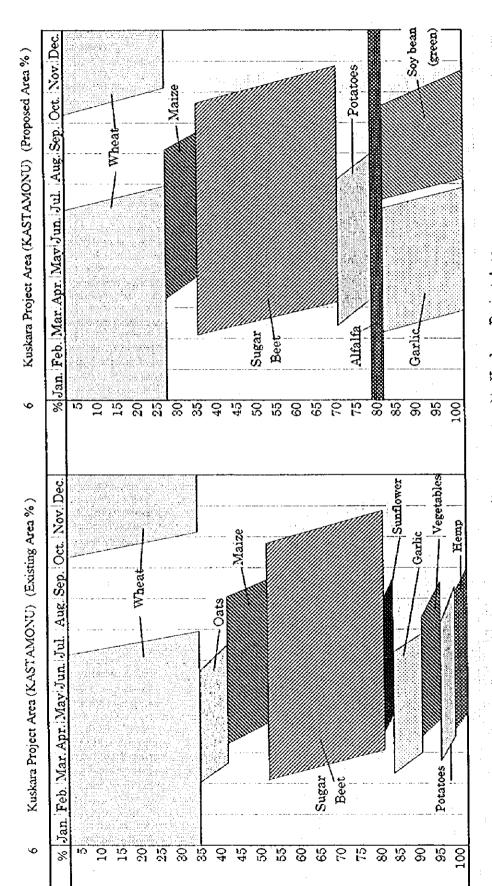
Existing and proposed cropping pattern (Area percentage) in Kalesekisi Project Area Fig. C-7-3



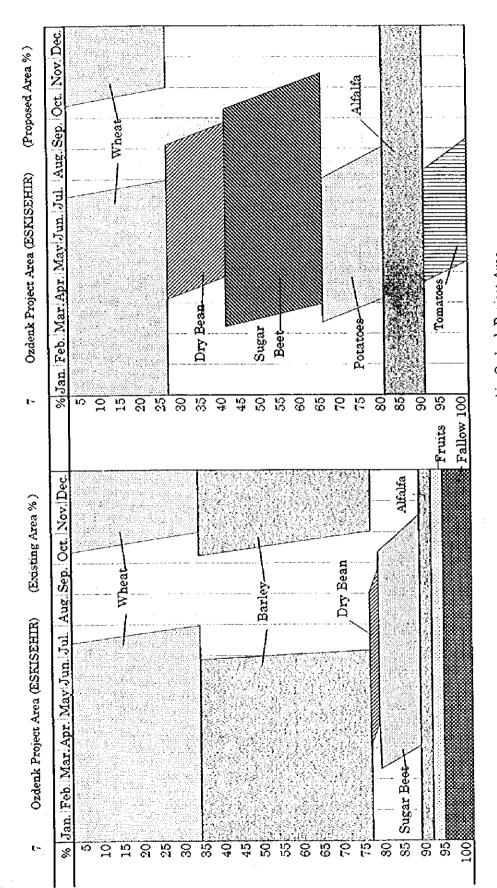
Existing and proposed cropping pattern (Area percentage) in Camlibel Project Area Fig. C-7-4



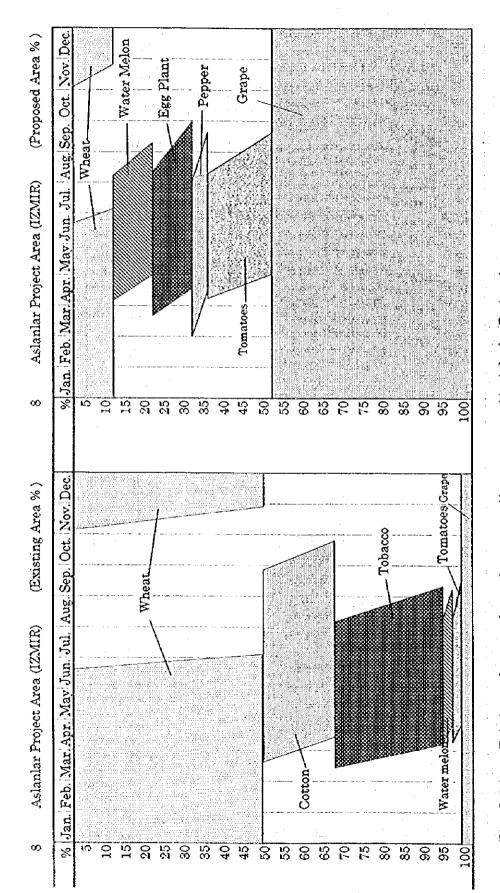
Existing and proposed cropping pattern (Area percentage) in Kozluk Project Area Fig. : C-7-5



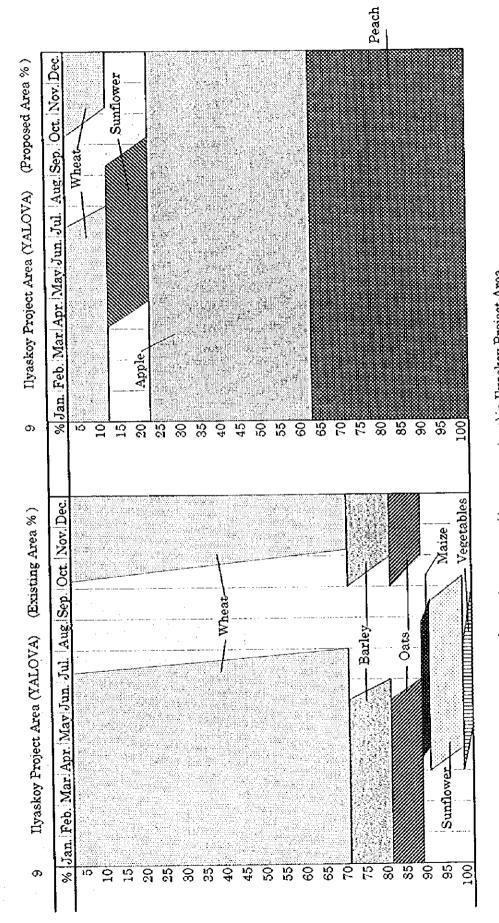
Existing and proposed cropping pattern (Area percentage) in Kuskara Project Area Fig. C-7-6



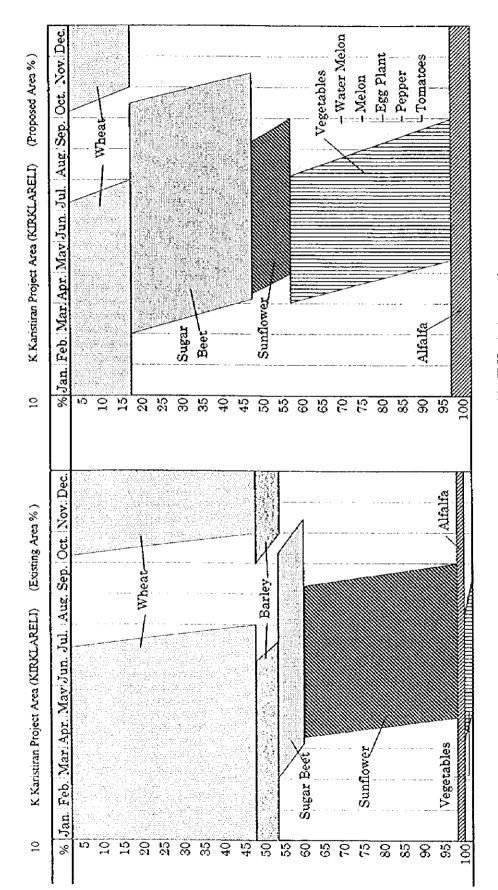
Existing and proposed cropping pattern (Area percentage) in Ozdenk Project Area Fig. C-7-7



Existing and proposed cropping pattern (Area percentage) in Aslanlar Project Area Fig. C-7-8



Existing and proposed cropping pattern (Area percentage) in Ilyaskoy Project Area 0-7-0 Fig.



Existing and proposed cropping pattern (Area percentage) in K.Karistiran project area Fig. C-7-10

ANNEX D

AGROECONOMY/PROJECT EVALUATION

ANNEX D AGRO-ECONOMY AND PROJECT EVALUATION

1.	NATIONAL	ECONOMY
Tat	ole i - I	Major Economic Indicators of Turkey
Tal	ole 1 - 2	Exports / Imports Performance
Tat	ole 1 - 3	Regional Disparity in Turkey
2.	FARM ECO	NOMY SURVEY
Tal	ole 2 - 1	Survey Formats for Sample Households in the Project Sites
Tal	ole 2 - 2	Survey Formats for Village Chief of Nearby Contrast Villages
Tal	ole 2 - 3	Summary on Crop Production
Tal	ole 2 - 4	Summary on Land Holding and Land Use
Tal	ole 2 - 5	Summary on Household Budget and Economic Situation
Tal	ble 2 - 6	Summary on Product Marketing
Tal	ble 2 - 7	Summary on Agricultural Inputs and Implements
Tal	ble 2 - 8	Summary on Farm-Gate Prices
Tal	ble 2 - 9	Surnmary on Farm Properties
Ta	ble 2 - 10	Summary on Off-Farm Activities
Tal	ble 2 - 11	Summary on Farm Financing and
		Correlations among Related Factors
Fig	gure 2 - 1	Illustrative Presentation as 10 Project Aggregate
3.	ECONOMI	C DATA RELATED TO GDRS OFFICIAL REFERENCE
Ta	ble 3 - 1	Trends of Unit Input Price
Ta	ble 3 - 2	Agricultural Credits Available to Farmers
Ta	ble 3 - 3	Credit Amounts Granted to Irrigation Water Users Cooperatives
Ta	ble 3 - 4	Credit Amounts Granted to GDRS Projects in 1995
Ta	ble 3 - 5	Official Conversion Factors by GDRS
	ble 3 - 6	Official Rate of Interests for Farm Credits as of 1997
Ta	ble 3 - 7	Activities of Farmers' Credit Cooperative Union (T.K.K.)
4.	PROJECT	EVALUATION and LINEAR PROGRAMMING ANALYSIS
Ta	ble 4 - 1	Table of Conversion Factors used for Economic Analysis
Ta	blc 4 - 2	Economic Internal Rate of Return for Aggregated Ten Projects
	ble 4 - 3	Financial Internal Rate of Return for Aggregated Ten Projects
	ble 4 - 4	Table of Economic Rate of Return and B/C Rate by Project
	ble 4 - 5	Table of Financial Rate of Return and B/C Rate by Project
	ible 4 - 7	Table of Other Factors Employed in the Analysis
	ible 4 - 8	Table of Linear Programming Analysis
Ta	ible 4 - 9	Table of Profitability Comparison by Linear Programming

