

*ANNEX F*

*AGRO-ECONOMY*

**ANNEX F**  
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## *TABLES*

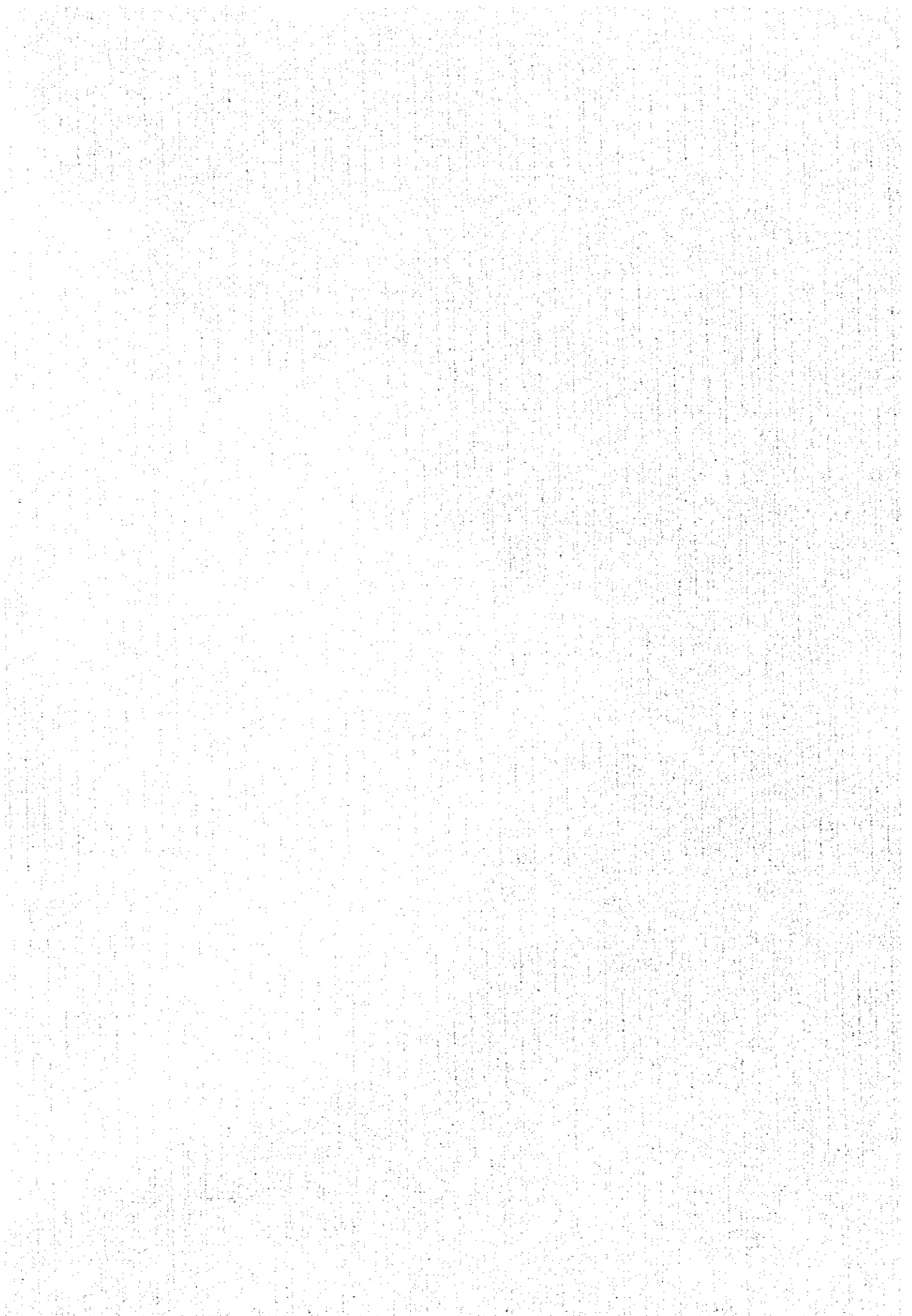


Table-F.1 National Land Use

(Unit: thousand ha)

Year	Agricultural Land											Forests	Total
	Area Cultivated						Total						
	Sown	Fallow	Total	Vege. Gardens*	Vine Yards	Fruit Trees	Olive Trees	Total	Forests	Total			
1970	15,591	8,705	24,296	448	845	1,019	731	27,339	18,273	45,612			
1971	15,924	8,603	24,527	451	847	1,044	740	27,609	18,273	45,882			
1972	16,047	8,996	25,043	530	850	1,052	751	28,226	18,273	46,499			
1973	16,062	8,952	25,014	530	816	1,153	775	28,288	19,136	47,424			
1974	16,154	8,506	24,660	501	795	1,187	785	27,928	20,170	48,098			
1975	16,241	8,177	24,418	490	790	1,163	801	27,662	20,170	47,832			
1976	16,343	7,922	24,265	619	768	1,263	810	27,725	20,170	47,895			
1977	16,531	7,941	24,472	592	760	1,290	816	27,930	20,155	48,085			
1978	16,349	8,200	24,549	571	790	1,321	811	28,042	20,155	48,197			
1979	16,607	8,388	24,995	616	850	1,352	812	28,625	20,155	48,780			
1980	16,372	8,188	24,560	596	820	1,386	813	28,175	20,199	48,374			
1981	16,711	8,204	24,915	568	800	1,397	833	28,513	20,199	48,712			
1982	16,967	6,614	23,581	618	655	1,426	811	27,091	20,199	47,290			
1983	17,164	5,854	23,018	678	655	1,453	814	26,618	20,199	46,817			
1984	17,453	6,421	23,874	628	625	1,470	816	27,413	20,199	47,612			
1985	17,908	6,025	23,933	662	625	1,489	821	27,530	20,199	47,729			
1986	18,149	5,771	23,920	638	600	1,490	835	27,483	20,199	47,682			
1987	18,781	5,574	24,355	609	590	1,517	856	27,927	20,199	48,126			
1988	18,995	5,179	24,174	612	590	1,531	856	27,763	20,199	47,962			
1989	19,036	5,234	24,270	610	597	1,563	857	27,897	20,199	48,096			
1990	18,868	5,324	24,192	635	580	1,583	866	27,856	20,199	48,055			
1991	18,776	5,203	23,979	652	586	1,560	877	27,654	20,199	47,853			
1992	18,811	5,089	23,900	663	576	1,565	871	27,575	20,199	47,774			
1993	18,915	4,887	23,802	654	567	1,615	872	27,510	20,199	47,709			
Average Annual growth Rate													
'70 to '80	0.45%	-0.56%	0.10%	2.63%	-0.27%	2.84%	0.97%	0.27%	0.92%	0.54%			
'81 to '93	1.04%	-4.23%	-0.38%	1.18%	-2.83%	1.22%	0.38%	-0.30%	0.00%	-0.17%			

Note: \*: Vegetable gardens.

Source: Statistical Yearbook of Turkey 1994 and Agricultural Structure and Production, 1993, State Institute of Statistics.

Table-F.2 Status of Population Census

(Unit: thousand persons)

	1970		1975		1980		1985		1990	
	Popu- lation	Pro- portion	Popu- lation	Pro- portion	Popu- lation	Pro- portion	Popu- lation	Pro- portion	Popu- lation	Pro- portion
<b>1. Population by Census Data</b>										
Total	35,605	100%	40,348	100%	44,736	100%	50,664	100%	56,473	100%
Male	18,007	51%	20,745	51%	22,695	51%	25,672	51%	28,607	51%
Female	17,598	49%	19,603	49%	22,041	49%	24,992	49%	27,866	49%
Urban area	13,691	38%	16,869	42%	19,645	44%	26,866	53%	33,327	59%
Male	7,313	21%	9,005	22%	10,272	23%	14,011	28%	17,248	31%
Female	6,378	18%	7,864	19%	9,373	21%	12,855	25%	16,079	28%
Rural area	21,914	62%	23,479	58%	25,091	56%	23,798	47%	23,146	41%
Male	10,694	30%	11,740	29%	12,423	28%	11,661	23%	11,359	20%
Female	11,220	32%	11,739	29%	12,668	28%	12,137	24%	11,787	21%
<b>2. Average Annual Growth Rate in Previous 5 Years by Sensus Data</b>										
Total	2.6%	-	2.5%	-	2.1%	-	2.5%	-	2.2%	-
Urban area	4.8%	-	4.3%	-	3.1%	-	6.5%	-	4.4%	-
Rural area	1.3%	-	1.4%	-	1.3%	-	-1.1%	-	-0.6%	-
<b>3. Literacy Rate of Six Years Old and Over</b>										
Total	29,273	-	33,530	-	37,524	-	43,112	-	49,464	-
Male	14,798	-	17,256	-	18,999	-	21,801	-	24,857	-
Female	14,475	-	16,274	-	18,525	-	21,311	-	24,607	-
Literate	16,456	56%	21,332	64%	25,311	67%	33,322	77%	39,556	80%
Male	10,405	70%	13,119	76%	15,188	80%	18,825	86%	22,067	89%
Female	6,051	42%	8,213	50%	10,123	55%	14,497	68%	17,489	71%
<b>4. Economic Active Population</b>										
12 years and over	23,280	-	26,946	-	30,406	-	35,250	-	40,758	-
Male	11,712	-	13,824	-	15,309	-	17,754	-	20,534	-
Female	11,568	-	13,122	-	15,097	-	17,496	-	20,224	-
Economic Active	15,119	65%	17,384	65%	19,212	63%	21,580	61%	24,727	61%
Male	9,306	79%	11,180	81%	12,284	80%	13,933	78%	16,074	78%
Female	5,813	50%	6,204	47%	6,928	46%	7,647	44%	8,653	43%
Economic Inactive	8,161	35%	9,562	35%	11,194	37%	13,670	39%	16,031	39%
Male	2,406	21%	2,644	19%	3,025	20%	3,821	22%	4,460	22%
Female	5,755	50%	6,918	53%	8,169	54%	9,849	56%	11,571	57%
<b>5. Population by Economic Activities</b>										
Total	15,119	-	17,384	-	19,212	-	21,580	-	24,727	-
Unemployed	-	-	-	-	-	-	1,023	5%	1,346	5%
Employed	-	-	-	-	-	-	20,557	95%	23,381	95%
Agriculture	-	-	-	-	11,105	58%	12,119	56%	12,548	51%

Note; \*: Turkey in Statistics 1994, State Institute of Statistics.

Source; 1994 Statistical Year Book of Turkey, State Institute of Statistics.

Table-F.3 Gross Domestic Products and Gross National Products (1987 constant price)

Economic Activities	(Unit: Billion TL)						Average Growth Rate
	1988	1989	1990	1991	1992	1993	
01. Agriculture	14,356	13,272	14,177	14,049	14,651	14,323	-0.05%
a. Agriculture & Livestock Production	13,209	12,166	13,137	13,052	13,489	13,251	0.06%
b. Forestry	798	791	774	730	900	733	-1.69%
c. Fishing	349	315	266	267	262	339	-0.58%
02. Industry	19,618	20,529	22,302	22,909	24,268	26,260	6.01%
03. Construction	5,159	5,472	5,411	5,473	5,814	6,213	3.79%
04. Trade	15,376	15,017	16,868	16,748	17,902	19,924	5.32%
05. Transportation & Communication	8,761	9,045	10,123	10,085	10,899	11,849	6.23%
06. Financial Institutions	2,389	2,447	2,496	2,515	2,463	2,453	0.54%
07. Ownership & Dwellings	4,387	4,504	4,616	4,725	4,841	4,976	2.55%
08. Business & Personnel	1,776	1,781	1,926	1,944	2,051	2,180	4.19%
09. Imputed Bank Services	-2,079	-2,122	-2,161	-2,166	-2,116	-2,103	0.23%
10. Sectoral Total (01 to 09)	69,743	69,945	75,759	76,282	80,774	86,075	4.30%
11. Government Services	3,859	3,903	4,019	4,117	4,259	4,329	2.32%
12. Private Non-profit Institutions	325	331	365	377	386	397	4.12%
13. Total (10 + 11 + 12)	73,927	74,178	80,143	80,777	85,419	90,801	4.20%
14. Import Duties	2,379	2,317	3,436	3,576	3,982	5,289	17.32%
15. GDP (13 + 14)	76,306	76,495	83,578	84,353	89,401	96,089	4.72%
16. Net Factor Income	-198	849	1,013	540	944	1,127	7.34%
17. GNP (15 + 16)	76,108	77,344	84,592	84,892	90,344	97,216	5.02%
18. Mid-Year Population (thousand persons)	53,715	54,893	56,098	57,326	58,584	59,869	2.19%
19. Per Capita GDP (Million TL)	1,421	1,394	1,490	1,471	1,526	1,605	3.60%
20. Per Capita GNP (Million TL)	1,417	1,409	1,508	1,481	1,542	1,624	3.61%
21. Per Capita GNP* (US\$)	1,684	1,593	2,687	2,620	2,700	2,883	15.99%

Source: 1994 Statistical Year Book of Turkey, State Institute of Statistics.

\*: Turkey in Statistics 1994, State Institute of Statistics.



Table-F.4 Labor Force Status

	(unit thousand persons)									
	April 1990	October 1990	April 1991	October 1991	April 1992	October 1992	April 1993	October 1993		
1. Total population	54,494	55,523	56,146	56,776	57,438	57,790	58,746	59,438		
Male	26,941	27,886	28,215	28,560	28,949	29,304	29,539	30,001		
Female	27,553	27,637	27,931	28,216	28,489	28,486	29,207	29,437		
Growth rate in a half year		1.89%	1.12%	1.12%	1.17%	0.61%	1.65%	1.13%		
2. 12 years old and over	39,104	38,587	39,036	39,484	39,970	40,440	40,912	41,406		
Male	19,059	19,175	19,452	19,688	19,949	20,194	20,442	20,697		
Female	20,045	19,412	19,584	19,796	20,021	20,246	20,470	20,709		
Growth rate in a half year		-1.32%	1.16%	1.15%	1.23%	1.18%	1.17%	1.21%		
3. Total labor force	20,548	21,147	21,045	20,732	20,845	21,184	20,817	20,996	51%	51%
Male	14,087	14,418	14,509	14,221	14,561	14,645	14,555	14,539	71%	70%
Female	6,461	6,729	6,536	6,511	6,284	6,539	6,262	6,457	31%	31%
Growth rate in a half year		2.92%	-0.48%	-1.49%	0.55%	1.63%	-1.73%	0.86%		
4. Not in labor force	18,556	17,440	17,991	18,754	19,123	19,256	20,095	20,409	49%	49%
Male	4,971	4,757	4,943	5,467	5,387	5,549	5,887	6,158	29%	30%
Female	13,585	12,683	13,048	13,287	13,736	13,707	14,208	14,251	69%	69%
Growth rate in a half year		-6.01%	3.16%	4.24%	1.97%	0.70%	4.36%	1.56%		
Reason not in labor force										
4.01 Discouraged	158	240	75	173	107	102	89	93	0%	0%
4.02 Other reason*	71	118	135	169	163	195	137	134	1%	1%
4.03 Seasonal worker	45	201	110	185	97	256	53	291	0%	1%
4.04 Housewife	10,450	9,075	9,191	9,392	9,551	9,282	10,061	9,860	48%	48%
4.05 Student	3,977	3,715	3,908	4,136	4,619	4,469	4,993	4,905	24%	24%
4.06 Retired	1,367	1,290	1,370	1,480	1,452	1,591	1,549	1,723	8%	8%
4.07 Property earner	448	354	401	389	324	424	348	410	2%	2%
4.08 Disable	1,618	2,124	2,795	2,802	2,805	2,931	2,312	2,350	15%	12%
4.09 Others	422	323	6	28	5	6	553	643	0%	3%
4.10 Total	18,556	17,440	17,991	18,754	19,123	19,256	20,095	20,409	100%	100%

Note: (2. 12 years old and over) = (3. Total labor force) + (4. Not in labor force)

\*: Person available for work, but not seeking a job.