Table 1 - 1 Major Economic Indicators

Inflation 6. monthly Consumer, Proc. Indices Inflation 6. monthly Consumer, Proc. Indices Wholesale Price Indices Wholesale Price Indices Wholesale Price Indices Wholesale Price Indices Wholesale Price Indices Wholesale Price Indices Wholesale Price Indices Indices Indices Indices Indices Indices Investment Condentils Value Composition 6. Consumables mills Raw Materials mills Major Export Sectors Investment Condentils Major Export Sectors Investment Condentils Major Export Sectors Investment Condentils Major Indices Investment Condentils Investment Condentils Investment Condentils Investment Condentils	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	83 847	1 1	5.6	2.5	Industrial Production	8,6	0	9	03		11.1	9'2	- }	8.6	11.4
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2	V N V N	80				Drowth Rates	T	CCC	1	- 1	_L	+-	+.	1.	5	8
\$ £ £ 8	~ \$ \$ \$		81.2		88.2	Capacity Utilization	ŝ.	8		79.8	0	77.2	×0.8		•	è
15 6 30 si si si si si si si si si si si si si	δ ຊິ ຊິ ຊິ	A	763	280	203	Cumulative State Budget		1994	1995 C	Oct 96 N	20 % 20 %	Dec.96			140.97 1	75.EU
5 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\$ \$ \$	8.80	8 9	* 25 ES	May-97	Trillion TL Expenditures	-	902.5	1.720.6	2 798.7	3,158.1	3,951.0			2,816.8	3,307.9
E 2 2 2 5	42,464 -19,342 8mill 5 mill 5	8	ğ	12	8	Revenues		751.6	1	2,106.3	2,393,4	2,736.0			2,135.1	2,603
8 E O S E	.19.342 8.mill.\$ mill.\$	4318			5907	Budget Balance	. 8	150.9	316.6	693.3	-744.7	1,215.0			-681.7	-674.2
E S S E	smits mits				_	Budget Cash Balance Sheet		ğ	\$651	8 8	Sep.96	Oct 96 N	Nov.96		(79 m)	74.9
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Raw Materials Investment Goo	mult.5	100			i (Supplied Civ.		102	85.7	274.0	300.	48.	44		1,480.4	1,440.0
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	s Times	10 4	7.6.4		200	MINOR IS				770	2	34	14.0		8	37.7
	ST THE	414	17.4		_	Other sources	+	20	3	000	900	OY /-	A.F.			
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month / period	8	16.	1986	10 966	Q1.97	Billion US\$ Total Debt		55.592	67.356	65.601	3.7.8	19.767				
Balance of Payment Million US\$	6.433	2,631	2339	1. 595.	ä	out of which Long-Medium		42.932	8.83 8.83	¥.	27.577	59,231				
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Refail Run)		1.297	2.776		500	Inlico IL Total		2667	1,361	2,734.7	2,890.9	2963	3,148.9	£0,4	4 8 8	4.556
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		•				Rillion (198 Total Reserves		38.5		25.008		36.359		25.925		
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Former Banks Credits		3.	¥.		8	of w. currency	~	12.391		16.273		16.832		16.590		
Investment Banket Cradite		F	77	25.	£	Company	 5	10,169		738		8.14		7.8 1.8		
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Private Banks		Ę			14/8	MZ. Im note		1,270.4		2,801.7		3,570.7		3,941.6		7.887
Foreign Banks		9	ឆ		31	M2Y0.5m		2,625.5		5,504.6		7,116.8		7,746.1		8,119.5
war / remod = 1994 1995 1996	S S	1	1	1	8	M3.others		1.33.1	,	3,017.3		3,811.0		4,272,7		4.5413
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	6 t	V)	0%	6.7		n millon 56.574		\$6,574	57,834	\$8,935	60,242	61.146	61.941	62.62 23.62	83,186	8
801		4	7	4	1=	ONP.		8	1961	1992	1993	1984	1995	<u>%</u>	561	ori mented
27 121		5.5	7.1			USS/population		2,680	1,621	2,708	3,004	2,184	2759	2.916	988	
					, .	Comp. Comp. Comp.	Booken!	F	RICH	TURIOSH ECONOMY STATISTICS AND ANALYSIS	STATIST	CS AND	CALYSUS			

Table 1 - 2 (1) Position of Agricultural Trade

Unit: million US\$

0.85	6.3%	2,542	40.172	10.0%	2,170	21,643	1996
1.01	6.4%	2,286	35,709	10.7%	2314	21,636	1995
2.31	4.6%	1,067	23.270	13.6%	2,470	18,106	1994
1.51	5.4%	1,578	29,428	15.5%	2,381	15,345	1993
1.74	5.7%	1,299	22,871	15.4%	2,260	14,715	1992
2.20	5.9%	1,241	21,047	20.1%	2,732	13,593	1991
1.31	8.2%	1,823	22,302	18.4%	2,388	12,959	1990
1.85	7.3%	1,149	15,792	18.3%	2,126	11625	1989
3.93	4.2%	596	14,336	20.1%	2,341	11,662	1988
2.65	4.9%	700	14,158	18.2%	1,853	10,190	1987
3.14	5.4%	601	11,105	25.3%	1,886	7,457	19861
3.06	5.0%	295	11,343	21.6%	1,719	7.958	19851
Agr.Exp/Imp		Agr.Imports	Total Impor Agr.Imports rateA/T		Agr. Export	Total Export Agr. Export rateA/T	

note: 1996 data is estimate from the first half of the year, provisional

source: monthly bulletin of statistics of Turkey

Breakdown of Agricultural Trade into Major Commodity Groups Table 1 - 2 (2)

Unit: thousand US\$

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	č	ò	900			220	2		1996	280			_	707	101	11,5	3
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		Amianless	New Manual Commonting	Er. Not E.	il (4) I	(4) function(4)					Agncula	Agricultural Commodity	odity C	composition of Exports	ou of EX	ğ	
		AKIKEMEE		1							[10000			lemine	Share
vear	live	meats	dairy	cereals	fruits	sugar	animal	others	year	live	meats	S care	crears	Simir	7		2
			and of the same		venetable	2	feeds			animals		products		vegetables		teeds	
	21111112		1									***		0.0	ACT.	Š	70
6001	ç	2	66.	433	1 503	36,5	-102	179	1992	3%	38	§	13%	2,4	5,4	9	5
133	1	ē	1	f				:	_		5.	Š	03	270	600	٤	jo.
1002	181	Ų,	61.	۲,	_		88	282	252		0,1	9 >	2	5	,	>	
12.5		>		•			_			200	10.	200	707	300%	ئ ك	000	69
100	200	66	7	216		312	F.	203	X	8,4	7.0	9	2	2	2	2 2	. (
		22	2	ć	8		5	246	188	200	%0	%	80	41%	400	% •	0/2
2	Y17-	?	21.	171				•			ì	ţ	Š	2020	20%	200	ò
100	381	4	οç	•636		8	158		28	2%	0%]	1.70	2	07.00	0,0	0.70	Ì

Recent Export Prices, Freight Charge and U.S. Farm-Gate Prices Table 1 - 2 (3)

			Internation	International Market Prices	Prices					ļ	-	unit: US\$ / ton	/ ton
100,000	1110	17.6	811	Aroemine		Thailand		LS.A.	I.S.A. Middle East #		-	U.S.	U.S Black Sea
county ongu	Suppost #	33.76	things.	wheat	maize	95	broken	sugar,	maize exception wheat maize rice ribroken sugaria Urea D.A.P. T.S.P. cotton	A.P.	S.P.	otto	ship-freight***
year /month	744		701	216	8	365	S	37	195	195 236	175	٠.	30
1990 MARK	00.	200					23	338	157	215	173		15.5
1997 Marca	2007		VI.	, <u>6</u>	112		217		9	22.1	169	175	15.5
1997 WAX	107	أ			ı								
note: # April insread of March	of March		* hard, red	* hard, red winter No.2	~	** International Sugar Agreement price	onal Sugar	Agreemen	buce				

unit: US\$ / ton	raw sugar sunflower seed	1995 320 480		/8° 966I	1997 243 \$11
	potatoes	123.4		111.6	102.2
	sweet cherry	07.7	7,14	1,382	1,617
Gate Prices	hazel-mit		3	913	090
U.S.Farmers' Parm-Gate Prices	fresh grape	l	355	379	746.6
	fresh smile	ŀ	8	373	
	2000	civity year	181	9001	

Table 1 - 2 - (4-1) World Farm Commodity Trading by FAO Trade Year-Book

traded	World Area			1 M I	OR	T S		T		ΕX	POR	T S		
commodally	or Country		1991	1992	1993	1994	1995	ачетаро	1991	1992	1993	1994	1995	ву стърс
wheat	World	Quantity	£17.3	121.5	1160	109.5	113.7	115.6	120 2	1229	119.3	113.9	115.1	1183
		Value	17,601	21,038	18,677	17,430	21,860	19,321	15,915	19,013	17,062	15.058	19,360	17,282
		unit price	150	173	161	159	192	167	132	155	143	132	168	146
	Entobe	Quantity	17.98	1989	31.07	2251	24.77	23 24	39.77	41 29	3910	3585	4076	39.35
		Value	4,287	4,760	5,903	4,130	4,990	4,814	6,391	7,540	6,561	5,636	7,201	6,666
1		unit price	2.38	239	190	183	201	207	- 161	183	891	157	177	169
	Turkey	Quantity	198	60	1,221	496	1,253	646	3,171	4.089	1,175	1,765	1.119	2.264
		Value	22 2	9.0	178.9	76.0	245.7	106	3203	446.9	157.5	1961	168.1	258
		unit price	112	150	147	153	196	165	101	109	134	111	150	114
	France	Quantity						I	19.73	19.76	20.99	15.02	1870	188
	i	Value						l	3,144	3,699	3,470	2,369	3,418	3,220
		unit price							159	187	165	158	183	171
rice	World	Quantity	12,933	14,737	15,925	17,644	21,289	16,506	13,140	15,836	16,785	17,944	23,430	17,427
		Value	51/83	5833.6	5608.0	71247	76001	62689	4476.1	5269 3	5109.9	6197.9	7292.0	5669.0
, i		unit price	400	396	352	404	357	380	341	333	304	345	311	325
	India	Quantity							6783	580.4	757.7	890.6	551 2	691.6
		Value							3098	370.7	266.2	533.1	564.3	406 8
		unit price							457	639	351	599	1,034	591
	Tuckey	Quantity	132.8	264.6	289.4	195.7	300 I	236.5						
	_	Value	415	92.7	858	56.3	109.4	77.1						
		unit price	313	350	296	288	365	326	:					
barley	World	Quantity	21,406	22,672	17,163	22,600	21,023	20,973	22,850	23,570	17,198	22,360	19,941	21,184
! 1		Value	3.082	3,466	2522	2,746	3,163	1996	2,982	3,299	2,320	2,444	2,724	2.754
		saine feau	144	153	147	122	150	143	331	140	135	109	137	130
	Europe	Owantity	6019	5.028	7,208	6,108	7,470	6367	14,020	16130	10,300	11,540	11,776	12,753
1	20.070	Yalue	1,298	1,170	1,195	912	1,318	1178	1,066	2,500	1,503	148	1,822	
	· ·	unit price	216	233	165	149	176	185	147	155		-		1,867
	Turkey	Ouantity		2.3	103	149		,63			146	125	155	146
	103863	Value					·		780.7	827.2	25.5.9	793.0	6743	666.2
			1 (nzimi	exports of	MINDSO K	leed bed	ey only.		69.0	ഒ.9	23.4	48.6	463	51
1		anit price							88	82	91	61	69	77
	Italy	Quartity	699.7	470.0	597.3	484.3	7043	5911						
		Value	164	113	113	91	144	125	i .					
	l_	unit price	234	240	189	188	205	212						
	France	Quantily							4,509	5,378	5,182	2,342	2,921	4,066
	1	Yatue	l						708	927	768	534	571	702
		onit price	 						157	172	148	228	195	173
maize	World.	Quantity	66,185	72,504	68,954	63,298	76,476	69,483	66,134	72,673	67,811	65,024	78,118	69,952
	l	Value	10,053	11,137	10,221	9,875	12468	10,731	8,750	9,747	8,710	8,636	10,870	9,343
	l	umit price	153	154	147	156	163	154	132	134	128	133	139	134
	France	Quantity	f						4,777	7.042	7,758	8,009	6,474	6,817
		Value							1,420	1,911	1,756	1,655		
	ŀ	1											1,640	1,676
		unit price	l						297	271	226	207	253	246
	Turkey	Quantity	76.5	135.7	101 9	14.9	624	783						
		Value	11 36	18 54	16.01	3.75	925	31.78	ł					
		unit price	148	137	157	252	148	151	1					
potato	World	Quantity	7,779	7,676	7.063	7.603	7,393	7.508	7,692	7,604	7.342	7,952	7,275	7,6()
ļ' ` ` `		7	1	-	-	•	-			-			,	
1	1	Value	2,046				2,584		3,862	1,5 8			2310	1,761
ł		unit price	263	741	195	247	350	260	236	208	175	223	318	231
	Saudi Arabi	Quantity	1300	137.1	116.4	995	80 0	1106	1	•		: .		
	l	Vztur	33 50	31.74	27.89	23 34	24 00	28 09	1					
	Ì	unit price	258	250	240		300		l .		. :			
1	T	i '	1						f					
1	Torkey	Quantity	1						219.5					1
		Value							42 90			36.87	23-87	40 54
	ļ	unit price	4						195	136	197	[6]	231	173
Surflowe	World	Quantity	1942 4	2490 8	2109.3	2797.5	32811	2524.2	1960 4	2502.4	21516	2912.3	3330 6	2571.5
	1	Value	983	S41					į.					
]	}		1			•			ł					
1	1.	unit price	480	318	317	2 363	355	373	1					
1	China	Quantity	1						25 2	15 (64.6	353	105	30.1
		Value	1						8 40	2.81	15 33	15 99	512	9.72
1	1	unit price	1						333	186	238	480	486	323
1	Turkey	Quantity	#9.00	97.7	7 66 0	? 94 66	35704	13291	t					
1	"""													
1	1	Value	11 93						Turkisa	emports	maniy fr	oes east b	na calor bas	JOURE.
L		unit price			2 28	9 318	33	300	5		<u> </u>			·
	I O Take V		302 1006											

source: FAO Trade Year Book 1993 - 1995

semarks fertilisers and meats are also available in another sheet

Table 1 - 2 - (4-2) World Farm Commodity Trading by FAO Trade Year-Book

traded	World A	re a		1 M P	OR:	T S				ΕX	POR	T 5		
commodity	or Countr	<u>y</u>	1991	1992	1993	1994	1995	VETAGE	1991	1992	1993	1994	1995	versec
tomato	World	Quantity	2435.4	2409 8	28268	29493	31839	27610	2437.0	23350	28923	3227.2	3393 5	28570
		Value	22908	21753	2363.7	25398	2709 B	2415.9	2002 1	19596	21653	25863	27969	23020
		unit price	941	903	836	961	851	875	822	839	749	801	824	806
	lordar	Quantity						- 1	133 5	166.4	1267	1009	135.7	1326
		Value							32.2	314	23.4	26.7	24.8	27.7
	Turke	unit prior	·						241	189	184	265	187	209
,		Value							106 6 29 3	45.1 12.4	77.3 33.9	3160 41.9	98.5 37.6	888.7 31.0
,		unit price							275	275	439	361	382	350
	Saudi Ara		136.5	1093	172.5	151.9	160 0	158.0						
		Value	603	623	41.5	36.5	36.0	473						
l		unit price	442	368	240	240	225	299						
onion	World	Quantity	2410.7	2572.9	26023	3396.4	3391.4	2874.7	2693 2	2562.7	26678	3613.3	3464.0	3000 2
		Value	883 2	10283	784.5	1167.6	1305.3	10348	748.5	7172	746.6	1087.6	1205.9	901 2
		धार्डी क्रांटर	368	400	301	344	385	360	278	250	280	301	348	300
ĺ	Saudi Ara		131 1	1228	218.3	1791	200.0	1703						
İ	1	Value	30.4	211	40 2	33.7	36.0	323						1
ļ	Turke	unit price	232	172	184	188	180	190	163.4	194.2	113.5	627	111.8	129.1
!	10,86	Value							163.4 49.3	56.6	17.8	125	111.5 20.8	32
ļ		offit price						Į	302	302	157	199	187	246
apple	World		3951.4	3943.4	44063	4373.3	48419	4303 3	3859 9	3887.0	4640 5	47317	51601	4456.0
١		Value	2,810	3,060	2,219	2,733	3,255	2815	2,452	2,460	2,091	2,463	3,008	2,495
1]	unit price	711	776	504	625	672	654	63.5	693	451	520	583	560
1	Saudi Ar	Quarkity	1346	117.6	1420	120.5	130 0	128.9						
		Value	518	36 0	50 2	40.4	52 0	46.i						- 1
,		unit price	385	306	354	335	400	357						
ļ	3190	Quantity							60.0	940	2158	190 2	1500	142.6
1	1	Value							7.2	13.2	22.7	19.1	300	18.4
0000	100 000	unit price Quantity	16728	1764.3	1781.7	1995.4	1838.9	18106	1603.9	140	105	2067.8	200 1883.9	1855.7
grabe	W 011	Value	1,975	2016	1,869	2,156	2,252	2,054	1,598	1,609	1,663	1,882	1,928	1,736
1	1	urát price	1,181	1,143	1,049	1,080	1,225	1,134	996	909	852	910	1,623	93.5
1	German	Quantity	3781	1012	336.6	380.7	319.6	363 2					• • • • • • • • •	
i	1	Value	429 2	434.7	329.7	386.6	3766	391.4						ļ
1	1	unit price	1,135	1,083	980	1,016	3,178	1,078]
1	Spain	Quantity							1144	124.1	127.0	92 2	911	109.8
		Value							1054	3149	107.0	918	109.9	1058
	<u> </u>	unit price	<u> </u>						921	926	\$43	996	1,206	963.9
raw	Worl	Quantity	28,202	30,315	28,327	29,081	32,034	29,592	29,741	10,665	29,755	30,029	35,5%	27,153
sugar	1	Value	11,843	11,386	9,669	10,473	13,430	11,360	10,554	10,665	8,854	9,713	12,864	10,530
1	1	unit price	420	376	3-41	360	419	384	355	1000	298	323	362	388
	Torks	Quantity							2986.4	38688	22658	2672.5	3842 6	3127.2
}		Value	1						5993	744.9	481 2	684.0	11547	732 8
1	1	acif price	.1						201	193	212	256	300	234
1	Saux 4	.r Quantity	47.1	50 \$	48.9	56.5	51.4	50.9						
ĺ	"""	Value	165		13 2				1					
1	1	1												
	+	unit price							-	6747.3	5850	5905 6	5691 2	5,799
cotton	wo!!	Quantity	4977.4											
lint	1	Value	8807.1						1	6747.3				
		unit price							 	1000 0	11347	1403.8	17941	13654
1	Tark	e Quantity							1					
1	1	Value	101 4						3					
1	1	anii price	2190	2.52	1092	1625	2087	135	1					
	Cote di	v Quantity	1						658	66.5	951			
	1	Value	1						139 1	1101	135	137.5	1383	132
		unit pric	•						2,114	1,656	1,420	1,375	1,5%	1,612
cotton	Wor	l cQuantity	4224	682	758	903 1	701 1	673.	4 455 1	6133	712 5	825	725.1	666 2
grain	ĺ	Value	84 7	135.5	143.9	1521	152.9	133.	793	103 8	1080	131:	5 1324	6110
1	1	onel pric	1							169	153	159	183	167
	7 11.62	Quantity	1) 0					1					
	' " '	Value	· ['	•	162				1					
	1		. [.	, (i					
L		unit pric	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	. 420	. 131		#1	<u> </u>					