Source: 1995 Statistical Yearbook of Turkey, State Institute of Statistics.

Table-F.5 Employment Status in Urban and Rural Areas

(unit: thousand persons)

	April 1990	October 1990	April 1991	October 1991	April 1992	October 1992	April 1993	October 1993
<b>Turkey</b>								
1. Total labor force	20,548	21,147	21,045	20,732	20,845	21,184	20,817	20,996
Male	14,087	14,418	14,509	14,221	14,561	14,645	14,555	14,539
Female	6,461	6,729	6,536	6,511	6,284	6,539	6,262	6,457
2. Employed	18,717	19,575	19,492	19,018	19,171	19,528	19,299	19,338
Male	12,888	13,333	13,373	12,968	13,348	13,461	13,431	13,348
Female	5,829	6,242	6,119	6,050	5,823	6,067	5,868	5,990
3. Unemployed	1,831	1,572	1,553	1,714	1,674	1,656	1,518	1,658
Male	1,199	1,085	1,136	1,253	1,213	1,184	1,124	1,191
Female	632	487	417	461	461	472	394	467
<b>Urban Area</b>								
4. Total Labour Force	8,486	9,071	8,851	8,883	9,322	9,423	9,307	9,720
Male	6,923	7,393	7,311	7,457	7,681	7,710	7,682	7,877
Female	1,563	1,678	1,540	1,426	1,641	1,713	1,625	1,843
5. Unemployed	1,172	987	1,075	1,078	1,127	1,107	1,044	1,161
Male	761	635	752	749	789	755	731	753
Female	411	352	323	329	338	352	313	408
<b>Rural Area</b>								
6. Total Labour Force	12,093	12,075	12,193	11,848	11,524	11,761	11,510	11,276
Male	7,195	7,025	7,197	6,764	6,880	6,935	6,872	6,662
Female	4,898	5,050	4,996	5,084	4,644	4,826	4,638	4,614
7. Unemployed	658	585	478	637	547	549	474	498
Male	438	450	384	504	424	429	393	438
Female	220	135	94	133	123	120	81	60

Note: (1. Total labor force) = (2. Employed) + (3. Unemployed)

(Turkey) = (Urban) + (Rural)

Source: 1995 Statistical Yearbook of Turkey, State Institute of Statistics.

Table-F.6 Employment by Economic Activity

(unit: thousand persons)

	April 1990	October 1990	April 1991	October 1991	April 1992	October 1992	April 1993	October 1993
<b>Turkey</b>								
01. Total labour force	20,548	21,147	21,045	20,732	20,845	21,184	20,817	20,996
Male	14,087	14,418	14,509	14,221	14,561	14,645	14,555	14,539
Female	6,461	6,729	6,536	6,511	6,284	6,539	6,262	6,457
02. Agriculture	9,328	9,221	9,545	9,060	8,547	8,784	9,263	8,437
Male	4,730	4,421	4,800	4,263	4,221	4,420	4,787	4,029
Female	4,598	4,800	4,745	4,797	4,326	4,364	4,476	4,408
03. Mining & Quarrying	171	224	138	205	139	199	110	147
Male	170	220	133	202	135	195	109	145
Female	1	4	5	3	4	4	1	2
04. Manufacturing	2,452	2,867	2,927	2,649	2,748	3,174	2,631	2,903
Male	2,014	2,306	2,349	2,207	2,209	2,375	2,077	2,258
Female	438	561	578	442	539	799	554	645
05. Energy and Water	40	12	15	29	18	66	90	111
Male	40	11	15	29	18	61	87	105
Female	0	1	0	0	0	5	3	6
06. Construction	855	905	875	961	952	1,049	1,179	1,137
Male	841	893	864	953	943	1,032	1,160	1,119
Female	14	12	11	8	9	17	19	18
07. Commercial	2,050	2,220	2,174	2,193	2,314	2,471	2,244	2,476
Male	1,906	2,066	2,030	2,042	2,135	2,262	2,054	2,290
Female	144	154	144	151	179	209	190	186
08. Transportation	768	847	780	773	887	799	852	955
Male	732	807	746	733	855	750	807	892
Female	36	40	34	40	32	49	45	63
09. Finance & Real Estate	389	413	414	439	472	446	372	471
Male	283	292	303	333	358	310	278	359
Female	106	121	111	106	114	136	94	112
10. Social Services	2,663	2,865	2,675	2,708	3,095	2,538	2,556	2,699
Male	2,172	2,316	2,184	2,206	2,474	2,055	2,071	2,147
Female	491	549	491	502	621	483	485	552

Note: Agriculture: forestry, hunting and fishing. Energy: electricity and gas. Commercial: wholesale/retail trade, restaurants and hotels.

Transportation: communication and storage. Finance & Real Estate: insurance and business services. Social services: community and personal services.

Source: 1995 Statistical Yearbook of Turkey, State Institute of Statistics.

Table-P.7 Imports and Exports by Commodity Group

(Unit : million US\$)

	1987	1988	1989	1990	1991	1992
<b>I. Imports</b>						
1. Food & live animals	368	180	695	1,175	467	594
2. Beverages and tobacco	187	189	225	346	381	330
3. Cruide materials & inedibles (except fuels)	1,321	1,352	1,606	1,683	1,623	1,874
4. Mineral fuels, lubricants and related materials	3,171	3,058	3,247	4,353	2,749	3,550
5. Animal & vegetable oils and fats	145	227	307	298	393	372
6. Chemicals and telated products	2,144	2,213	2,329	2,847	2,874	3,112
7. Manufactured goods chiefly from raw material	2,331	2,429	2,769	3,342	3,265	3,553
8. Machinery and transport equipment	4,011	4,182	4,020	6,938	7,129	7,974
9. Miscellaneous manufactures articles	414	436	484	922	1,101	1,157
10. Commodities and transactions not classified	1	2	3	0	0	0
Grand Total	14,093	14,268	15,685	21,904	19,982	22,516
<b>II. Exports</b>						
1. Food & live animals	2,163	2,484	2,015	2,304	2,730	2,762
2. Beverages and tobacco	324	278	493	455	593	356
3. Cruide materials & inedibles (except fuels)	517	777	837	750	681	504
4. Mineral fuels, lubricants and related materials	238	335	259	296	290	233
5. Animal & vegetable oils and fats	83	86	153	139	197	215
6. Chemicals and telated products	675	950	938	747	605	631
7. Manufactured goods chiefly from raw material	2,669	3,503	3,385	3,833	3,705	4,139
8. Machinery and transport equipment	1,086	748	588	855	1,017	1,291
9. Miscellaneous manufactures articles	2,411	2,497	2,956	3,579	3,775	4,583
10. Commodities and transactions not classified	24	4	52	0	0	0
Grand Total	10,190	11,662	11,676	12,958	13,593	14,714
<b>III. Balance</b>						
1. Food & live animals	1,795	2,304	1,320	1,129	2,263	2,168
2. Beverages and tobacco	137	89	268	109	212	26
3. Cruide materials & inedibles (except fuels)	-804	-575	-769	-933	-942	-1,370
4. Mineral fuels, lubricants and related materials	-2,933	-2,723	-2,988	-4,057	-2,459	-3,317
5. Animal & vegetable oils and fats	-62	-141	-154	-159	-196	-157
6. Chemicals and telated products	-1,469	-1,263	-1,391	-2,100	-2,269	-2,481
7. Manufactured goods chiefly from raw material	338	1,074	616	491	440	586
8. Machinery and transport equipment	-2,925	-3,434	-3,432	-6,083	-6,112	-6,683
9. Miscellaneous manufactures articles	1,997	2,061	2,472	2,657	2,674	3,426
10. Commodities and transactions not classified	23	2	49	0	0	0
Grand Total	-3,903	-2,606	-4,009	-8,946	-6,389	-7,802

Source: Statistical Indicators 1923 - 1992, State Institute of Statistics.

Table-F.8 Trade Value of Agricultural Commodities (1/2)

(Unit : US\$1,000)

Year	Imports	Exports	Balance	Year	Imports	Exports	Balance
Total Trade				Total Agricultural Products			
1987	14,157,800	10,190,050	-3,967,750	1987	1,205,610	2,587,670	1,382,060
1988	14,335,390	11,662,020	-2,673,370	1988	938,900	3,034,490	2,095,590
1989	15,792,140	11,624,690	-4,167,450	1989	1,612,750	2,847,600	1,234,850
1990	22,302,120	12,959,280	-9,342,840	1990	2,262,150	3,119,980	857,830
1991	21,047,000	13,593,460	-7,453,540	1991	1,606,280	3,747,700	2,141,420
1992	22,871,500	14,714,620	-8,156,880	1992	1,731,100	3,434,970	1,703,870
Live Animals				Meat & Meat Preparations			
1987	99,770	244,340	144,570	1987	99,770	244,340	144,570
1988	33,590	249,500	215,910	1988	33,590	249,500	215,910
1989	20,760	253,200	232,440	1989	20,760	253,200	232,440
1990	109,150	203,660	94,510	1990	109,150	203,660	94,510
1991	107,990	203,670	95,680	1991	107,990	203,670	95,680
1992	101,560	142,530	40,970	1992	101,560	142,530	40,970
Dairy Products & Eggs				Cereals			
1987	11,440	45,970	34,530	1987	83,460	84,460	1,000
1988	9,240	28,970	19,730	1988	60,730	335,860	275,130
1989	8,050	13,290	5,240	1989	573,840	177,680	-396,160
1990	18,240	12,110	-6,130	1990	571,040	74,500	-496,540
1991	19,890	8,730	-11,160	1991	112,550	466,150	353,600
1992	27,990	8,600	-19,390	1992	148,420	591,590	443,170
Fruits & Vegetables				Sugar & Honey			
1987	20,040	1,440,620	1,420,580	1987	48,710	33,240	-15,470
1988	9,530	1,585,300	1,575,770	1988	2,510	27,560	25,050
1989	12,430	1,293,480	1,281,050	1989	2,340	17,150	14,810
1990	54,670	1,736,260	1,681,590	1990	300,760	25,280	-275,480
1991	43,730	1,749,090	1,705,360	1991	9,290	67,170	57,880
1992	57,240	1,570,210	1,512,970	1992	8,420	175,190	166,770
Coffee, Tea, Cocoa & Spices				Feeding Stuffs			
1987	33,730	44,590	10,860	1987	31,310	49,420	18,110
1988	29,780	46,120	16,340	1988	13,400	13,370	-30
1989	27,240	75,810	48,570	1989	32,820	9,620	-23,200
1990	38,630	80,380	41,750	1990	34,400	5,930	-28,470
1991	43,250	48,530	5,280	1991	61,910	6,810	-55,100
1992	38,650	71,640	32,990	1992	84,970	2,760	-82,210
Veverages & Tobacco				Hides and Skins			
	Imports	Exports	Balance		Imports	Exports	Balance
1987	191,740	324,020	132,280	1987	135,980	40	-135,940
1988	188,850	278,250	89,400	1988	78,010	270	-77,740
1989	224,990	492,720	267,730	1989	99,880	380	-99,500
1990	345,510	455,420	109,910	1990	129,210	870	-128,340
1991	381,410	593,000	211,590	1991	115,720	1,200	-114,520
1992	306,740	356,420	49,680	1992	149,440	1,760	-147,680

Source : Production Yearbook, FAO

Table-F.8 Trade Value of Agricultural Commodities (2/2)

(Unit : US\$1,000)

Year	Imports	Exports	Balance	Year	Imports	Exports	Balance
Oilseeds				Textile Fibres			
1987	28,430	7,810	-20,620	1987	260,330	58,510	-201,820
1988	13,580	10,700	-2,880	1988	154,880	174,280	19,400
1989	25,170	7,440	-17,730	1989	193,690	173,330	-20,360
1990	32,680	7,430	-25,250	1990	232,710	195,210	-37,500
1991	32,200	10,000	-22,200	1991	147,860	199,890	52,030
1992	48,400	13,300	-35,100	1992	250,570	66,000	-184,570
Animal & Vegetable Oils				Animal Fats			
1987	145,350	81,740	-63,610	1987	16,860	4,910	-11,950
1988	226,860	82,480	-144,380	1988	18,020	4,890	-13,130
1989	306,630	151,060	-155,570	1989	32,750	3,410	-29,340
1990	296,200	137,870	-158,330	1990	30,990	5,370	-25,620
1991	392,300	197,090	-195,210	1991	24,270	2,540	-21,730
1992	360,250	214,530	-145,720	1992	25,640	2,480	-23,160
Fixed Vegetable Oils				Processed Oils			
1987	119,020	68,350	-50,670	1987	9,480	8,470	-1,010
1988	200,790	61,770	-139,020	1988	8,050	15,810	7,760
1989	268,670	136,580	-132,090	1989	5,210	11,060	5,850
1990	259,110	123,190	-135,920	1990	6,110	9,310	3,200
1991	361,680	188,960	-172,720	1991	6,350	5,600	-750
1992	322,270	201,700	-120,570	1992	12,340	10,360	-1,980
Crude Fertilizers				Manufactures Fertilizers			
1987	26,440	10	-26,430	1987	299,080	131,020	-168,060
1988	38,770	60	-38,710	1988	242,290	232,130	-10,160
1989	35,790	10	-35,780	1989	270,540	101,360	-169,180
1990	33,190	0	-33,190	1990	247,850	71,170	-176,680
1991	31,900	10	-31,890	1991	264,830	54,620	-210,210
1992	35,810	0	-35,810	1992	215,470	38,160	-177,310
Pesticides				Agricultural Machineries			
1987	43,400	5,130	-38,270	1987	41,750	21,720	-20,030
1988	45,580	6,370	-39,210	1988	21,360	20,730	-630
1989	46,570	2,800	-43,770	1989	22,460	12,290	-10,170
1990	60,920	4,050	-56,870	1990	41,070	3,880	-37,190
1991	58,950	12,450	-46,500	1991	65,310	13,480	-51,830
1992	66,910	20,120	-46,790	1992	64,990	12,630	-52,360

Source : Production Yearbook, FAO

Table-F.9 Trade Balance by Agricultural Commodities (1/2)

Item (Year)	Import			Export			Balance in Quantity ton	Balance in Quantity US\$1,000
	Quantity ton	Value US\$1,000	Price US\$/ton	Quantity ton	Value US\$1,000	Price US\$/ton		
<b>1. Cereala</b>								
1990	3,177,000	560,950	177	209,500	38,650	184	-2,967,500	-522,300
1991	637,900	102,890	161	3,968,900	396,100	100	3,331,000	293,210
1992	605,000	139,300	230	5,329,400	521,510	98	4,724,400	382,210
<b>1.1 Wheat &amp; wheat equivalent</b>								
1990	2,187,600	387,270	177	175,900	31,850	181	-2,011,700	-355,420
1991	198,300	22,160	112	3,171,700	320,320	101	2,973,400	298,160
1992	61,100	9,120	149	4,489,300	446,860	100	4,428,200	437,740
<b>1.2 Rice</b>								
1990	190,720	66,578	349	1,170	798	682	-189,550	-65,780
1991	132,780	41,470	312	5,530	2,105	381	-127,250	-39,365
1992	264,610	92,660	350	1,260	985	782	-263,350	-91,675
<b>1.3 Barley</b>								
1990	253,430	36,194	143	16,170	2,556	158	-237,260	-33,638
1991	79,120	10,927	138	780,740	68,977	88	701,620	58,050
1992	22,520	3,737	166	827,240	67,850	82	804,720	64,113
<b>1.4 Maize</b>								
1990	519,100	37,680	73	15,400	3,100	201	-503,700	-34,580
1991	76,500	11,360	148	10,100	4,500	446	-66,400	-6,860
1992	135,700	18,540	137	10,900	5,630	517	-124,800	-12,910
<b>2. Potatoes</b>								
1990	14,082	5,148	366	22,443	4,617	206	8,361	-531
1991	6,201	3,246	523	219,541	42,901	195	213,340	39,655
1992	7,369	2,031	276	373,968	51,046	136	366,599	49,015
<b>3. Pulses</b>								
1990	13,562	9,654	712	570,414	291,736	511	556,852	282,082
1991	147	193	1,313	549,943	242,303	441	549,796	242,110
1992	158	82	519	430,832	199,459	463	430,674	199,377
<b>4. Tomato Fresh</b>								
1990	1,678	156	93	33,586	12,557	374	31,908	12,401
1991	129	20	155	106,649	29,279	275	106,520	29,259
1992	0	0	-	45,064	12,430	276	45,064	12,430
<b>5. Onion</b>								
1990	17,708	2,720	154	85,802	12,924	151	68,094	10,204
1991	7	3	429	203,351	33,261	164	203,344	33,258
1992	47	5	106	205,719	22,854	111	205,672	22,849

Source: Trade Yearbook, Food and Agriculture Organization of the United Nations.