Table 1 - 3 Regional Disparity in Turkey

unit: 1,000 household, million TL/month

		· • · · · · · · · · · · · · · · · · ·	1994	:	
Region	Loca-	number of	consumption	d.o. per	% for
	tion	households	expenditure	household	cultural A.
Marmara	Western	3,536	42,869	12.12	36.1
Еge	South Western	2,111	18,301	8.67	32.8
Akdeniz	Southern	1,676	14,166	8.45	34.3
le Anadolu	Central	2,389	21,289	8.91	31.7
Dogu Anadolu	Central East	943	6,833	7.25	22.1
Karadeniz	North Eastern	1,704	14,134	8.29	31.5
Guney Dogu	South Eastern	983	5,872	5.97	19.7
Anaolu					
Total of Turkey	,	13,342	123,464	9.25	32.6
	Per Capita	Gross Domes	tic Product	by Region	
	Five Year Mean	1992	1993	1994	1995
Western	3,659	3,760	4,057	2,996	3,782
South Western	2,966	3,059	3,301	2,466	3,054
Southern	2,530	2,544	2,866	2,153	2,656
Central	2,521	2,502	2,892	2,133	2,670
Central East	1,910	1,941	2,179	1,548	1,918
North Eastern	1,768	1,679	2,089	1,433	1,909
South Eastern	1,117	1,166	1,285	887	1,143
Total of Turkey	2,644	2,724	3,033	2,145	2,682

note: five year mean includes 1991 value, expense for cultural A(activities) include education, furniture, entertainment, habitual consumption etc.

source: statistical yearbook of Turkey, 1996

Table 2 - 1 Format for Farm Economy Survey in Turkey

. Location	Province	- 	Village		Project	
. Acreage Holding	Total H	olding	Rainfed		Imigated	
	Fallow		on Lease	2 4 4 4 4	on Rent	
	owned I	and Area	No. of Parc	el	Fertility	
. Labor	Family	Member	Farm Labor		Hired or no	t
Men / Women	Young	(15-49)	Old (50 -)		Children (7	-14)
Livestock	Cow	Buffalo	Sheep	Goat	Chicken	Duck
	CrossBre	ad Cow	Improved Eu	ropean Cow	Horse	
. Machinery	Harvest	eε	Tractor	1141	Pump	
and Facility	Manure	Spreader	Thresher		Sprayer	
Bullock (Draught Animal)	Oxen	***************************************	Horse			
. Implements	Pick-up	Trailer	Green/Pipe	House	Stable/Cag	e House
7. Annual Production	Winter Cereal	Summer Cereal	Industrial	Feed Crop	Vegetable	Fruit
acreage						
tonnage / unit price TL per kg		å	0			
value/farm-ate price Mil. TL						
3. Annual Inputs	5	Seed/Stock	Ferti	lizers	Che	micals
quantity			B. ************************************			
value/ unit price Thousand TL			•			
Annual Inputs	I	inergy/Fuel	Hire	d Labor	Materi	als/Feeds
quantity	<u> </u>	4+44.885444489+>>+FatFatFatFa0				
value/ unit price Thousand TL	i	***************************************	***************************************	•••••••	-	
9. Product Disposal	•	Cereal	Industri	al Crops	Cash	Crops
Quantity home consumed	7	***************************************	(\$41,530,525 man (100 Pet 11	9444-11:9+9P4-9FE-11:9-11	**************************************	+1111
10. Annual Expenditure	Rent	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Loan Interes	it	Tax	%
TL or in kind (grain kg)	1	***************************************	•	***************************************		**************************************
Annual Expenditure	Inpu Purcha	it Fee is Purchasing	d Househo	ld Expense	Labor Payment	Others
Million TL			1			
11. Annual Household Income	Pro	oduct Sale	Labo	r Service	Off-Far	m Income
Million TL		, 5-010106171-1-070111				
12. To whom do you sell	TN	AA/Mills	Middl	emen	Self-V	ending
13. Financing Sources for Farm	Se	lf-Savings	Loans fr	om Z.Bank	Credit fr	om Broker

Table 2 - 1 (2) Format for Farm Economy Survey in Turkey (contd.)

14. How much TL is required to sustain standard living in your village?	per household
15. Can you borrow money if it is needed due to poor harvest / sick etc.?	from
16. Why is it difficult to borrow funds from Z. Bank or Cooperative Union?	due to
(lack of mortgage, low ability for repayment,	
17. Have you ever borrowed money from merchant, cooperative etc. ?	yes, no, from whom
18. Can you expect to increase your income by an irrigation project?	yes, no or unknown
19. Do you think it necessary/desirable to establish a sales cooperative?	yes, no or unknown
20. Do you satisfy with the price level offered by middlemen, TMA or mills	
21. What crop or livestock husbandry is profitable now in your village?	
22. What difficulty or constraints are you facing to employ profitable farming	?
23. Do you think your present owned land is not enough to sustain family?	No, yes
24. How much dekar do you want to own for cultivation (current holding ha	:
25. Do you want to buy farm machinery or draught animal to save labor?	yes, no, what kind
26. In your farmland can family labor meet the whole labor requirement?	yes, no
27. If you have surplus labor force in your family, how do you utilize it?	off-farm labor etc.
28. Are you engaged in food processing, handicraft or other cottage industries	? yes, no, what kind
29. What kind of off-farm income opportunity is available in your village?	**************************************
30. Have any of your family member left home/village for job/working?	yes, no, what kind
31. Are you dependent on any remittance from your family members?	yes, no, how much
32. Have you any experience in the following activities in or out of village?	no. yes what kind (
(a) itinerary / roadside vending of your farm/forest products (b) apiary (c) fish	culture (d) shepherd
(c) sericulture (f) business transporters for farm produce (g) wine/raki brewing/	distillation
(h) slaughtering of livestock (l) cottage cheese production (j) broiler / cage bat	tery for egg production
33. If you are engaged in the above listed job, how do you participate in it?	(a) (b) (c)
(a) as your own enterprise (b) hired by your neighbor (c) as a member of group	p/ firm/ cooperative
34. How do you keep your livestock in winter? (a) feeding straws/beetroots	
(b) feeding cereal grain you produced (c) buying foodstuff (d) sending to feeders	s (c) %, (d) %
35. Where do you sell or buy livestock and feeds? (a) weekly animal fair,	(a), (b), (c), (d) or
(b) merchants/middlemen, (c) through cooperative, (d) through public service	others ()

Table 2 - 2 Format for Additional Farm Economy Survey

This format is used for additional interview to the village chief where an irrigation project has already been implemented in the vicinity of the site of a priority project under survey.

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
When was the project completed and how many dekars are irrigated now?		
2) What are the main crop rotation patterns employed in the irrigated fields?		
(s) sugarbeet, (v) vegetables, (c) cotton, (a) sunflower, (f) clover, (o) fruit trees etc.		
3) What crop species do you grow in rainfed (unirrigated) fields? grain, pasture etc.	<u></u>	• • • • • • • • • • • • • • • • • • •
4) How are the differences between crop yields under irrigation and those on rainfed cond	ition?	
(a) crop name; irrigated kg/dekar : r.f kg/dekar, (b) crop name; irrigated kg/d	lekar : r.f	kg/dekar
(c) crop name; irrigated kg'dekar : r.f kg'dekar, (d) crop name; irrigated kg'de	ekar : r.f	kg/dekar
5) How could you reduce drought damage after irrigation ? (a) before project; times p	per decade	e, %of
drought damage against normal year, (b) after the project; times or no damage, or	or reduced	by %
6) What new crop species have been introduced since the initiation of irrigation?		ha
7) Out of the total crop acreage in your village how much % came under irrigation ?		%
8) Can you receive enough water for irrigating all the planned acreage? planned/actual	ha	ha
9) From what month to what month do you irrigate for your crop? from		to
10) What kind of energy sources are used for lifting/distributing water to the fields?	kerosene	electricity
11) How much do you now pay for electricity or fuel supply in thousand TL per unit?	/litre	/kwh
12) How much does it cost for irrigating a dekar for month or for the total season?		
13) How and when do you collect irrigation fee from the beneficiary farmers? before the	season	monthly
by water users' association manager / accountant, by village chief (muftar), or by other	r means	
14) How do you charge irrigation fee to the users? (a) by area(dekar) irrigated, (b) according	ording to	number of
days (period) of water supply to the field, (c) according to harvested crop yields, (d) by	other met	hods
15) Can you collect water fee from all the users, or some cannot pay or fail to collect?	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	%
16) What kinds of regular maintenance work are necessary to keep the facilities in proper	conditio	n ?
(a) overhauling pumps, (b) greasing, (c) cleaning water channels, (d) mud-flushing in a	night rese	rvoirs etc.
17) Who are responsible for maintenance of irrigation facilities ? (a) water users' associa	ition, (b)	village
chief (mustar), (c) representative of farming groups, (d) DSI officials, (e) others	**********	*******************
18) Should every user participate in regular maintenance work, or can be entrust others to	o do work	?
19) How is the cost for repair / renewal met? (a) by user's payment, (b) by official budge	t, (c) by p	sayment of
water users' associations (d) by the saving for this purpose among users, (e) by other me	ans	d.c.,
20) How was the water users' association organized and how many members constitute it	?	
21) Is there any problem arisen from water utilization or fee collection?	yes	no
Abstraction and a second and a		

Table 2 - 2 (2-1) Questionaire Results to the Village Chiefs near the Priority Project Sites

111					
111	1	Q1	Q1	Q1	Q2
111	DAIRAT	Year of Completion	Irrigated Acreage	Total Cropped Acreage	
2	PROJECT		Decare	Decare	
211	GRIKKALE	1980s	90		VegSunfWheat
٠١.	ORIKKALE (rainfed area)	1980s	600		1y.vegetables -1y.wheat
	NDANA	1994	2,000		Cherry
	CONYA	1996	65,000	15,000	sugar beet - wheat
5 1	rokat .	1980s	80	8,000	cer-sugarbeet-bean-allalla
6 5	SAMSUN (rainfed village)	1980s	0	140	Hazeinut
7[H	CASTAMONU	1993	34	1,200	sugarbeet - gartic - wheat
8]+	(ASTAMONU(rainfed vil.)	19 8 0s	10	1.200	sugarbeet-garlic-hemp-potato
918	ESKISEHIR	1983	900	8 000	Suga beet - Animal feed
	ZMIR	1994	90		cereal-vegetables
111	/ALOVA	1978		300	Fruit (apple and others)
	KUCUK - KARISTIRAN	1978		2,500	sugarbeet-sunfower-alfalfa
-	33				
	23	Q4	24	Companson of Crop Y	ield by Irrigation or not
	Crop Speciew Rainfed Cropped	Major Crop I Name Acreage	Major Crop II Name Yield	Major Crop I	Major Crop II
		Name Acreage	Name Yield	Irrigated y. rain-fed y	lmigated y, rain-fed y.
	3arley-wheat-sugb-chpe.				4.0
	Cereals	Cereals			minimum yield 10-15 kg/da
3	Vo yield on dry condition	Cherry fruit	grape		3-4lons/da 2tons/da
4 0	ereals	sugar beet	wheat	7Vd 1Vd	500kg/da 100kg/da
5 (Cereals	Sugarbeat	cereal		300kg/da 75kg/da
		Hazelnut	I	400 kg/da 70kg/da	
	Cereals	Sugarbeat	i .	5-10 t/da 1-2t/da	
	Meat	Sugarbeat	garlic	8 Vda 1-2Vda	1 5040
	rmear Barley-wheat		iyai iib		7.77.74
	baney-wnear Cereals	Barley-Wheat	1400k- 45	400-500kg 200-300k	
			400kg - 150kg		21 / 100kg 0.3t - 0Vda
	Mieat-Yulai-olive	Wheat		600kg/da 200kg/d	
12]	Mheat-Sunft-Poputar	Wheat	Dry Onion	600kg/da 350kg/d	3.5l/da 1.5l/da
		*; tomato, pepper, bi	rinjal		:
77	24	irrigated	rain-fed	05	
	oroduction	yield rate in kg	yield rate in kg	Drought	
╗	Wheat	280	160	2-3times	
'I	Watermeton	4,000		2.2611692	
۰			850	.	
2	Wheat	400	250	chronically drought	
3	-		1	[1984 to 1994 they do n	of know the not of drought.
		ř	1	After1994 till 1997 no d	lrought season.
4	•			1986 to 1996 no dry se	
- 1					
5	•			! -	
5	•			!-	
5 6	-			. -	
6	- Codio 11	40.500	2500		
	Garlic **	10,500	2,500	3 times	
6	- Garlic ** Hemp	10,500 200	2,500 100	3 times	
6				3 times	
6 7 8	Hemp	200	100	•	
6				3 times - 5 times	
6 7 8 9	Hemp	200	4,000	5 times	
6 7 8	Hemp	200 7,800 2,000	100	•	
6 7 8 9	Hemp - sugarbeat	200 7,800	4,000	5 times	
6 7 8 9	Hemp sugarbeat Pepper Brinjal	200 7,800 2,000	4,000 100	5 times	
6 7 8 9	Hemp sugarbeat Pepper Brinjal	200 7,800 2,000	4,000 100	5 times	
6 7 8 9 10	Hemp sugarbeat Pepper Brinjal	200 7,800 2,000 3,000	4,000 100 0	- 5 times 1 times	
6 7 8 9	Hemp sugarbeat Pepper Brinjal	200 7,800 2,000	4,000 100	5 times	
6 7 8 9 10	Hemp sugarbeat Pepper Brinjal	200 7,800 2,000 3,000	4,000 100 0	- 5 times 1 times	
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet	200 7,800 2,000 3,000 7,500	4,000 100 0	- 5 times 1 times - only 1942 1 time	
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet	7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time	!08
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet	7,800 2,000 3,000 7,500	4,000 100 0 600	- 5 times 1 times - only 1942 1 time	
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet	7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time	enough water or only partly co
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet	7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time	enough water or only partly co by the scheme due to shortage
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet	7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time O7 irrigation coverage in 9 of the total farmland A few area is irrigated	enough water or only partly co by the scheme due to shortage
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet Q6 What new crop species was a sugarbeat - water melon-	7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time O7 irrigation coverage in 9 of the total farmland A few area is irrigated % 100	enough water or only partly co by the scheme due to shortag
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet Q6 What new crop species was ugarbeat - water melononly grape and cherry is	7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time O7 irrigation coverage in 9 of the total farmland A few area is irrigated % 100 % 56	enough water or only partly co by the scheme due to shortag
6 7 8 9 10 11 12	Hemp sugarbeat Pepper Brinjal Sugar beet O6 What new crop species was a sugarbeat - water melononly grape and cherry is sugar beet	7,800 2,000 3,000 7,500	4,000 100 0 600	only 1942 1 time Of irrigation coverage in 9 of the total farmland A few area is irrigated % 100 % 56 %100=%50 by the project	enough water or only partly co by the scheme due to shortag
6 7 8 9 10 11 12 3 4 5	Hemp sugarbeat Pepper Brinjal Sugar beet Q6 What new crop species was ugarbeat - water melononly grape and cherry is	7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time O7 irrigation coverage in 9 of the total farmland A few area is irrigated % 100 % 66 %100=%50 by the proj % 100	enough water or only party co by the scheme due to shortag - 3000d planned -2000d irrigate 35000d planned-35000d irrigate
6 7 8 9 10 11 12 3 4 5 6	Hemp sugarbeat Pepper Brinjal Sugar beet O6 What new crop species was a sugarbeat - water melononly grape and cherry is sugar beet Fruit - vegatables	7,800 2,000 3,000 7,500	4,000 100 0 600	only 1942 1 time Official in the total farmland A few area is irrigated % 100 % 66 %100=%50 by the proj % 100 own land	enough water or only partly co by the scheme due to shortag
6 7 8 9 10 11 12 3 4 5 6 7	Hemp sugarbeat Pepper Brinjal Sugar beet Q6 What new crop species w sugarbeat - water melononly grape and cherry is sugar beet Fruit- vegatables maize 100 ha	200 7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time O7 irrigation coverage in 9 of the total farmland A few area is irrigated % 100 % 66 %100=%50 by the proj % 100	enough water or only partly co by the scheme due to shortag - 3000d planned -2000d irrigate 35000d planned-35000d irrigate
6 7 8 9 10 11 12 3 4 5 6 7	Hemp sugarbeat Pepper Brinjal Sugar beet O6 What new crop species was a sugarbeat - water melononly grape and cherry is sugar beet Fruit - vegatables	200 7,800 2,000 3,000 7,500	4,000 100 0 600	only 1942 1 time Official in the total farmland A few area is irrigated % 100 % 66 %100=%50 by the proj % 100 own land	enough water or only partly co by the scheme due to shortage
6 7 8 9 10 11 12 3 4 5 6 7 8	sugarbeat Pepper Brinjal Sugar beet Sugar beet What new crop species was ugarbeat - water melononly grape and cherry is sugar beet Fruit- vegatables maize 100 ha and some	200 7,800 2,000 3,000 7,500	4,000 100 0 600	only 1942 1 time Official on coverage in 9 of the total farmland A few area is irrigated % 100 % 56 %100=%50 by the proj % 100 own land % 10	enough water or only partly co by the scheme due to shortag .3000d planned -2000d irrigate .35000d planned-35000d irrigate %100 Yes
6 7 8 9 10 11 12 3 4 5 6 7 8 9	Hemp sugarbeat Pepper Brinjal Sugar beet Sugar beet What new crop species was ugarbeat - water melononly grape and cherry is sugar beet Fruit- vegatables maize 100 ha and some Sugarbeat 7000 kg/da	200 7,800 2,000 3,000 7,500	4,000 100 0 600	only 1942 1 time Off irrigation coverage in 9 of the total farmland A few area is irrigated % 100 % 66 % 100 cwn land % 10 % 50 % 60 - 66	enough water or only partly co by the scheme due to shortage
6 7 8 9 10 11 12 3 4 5 6 7 8 9 10	Hemp sugarbeat Pepper Brinjal Sugar beet Sugar beet What new crop species was ugarbeat - water melononly grape and cherry is sugar beet Fruit- vegatables maize 100 ha and some Sugarbeat 7000 kg/da	200 7,800 2,000 3,000 7,500	4,000 100 0 600	5 times 1 times only 1942 1 time Off the lotal farmland A few area is irrigated % 100 % 56 % 100=%50 by the proj % 100 own land % 10 % 50	enough water or only partly co by the scheme due to shortage