Table-F.9 Trade Balance by Agricultural Commodities (2/2)

Item	Import			Export			Balance in	Balance in
	Quantity ton	Value US\$1,000	Price US\$/ton	Quantity ton	Value US\$1,000	Price US\$/ton	Quantity ton	Quantity US\$1,000
<b>6. Oranges &amp; Tangerines</b>								
1990	0	0	-	195,086	79,002	405	195,086	79,002
1991	1,541	296	192	163,340	68,581	420	161,799	68,285
1992	6,737	813	121	134,592	50,626	376	127,855	49,813
<b>7. Lemons &amp; Limes</b>								
1990	158	17	108	125,084	51,262	410	124,926	51,245
1991	344	36	105	131,125	52,282	399	130,781	52,246
1992	138	15	109	143,587	52,823	368	143,449	52,808
<b>8. Apples</b>								
1990	57	2	35	92,416	33,031	357	92,359	33,029
1991	223	24	108	80,969	35,686	441	80,746	35,662
1992	24,356	3,112	128	40,878	15,760	386	16,522	12,648
<b>9. Grapes</b>								
1990	67	11	164	15,278	8,083	529	15,211	8,072
1991	0	0	-	12,201	6,976	572	12,201	6,976
1992	67	26	388	16,134	7,442	461	16,067	7,416
<b>10. Raisins</b>								
1990	36	6	167	117,102	150,684	1,287	117,066	150,678
1991	27	30	1,111	118,312	144,176	1,219	118,285	144,146
1992	620	238	384	107,696	128,509	1,193	107,076	128,271
<b>11. Peaches</b>								
1990	28	3	107	10,188	2,534	249	10,160	2,531
1991	9	3	333	5,566	2,247	404	5,557	2,244
1992	3	1	333	11,339	2,723	240	11,336	2,722
<b>12. Cotton Lint</b>								
1990	75,813	136,090	1,795	95,849	161,051	1,680	20,036	24,961
1991	46,317	79,172	1,709	101,398	168,837	1,665	55,081	89,665
1992	134,889	174,701	1,295	33,954	45,897	1,352	-100,935	-128,804
<b>15. Olive Oil</b>								
1990	1,882	3,078	1,635	3,386	4,588	1,355	1,504	1,510
1991	0	0	-	15,156	21,268	1,403	15,156	21,268
1992	2,446	1,068	437	11,358	18,942	1,668	8,912	17,874

Source: Trade Yearbook, Food and Agriculture Organization of the United Nations.



Table-F.10 Price Escalation in Turkey

Year Month	Exchange Rate	Wholesale Price Index (1987 = 100)			Consumer Price Index (1987 = 100)			
	Buying TL/US\$	TL	US\$	Increase Rate	TL	US\$	Increase Rate	
1987	857.20	100.0	100.0		100.0	100.0		
1988	1,422.40	170.5	102.8	2.75%	173.7	104.7	4.68%	
1989	2,121.70	279.5	112.9	9.90%	283.6	114.6	9.46%	
1990	2,606.36	425.7	140.0	23.99%	454.6	149.5	30.49%	
1991	4,168.11	661.4	136.0	-2.85%	754.4	155.1	3.77%	
1992	6,864.36	1,072.0	133.9	-1.58%	1,283.1	160.2	3.28%	
1993	10,965.42	1,698.0	132.7	-0.84%	2,131.1	166.6	3.97%	
1994	29,675.39	4,238.2	122.4	-7.77%	4,395.8	127.0	-23.78%	
1995	42,839.00	6,759.0	135.2	10.47%	7,911.2	158.3	24.67%	
Average 1987 - 1995				3.85%			5.91%	
1993	Jan.	8,694.38	1,364.8	134.6		1,672.3	164.9	
	Feb.	9,031.60	1,436.0	136.3		1,738.8	165.0	
	Mar.	9,376.25	1,504.3	137.5		1,821.7	166.5	
	Apr.	9,544.01	1,543.6	138.6		1,901.6	170.8	
	May	9,960.69	1,588.0	136.7		1,991.4	171.4	
	Jun.	10,463.94	1,625.2	133.1		2,027.9	166.1	
	Jul.	11,164.26	1,702.3	130.7		2,126.9	163.3	
	Aug.	11,623.14	1,766.2	130.3		2,183.7	161.0	
	Sept.	11,858.55	1,837.1	132.8		2,305.8	166.7	
	Oct.	12,483.48	1,902.6	130.6		2,464.7	169.2	
	Nov.	13,350.70	2,023.5	129.9		2,622.3	168.4	
	Dec.	14,034.01	2,082.2	127.2		2,717.2	166.0	
1994	Jan.	15,164.23	2,192.3	123.9	-7.90%	2,837.0	160.4	-2.73%
	Feb.	17,704.92	2,412.7	116.8	-14.29%	3,007.5	145.6	-11.77%
	Mar.	20,586.84	2,617.5	109.0	-20.75%	3,163.3	131.7	-20.91%
	Apr.	32,158.31	3,477.3	92.7	-33.14%	3,944.8	105.2	-38.43%
	May	33,714.26	3,789.6	96.4	-29.50%	4,337.4	110.3	-35.65%
	Jun.	31,682.55	3,861.1	104.5	-21.53%	4,377.0	118.4	-28.71%
	Jul.	30,969.79	3,894.8	107.8	-17.52%	4,452.6	123.2	-24.53%
	Aug.	31,664.00	4,001.1	108.3	-16.84%	4,543.1	123.0	-23.63%
	Sept.	33,916.54	4,217.4	106.6	-19.73%	4,868.3	123.0	-26.18%
	Oct.	34,882.19	4,507.4	110.8	-15.22%	5,330.4	131.0	-22.60%
	Nov.	36,258.27	4,795.9	113.4	-12.73%	5,761.9	136.2	-19.09%
	Dec.	37,402.77	5,196.1	119.1	-6.37%	6,127.0	140.4	-15.39%
1995	Jan.	40,156.91	5,630.3	120.2	-3.02%	6,542.1	139.6	-12.92%
	Feb.	40,977.15	6,026.3	126.1	7.92%	6,918.1	144.7	-0.61%
	Mar.	41,671.19	6,395.4	131.6	20.71%	7,201.8	148.1	12.47%
	Apr.	42,199.45	6,647.6	135.0	45.68%	7,665.5	155.7	48.08%
	May	42,839.00	6,759.0	135.2	40.37%	7,911.2	158.3	43.54%
	Jun.*	44,271.20	6,845.4	132.5	26.88%	8,069.9	156.3	31.94%
	Jul.*	45,703.40	7,009.1	131.5	21.95%	8,304.7	155.8	26.39%
	Aug.	47,135.60	7,444.2	135.4	24.99%	8,735.9	158.9	29.17%
	Sept.	48,567.80	7,672.7	135.4	27.05%	9,010.8	159.0	29.26%
	Oct.	50,000.00	7,901.1	135.5	22.29%	9,285.7	159.2	21.53%
1995/1994		149.46%	182.37%			181.18%		
Jul./Jan 1995		113.81%	124.49%			126.94%		

Source: (1): Statistical Indicators 1923 - 1992, State Institute of Statistics.

(2): Statistical Yearbook of Turkey 1994, State Institute of Statistics.

(3): Turkish Economy Statistics and Analysis July-August 1995, State Institute of Statistics.

(4): Figures for June to October 1995 is projected based on the past trend.

Table-F.11 List of Districts, Sub-districts and Municipalities/Villages in the Küçükmenderes River Basin (1/3)

District (İlçe)	Sub-district (Bucak)	Municipalities/Village (Belediye/Köy)	
Bayındır	City (Şehir) Merkez	1 Alanköy *	7 Çemkler
		2 Alanköy	8 Çıplakköy
		3 Balçular	9 Derelköy
		4 Buruncuk	10 Elifli
		5 Canlı	11 Ergenli
		6 Çamlıbel	12 Fırınlı
Beydağ	City (Şehir) Merkez	1 Çırpı	4 Dernekli
		2 Arıkbaşı	5 Hasköy
		3 Çiftçilediği	6 Havuzbaşı
Kiraz	City (Şehir) Merkez	1 Adaküre	5 Çiftlikköy
		2 Alakeçli	6 Çomaklar
		3 Bakırköy	7 Eğirdere
		4 Çamlık	8 Erikli
		1 Akpınar *	11 Çayğza
		2 Arıakçılar	12 Çömlekçi
		3 Avınduruk	13 Doğançılar *
		4 Aydoğdu	14 Dokuzlar
		5 Bahçearası *	15 Emenler
		6 Başaran	16 Gedik
7 Centler	17 Haliller		
8 Cevzli *	18 Hisarköy		
9 Çanakçı	19 İğdeli		
10 Çatak	20 Kaleköy		
Bayındır	City (Şehir) Merkez	13 Gaziler	19 Kuzılcağaç
		14 Hisarlık	20 Kuzılkeçili
		15 Kabağağaç	21 Kuzıloba
		16 Karahallı	22 Lunuflar
		17 Karahayit	23 Pınarlı
		18 Karapınar	24 Sanyurt
		7 Karaveliler	10 Osmanlar
		8 Kuzılcaova	11 Yakapınar
		9 Osmaniye	
		9 Halıköy	13 Palamutçuk
		10 Karoba	14 Serikaya
		11 Kurudere	15 Tabaklar
		12 Muraflar	16 Yağcılar
		21 Karabağ	31 Örenköy *
		22 Karabulu *	32 Pınarbaşı
		23 Karaburç	33 Saçlı
		24 Karaman	34 Sarıkaya
		25 Kibar	35 Sarsu *
		26 Mavidere	36 Sırmalı
		27 Mersinlidere	37 Solaklar
		28 Oğunlar	38 Sütudere
		29 Ovacak *	39 Şemsiler
		30 Örencik *	40 Taşlyatak *
		25 Süğütören	
		26 Tokatbaşı	
		27 Turan	
		28 Yakacak	
		29 Yusufu	
		30 Zeytinova	
		17 Yeşilyurt	
18 Yukarınaktepe			
19 Yukarıtosunlar			
41 Tekaçaklar			
42 Tombullar *			
43 Umurcalı			
44 Umurlu *			
45 Uzunköy			
46 Veliler			
47 Yağlar			
48 Yeniköy			
49 Yenişehir			
50 Yeşildere			

Note : \* ; Köy outside the Küçükmenderes River Basin. Location is confired on the topographic maps.  
Source : 1990 Census of Population (Social and Economic Characteristics of Population), State Institute of Statistics

Table-F.11 List of Districts, Sub-districts and Municipalities/Villages in the Küçükmenderes River Basin (2/3)

District (İlçe)	Sub-district (Bucak)	Municipalities/Village (Belediye/Köy)			
Odemiş	City (Şehir) Merkez	1 Bayezitler	9 Demircali	17 İlkurşun	25 Küçüktavlucak
		2 Bayrıtı	10 Deruzumyer	18 Karadoğan	26 Mursalı
		3 Bebekler	11 Dolaylar	19 Karakova	27 Ocaklı
		4 Bülbüller	12 Gerçekdi	20 Kayaköy	28 Oğuzlar
		5 Büyüktavlucak	13 Gereli	21 Keşililer	29 Ortaköy
		6 Çağlayan	14 Grünüce	22 Kerpiçlik	30 Sekaköy
		7 Çamyayla *	15 Horzum *	23 Kızalca	31 Seyrekli
		8 Çobanlar	16 Işık	24 Köşeler	32 Süleymanlar
	Bademli	1 Bademli	3 Emirli	5 Mescitli	
		2 Biçakçı	4 Kemenler	6 Piriñçi	
		1 Birgi	4 Cevizalanı	7 Kemerköy	10 Ovacak *
	Kaymakçı	2 Bezdağ *	5 Elmabağı *	8 Kaşlaköy	11 Üçkonak
		3 Bucak	6 Hacıhasan	9 Kutubeyler	12 Yılanlı
		1 Kaymakçı	4 Erugrulköy	7 Köfündere	10 Türkönü
	Ovakent	2 Alaşanlı	5 Eselli	8 Kurucanova	11 Üzümdere
		3 Çaylı	6 Kızılcaavlu	9 Orhangazi	12 Yeşilköy
1 Ovakent		4 Çamlıca	7 Güney *	10 Konaklı	
Selçuk	2 Balabanlı	5 Çayırköy *	8 Hamamköy *	11 Küçükören *	
	3 Bozcayaka	6 Demirdere *	9 Kazanlı	12 Kürç	
	City (Şehir) Merkez				
	1 Acarlar	3 Belevi	5 Gökçalın *	7 Sultaniye	
	2 Barutçu	4 Çamlık	6 Havuççulu	8 Şırince	
				9 Zeytin köy	

Note : \* ; Köy outside the Küçükmenderes River Basin. Location is confired on the topographic maps.