Table 2 - 2 (2-2) Questionaire Results to the Village Chiefs near the Priori

	Q9			Q12
Ì	Period of Irrigation	Energy Source	Cost Price / unit	Annual Irrigation Cost
ᇻ	April - October	tractor or diesel pump	87-90 ths TL diese	4 - 5 million TL / da
2	April - August		•	
3	Mid May-End Sept.	gravity flow only	no power charge	max. 3mil min.2mil./season
4	April to mid Sept	electricity	300,000TL/hour***	could not calculate
5	April 15 - Septemer 15	3 well - 100 da	•	•
6	June 12 - July 20	Electric pump	9000 TL/KWh	2,300 TL/da
7	May - September	Electric pump	6500 TL/Kwh	3,200 TL/da
8	May - September	electric	6500 TL/Kwh	250,000 TUda
9	June - September	100-150 LITRE fuel	100000 TUKWh	7,000 TL / hr
10	May - October	Electric	5220 TL/kwh	2 hrs = 10.4 thousand TL / da
11	June - October	gravity -40000 TL/h	90000 TL/Diesel	.
12	April - September	ľ ·	9000 TL/Kwh	Gravity Sprinkler Cost 2 million TL/da

** ; (1996 price)

	Q13 Time of Collecting Irrigation Fee from Farmers	Q14 Criterion of fee collection	Failure of collecting fee	Q16 Regular Maintenance Work ****
1	•	•	-	•
2	INo Irrigation	No irrigation	-	ŀ
3	after irrigation season	by area	no problem	c,d
4	after the irrigating season	per hour	no problems faced	a,c
5	 -	<u>-</u>	-	-
6	End of the harvest	Counter	1-	[a,c
7	To times by tek 2 by coop.	only for irrigation	yes, simetimes happe	d -
	Collect by muhtar at the level of season	by period		a,b,c,d,e
	Before Irrigation	by area	1-	-
	-october for 2 inig.	į. ´	sometimes yes or not	a,b,c,d,e
	Self irrig.Coop	by period	1-	c.d.e
	imigation cooperatives collecting.		little problem arises	a b from DS:

****; a) pump overhauling, b) greasing, c) cleaning water channels, d) mud-flushing in reservoirs

	Q17	Q18 Who participate to maintenance work?		220
	Responsible Body for Maintenance	This participate to maintenance work ?	*****	<u> </u>
1	-	-	•	-
2	а	After trigation everybody will be member	pd .	l -
3	koop.	they hire repairman	a	87 members
	koop.	hired repairman	а	170-180 members
5		.	ļ-	 -
6	self	j.	[-	ļ-
7	e	old villagers	(no	GDRS suggest
8	-		i-	ļ -
	a	Sometimes employing	-	5 maneger
10		· · · · · · · · · · · · · · · · · · ·	! -	300 member
	b,d,e	Sometimes employing	[b	[-
12	e	no	a	-

a) by users, b) official budget c), by water users association d), special saving and e) by other means

	Q21 Problems encountered or irrigation water use	The reason why the village was selected for collecting information
1 2	•	in order to compare to already irrigated site of Kuskara
	10	
	no .	
5		in order to compare to already irrigated site
7	no	
1 8	·	
9		
	yes	
	no no	

source : Farm Economy Survey conducted by the Survey Team

Table 2.3 (1) Crop Yield per Decare

ATREE	9	6	Annual Crop Yield	op Yield				(ton/da)					Į		İ	Ì	Ì	Ţ
Nemo	ō	Cereal Crops	rope		Pulsers	[ndustrial/(Industrial/Otleeed/Fiber Crop	er Crop		Food Crop (dry	(dry yield)		Carth Crop		× ×	Malous T	Franks Cartio	rlio .
	Samole	V.	Pertor	Paddy	Ream	Book	Sund?	Corton	Menns	Clower	Maize	5	Hezel	Criton	- Pier	2	Nute	_
HACTIAR	16		0.00		lë	8	900	0.00	00:0	0.01	8	,	•	•	0.77	0.06 4.67	79,	٠.
URUNITU	7		1	_	0.10	6.24	10.0	00.0	000	0.00	0.00		*	230	•	143	•	,
KAL ESPACSI	12	١.				,	,	_							,	•	٠,	7
Karayansarai	9	0.25	800		000	57.4	0.0	00.0	00'0	65.0	0.55	•			1	·	•	7
KOZLUK	19	Ľ	Ţ,	040			•			90:0	,	0.14	0.13	٠	,	,	41.0	
KTISKARA	N	0.26	[,	ŀ	3,90	•	00.0	0.05	000	000		٠	,	•	•	-	7
CZDENK	0	L	0.0		0.03	2.33	800	000	000	000	0.00		•	,	1	•	•	٦.
ANI ANI AR	15			'	000	1.	0.00	0.27	00'0	000	0.00	,	,	٠	2.45	0.82		9
TYASKOY	1			•			90.0			0.05		-		,	•	•	\$].
KKARISTIRAN	2	L	0,20	•	00:0	4.65	0.14	0.00	00'0	0.26	00'0	•		•	•	-	-	-
aporegate	116	1.91	0.15	00'0	0.01	1.60	0.03	0.03	000	80'0	00'0	00'0	0.02	0.23	0.08	0.20 0.31	줐	è
mean per household	_	2.61	0.21	0.40	0.03	4.32	0.07	0.27	\$0'0	\$1.0	0.55	0.14	0.13	2.30	031	0.61 0.79	5	0.52
									ĺ		ĺ			ĺ	Ì			

Table 2 - 3 (2) Crop Production Patterns

unit: number of households, decare (equivalent to 0.1 ha) for strata columns:
Annually Cropped Acreage under Foodgrains

Hacilar Unndu schisis 0 0 0 3 0 0 0 3 0 0 0 5 2 1 2 0 1 0 0 1 0 0 3 3 2 0	1900			_	4	Ileyon.	, .		2			, de	ġ			722	e S	Asian Jyas Khan	_
Mactiar Unadu sekisis				•	-100	117.00		,	}					•	•			-	1
000mm-m	00	Keeluk	Kunkern C	Ordenk	jar	Κολ	Stran	Tota	CropArea Hecilar	Hecilar	Uranie	schis	ž Ž	Kozluk Kuskan Orden	ikara Oz	137	Š	SELEC.	
5-10 10-20 20-35 35-50 35-50 35-50 10-150 10-150 10-	0	c	٥	c	٥	0	0	ĭ	6-8	0	0	Ξ	0	71	0		1.1	0	32
25.10 20.28 20.38 35.80 50.75 11 10 100.150 3 2	>	•	•		c	c	0	v	5-10	-	0	0	0	_	0	~	0	0	4
10-20 0 0 5 20-35 3 0 0 35-50 2 1 2 50-75 1 0 0 75-100 1 0 0		1	>	•	>	,	•	; ;	1	•			•	•	•	•	<	<	Ξ
20-35 3 0 0 35-50 2 1 2 50-75 1 0 0 75-100 1 0 0	0	4	0	~	m	1	0	2	10-20	>	-	>	4	>	•		>	>	•
35-50 50-75 100-150 3 2 0	-	-	-	0	4	0	-	=	20-30	4	0	0	(1	0	М	, ,	-	~	2
30.75 75-100 100-150 3 2 0		·		-	0		0	1.5	30 - 40	٥	-	0	-	0	r 24	er)	-	⊷	=
75-100 1 0 0 0 100-150 3 2 0		. <	٠,			· 1		2	40.50	2	٥	0	-	0	0	-	4	64	*
75-100 1 0 0 100-150 3 2 0	3	t	4	-c	,	•	٠,			٠.			_				•	-	×
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Total 16 7 11	10	61	7-	6	1.5	=	10	115	Total	91	-1	11	10	6	7			잂	¥
ļ.	8	\$6	æ	108	2	47	171	8	Avorage	06	109	0	65	6	32 64	8	8	<u></u>	\$

Table 2 - 3 (3) Irrigated Field Area and Cash Crop Production

CTODING ACTOR CASH AND THE TANK		<u>.</u>	7	r3	4		1 .	0			^ -	0	-		o •	1 0	15 11	40 22		 vegetables/ tree-fruits for sale, sugarbeet, sunflower, couon, nemp. 	Most farmers in Kalesekia and Kozluk do not grow cereals but are e	** Average shows promped docare bot	
	•	Kurkara Ozdenk	0	0	•		٠ -	4	-	• •	0	0) (۰ د	0	7	9	,اد اد	t surgio	to not gro	e showe c	2
	•	Kozluk Kur	0	۲,	ıc	, ,	4	'n	ď	,		_		>	0	1	0.			c, sugardo	1 Kozluk c	A A Verso	9
	ģ Š	×	0	C	• <	> (L1	4	ť	'n	0	-		>	0	0	ç	ı	3	its for sal	sekisi an	-	
	Yale.	sckisi	0	(*	, (n,	m	C	• •	1	0	c	> 0	>	0	0	6	, -	۽	tree-tru	s in Kale	,	program.
		lar Urunlu	0	c	۰ د		_	0	· -	∹	0	_	• (7	7	0	7	١	51	cgetables	of farmer		orchard Iruit production.
	Crop for	Sale Area Hacılar	0.5		07-0	10-15	5-20 0	30 30	2	30-40	65.04		> :	2-188 - 188	051-00	over 150	Ł	-1	Average** 8	Note: * v			20
	ð	Total Sal	c			 ∞		-		(1) (1)	4	- (- 5	4	- 2	41	╁	Ş	51% A	20		01.67	
	K Kan-	stiran Te	┝	• •	 o	0	-		_ >	-	_	٠.	_ -			· ¥	1	6	% 0506	13.5	200	2%	Pic Pic
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	Aslan- Il	Į.	 -	> -	0	m	_	٠ (-4	_		٠ 4	c i	-	· C	, -	-	13	87%	7		\$ 2	decare) 1
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and Act		neken	ļ	>	0	ci		>	.	c	٠ ،		0	_	· -	٠,		۲-	\$ 2	}		26%	
enolds		Kozhik K		>	0	0	. <	>	0	0	٠ د	-	0	_	٠ ،	٠ د	-	c.	1,60%	2 6	1	15%	I A /HH
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Irrigated Households and Acreage	ž Ž	1		>	4	_	• <	>	0	¢	>	0	0	<	> 0	> -	٥	0	2			15% 21%	a Violetina
			nanco	3	0		۰ ۱	>	0		>	0	0	٠ <	> <	Э	7		Ş	'i :	33		
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	Total	TINITE	BIOSE KUIDOLI	0-5	5-10	7.	7.	15-20	20-25	00	5	운 유	40.50	2 0	8 1	92-30	over 70	Total		% of ut. Pu	1. a. /HH	Impaired area	A the management of the contraction of the contract

Total cropped acreage may exceed total holding by winter / summer

Remarks: Only a few farmers drill wells or use surface water at his own expense.

Table 2.4 (1) Land Holding Size and Land Tenure

Table 2 - 4 (3) Desirable Land Size

No. 1023. L	of Suffi-	cient		_	•	_	~						25	47%
Š	ō	Sample cient	16	1	51	δ	ę.	^	ð.	15	11	. 10	116	
Village	Name		HACILAR	URUNIU	KALESEKISI	Karay ansarar	KOZLUK	KUSKARA	OZDENK	ASLANIAR	LYASKOY	KKARISTIRA	agen gate	composition
	140 above	991	4	77	ô	7	71	٥	65	٥	ī	7	5.2% 14.7%	
		992	2	-	ြ	-	٥	°	٥	1	٥	. 1	5.2%	
	100	94	0	1	٥	-	0	0	2	1	٥	1	5.2%	
tion	100	120	2	-	ō	٥	٥	ı	0	2	. 1	0	6.0%	
Sistribu	80.	8	1	7	0	ñ	٥	-	٥		. 2	0	7.8%	:
Holding Size Distribution		00.00	1	Ô	0	-	۲۰.	6	0	0	0	2	6.1 32.8% 19.0% 86% 7.8% 6.0% 5.2%	
Holdin		40 de 40 40	7	1	٥	5	٧.	1	73	۲	S,	1	19.0%	
	Şeine Seine	40 da	4	0	Ξ	63	ð,	1	61	9	7	1	32.8%	
	No. of	percels	9'9	6.0	1.3	0.11	3.1	73	7.9	7.6	5.4	8.1	6.1	
	fullow	land	0.0	0.0	0:0	V.	0.5	10.6	41.1	1.7	23	0.0	6.7	
	migated 1	land 1	10.3	118.2	33	5.97	δ 3	38.4	15.6	40.1	2.5	38.9	26.7	
	Date: 1	land 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	5.0	0.6	
DINC	NG.	land la	0.0	37.9	0'0	0.0	9.0	0.0	11.13	84	13.6	0.6	6.4	
LAND HOLDING	owned	land la	105.8	132.1	15.2	616	\$4.3	73.6	102.2	58.1	603	163.0	80.5	
71 L		guq	105.8	170.0	15.0	6.6	\$7.5	73.6	113.3	5'99	73.9	177.0	87.7	
S.	ō	Sample Hot	16	_	12	0	13	7	o	13	11	10	116	
Village	Name		HACTLAR	URUNIU	KALESEKUSI	Karavansaran	KOZLUK	KUSKARA	OZDENK	ASLANLAR	LYASKOY	K KARISTIRAN	10 Pr Village	. :

Table 2-4 (2) Cropping Acreage by Crop

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Villege	No. 07	70	Annual Chop Acreage	op Acres g	٥			(da)								
Name	ō	Cereal Crops	õ		Pulsor	Industrial/Oilseed/Fiber Crop	Nieced/Fib	or Crop		Feed Crop	۵		Couth Crop	¢.	Vegeta-Total	Total
	Sample	Wheat	Rarloy	Padeh	Reans	Beet	Surf	Cotton	Horney	Clover	Con Out		Potato (Onion	\$ Q	Acresso
HACII.AR	9.	5.95	32.8	0'0	90	0.0	61.1	0.0	0.0	60	0.0	0.0	00	0'0	6.4	1483
URUNCU	7	543	63.7	0.0	10.3	20.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	179.4
KALESEKISI	2	0.0	0.0	0.0	0.0	0'0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
Karavansara	0.	34.9	5.5	0.0	6.0	1.72	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.2	83.7
KOZLUK	6.	6.0	0.0	- 2.6	0.0	0.0	00	0.0	0'0.	4.3	00	9,0	00	0.0	0.2	8.2
KUSKARA	7	31.0	0.0	10	1.0	14.3	0.0	1.4	0.0	3.4	0.0	0.0	0.0	0.0	2.4	53.0
OZDENK	6	24.2	49.9	0.0	0.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.1
ASLANTAR	15	14.5	194	0.0	0.0	0.0	0.0	36.2	0.0	0.0	0.0	0'0	0.0	0.0	3.1	58.4
LYASKOY	11	36.5	13.6	0.0	0.0	0.0	10.0	0.0	0.0	2.7	0.0	3.2	0.0	0.0	6.0	689
KKARISTIRAN	10	5.66	2.6	0.0	. 0.3	181	57.4	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.0	183.8
10 Pr Village	116	30.4	14.7	0.5	8'0	8.3	14.4	4.8	0.0	2,5	0.0	0.4	0.0	0.0	1.5	86.2
Real Average		33.0	19.0	2.0	1.6	22.4	42.3	25.1	0.0	0.4	0'0	1.7	0.0	0.0	1.9	743

Table 2 - 5 (1)