Source : 1990 Census of Population (Social and Economic Characteristics of Population), State Institute of Statistics

Table-F.11 List of Districts, Sub-districts and Municipalities/Villages in the Küçükmenderes River Basin (3/3)

District (İlçe)	Sub-district (Bucak)	Municipalities/Village (Belediye/Köy)						
Tire	City (Şehir) Merkez	1 Akköyümlü	10 Büyükkömürçü *	19 Dibekçi *	28 Kireli	37 Somak *		
		2 Akmescit *	11 Cambazlı	20 Deyranlı	29 Küçükburun *	38 Topalak *		
		3 Alacalı	12 Çayrılı	21 Doyranlı	30 Küçükkemerdere *	39 Toparlar *		
		4 Armutlu *	13 Çerikuzu *	22 Eskioba	31 Küçükkömürçü *	40 Turgutlu		
		5 Arpadere	14 Çiniyen	23 Hisarlık	32 Kürdüllü	41 Yemişler *		
		6 Ayaklıklar	15 Çukurköy	24 Işıklar	33 Mahmutlar	42 Yeniçiftlik		
		7 Başköy *	16 Dağdere *	25 Işıklı	34 Musalar *	43 Yenioba		
		8 Boyunyoğun	17 Dalkık	26 Kaplan	35 Ortaköy			
		9 Büyükkemerdere *	18 Derebaşı	27 Karateke	36 Palamutköy *			
	Boğaziçi	1 Büyükkale	3 Akyurt	5 Halkapınar	7 Kurşak	9 Mehmetler		
		2 Akçaşehir	4 Alaylı	6 Hasancavuşlar	8 Küçükkale	10 Üzümler		
		1 Gökçen	4 Eğridere	7 Kocaailer	10 Sarılar	13 Yenişehir		
	Gökçen	2 Çobanköy	5 Kırtepe	8 Osmançık	11 Saruhanlı			
		3 Dereli	6 Kızılcahavlu	9 Peşrefli	12 Yeğenli			
	Torbali	City (Şehir) Merkez	1 Ahmetli	8 Çaybaşı	15 Kaplançık	22 Ornaköy	29 Taşkesik	
			2 Arslanlar	9 Dağtekte	16 Karakızlar	23 Ozbey	30 Tutum	
			3 Atalari	10 Demirci *	17 Karakuyu	24 Pamukyazi	31 Yazınbaşı	
			4 Ayrancılar	11 Düverlik	18 Kirbaş	25 Pancar	32 Yeniköy	
			5 Bülbüldere	12 Eyerçi	19 Korucuk	26 Sağlık	33 Yeşilköy *	
			6 Çamlıca	13 Gollüce	20 Kuşçuburun	27 Subaşı	34 Yeğurtçular *	
			7 Çapak	14 Helvacı	21 Naimkeçy	28 Şehitler		
		Dağkızılca	1 Dağkızılca	3 Çakırbeyli	5 Karnot			
			2 Bozkey	4 Doğançılar *	6 Saipler			

Note : \* ; Köy outside the Küçükmenderes River Basin. Location is confired on the topographic maps.  
Source : 1990 Census of Population (Social and Economic Characteristics of Population), State Institute of Statistics

Table-F.12 Population in Izmir Province

		Population			Area Sq. km	Density /sq. km
		Total	Male	Female		
<b>1. Seven Districts in the River Basin</b>						
Beydağ	City	5,900	2,900	3,000	-	-
	Village	8,800	4,300	4,500	-	-
	Total	14,700	7,200	7,500	167	88
Kiraz	City	7,800	3,900	3,900	-	-
	Village	33,400	16,500	16,900	-	-
	Total	41,200	20,400	20,800	586	70
Ödemiş	City	51,600	25,800	25,800	-	-
	Village	76,400	39,900	36,500	-	-
	Total	128,000	65,700	62,300	1,079	119
Tire	City	37,800	18,600	19,200	-	-
	Village	39,400	19,800	19,600	-	-
	Total	77,200	38,400	38,800	802	96
Bayındır	City	13,900	6,800	7,100	-	-
	Village	33,300	16,600	16,700	-	-
	Total	47,200	23,400	23,800	588	80
Torbalı	City	21,200	10,700	10,500	-	-
	Village	50,000	25,100	24,900	-	-
	Total	71,200	35,800	35,400	600	119
Selçuk	City	19,400	10,100	9,300	-	-
	Village	8,000	4,100	3,900	-	-
	Total	27,400	14,200	13,200	295	93
Subtotal	City	157,600	78,800	78,800	-	-
	Village	249,300	126,300	123,000	-	-
	Total	406,900	205,100	201,800	4,117	99
<b>2. 12 Districts outside the River Basin except Provincial Center</b>						
	City	219,800	120,200	99,600	-	-
	Village	287,600	144,100	143,500	-	-
	Total	507,400	264,300	243,100	7,093	72
<b>3. Province Center (Bornova, Buca, Karşıyaka and Konak)</b>						
	City	1,757,400	897,600	859,800	-	-
	Village	23,100	12,800	10,300	-	-
	Total	1,780,500	910,400	870,100	763	2,334
<b>4. Total in Izmir Province</b>						
	City	2,134,800	1,096,600	1,038,200	-	-
	Village	560,000	283,200	276,800	-	-
	Total	2,694,800	1,379,800	1,315,000	11,973	225

Source: 1990 Census of Population (Social and Economic Characteristics of Population), State Institute of Statistics.

Table-F.13 Population Growth Rate in the River Basin (1985 to 1990)

District	1985 Population			No. of Household			Family Size			1990 Population			No. of Household			Family Size			Average Annual Growth Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>A. Districts in the River Basin</b>																					
1 Beydağ	5,129	2,506	2,623	-	-	-	5,831	2,870	2,961	1,548	3.77	2.60%	2.75%	2.45%							
City	9,441	4,676	4,765	-	-	-	8,801	4,347	4,454	-	-	-1.59%	-1.45%	-1.34%							
Village	14,570	7,182	7,388	-	-	-	14,632	7,217	7,415	-	-	0.08%	0.10%	0.07%							
Total	8,001	4,126	3,875	1,709	4.68	-	33,397	16,474	16,923	1,912	4.11	-0.38%	-0.94%	0.20%							
2 Kiraz	32,704	16,184	16,520	-	-	-	41,247	20,410	20,837	-	-	0.26%	0.10%	0.48%							
City	40,705	20,310	20,395	-	-	-	51,620	25,846	25,774	-	-	1.69%	1.71%	1.67%							
Village	47,475	23,747	23,728	12,300	4.28	-	76,348	39,862	36,486	-	-	0.73%	1.17%	0.26%							
Total	73,628	37,605	36,023	-	-	-	127,968	65,708	62,260	14,055	3.67	1.11%	1.38%	0.83%							
3 Ödemiş	121,103	61,352	59,751	-	-	-	37,855	18,649	19,206	10,841	3.49	1.56%	1.63%	1.49%							
City	35,044	17,203	17,841	9,883	3.55	-	39,459	19,813	19,646	-	-	0.29%	0.67%	-0.08%							
Village	38,886	19,165	19,721	-	-	-	77,314	38,462	38,852	-	-	0.90%	1.13%	0.68%							
Total	73,930	36,368	37,562	-	-	-	13,862	6,795	7,067	3,703	3.74	-4.19%	-5.24%	-3.11%							
4 Tire	17,171	8,895	8,276	3,761	4.57	-	33,264	16,568	16,696	-	-	-0.05%	-0.18%	0.09%							
City	33,340	16,715	16,625	-	-	-	47,126	23,363	23,763	-	-	-1.38%	-1.82%	-0.93%							
Village	50,511	25,610	24,901	-	-	-	21,167	10,660	10,507	4,911	4.31	2.95%	2.95%	2.96%							
Total	18,300	9,219	9,081	3,919	4.67	-	50,005	25,148	24,857	-	-	2.29%	2.19%	2.38%							
5 Baındır	44,663	22,563	22,100	-	-	-	71,172	35,808	35,364	-	-	2.48%	2.41%	2.55%							
City	62,963	31,782	31,181	-	-	-	19,412	10,076	9,336	4,129	4.70	3.63%	4.06%	3.17%							
Village	16,242	8,256	7,986	3,547	4.58	-	7,941	4,063	3,878	-	-	0.85%	1.38%	0.30%							
Total	7,613	3,793	3,820	-	-	-	27,353	14,139	13,214	-	-	2.77%	3.25%	2.28%							
6 Torbalı	23,855	12,049	11,806	-	-	-	157,597	78,832	78,765	41,099	3.83	1.35%	1.29%	1.42%							
City	147,362	73,952	73,410	35,119	4.20	-	249,215	126,275	122,940	-	-	0.73%	0.91%	0.56%							
Village	240,275	120,701	119,574	-	-	-	205,107	105,107	201,705	-	-	0.97%	1.05%	0.89%							
Total	387,637	194,653	192,984	-	-	-	1,977,219	1,017,765	959,454	481,373	4.11	3.64%	3.36%	3.94%							
<b>B. Districts outside the River Basin</b>																					
City	1,633,435	862,548	790,887	390,980	4.23	-	310,739	156,906	153,833	-	-	2.34%	2.16%	2.54%							
Village	276,757	141,035	135,722	-	-	-	2,287,958	1,174,671	1,113,287	-	-	3.46%	3.20%	3.74%							
Total	1,930,192	1,003,583	926,609	-	-	-	2,134,816	1,096,597	1,038,219	522,472	4.09	3.46%	3.21%	3.73%							
<b>C. Total Izmir Province</b>																					
City	1,800,797	936,500	864,297	426,099	4.23	-	559,954	283,181	276,773	127,919	4.38	1.61%	1.59%	1.63%							
Village	517,032	261,736	255,296	119,949	4.33	-	2,694,770	1,379,778	1,314,992	650,391	4.14	3.06%	2.86%	3.27%							
Total	2,317,829	1,198,236	1,119,593	545,448	4.25	-	-	-	-	-	-	-	-	-							

Source: 1985 and 1990 Census of Population (Social and Economic Characteristics of Population), State Institute of Statistics.

Table-F.14 Population Projection in the Küçük Menderes River Basin

(Unit: person)

	1985 Census of Population			1990 Census of Population			Population Projection					
	Population		Female	Population		Female	Year in 2000		Total	Year in 2020		
	Total	Male		Total	Male		Total	Male		Total	Male	Female
<b>1. Districts in the River Basin</b>												
City	147,400	74,000	73,400	157,600	78,800	78,800	174,100	87,100	87,000	212,600	106,400	106,200
					1.26%	1.43%		1.00%	1.00%		1.00%	1.00%
Village	240,300	120,700	119,600	249,200	126,300	122,900	261,900	132,800	129,100	289,300	146,700	142,600
					0.91%	0.55%		0.50%	0.50%		0.50%	0.50%
Total	387,700	194,700	193,000	406,800	205,100	201,700	436,000	219,900	216,100	501,900	253,100	248,800
<b>2. Districts outside the River Basin</b>												
City	1,653,400	862,500	790,900	1,977,200	1,017,800	959,400	2,777,500	1,400,500	1,377,000	3,452,200	1,937,200	1,515,000
					3.37%	3.94%						
Village	276,700	141,000	135,700	310,800	156,900	153,900	394,300	197,400	196,900	611,700	302,300	309,400
					2.16%	2.55%						
Total	1,930,100	1,003,500	926,600	2,288,000	1,174,700	1,113,300	3,171,800	1,597,900	1,573,900	4,063,900	2,239,500	1,824,400
<b>3. Total in Izmir Province</b>												
City	1,800,800	936,500	864,300	2,134,800	1,096,600	1,038,200	2,951,600	1,487,600	1,464,000	3,664,800	2,043,600	1,621,200
		52%	48%		3.21%	3.73%		3.10%	3.50%		2.10%	1.50%
Village	517,000	261,700	255,300	560,000	283,200	276,800	656,200	330,200	326,000	901,000	449,000	452,000
		51%	49%		1.59%	1.63%		1.55%	1.65%		1.55%	1.65%
Total	2,317,800	1,198,201	1,119,600	2,694,800	1,379,800	1,315,000	3,607,800	1,817,800	1,790,000	4,565,800	2,492,600	2,073,200
		52%	48%		51%	49%		50%	50%		55%	45%

Source: Population in 1985 and 1995 is quoted from Census of Population, State Institute of Statistics.

Table-F.15 Population by Age Group in Izmir Province

(Unit: person)

Age Group	Province		Main Municipality		District Centers		Sub-districts and Villages	
	Total	Male	Total	Male	Total	Male	Total	Male
	Female	Female	Female	Female	Female	Female	Female	Female
00-04	219,720	112,480	145,207	74,130	28,947	14,908	45,566	23,442
05-09	257,765	131,654	169,085	86,546	34,610	17,622	54,070	27,486
10-14	279,913	143,988	183,733	95,300	36,851	19,126	59,329	29,562
15-19	277,209	147,156	183,007	98,357	35,405	19,273	58,797	29,271
20-24	257,538	137,727	174,482	93,365	39,356	23,975	43,700	20,387
25-29	246,786	126,675	165,113	83,468	34,120	17,953	47,553	25,254
30-34	223,419	115,692	149,421	76,451	31,959	16,914	42,039	22,327
35-39	199,171	102,717	132,417	67,464	28,333	15,013	38,421	20,240
40-44	160,242	83,081	106,155	54,345	22,810	12,242	31,277	16,494
45-49	125,586	64,922	80,940	41,727	17,636	9,338	27,010	13,857
50-54	112,444	56,210	69,462	34,397	16,308	8,273	26,674	13,540
55-59	104,533	52,684	63,248	31,546	15,530	7,961	25,655	13,177
60-64	91,638	43,578	54,479	25,276	13,493	6,557	23,666	11,745
65-69	58,488	28,154	34,921	16,594	8,951	4,402	14,616	7,158
70-74	29,704	12,987	17,799	7,805	4,457	1,967	7,448	3,215
75-79	25,573	11,011	13,964	5,862	4,305	1,825	7,304	3,324
80-84	14,270	5,132	7,727	2,727	2,457	897	4,086	1,508
85+	8,651	2,739	4,815	1,522	1,471	483	2,365	734
Unknown	2,120	1,191	1,339	744	403	242	378	205
Total	2,694,770	1,379,778	1,757,414	897,626	377,402	198,971	559,954	283,181
00-09	17.7%	17.7%	17.9%	17.9%	16.8%	16.3%	17.8%	18.0%
10-19	20.7%	21.1%	20.9%	21.6%	19.1%	19.3%	21.1%	20.9%
20-44	40.3%	41.0%	41.4%	41.8%	41.5%	43.3%	36.3%	37.0%
45-59	12.7%	12.6%	12.2%	12.0%	13.1%	12.9%	14.2%	14.3%
60+	8.5%	7.5%	7.6%	6.7%	9.3%	8.1%	10.6%	9.8%
Unknown	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Source: 1990 Census of Population (Social and Economic Characteristics of Population), State Institute of Statistics.



Table-F.16 Occupational Status of Population over 12 Years Old in İzmir Province

	Province Total		Main Municipality		District Centers		Villages					
	Total	Male	Female	Total	Male	Female	Total	Male				
1. Economic active population	1,080,400	773,700	306,700	572,100	459,500	112,600	142,000	116,900	25,100	366,300	197,300	169,000
1.1 Employment (Employment rate)	94.3%	93.9%	95.5%	91.8%	92.0%	91.2%	92.6%	93.1%	90.0%	99.3%	99.0%	99.6%
1.2 Unemployment (Unemployment rate)	5.7%	6.1%	4.5%	8.2%	8.0%	8.8%	7.4%	6.9%	10.0%	0.7%	1.0%	0.4%
1.3 Sub-total	1,145,300	824,200	321,100	623,000	499,500	123,500	153,400	125,500	27,900	368,900	199,200	169,700
2. Economic inactive population	120,200	91,800	28,400	103,300	77,800	25,500	11,900	10,000	1,900	5,000	4,000	1,000
2.1 Retired	570,400	0	570,400	436,800	0	436,800	96,700	0	96,700	36,800	0	36,800
2.2 House wife	213,400	115,300	98,100	169,800	91,000	78,800	26,300	14,200	12,100	17,400	10,100	7,300
2.3 Student	54,900	46,300	8,600	35,700	30,400	5,300	10,300	8,900	1,400	9,000	7,100	1,900
2.4 Others	958,900	253,400	705,500	745,600	199,200	546,400	145,200	33,100	112,100	68,200	21,200	47,000
2.5 Sub-total	1,000	600	400	400	300	100	400	200	200	200	100	100
3. Unknown	2,105,200	1,078,200	1,027,000	1,369,000	699,000	670,000	299,000	158,800	140,200	437,300	220,500	216,800
4. Grand total over 12 years	83,700	52,400	31,300	64,900	39,500	25,400	12,400	8,300	4,100	6,400	4,600	1,800
5. Occupation	16,000	14,800	1,200	12,400	11,400	1,000	2,400	2,200	200	1,300	1,200	100
5.1 Technical worker	63,900	36,800	27,100	52,700	29,400	23,300	8,100	5,100	3,000	3,100	2,300	800
5.2 Administrative worker	95,900	84,900	11,000	75,500	66,200	9,300	14,100	12,900	1,200	6,400	5,900	500
5.3 Clerical worker	91,300	77,300	14,000	65,600	54,000	11,600	16,800	15,100	1,700	8,800	8,100	700
5.4 Service worker	349,600	169,700	179,900	18,300	11,500	6,800	32,400	20,600	11,800	298,800	137,500	161,300
5.5 Commercial worker	32.4%	21.9%	58.7%	3.2%	2.5%	6.0%	22.8%	17.6%	47.2%	81.6%	69.7%	95.4%
5.6 Agriculture (share)	379,600	337,500	42,100	282,400	247,200	35,200	55,600	52,600	3,000	41,500	37,700	3,800
5.7 Other worker	300	300	0	200	200	0	100	100	0	0	0	0
5.8 Unknown	1,080,300	773,700	306,600	572,000	459,400	112,600	141,900	116,900	25,000	366,300	197,300	169,000
5.9 Sub-total												

Source: 1990 Census of Population (Social and Economic Characteristics of Population), State Institute of Statistics.

Table-F.17 Future Demand for Municipality Water Supply in Ödemiş Town

Year	Lower Case		Higher Case		per Capita Supply (lit/day)	Total Drinking Water Demand			Increment from 1995 (m3/year)
	Population in Town	Growth Rate	Population in Town	Growth Rate		Lower (m3/year)	Higher (m3/year)	Average (m3/year)	
1980	40,736	-	-	-	-	-	-	-	-
1985	47,475	3.11%	-	-	-	-	-	-	-
1990	51,620	1.69%	-	-	-	-	-	-	-
	Average	2.40%	-	-	-	-	-	-	-
1991	52,500	1.69%	52,900	2.40%	-	-	-	-	-
1992	53,400	1.65%	54,200	2.37%	-	-	-	-	-
1993	54,300	1.60%	55,500	2.35%	-	-	-	-	-
1994	55,100	1.55%	56,800	2.32%	-	-	-	-	-
1995	55,900	1.50%	58,100	2.30%	210	4,300,000	4,500,000	4,400,000	-
1996	56,700	1.45%	59,400	2.27%	211	4,400,000	4,600,000	4,500,000	100,000
1997	57,500	1.40%	60,700	2.25%	211	4,400,000	4,700,000	4,550,000	150,000
1998	58,300	1.35%	62,000	2.22%	212	4,500,000	4,800,000	4,650,000	250,000
1999	59,100	1.30%	63,400	2.20%	212	4,600,000	4,900,000	4,750,000	350,000
2000	59,800	1.25%	64,800	2.17%	213	4,600,000	5,000,000	4,800,000	400,000
2001	60,500	1.20%	66,200	2.15%	213	4,700,000	5,100,000	4,900,000	500,000
2002	61,200	1.15%	67,600	2.12%	214	4,800,000	5,300,000	5,050,000	650,000
2003	61,900	1.10%	69,000	2.10%	214	4,800,000	5,400,000	5,100,000	700,000
2004	62,500	1.05%	70,400	2.07%	215	4,900,000	5,500,000	5,200,000	800,000
2005	63,100	1.00%	71,800	2.05%	215	5,000,000	5,600,000	5,300,000	900,000
2006	63,700	1.00%	73,300	2.02%	216	5,000,000	5,800,000	5,400,000	1,000,000
2007	64,300	1.00%	74,800	2.00%	216	5,100,000	5,900,000	5,500,000	1,100,000
2008	64,900	1.00%	76,300	1.97%	217	5,100,000	6,000,000	5,550,000	1,150,000
2009	65,500	1.00%	77,800	1.95%	217	5,200,000	6,200,000	5,700,000	1,300,000
2010	66,200	1.00%	79,300	1.92%	218	5,300,000	6,300,000	5,800,000	1,400,000
2011	66,900	1.00%	80,800	1.90%	218	5,300,000	6,400,000	5,850,000	1,450,000
2012	67,600	1.00%	82,300	1.87%	219	5,400,000	6,600,000	6,000,000	1,600,000
2013	68,300	1.00%	83,800	1.85%	219	5,500,000	6,700,000	6,100,000	1,700,000
2014	69,000	1.00%	85,300	1.82%	220	5,500,000	6,800,000	6,150,000	1,750,000
2015	69,700	1.00%	86,800	1.80%	220	5,600,000	7,000,000	6,300,000	1,900,000
2016	70,400	1.00%	88,300	1.77%	221	5,700,000	7,100,000	6,400,000	2,000,000
2017	71,100	1.00%	89,800	1.75%	221	5,700,000	7,200,000	6,450,000	2,050,000
2018	71,800	1.00%	91,300	1.72%	222	5,800,000	7,400,000	6,600,000	2,200,000
2019	72,500	1.00%	92,800	1.70%	222	5,900,000	7,500,000	6,700,000	2,300,000
2020	73,200	1.00%	94,400	1.67%	223	5,900,000	7,700,000	6,800,000	2,400,000

Source: Population, 1985 and 1990 Census Population, per Capita supply; DSI II.

Table-F.18 Future Demand for Municipality Water Supply in Bayındır Town

Year	Lower Case		Higher Case		per Capita Supply (lit/day)	Total Drinking Water Demand			Increment from 1995 (m3/year)
	Population in Town	Growth Rate	Population in Town	Growth Rate		Lower (m3/year)	Higher (m3/year)	Average (m3/year)	
1980	12,440	-	-	-	-	-	-	-	-
1985	17,171	6.66%	-	-	-	-	-	-	-
1990	13,862	4.19%	-	-	-	-	-	-	-
	Average	1.09%	-	-	-	-	-	-	-
1991	14,000	1.09%	14,300	2.95%	-	-	-	-	-
1992	14,200	1.09%	14,700	2.95%	-	-	-	-	-
1993	14,400	1.09%	15,100	2.95%	-	-	-	-	-
1994	14,600	1.09%	15,500	2.95%	-	-	-	-	-
1995	14,800	1.09%	16,000	2.95%	100	500,000	600,000	550,000	-
1996	15,000	1.04%	16,500	2.95%	101	600,000	600,000	600,000	50,000
1997	15,200	1.04%	17,000	2.95%	102	600,000	600,000	600,000	50,000
1998	15,400	1.04%	17,500	2.95%	102	600,000	700,000	650,000	100,000
1999	15,600	1.04%	18,000	2.95%	103	600,000	700,000	650,000	100,000
2000	15,800	1.04%	18,500	2.95%	104	600,000	700,000	650,000	100,000
2001	16,000	1.00%	19,000	2.90%	105	600,000	700,000	650,000	100,000
2002	16,200	1.00%	19,500	2.85%	106	600,000	800,000	700,000	150,000
2003	16,400	1.00%	20,000	2.80%	106	600,000	800,000	700,000	150,000
2004	16,600	1.00%	20,600	2.75%	107	600,000	800,000	700,000	150,000
2005	16,800	1.00%	21,200	2.70%	108	700,000	800,000	750,000	200,000
2006	17,000	1.00%	21,800	2.65%	109	700,000	900,000	800,000	250,000
2007	17,200	1.00%	22,400	2.60%	110	700,000	900,000	800,000	250,000
2008	17,400	1.00%	23,000	2.55%	110	700,000	900,000	800,000	250,000
2009	17,600	1.00%	23,600	2.50%	111	700,000	1,000,000	850,000	300,000
2010	17,800	1.00%	24,200	2.45%	112	700,000	1,000,000	850,000	300,000
2011	18,000	1.00%	24,800	2.40%	113	700,000	1,000,000	850,000	300,000
2012	18,200	1.00%	25,400	2.35%	114	800,000	1,100,000	950,000	400,000
2013	18,400	1.00%	26,000	2.30%	114	800,000	1,100,000	950,000	400,000
2014	18,600	1.00%	26,600	2.25%	115	800,000	1,100,000	950,000	400,000
2015	18,800	1.00%	27,200	2.20%	116	800,000	1,200,000	1,000,000	450,000
2016	19,000	1.00%	27,800	2.15%	117	800,000	1,200,000	1,000,000	450,000
2017	19,200	1.00%	28,400	2.10%	118	800,000	1,200,000	1,000,000	450,000
2018	19,400	1.00%	29,000	2.05%	118	800,000	1,300,000	1,050,000	500,000
2019	19,600	1.00%	29,600	2.00%	119	900,000	1,300,000	1,100,000	550,000
2020	19,800	1.00%	30,200	1.95%	120	900,000	1,300,000	1,100,000	550,000

Source: Population; 1985 and 1990 Census Population, per Capita supply; DSI II.

Table-F.19 Population of Villages and Towns Included in the Project Area

Administrative unit	1980		1985		1990		80 - 90 Growth Rate	Land* Area (ha)	Population Density (per km <sup>2</sup> )
	Popula- tion	Popula- tion	Growth Rate	Popula- tion	Growth Rate	Popula- tion			
Beydağ District	7,016	7,312	0.83%	7,798	1.30%	1.06%	7,259	107.4	
Şehir (Town)	4,710	5,131	1.73%	5,831	2.59%	2.16%	854	682.8	
Merkez	2,306	2,181	-1.11%	1,967	-2.04%	-1.58%	6,405	30.7	
Alaşehirli	356	221	-9.09%	191	-2.88%	-6.01%	446	42.8	
Halköy	612	668	1.77%	646	-0.67%	0.54%	1,904	33.9	
Sarıkaya	154	199	5.26%	161	-4.15%	0.45%	553	29.1	
Yağcılar	938	841	-2.16%	747	-2.34%	-2.25%	2,177	34.3	
Tosunlar	246	252	0.48%	222	-2.50%	-1.02%	1,325	16.8	
Ödemiş District	71,653	79,161	2.01%	82,513	0.83%	1.42%	45,508	181.3	
Şehir (Town)	40,736	47,475	3.11%	51,620	1.69%	2.40%	4,350	1,186.7	
Merkez	7,232	7,011	-0.62%	6,945	-0.19%	-0.40%	7,418	93.6	
Büyüklavucak	502	406	-4.16%	380	-1.31%	-2.75%	450	84.4	
Demircili	1,109	1,161	0.92%	1,136	-0.43%	0.24%	823	138.0	
Gerçekli	576	624	1.61%	609	-0.49%	0.56%	1,134	53.7	
Gereli	1,100	1,071	-0.53%	1,100	0.54%	0.00%	1,015	108.4	
Karakova	258	188	-6.13%	169	-2.11%	-4.14%	654	25.8	
Ocaklı	980	695	-6.64%	668	-0.79%	-3.76%	757	88.2	
Seyrekli	1,100	1,196	1.69%	1,193	-0.05%	0.81%	1,320	90.4	
Yolüstü	1,607	1,670	0.77%	1,690	0.24%	0.50%	1,265	133.6	
Bademli	2,486	2,461	-0.20%	2,238	-1.88%	-1.05%	2,589	86.4	
Emirli	1,191	1,163	-0.47%	1,110	-0.93%	-0.70%	1,438	77.2	
Mescitli	1,295	1,298	0.05%	1,128	-2.77%	-1.37%	1,151	98.0	
Birgi	143	142	-0.14%	137	-0.71%	-0.43%	1,100	12.5	
Kışlaköy	143	142	-0.14%	137	-0.71%	-0.43%	1,100	12.5	
Kaymakçı	11,022	11,604	1.03%	11,716	0.19%	0.61%	18,201	64.4	
Kaymakçı	4,239	4,879	2.85%	5,325	1.76%	2.31%	4,335	122.8	
Araşarlı	524	524	0.00%	560	1.34%	0.67%	1,670	33.5	
Çaylı	2,783	2,843	0.43%	2,547	-2.17%	-0.88%	1,671	152.4	
Ertuğrulköy	804	828	0.59%	801	-0.66%	-0.04%	789	101.5	
Eselli	330	133	-16.62%	113	-3.21%	-10.16%	1,743	6.5	
Kızılcaavlu	642	670	0.86%	650	-0.60%	0.12%	1,682	38.6	
Kurucaova	1,000	1,014	0.28%	1,035	0.41%	0.34%	4,349	23.8	
Türkönü	480	511	1.26%	467	-1.78%	-0.27%	1,048	44.6	
Yeşilköy	220	202	-1.69%	218	1.54%	-0.09%	914	23.9	
Ovakent	10,034	10,468	0.85%	9,857	-1.20%	-0.18%	11,850	83.2	
Ovakent	4,753	4,837	0.35%	4,404	-1.86%	-0.76%	3,180	138.5	
Balabanlı	1,140	1,223	1.42%	1,189	-0.56%	0.42%	1,682	70.7	
Bozcayaka	650	748	2.85%	684	-1.77%	0.51%	3,131	21.8	
Kazanlı	717	814	2.57%	1,057	5.36%	3.96%	1,187	89.0	
Konaklı	2,774	2,846	0.51%	2,523	-2.38%	-0.94%	2,670	94.5	
Tire District	1,947	2,193	2.41%	2,067	-1.18%	0.60%	3,300	62.6	
Gökçen	1,947	2,193	2.41%	2,067	-1.18%	0.60%	3,300	62.6	
Kızılcahavlu	1,343	1,537	2.74%	1,457	-1.06%	0.82%	2,326	62.6	
Yeğenli	604	656	1.67%	610	-1.44%	0.10%	974	62.6	
Grand Total	80,616	88,666	1.92%	92,378	0.82%	1.37%	56,067	164.8	

Note: \*; Data on land area of villages from Provincial Directorate of Ministry of Agriculture and Rural Affairs.  
Source: Population Census 1980, 1985 and 1990, State Institute of Statistics.