Compiled Farm Budget Balance Sheet

PROJECT NAME sample Rent HACILAR 16 17 URUNLU 7 313 KALESEKISI 12 62 Karavansarai 10 19 KOZLUK 19 8 KUSKARA 7 2 OZDENK 9 33		ANNITAL EXPENDITURE	VPENDITU	RE			A	ANNUAL INCOME	NCOME	-	Indicators	Ş
number 17 17 17 17 19 19 19 19 8 17 2 2 2 2 2 2 9 33	×200	Input Cost	Feeds	House-	Others	Total	Crop Live-	·Jo	Total		C/T,BTJ	T.1/T.E
16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9			Hold Ex.		Expense	stock	k farm	Income	, 14		
5 / 5 O O V O		F776 33	5	738	°	1,149	666	181	158	1,336	0.87	1.16
7			,	, ,		1.640	5	96	×	3 302	\$	2.01
50 0 V 0		208 273	0	£	>	2	2,107	ì	3			
0 0 0 0 0		111 112	52	742	0	1,079	620	š	459	1,134	\c.	6
<u>, 6</u> €			119	822	æ	1,250	01810	1,198	520	3,228	1.45	2 58
9 / 0 9 / 3		•		3	2	1 050	1,007	0	312	1,389	1.02	1.31
N 60		§	77	370	1	,,,,,,,		٠ ,	ì	67.	8	1 10
<u>ත</u>	7	26 236	٥	% 01	0	1.065	3 0.1	٥	ę	1,107	5.1	?
<u></u>		383	36	675	38	1,140	474	122	203	1.28	0.8	1.14
- (•		, .	080	Ş	2005	161	39	130	1,365	0.57	0.65
ASLANLAR 15 %		270 625	>	NO.	ò	•		; 4	8	Š	770	8
III.YASKOY 111 88		153 556	Š	1,00	Z.	<u>\$</u>	1,217	>	Q Q	3	3	3 .
2		174 640	٥	88	311	2,060	2,921	٥	189	3,110	1.42	<u> </u>
116			30	808	55	1.389	1.358	152	259	1.769	860	1.27
27.4	TLI	rate of to	virginity to cr	op income			TI / TE; rate of total income to total expence	of total	ncome to	, total e	cpence	

C/TE; rate of total expence to crop income

Composition of Annual Income and Expenditure per Farm Household ANNUAL INCOME Table 2 - 5 (2)

		010	ANNUAL	AL EXPENDITURES	STIC:	ŒS										
Service Mari	-	Sent.	nen	though			hired	mont	anıma	plod.d	other	product	live	labor Podel	off-farm	others
PROJECT : ASSE	Sample	1	1						6.2.40		Įį	20,52	gook	wade	ncome	pension
	number	number machine	puel	interest		taxes	wage	purchase	ž	ប៍	1	ŧĽ		000	ļ	13.61
TA CIT AD	٦	۷			0.0	113	61.2		52.2		14.8	_		103.0		J. 4
441744	<u> </u>	3	•	2 1) ·		6				C	۲,		0.0		0.0
URUNIO	~	210.7	_		0.0	70.9	× 102				3 6	4		400	•	786
L'ATENELIST	3.5	0.0	~	0.0	0.0	0.2	111.1		Ī		o,		22.0	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	•	2 6
					0	101	446				32.7	_	. -₹	0.0		0.0
Karavansarai	2	ر خ	`		>	17.1					7 00	_		C	•	0
KOZLIK	13	3.9		0.0	0.0	43	103.7				100	7		3		
TOT TOT A DA	,	c			00	30	263				126.7	_))		5
225	_) (•	7 90				3			0.0	•	<u>o</u> .
OZDENK	<u>Ф</u>	00	ĭ		O.	20.00	000				3			6		V
OV LANA VOA	-	0	<u>ج</u>		0.0	80 80 80 80 80 80 80 80 80 80 80 80 80 8	309.8				22.0	_		5		1
ASTANCE	. :	5 6	. 6			S	951		4.5	479.1	34.4	1.146.3		18.5	3.0	0.0
ILYASKOY	=	ر خ	ń		3	5	2 1				100			70		000
KKAPICITRAN	10	0.0	e e		0.0	403	105.7		1	1	20.7	1			Ί	l
D. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	۲	12.0	ر د	23.0	5.1	6.2	121.8	321.1	12.6	417.4	36.6	0.0	0.3			3
Project villages	<u>`</u>].	300			18	63	ð	l		0.1	27.2	0.0	0.5	36.5	0.0	0.0
mean per household	shold	3.00	۲ ا		1.0	2	100									
				0	4 4 4 4 4 4 4	,										

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

Table 2-5 (3) Resort of Procuring Farm Operation Fundand Envisaged Annual Standard Earning

								umt : mill	ion T.L.	per housel	unit: million T.L. perhousehold, household	Ţ	Ī
		Q13. FARN	M FINAN	Q13. FARM FINANCING SOURCES	ES		014.517	NINKU	ביי ויי	μĮ	١	ľ	Ī
PROJECT NAME		sample lown saving TKK	TKK	Agricultural	relatives	broker	300 or	300-	400- 2	80. 80.	900 - 800 or		<u>s</u>
				Bank	or neighbor and othersless	ind others	less	\$	8	909	800 above		
AV IDVI	1	8		0 25	13	0	6	C 3		S	0	ო	674.4
TIME I	· •	4	c	ς,	°	0	_	0	-		0	4	834.3
CANCINCO KTAY ENERGE	• \$	133			·	0	0	0	m	m	1	4	741.8
L'amyancami	; ;	•	5 1	2	0	0	0		C1	~	0	9	8220
KOZITK	2		ı ~		0	0	m	Çŧ		6 3	-	2	884.2
KTISKAPA			_		0	0	63	0	0	m	٥	C4	715.7
CONTRACTOR	Ô	-	<u>.</u>		0	0	C1	B	0	C\$: •	٥	8.73
AST ANT AR	Ý		_	130	8	41	_	0	~	m	1	ø	921.3
II YASKOY	=				0	0	_	0	6 3	4	1	٧v	7.278
K K A DISTIDAN	: 2		. '	5 186	0	0	•	0	ci	7	1	CI	846.0
Project Villages	=		23	32	0	22	13	∞	13	75	5	8	8 0
mean per household	plot			9 37	0	41	11%	70%	115	21%	4% 4	47%	300%

Borrowing Experience and Reasons of Borrowing Difficulty Table 2 - 5 (4)

		Last Time.	4.00				O17 Romani	O17 Romaino Experience from		
		אייא סול	ATO WIN CHINCLIN TO COLLOW	COLLOW			X	4]]
PROJECT NAME	sample	lack of	Interest	not re-	Buro	No reliable	Ä	Broker		-18 P
		mimber mortoxoe	tochish	oavable	crasy	person to borrow			tives	Pors
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2777	2	_					•	<		•
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A. NAMES I INAM	ì		7		, ,	7F A7	65	5		
FIUGA VIIIAKES	ĺ		İ				20.00	404	10.	200
Composition	100%	53%	5. 13.88		 %.e	4% 41%	51%	4.10	1.4	Į

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

Table 2-6 (1)

Farm Product Disposal and Marketing

		ASOURING TOUR	 			(% of total	farm product	র্টু					
1	69. 1			0000		Sole/Marketin	2					Fed to Liv	estock
Project orde		emon emon		2			В.	1.	1	100	2	Science	forder
	Cereals	Vegetable	Ę	Others	Cereas	Industrial	õ		Vegetable			2	
	220		Ç	0	72.0	100.0		0.0	B	•	0.0		
	-				1,0	5		0	28.6	,	00		
URGNIC))	3	n T	3		•		0	0.00		
KA! FSEKISI			00	0.0	0	•		0.0))	9			
			2	2	45.4	100		90	3.0	٠	0.0		•
- ABITAVANSANSAN))) ;) }	9 6		(C	5	C		
KOZLUK	5.6		o O	0.0	28	156.0	í))	<u>ک</u>	3) (
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£ 5000	o o))) ;					Č	•	Č		
NULC COL	40.0		0	Ö		25		<u>-</u> :	?	ı)		
041140	27.0	ď	6	C	33.1	100.0	00	0.0	49.2	8	0.0	15.6	o.
5	5		2 6) (C	150	•	00		
LYASKOY	23.0		o O	2		3		>					
K Kanetran			0	00		80 00 00 00 00 00 00 00 00 00 00 00 00		0	6.0	٠	3.0	ļ	
10.0-1/11-11	678	ľ	ç	7.0		100.0	l	0.4	12.6	95.0	1.0		2.0
S LINE				1		Ç	١	90	210	١,	97.3	9.2	13.3
AVERAGE	906/	140.6	0	5.0	-	3	١						

	number	350	NEW YEAR	ners, ner	al Habito	/illagers' usual Habit of Product Sale?		Q36. U	deH lensi	Usual Habit of Input Purchase	orchase	,
Project Site		Broker	Sales	Sales Self-	N.O.	Processing	gerge Serge	Broker	Η. Κ.Κ.	Stores	Animat	Others
	Samoles		ပိ	Coop. vending	9	Mile Mile					Fair	
HACILAR	16		91	0	-	0	0	0		о Ф	0	
URUNED	_		, ro	0	0	0	-	c)		6	0 (
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(arayansarai	2		٠,	7	0		6	S.		න (න ද	0 (
KOZLUK	61		15	ო	0	0	0	60	•	۰ م د	> •	
CUSKARA	,		જ	0	_		<u> </u>	0		. v	> (
OZDENK	6		ಬ	ထ	ო	8	0	₹		¢ ∞ 1	>	
ASLANLAR	15		9	0	0	0	0	∞		, N	> (
LYASKOY	11		ψ,	-	0	-	ō o	φ		2	> c	
KARISTIRAN	9		~	8	7	0	0	2			⊃ 	
doradate	116		75	21	7	6 1.	7	98	. ′	37 15	ł	
composition	100%		65% 18%		9%9	75%	961 9	43%	418	% 16%	Š	Š
25700	3		ı	١			١					

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