Table-F.20 Employment and Occupational Status of Population above 12 Years Old in the Project Area

Items	Beydaj District Center		Odemis District Center		District Centers		Villages and Municipalities		Total in Project Area				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			
1. Total population	2,870	2,960	5,830	5,620	28,720	28,730	57,450	17,210	17,720	34,930	45,930	46,450	92,380
2. Population above 12 years old	2,300	2,390	4,690	4,720	22,430	22,980	45,410	13,390	13,870	27,260	35,820	36,850	72,670
3. Economic inactive population	600	2,010	4,580	17,450	5,180	19,460	24,640	1,290	3,000	4,290	6,470	22,460	28,930
3.1 Retired	180	10	190	240	1,600	250	1,850	240	60	300	1,840	310	2,150
3.2 House wife	0	1,780	1,780	0	15,380	15,380	17,160	0	2,350	2,350	0	19,510	19,510
3.3 Students	260	220	480	1,630	2,200	1,850	4,050	620	470	1,090	2,820	2,320	5,140
3.4 Others	160	0	160	1,220	1,380	200	1,580	430	120	550	1,810	320	2,130
4. Economic active population	1,700	380	2,080	18,690	17,250	3,520	20,770	12,100	10,870	22,970	29,350	14,390	43,740
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
5. Unemployment	190	40	230	1,060	1,390	370	1,620	120	40	160	1,370	410	1,780
	11.2%	10.5%	11.1%	6.8%	7.4%	10.5%	7.8%	1.0%	0.4%	0.7%	4.7%	2.8%	4.1%
6. Employment	1,510	340	1,850	17,280	15,990	3,140	19,130	11,980	10,830	22,810	27,970	13,970	41,940
	88.8%	89.5%	88.9%	93.1%	92.7%	89.2%	92.1%	99.0%	99.6%	99.3%	95.3%	97.1%	95.9%
6.1 Technical worker	90	50	140	870	960	530	1,490	280	120	400	1,240	650	1,890
	5.3%	13.2%	6.7%	5.6%	5.6%	15.1%	7.2%	2.3%	1.1%	1.7%	4.2%	4.5%	4.3%
6.2 Administrative worker	30	0	30	300	330	10	340	70	10	80	400	20	420
	1.8%	0.0%	1.4%	1.9%	1.7%	0.3%	1.6%	0.6%	0.1%	0.3%	1.4%	0.1%	1.0%
6.3 Clerical worker	70	30	100	580	650	300	950	140	60	200	790	360	1,150
	4.1%	7.9%	4.8%	3.7%	3.8%	8.5%	4.6%	1.2%	0.6%	0.9%	2.7%	2.5%	2.6%
6.4 Service worker	150	10	160	2,360	2,510	130	2,640	360	30	390	2,870	160	3,030
	8.8%	2.6%	7.7%	15.2%	14.6%	3.7%	12.7%	3.0%	0.3%	1.7%	9.8%	1.1%	6.9%
6.5 Commercial worker	180	10	190	1,620	1,800	140	1,940	490	40	530	2,290	180	2,470
	10.6%	2.6%	9.1%	10.4%	10.4%	4.0%	9.3%	4.0%	0.4%	2.3%	7.8%	1.3%	5.6%
6.6 Agriculture	300	180	480	2,680	2,980	1,500	4,480	8,350	10,330	18,680	11,330	11,830	23,160
	17.6%	47.4%	23.1%	17.2%	17.3%	42.6%	21.6%	69.0%	95.0%	81.5%	38.6%	82.2%	52.9%
6.7 Others	690	60	750	6,060	470	530	7,280	2,290	240	2,530	9,040	770	9,810
	40.6%	15.8%	36.1%	39.0%	39.1%	15.1%	35.1%	18.9%	2.2%	11.0%	30.8%	5.4%	22.4%
6.8 Unknown	0	0	0	10	10	0	10	0	0	0	10	0	10
	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Source: 1990 Census of Population (Social and Economic Characteristics of Population), State Institute of Statistics.

Table-F.21 Farmgate Prices and Floor Prices of Products in the River Basin (1/2)

(Unit: TL/kg)

Crops	Odemis District		Tire District		Bayidir District		Torballi District	
	Average	Median	Average	Median	Average	Median	Average	Median
Wheat								
Max. Mean	5,500	5,800	8,000	3,500	8,000	3,600	8,000	3,300
Min. Mean	1,000	3,000	2,000	3,000	3,000	3,000	2,500	3,000
Ave. Mean	3,200	3,300	3,300	3,000	3,600	3,000	3,400	3,200
Barley								
Max. Mean	-	-	7,000	7,000	-	-	3,000	3,000
Min. Mean	-	-	6,000	6,000	-	-	2,800	2,800
Ave. Mean	-	-	-	-	-	-	3,000	3,000
Oat								
Max. Mean	-	-	-	-	-	-	3,000	3,000
Min. Mean	-	-	-	-	-	-	2,800	2,800
Ave. Mean	-	-	-	-	-	-	3,000	3,000
Cotton								
Max. Mean	55,000	48,000	50,000	43,500	50,000	46,000	55,000	30,000
Min. Mean	5,000	16,400	18,000	23,000	9,800	23,000	5,000	23,000
Ave. Mean	26,200	26,950	28,300	27,000	26,900	25,200	27,200	27,000
Tobacco								
Max. Mean	140,000	-	142,000	125,000	-	-	132,000	127,500
Min. Mean	45,000	-	9,000	55,500	-	-	35,000	50,000
Ave. Mean	67,400	-	92,200	100,000	-	-	115,700	115,000
Maize								
Max. Mean	-	3,900	-	-	6,000	6,000	1,800	1,800
Min. Mean	-	3,250	-	-	5,000	5,000	1,500	1,500
Ave. Mean	-	3,100	-	-	4,500	4,500	1,700	1,650
Sesame								
Max. Mean	-	40,000	-	-	-	-	40,000	40,000
Min. Mean	-	30,000	-	-	-	-	30,000	30,000
Ave. Mean	-	35,000	-	-	-	-	35,000	35,000
Potatoes								
Max. Mean	17,000	7,500	5,000	4,500	10,000	5,000	-	-
Min. Mean	500	3,250	2,750	2,750	2,500	4,000	-	-
Ave. Mean	3,500	4,900	3,500	3,500	4,800	5,000	-	-
Vetches								
Max. Mean	-	40,000	-	-	-	-	40,000	40,000
Min. Mean	-	35,000	-	-	-	-	35,000	35,000
Ave. Mean	-	36,000	-	-	-	-	36,000	36,000
Tomatoes								
Max. Mean	7,000	11,000	-	-	15,000	15,000	7,000	5,500
Min. Mean	1,000	3,000	-	-	4,000	5,000	2,000	2,000
Ave. Mean	3,000	4,150	-	-	5,700	5,000	3,300	3,250

Source: Farm household survey conducted by the Study Team during February to March 1995.

Table-F.21 Farmgate Prices and Floor Prices of Products in the River Basin (2/2)

Crops	(Unit: TL/kg)							
	Odemis District		Tire District		Bayidir District		Torbalı District	
	Average	Median	Average	Median	Average	Median	Average	Median
Pepper								
Max. Mean	5,000	11,000	5,000	3,000	40,000	10,000	12,000	10,000
Min. Mean	500	1,750	2,000	2,000	700	3,000	1,500	2,000
Ave. Meam	2,100	5,250	2,600	2,750	9,100	6,500	4,000	4,000
Eggplant								
Max. Mean	5,000	17,500	-	-	20,000	15,000	-	-
Min. Mean	500	4,250	-	-	4,000	4,500	-	-
Ave. Meam	1,600	5,650	-	-	6,300	5,000	-	-
Watermelon								
Max. Mean	5,000	2,750	5,000	2,500	3,000	1,500	3,000	2,500
Min. Mean	500	700	200	1,000	350	1,000	400	1,000
Ave. Meam	1,900	1,500	1,400	1,375	1,400	1,500	1,600	1,500
Cucumber								
Max. Mean	18,000	13,250	12,000	10,500	15,000	11,500	16,000	11,000
Min. Mean	1,000	1,250	1,500	2,250	1,500	4,000	1,000	1,000
Ave. Meam	9,100	8,000	6,500	6,500	8,000	8,000	8,300	8,000
Olive								
Max. Mean	-	13,750	5,000	5,000	43,000	12,500	15,000	10,000
Min. Mean	-	4,250	5,000	5,000	1,000	9,000	3,000	5,500
Ave. Meam	-	8,825	-	-	15,300	10,000	7,300	7,650
Olive Oil								
Max. Mean	90,000	51,250	90,000	80,000	80,000	57,500	45,000	42,500
Min. Mean	45,000	20,000	60,000	60,000	10,000	36,500	14,000	26,000
Ave. Meam	65,000	60,000	75,000	75,000	50,200	65,000	60,000	60,000
Figs								
Max. Mean	18,000	25,000	30,000	26,000	-	-	25,000	25,000
Min. Mean	6,000	5,000	6,000	16,500	-	-	5,000	5,000
Ave. Meam	-	20,000	15,000	15,000	-	-	20,000	20,000
Apple								
Max. Mean	10,000	-	-	-	-	-	-	-
Min. Mean	10,000	-	-	-	-	-	-	-
Ave. Meam	10,000	-	-	-	-	-	-	-
Peaches								
Max. Mean	5,000	15,000	6,000	6,000	20,000	20,000	10,000	5,000
Min. Mean	3,000	9,250	4,000	4,000	15,000	15,000	2,000	3,500
Ave. Meam	4,000	12,000	5,000	5,000	20,000	20,000	3,800	4,000
Grapes								
Max. Mean	-	36,000	-	-	-	-	40,000	32,000
Min. Mean	-	11,000	-	-	-	-	8,000	14,000
Ave. Meam	-	13,200	-	-	-	-	13,900	12,500

Source: Farm household survey conducted by the Study Team during February to March 1995.

Table-F.22 Average Monthly Price on Vegetables and Fruits (January to August, 1993) (1/2)

Item	Unit	January	February	March	April	May	June	July	August	Average (Jan. to Aug.)	Remarks
Green broad beans	TL/kg	11,000	10,500	10,000	3,500	2,500	3,000	12,000	-	6,750	Leguminous vegetables
Okra	TL/kg	-	-	-	-	-	24,000	18,500	10,500	15,500	Fruit bearing vegetables
Kidney bean	TL/kg	-	-	-	-	-	4,500	5,500	9,000	13,750	Leguminous vegetables
Green peas	TL/kg	-	-	8,500	8,000	4,500	7,500	5,500	-	6,375	Leguminous vegetables
Green pepper	TL/kg	14,000	15,500	27,000	19,500	8,500	7,500	5,500	3,500	12,625	Fruit bearing vegetables
Stuff pepper	TL/kg	20,000	30,000	42,000	29,000	13,000	7,500	5,500	3,000	18,750	Fruit bearing vegetables
Tomatoes	TL/kg	6,000	4,500	6,500	7,000	6,500	6,500	4,750	3,000	5,594	Fruit bearing vegetables
Artichokes	TL/kg	4,500	5,500	6,000	5,000	3,000	-	-	3,000	4,500	Leafy/stem edible vegetables
Bean ayye (fresh)	TL/kg	17,000	-	-	22,000	7,500	9,000	10,000	6,500	12,000	Leguminous vegetables
Bean Cali (fresh)	TL/kg	22,000	26,500	46,000	21,000	12,500	10,000	11,000	8,000	19,625	Leguminous vegetables
Calavence	TL/kg	-	-	-	-	18,000	10,500	11,000	9,500	12,250	Leguminous vegetables
Carrots	TL/kg	2,500	2,500	3,250	2,500	5,500	8,500	9,000	4,500	4,781	Root, bulb, tuberous
Spinach	TL/kg	2,250	2,500	2,000	1,500	2,250	-	-	-	2,100	Leafy/stem edible vegetables
Squash	TL/kg	4,750	7,500	8,000	4,000	2,000	3,000	3,500	2,500	4,406	Fruit bearing vegetables
Pumpkins	TL/kg	1,400	1,750	1,250	-	-	-	-	-	1,467	Fruit bearing vegetables
Celery	TL/kg	2,500	3,750	3,000	-	-	-	-	-	3,083	Leafy/stem edible vegetables
Lernace	TL/kg	4,750	-	5,250	2,750	3,000	2,750	-	2,500	3,500	Leafy/stem edible vegetables
Cucumber	TL/kg	5,750	14,000	16,500	6,500	2,500	4,000	4,000	3,250	7,063	Leafy/stem edible vegetables
Potatoes	TL/kg	1,250	1,200	1,350	1,500	2,350	2,000	3,500	3,000	2,019	Fruit bearing vegetables
Long egg plant	TL/kg	8,500	16,000	14,500	10,500	7,500	5,000	4,250	2,500	8,594	Fruit bearing vegetables
Round eggplant	TL/kg	8,000	16,000	14,500	9,500	7,000	5,000	4,500	3,000	8,438	Fruit bearing vegetables
Leek	TL/kg	1,500	2,000	1,500	1,000	1,500	-	-	2,500	1,667	Leafy/stem edible vegetables
Onion (dry)	TL/kg	1,000	1,100	1,400	2,000	2,500	3,000	2,750	2,500	2,031	Root, bulb, tuberous
Onion (fresh)	TL/kg	5,000	5,000	4,250	2,000	2,000	2,000	3,000	3,000	3,281	Root, bulb, tuberous
Red cabbage	TL/kg	2,500	4,000	4,000	2,250	-	-	-	-	3,188	Leafy/stem edible vegetables
White cabbage	TL/kg	1,500	2,200	2,000	1,250	-	-	-	-	1,738	Leafy/stem edible vegetables
Cauliflower	TL/kg	4,500	4,500	4,000	1,500	-	-	-	-	3,625	Leafy/stem edible vegetables
Purslane	TL/kg	-	-	-	-	2,750	3,000	2,750	2,500	2,750	Leafy/stem edible vegetables

Source: Monthly Price List of Izmir Commodity Exchange.



Table-F.22 Average Monthly Price on Vegetables and Fruits (January to August, 1993) (2/2)

Item	Unit	January	February	March	April	May	June	July	August	Average (Jan. to Aug.)	Remarks
Garlic (fresh)	TL/kg	-	-	7,000	5,000	-	4,000	4,500	-	5,125	Root, bulb, tuberous
Garlic (dry)	TL/kg	-	6,000	3,500	3,500	-	4,000	7,500	7,000	5,000	Root, bulb, tuberous
Red onion	TL/kg	-	-	-	-	-	-	-	3,000	3,000	
Red pepper	TL/kg	-	-	-	-	-	-	-	2,500	2,500	Fruit bearing vegetables
Quinces	TL/kg	2,500	3,500	4,500	5,000	5,000	-	-	4,100	4,100	Pome fruits
Pears	TL/kg	6,000	7,000	8,500	10,500	11,000	9,500	11,500	7,000	8,875	Pome fruits
Strawberries (box)	TL/kg	-	135,000	130,000	11,000	9,500	6,000	9,000	-	50,083	Grape-like fruits
Apple	TL/kg	3,750	3,750	3,500	3,750	5,000	6,000	7,000	6,500	4,906	Pome fruits
Plum	TL/kg	-	-	-	23,000	13,500	9,000	9,500	6,000	12,200	Stone fruits
Grapefruit	TL/kg	2,250	2,000	2,000	2,000	2,500	3,500	3,500	3,000	2,594	Citrus
Melon	TL/kg	-	-	-	-	15,500	8,500	5,500	4,000	8,375	Bearing fruits
Watermelon	TL/kg	-	-	-	6,000	6,000	3,500	3,000	2,500	4,200	Fruits
Fig	TL/kg	-	-	-	-	-	-	18,000	14,500	16,250	Grape-like fruits
Kwii (box)	TL/kg	-	55,000	55,000	55,000	65,000	-	-	-	57,500	Fruits
Cherry	TL/kg	-	-	-	-	15,500	14,000	17,500	-	15,667	Stone fruits
Apricots	TL/kg	-	-	-	-	15,500	8,500	10,500	7,500	10,500	Stone fruits
Chestnut	TL/kg	10,500	10,000	9,000	-	-	-	-	-	9,833	Nuts
Banana	TL/kg	9,000	9,000	9,500	9,000	9,000	10,000	10,000	9,500	9,375	Grape-like fruits
Peaches	TL/kg	-	-	-	-	-	5,500	8,500	8,500	7,500	Stone fruits
Sour cherries	TL/kg	-	-	-	-	-	-	-	8,000	8,000	Stone fruits
Tangerine	TL/kg	3,500	5,500	-	-	-	-	-	-	4,500	Citrus
Grape	TL/kg	9,000	10,500	11,000	12,500	-	-	-	6,000	9,800	Grape-like fruits
Orange bulk	TL/kg	1,500	1,500	1,500	1,500	2,250	2,500	4,500	5,000	2,531	Citrus
Orange	TL/kg	3,000	3,750	4,000	4,500	4,750	4,500	4,500	5,000	4,250	Citrus
Paesley	TL/kg	500	600	550	500	450	400	300	400	463	Green leafy vegetables
Rocket	TL/kg	500	600	550	500	450	400	300	400	463	Green leafy vegetables
Mint	TL/kg	500	600	550	500	450	400	300	400	463	Green leafy vegetables
Dill	TL/kg	500	600	550	500	450	400	300	400	463	Green leafy vegetables
Red radish	TL/kg	500	600	550	500	450	400	300	400	463	Green leafy vegetables

Source: Monthly Price List of Izmir Commodity Exchange.

Table-F.23 Grain Purchase Subsidy Prices (1994 to 1995)

Item	Unit	June	July (01 - 15)	July (16 - 31)	August	September	October	November	Increase (June/Nov.)	Remarks
1. Wheat for paste	Anatolian Durum	5,040	5,140	5,340	5,540	5,740	5,940	6,140	22%	
	Other	4,320	4,420	4,620	4,820	5,020	5,220	5,420	25%	
	Average	4,680	4,780	4,980	5,180	5,380	5,580	5,780	24%	
	Minimum support	3,400	3,500	3,700	3,900	4,100	4,300	4,500	32%	Low quality durum
2. Wheat for bread	White hard	3,780	3,880	4,080	4,280	4,480	4,680	4,880	29%	
	Anatolian red hard	3,600	3,700	3,900	4,100	4,300	4,500	4,700	31%	
	Red hard	3,420	3,520	3,720	3,920	4,120	4,320	4,520	32%	
	White semi-hard	3,312	3,412	3,612	3,812	4,012	4,212	4,412	33%	
	Red semi-hard	3,204	3,304	3,504	3,704	3,904	4,104	4,304	34%	
	Average	3,463	3,563	3,763	3,963	4,163	4,363	4,563	32%	
	Others	2,880	2,980	3,180	3,380	3,580	3,780	3,980	38%	
	Minimum support	2,500	2,600	2,800	3,000	3,200	3,400	3,600	44%	Fodderly
3. Barley	White	2,700	2,800	3,000	3,200	3,400	3,600	3,800	41%	
	Black - grey	2,520	2,620	2,820	3,020	3,220	3,420	3,620	44%	
	Minimum support	2,000	2,100	2,300	2,500	2,700	2,900	3,100	55%	
4. Rye		2,520	2,620	2,820	3,020	3,220	3,420	3,620	44%	
5. Oats		2,520	2,620	2,820	3,020	3,220	3,420	3,620	44%	
	Minimum support	2,000	2,100	2,300	2,500	2,700	2,900	3,100	55%	
6. Maize		2,880	2,880	2,880	2,880	2,980	3,080	3,180	10%	

Source: Grain Marketing Board (GMO).

Table-F.24 Commodity Prices of Izmir Commodity Market

Commodity	Quantity	Value	Price (TL/kg)	Commodity	Quantity	Value	Price (TL/kg)
Grain				Eggplant	403	71,316,800	176,965
Barley fodder	578,145	2,695,375,350	4,662	Raw melon	50	12,297,500	245,950
Wheat hard	3,649,840	29,706,718,250	8,139	Cucumber	702,088	5,748,023,500	8,187
Wheat others	8,017,996	56,087,873,238	6,995	Carrot	70,420	879,724,001	12,493
Maize	164,410	1,222,750,250	7,437	Tomatoes	3,287	17,111,000	5,206
Wheat bran	2,825,985	9,236,040,980	3,268	Cabbage	146,099	1,110,496,489	7,601
Legume/pulses				Pepper	88,570	1,177,710,000	13,297
Broad bean	239,720	3,264,786,000	13,619	Raw melon/nelon	550	3,300,000	6,000
Kidney bean	1,012	36,432,000	36,000	Cauliflower	990	792,000	800
Dry bean	108,906	5,828,059,847	53,515	Potatoes	599,000	5,942,450,000	9,921
Lentil red	82,022	1,779,050,587	21,690	Pistachio	13,834	1,601,522,000	115,767
Lentil yellow	707,458	7,942,482,500	11,227	Walnuts	96	7,226,880	75,280
Lentil green	189,270	4,916,264,366	25,975	Dry apricot	2,707,262	145,984,467,492	53,923
Lentil total	978,750	14,637,797,453	14,956	Chestnut	118,500	6,865,000,000	57,932
Chick pea	238,643	7,058,331,709	29,577	Dry fig	1,723,739	56,793,858,215	32,948
Oil seed				Seedless raisin	13,855,610	526,200,667,407	37,977
Anise	124,609	5,291,495,360	42,465	Chick pea	24,300	1,093,500,000	45,000
Poppy seed	893,852	50,724,896,718	56,749	Tangerine satsuma	6,971,668	52,438,328,603	7,522
Cotton seed	5,305,496	27,472,679,956	5,178	White standard	19,532,873	1,903,289,982,124	97,440
Sesame	693,989	21,129,244,135	30,446	Slightly dotted	2,659,645	230,913,183,500	86,821
Oil cake	161,974	737,025,900	4,550	Imported	1,294,773	96,821,906,874	74,779
Olive oil unrefined	2,068,939	105,612,313,400	51,047	Red pepper	1,983	71,970,000	36,286
Olive oil mixed	1,506,911	68,046,139,550	45,156				
Olive cooking	110,168	8,180,296,525	74,253				
Mixed vegetable	83,498	5,546,593,600	66,428				
Cucumber	40,176	1,358,226,372	33,807				

Source: Izmir Commodity Exchange Market, January 1995.

Table-F.25 Monthly Average Prices in the Commodity Exchange Market, 1994 to 1995 (1/2)

Items	Unit	(Unit TL thousand)												
		Sep. 94	Oct. 94	Nov. 94	Dec. 94	Jan. 95	Feb. 95	Mar. 95	Apr. 95	May. 95	Jun. 95	Jul. 95	Aug. 95	Average
Potatoes	/kg	6.0	6.0	6.0	6.0	10.0	10.0	110.0	15.0	18.0	16.0	12.0	12.0	18.9
Onion(Dry)	/kg	12.0	15.0	15.0	15.0	20.0	20.0	20.0	20.0	20.0	20.0	10.0	10.0	16.4
Garlic (Dry)	/kg	40.0	80.0	80.0	80.0	100.0	100.0	180.0	80.0	60.0	60.0	40.0	40.0	78.3
Cabbage(White)	/kg	-	7.0	10.0	10.0	15.0	15.0	15.0	15.0	-	-	-	20.0	13.4
Spinach	/kg	-	12.0	15.0	15.0	20.0	20.0	10.0	20.0	20.0	-	-	-	16.5
Leek	/kg	-	-	10.0	10.0	15.0	15.0	12.0	8.0	-	-	-	-	11.7
Head Lettuce	/kg	-	10.0	12.0	12.0	24.0	24.0	18.0	-	10.0	10.0	-	-	15.0
Cucumber (Meal)	/kg	10.0	12.0	20.0	20.0	60.0	60.0	60.0	50.0	40.0	12.0	10.0	15.0	30.8
Tomatoes(Meal)	/kg	10.0	15.0	20.0	25.0	30.0	-	40.0	40.0	30.0	15.0	10.0	10.0	22.3
Green Pepper	/kg	8.0	6.0	10.0	20.0	50.0	50.0	-	-	35.0	20.0	20.0	10.0	22.9
Carrot	/kg	6.0	10.0	-	10.0	15.0	15.0	20.0	20.0	20.0	-	-	-	14.5
Onion(Green)	/kg	-	-	-	-	24.0	24.0	24.0	20.0	10.0	10.0	-	-	18.7
Horse Bean(Green)	/kg	-	-	-	-	-	-	-	-	20.0	12.0	10.0	10.0	14.0
Straw (All kinds)	/kg	1.6	1.8	1.8	1.8	1.8	1.8	1.8	18.0	1.8	1.8	3.0	4.0	3.4
Tomatoes (source)	/kg	5.0	8.0	-	-	-	40.0	-	-	-	-	-	8.0	15.3
Stuff Pepper	/kg	10.0	8.0	-	-	-	-	-	-	-	30.0	25.0	15.0	17.6
Alfa (Dry)	/kg	1.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	-	5.0	5.0	3.1
Eggplant	/kg	6.0	8.0	-	-	60.0	-	-	-	-	15.0	12.0	12.0	18.8
Bean (Green)	/kg	15.0	24.0	25.0	-	-	-	-	-	-	40.0	-	25.0	25.8
Wheat Soft	/kg	4.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	-	-	-	11.1
Barley (fodder)	/kg	3.5	8.0	8.0	8.0	7.0	7.0	7.0	7.0	7.0	-	-	-	6.9
Gumbo (Green)	/kg	15.0	15.0	25.0	-	-	-	-	-	-	-	-	60.0	28.8
Winter Squash	/kg	4.0	-	-	-	-	-	-	-	-	-	-	-	4.0
Muskmelon	/kg	5.0	12.0	-	-	-	-	-	-	-	-	-	12.0	9.7
Watermelon	/kg	3.0	5.0	-	-	-	-	-	-	-	-	-	6.0	4.7
Cucumber (Pickle)	/kg	8.0	-	-	-	-	-	-	-	-	-	-	-	8.0
Leaf Lettuce	/kg	-	-	-	-	-	-	-	10.0	-	-	-	-	10.0
Apple (domestic)	/kg	10.0	12.0	12.0	15.0	20.0	20.0	15.0	20.0	20.0	30.0	-	28.0	18.4
Walnut with shell	/kg	-	30.0	40.0	40.0	60.0	60.0	80.0	60.0	60.0	60.0	-	-	54.4
Chestnut	/kg	-	-	-	25.0	40.0	40.0	40.0	40.0	40.0	-	-	-	37.5

Source: Izmir Commodity Exchange.

Table-F.25 Monthly Average Prices in the Commodity Exchange Market, 1994 to 1995 (2/2)

Items	Unit	(Unit TL thousand)													
		Sep. 94	Oct. 94	Nov. 94	Dec. 94	Jan. 95	Feb. 95	Mar. 95	Apr. 95	May. 95	Jun. 95	Jul. 95	Aug. 95	Average	
Quince	/kg	-	-	-	-	15.0	15.0	15.0	-	-	-	-	-	-	15.0
Plum	/kg	4.0	-	-	-	-	-	-	-	20.0	-	20.0	20.0	25.0	17.3
Apricot	/kg	10.0	-	-	-	-	-	-	-	-	-	-	40.0	30.0	
Cherries	/kg	-	-	-	-	-	-	-	-	25.0	-	-	-	25.0	
Pear	/kg	15.0	15.0	15.0	-	-	-	-	-	-	-	-	30.0	30.0	
Peach	/kg	12.0	-	-	-	-	-	-	-	-	-	-	30.0	24.0	
Grapes with pips	/kg	-	10.0	20.0	-	-	-	-	-	-	-	-	25.0	18.3	
Grapes with pips	/kg	-	10.0	20.0	-	-	-	-	-	-	-	-	25.0	18.3	
Honey comb	/kg	90.0	90.0	110.0	140.0	160.0	180.0	180.0	180.0	180.0	180.0	180.0	240.0	163.3	
Honey filtered	/kg	70.0	75.0	80.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	180.0	124.6	
Fresh Butter	/kg	60.0	60.0	60.0	60.0	70.0	90.0	90.0	90.0	100.0	100.0	120.0	120.0	85.0	
White Cheese	/kg	65.0	70.0	70.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	140.0	115.8	
Cheese	/kg	80.0	80.0	90.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	180.0	127.5	
Egg	/unit	1.5	1.8	2.0	3.0	3.0	-	-	-	3.0	-	3.0	4.0	2.7	
Cow milk	/kg	6.5	6.5	6.5	10.0	10.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	15.0	11.3
D.Female Cow	/head	8,900.0	9,400.0	9,600.0	9,800.0	10,600.0	25,600.0	25,600.0	25,600.0	25,600.0	25,600.0	25,600.0	28,600.0	40,400.0	20,266.7
Female Calf	/head	7,200.0	8,500.0	8,700.0	8,900.0	9,500.0	22,800.0	24,200.0	24,400.0	24,400.0	24,400.0	24,400.0	24,400.0	28,300.0	18,058.3
Male Calf	/head	6,800.0	7,200.0	7,400.0	7,600.0	8,400.0	21,700.0	24,400.0	24,200.0	24,100.0	23,200.0	24,200.0	24,200.0	26,100.0	17,108.3
C.Female Cow	/head	13,800.0	14,200.0	14,600.0	15,400.0	16,500.0	26,200.0	28,900.0	30,800.0	34,600.0	36,800.0	36,800.0	42,800.0	76,800.0	29,283.3
Female Cow	/head	9,400.0	10,300.0	10,800.0	11,600.0	11,800.0	24,400.0	27,100.0	29,600.0	31,400.0	34,600.0	34,600.0	36,800.0	41,500.0	23,275.0
Male Cow	/head	8,700.0	9,600.0	10,200.0	10,800.0	10,700.0	23,800.0	26,700.0	28,300.0	30,200.0	34,100.0	34,100.0	36,100.0	39,400.0	22,383.3
C.B. Female Cow	/head	10,900.0	11,700.0	11,900.0	12,100.0	13,200.0	24,200.0	26,800.0	28,300.0	28,300.0	28,300.0	28,300.0	36,800.0	58,900.0	23,918.2
Female Calf	/head	7,600.0	8,500.0	8,700.0	8,900.0	9,300.0	23,600.0	25,600.0	27,100.0	27,100.0	27,100.0	27,100.0	34,800.0	36,100.0	19,754.5
Male Calf	/head	7,200.0	8,100.0	8,400.0	8,600.0	8,900.0	21,800.0	24,300.0	26,500.0	26,500.0	26,500.0	26,500.0	32,100.0	33,800.0	18,745.5
Sheep (2years old)	/head	2,100.0	2,400.0	2,500.0	2,500.0	2,800.0	3,200.0	3,200.0	3,200.0	4,200.0	4,200.0	4,200.0	4,800.0	5,200.0	3,358.3
Ram (7-12Month)	/head	1,900.0	2,100.0	2,200.0	2,200.0	2,500.0	2,900.0	2,900.0	2,900.0	2,900.0	2,900.0	2,900.0	3,900.0	4,800.0	2,941.7
Sheep (7-12)	/head	1,700.0	1,900.0	1,900.0	1,900.0	2,100.0	2,600.0	2,600.0	2,800.0	3,600.0	3,600.0	3,600.0	3,800.0	4,100.0	2,716.7
Chicken	/head	80.0	90.0	90.0	90.0	90.0	100.0	120.0	120.0	140.0	140.0	140.0	160.0	160.0	113.3
Rooster	/kg	90.0	110.0	110.0	110.0	110.0	90.0	140.0	140.0	160.0	160.0	160.0	180.0	180.0	130.0
Wool	/kg	12.0	14.0	18.0	-	-	-	-	-	30.0	30.0	30.0	40.0	60.0	29.1
Sheep Milk	/kg	-	-	-	-	-	-	-	-	22.0	22.0	26.0	25.0	25.0	24.5

Source: Izmir Commodity Exchange.

Table-F.26 Fertilizer Price in 1994 in the River Basin

	(Unit: TL/kg)											
	April	May	June	Aug.	Sept.	Oct.	Nov.	Dec.	N	P2O5	K2O	
Ammonium Sulfate	4,800	4,820	4,820	4,820	4,820	4,820	6,100	6,100	29,000	-	-	
							Nutrient Contents		21%	-	-	
Ammonium Nitrate	4,800	4,720	4,770	4,770	4,770	4,770	7,000	7,000	21,200	-	-	
							Nutrient Contents		33%	-	-	
Triple Super Phosphate	6,500	5,680	5,680	5,680	5,680	5,680	-	-	-	12,300	-	
							Nutrient Contents		-	46%	-	
Urea	6,000	5,710	5,740	5,740	5,740	5,740	9,000	9,000	19,600	-	-	
							Nutrient Contents		46%	-	-	
Di-ammonium Phosphate	-	7,940	7,940	7,940	7,940	7,940	-	-	26,300	18,700	-	
							Nutrient Contents		16%	20%	-	
							Price Adjustment		53%	47%	-	
Potassium Sulfate	-	11,000	11,000	11,000	11,000	11,000	10,500	10,500	-	-	21,000	
							Nutrient Contents		-	-	50%	
Composit (20:20:20)	6,500	6,450	6,450	6,450	6,450	6,450	10,200	10,200	20,400	18,400	12,200	
							Nutrient Contents		20%	20%	20%	
							Price Adjustment		40%	36%	24%	
Composit (15:15:15)	6,500	6,450	6,450	6,450	6,450	6,450	10,500	10,500	28,000	25,200	16,800	
							Nutrient Contents		15%	15%	15%	
							Price Adjustment		40%	36%	24%	
							Average Price by Nutrients Content		24,100	18,700	16,700	

Source: District Agricultural Office, Beydağ.

Table-F.27 Financial Crop Budget under "Future without Project" Condition (1/3)

Items	Unit	Cereals (Rainfed)			Cotton (Irrigated)			Potatoes (Irrigated)			2nd Potatoes (Irrigated)			Vegetables (Irrigated)		
		Price TL1000	Qty/ha	Value TL1000	Price TL1000	Qty/ha	Value TL1000	Price TL1000	Qty/ha	Value TL1000	Price TL1000	Qty/ha	Value TL1000	Price TL1000	Qty/ha	Value TL1000
1. Gross Income				22,660		113,250			210,000			130,000			160,000	
Main Products	kg	7.2	2,800	20,160	45.3	2,500	113,250	7.5	28,000	210,000	6.5	20,000	130,000	5.0	32,000	160,000
Sub-Products	kg	1.0	2,500	2,500	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	
2. Production Cost				12,040		31,420			48,060			40,700			55,450	
2.1 Machinery Cost*				4,360		6,570			4,840			4,280			4,220	
Land Prep.	days	-	3.4	-	-	2.5	-	-	4.7	-	-	4.4	-	-	4.5	
Seeding	days	-	1.2	2,610	-	1.4	3,070	-	1.9	3,200	-	1.6	2,770	-	1.6	
Irrigation	days	-	0.2	460	-	0.2	460	-	0.5	250	-	0.5	250	-	-	
Cultivating	days	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Harvesting	days	-	0.5	630	-	0.6	2,740	-	0.3	690	-	0.3	560	-	1.9	
Post Harvest	days	-	0.5	630	-	-	-	-	2.0	700	-	2.0	700	-	-	
Transport.	days	-	1.0	30	-	-	-	-	-	-	-	-	-	-	-	
	days	-	-	30	-	0.3	300	-	-	-	-	-	-	-	1.0	
2.2 Labour	man-days	190.0	4.3	820	190.0	73.4	13,950	190.0	82.0	15,580	190.0	68.0	12,920	190.0	171.5	32,590
2.3 Operator	man-days	250.0	3.4	850	250.0	2.5	630	250.0	4.7	1,180	250.0	4.4	1,100	250.0	4.5	1,130
2.4 Seed	kg	5.7	160	910	12.7	80	1,020	6.3	2,500	15,870	5.1	2,500	12,690	317.4	20	6,350
2.5 Fertilizer (nutrient content)				4,280		3,810			5,250			5,540			3,940	
N	kg	20.7	106	2,190	20.7	83	1,720	20.7	130	2,690	20.7	134	2,770	20.7	97	2,010
P2O5	kg	18.4	60	1,100	18.4	60	1,100	18.4	75	1,380	18.4	76	1,400	18.4	63	1,160
K2O	kg	12.4	60	740	12.4	60	740	12.4	75	930	12.4	90	1,120	12.4	50	620
Manure	kg	0.1	5,000	250	0.1	5,000	250	0.1	5,000	250	0.1	5,000	250	0.1	3,000	150
2.6 Agro-Chemicals				0		2,430			2,290			1,720			4,580	
	kg	572.4	0.0	0	572.4	6.0	3,430	572.4	4.0	2,290	572.4	3.0	1,720	572.4	8.0	4,580
2.7 Others				820		2,010			3,050			2,450			2,640	
Sacks	kg	6.3	40	250	20.3	25	510	5.1	150	760	5.1	100	510	6.3	0	
Nylon	kg	50.8	0	0	50.8	0	0	50.8	0	0	50.8	0	0	50.8	0	
Others	5%		0	570		0	1,500		0	2,290		0	1,940		0	
3. Net Income (1 - 2)				10,620		81,830			161,940			89,300			104,550	
				47%		72%			77%			69%			65%	
				\$212		\$1,637			\$3,239			\$1,786			\$2,091	

Table-F.27 Financial Crop Budget under "Future without Project" Condition (2/3)

Items	Unit	2nd Vegetables (Irrigated)			Watermelon (Irrigated)			Tobacco (Rainfed)			Fodders (Rainfed)			Olive (Rainfed)		
		Price TL1000	Q'ty Unit/ha	Value TL1000	Price TL1000	Q'ty Unit/ha	Value TL1000	Price TL1000	Q'ty Unit/ha	Value TL1000	Price TL1000	Q'ty Unit/ha	Value TL1000	Price TL1000	Q'ty Unit/ha	Value TL1000
1. Gross Income				135,000			162,000			144,960			54,000			34,920
Main Products	kg	5.4	25,000	135,000	5.4	30,000	162,000	181.2	800	144,960	4.5	12,000	54,000	19.4	1,800	34,920
Sub-Products	kg	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
2. Production Cost				43,700			33,690			73,730			16,320			23,600
2.1 Machinery Cost*				3,820	2.5		4,250		3.4	4,150		3.5	3,050		1.8	3,860
Land Prep.	days			1,600	1.2		2,060		1.4	3,640		1.5	2,540		1.0	1,270
Seeding	days															
Irrigation	days															
Cultivating	days			320	0.3		1,560									
Harvesting	days															
Post Harvest	days						630									
Transport.	days			1,900	1.0				2.0	510		2.0	510			
2.2 Labour	man-days	190.0	114.0	21,660	190.0	86.1	16,360	190.0	282.0	53,580	120.0	90.7	10,880	190.0	74.8	14,200
2.3 Operator	man-days	250.0	2.5	630	250.0	3.5	880	250.0	3.4	850	250.0	3.5	880	250.0	1.8	440
2.4 Seed	kg	253.9	30	7,620	952.1	3	2,380	380.8	20	7,620	126.9	1	90	0.0	0	0
2.5 Fertilizer (nutrient content)				3,880			3,710			1,540			540			1,600
N	kg	20.7	94	1,950	20.7	83	1,720	20.7	30	620	20.7	31	640	20.7	30	620
P2O5	kg	18.4	63	1,160	18.4	60	1,100	18.4	30	550	18.4	0	0	18.4	30	550
K2O	kg	12.4	50	620	12.4	60	740	12.4	30	370	12.4	0	0	12.4	30	370
Manure	kg	0.1	3,000	150	0.1	3,000	150	0.1	0	0	0.1	0	0	0.1	3,000	150
2.6 Agro-Chemicals				4,010			1,720			1,720			0			2,290
Others	kg	572.4	7.0	4,010	572.4	3.0	1,720	572.4	3.0	1,720	572.4	0.0	0	572.4	4.0	2,290
Sacks	kg	6.3	0	0	12.7	100	1,270	5.1	150	760	6.3	0	0	6.3	0	0
Nylon	kg	50.8	0	0	50.8	30	1,520	50.8	0	0	50.8	0	0	50.8	0	0
Others	5%		0	2,080		0	1,600		0	3,510		0	780		0	1,120
3. Net Income (1 - 2)				91,300			128,310			71,230			37,680			11,320
				68%			79%			49%			70%			32%
				\$1,826			\$2,566			\$1,425			\$754			\$226



Table-F.27 Financial Crop Budget under "Future without Project" Condition (3/3)

Items	Unit	Figs (Rainfed)			Grapes (Irrigated)			Cotton (Rainfed)			Potatoes (Rainfed)		
		Price TL1000	Q'ty Unit/ha	Value TL1000	Price TL1000	Q'ty Unit/ha	Value TL1000	Price TL1000	Q'ty Unit/ha	Value TL1000	Price TL1000	Q'ty Unit/ha	Value TL1000
1. Gross Income				30,780			141,600			40,770			75,000
Main Products	kg	5.7	5,400	30,780	12.0	11,800	141,600	45.3	900	40,770	7.5	10,000	75,000
Sub-Products	kg	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
2. Production Cost				25,380			59,700			19,980			28,600
2.1 Machinery Cost*			0.8	1,720		7.6	8,300		2.5	6,570		3.7	4,490
Land Prep.	days		0.8	1,720		3.0	3,810		1.4	3,070		1.9	3,200
Seeding	days		-	-		-	-		0.2	460		0.5	250
Irrigation	days		-	-		-	-		-	-		-	-
Cultivating	days		-	-		1.6	3,390		0.6	2,740		0.3	690
Harvesting	days		-	-		-	-		-	-		-	-
Post Harvest	days		-	-		-	-		-	-		1.0	350
Transport.	days		-	-		-	-		-	-		-	-
2.2 Labour	man-days	190.0	100.0	19,000	190.0	183.1	34,790	190.0	35.7	6,780	190.0	40.5	7,700
2.3 Operator	man-days	250.0	0.8	200	250.0	7.6	1,900	250.0	2.5	630	250.0	3.7	930
2.4 Seed	kg	0.0	0	0	0.0	0	0	12.7	60	760	6.3	1,500	9,520
2.5 Fertilizer (nutrient content)				2,110			3,230			1,930			2,660
N	kg	20.7	38	790	20.7	60	1,240	20.7	42	860	20.7	65	1,350
P2O5	kg	18.4	38	700	18.4	60	1,100	18.4	30	550	18.4	38	690
K2O	kg	12.4	38	470	12.4	60	740	12.4	30	370	12.4	38	470
Manure	kg	0.1	3,000	150	0.1	3,000	150	0.1	3,000	150	0.1	3,000	150
2.6 Agro-Chemicals				1,140			2,290			2,060			1,370
kg		572.4	2.0	1,140	572.4	4.0	2,290	572.4	3.6	2,060	572.4	2.4	1,370
2.7 Others				1,210			9,190			1,250			1,930
Sacks	kg	6.3	0	0	12.7	500	6,350	20.3	15	300	6.3	90	570
Nylon	kg	50.8	0	0	50.8	0	0	50.8	0	0	50.8	0	0
Others	5%		0	1,210		0	2,840		0	950		0	1,360
3. Net Income (1 - 2)				5,400			81,900			20,790			46,400
		18%		18%			58%			51%			62%
		\$108		\$108			\$1,638			\$416			\$928

Table-F.28 Financial Crop Budget under "Future with Project" Condition (1/3)

Items	Unit	Cereals			Cotton			Potatoes			2nd Potatoes			Vegetables		
		Price TL1000	Qn'ty Unit/ha	Value TL1000	Price TL1000	Qn'ty Unit/ha	Value TL1000	Price TL1000	Qn'ty Unit/ha	Value TL1000	Price TL1000	Qn'ty Unit/ha	Value TL1000	Price TL1000	Qn'ty Unit/ha	Value TL1000
1. Gross Income				44,400		158,550		247,500		182,000		225,000				225,000
Main Products	kg	7.2	5,500	39,600	45.3	3,500	158,550	7.5	33,000	247,500	6.5	28,000	182,000	5.0	45,000	225,000
Sub-Products	kg	1.0	4,800	4,800	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0	0
2. Production Cost				18,730		47,470		65,130		57,020		81,900				81,900
2.1 Machinery Cost		-	4.2	5,070	-	4.0	6,550	-	7.4	7,860	-	7.1	7,010	-	6.1	6,910
Land Prep.	days	-	1.2	2,610	-	1.6	3,530	-	1.9	3,200	-	1.6	2,770	-	2.2	3,940
Seeding	days	-	0.2	460	-	0.2	460	-	0.5	250	-	0.5	250	-	-	-
Irrigation	days	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cultivating	days	-	-	-	-	1.2	1,730	-	1.0	2,280	-	1.0	1,860	-	2.9	2,020
Harvesting	days	-	0.8	760	-	-	-	-	3.0	230	-	3.0	230	-	-	-
Post Harvest	days	-	1.0	730	-	-	-	-	-	-	-	-	-	-	-	-
Transport.	days	-	1.0	510	-	-	830	-	-	-	-	-	-	-	-	-
2.2 Labour	man-days	190.0	12.0	2,280	190.0	126.0	23,940	190.0	111.0	21,090	190.0	99.0	18,810	190.0	227.1	43,150
2.3 Operator	man-days	250.0	4.2	1,050	250.0	4.0	1,000	250.0	7.4	1,850	250.0	7.1	1,780	250.0	6.1	1,530
2.4 Seed	kg	5.7	160	910	12.7	80	1,020	6.3	2,500	15,870	5.1	3,000	15,230	317.4	30	9,520
2.5 Fertilizer (nutrient content)				7,140		8,180		9,900		7,470		8,500				8,500
N	kg	20.7	130	2,690	20.7	110	2,280	20.7	160	3,310	20.7	140	2,900	20.7	120	2,480
P2O5	kg	18.4	70	1,290	18.4	80	1,470	18.4	90	1,660	18.4	60	1,100	18.4	80	1,470
K2O	kg	12.4	50	620	12.4	50	620	12.4	90	1,120	12.4	75	930	12.4	60	740
Manure	kg	0.3	10,000	2,540	0.3	15,000	3,810	0.3	15,000	3,810	0.3	10,000	2,540	0.3	15,000	3,810
2.6 Agro-Chemicals				1,140		4,010		2,290		1,720		4,580				4,580
Others	kg	572.4	2.0	1,140	572.4	7.0	4,010	572.4	4.0	2,290	572.4	3.0	1,720	572.4	8.0	4,580
2.7 Others				1,140		2,770		6,270		5,000		7,710				7,710
Sacks	kg	6.3	40	250	20.3	25	510	6.3	500	3,170	6.3	360	2,280	5.1	750	3,810
Nylon	kg	50.8	0	0	50.8	0	0	50.8	0	0	50.8	0	0	50.8	0	0
Others	5%	0.0	0	890	0.0	0	2,260	0.0	0	3,100	0.0	0	2,720	0.0	0	3,900
3. Net Income (1 - 2)				25,670		111,080		182,370		124,980		143,100				143,100
				58%		70%		74%		69%		64%				64%
				\$513		\$2,222		\$3,647		\$2,500		\$2,862				\$2,862

Table-F.28 Financial Crop Budget under "Future with Project" Condition (2/3)

Items	Unit	2nd Vegetables			Watermelon			Green Legumes			Fodders			Grapes		
		Price TL1000	Qty Unit/ha	Value TL1000	Price TL1000	Qty Unit/ha	Value TL1000	Price TL1000	Qty Unit/ha	Value TL1000	Price TL1000	Qty Unit/ha	Value TL1000	Price TL1000	Qty Unit/ha	Value TL1000
1. Gross Income				145,800			189,000			174,000			81,000			180,000
Main Products	kg	5.4	27,000	145,800	5.4	35,000	189,000	11.6	15,000	174,000	4.5	18,000	81,000	12.0	15,000	180,000
Sub-Products	kg	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
2. Production Cost				61,790			46,980			46,580			29,130			49,800
2.1 Machinery Cost				3,350			5,210			3,350			4,090			4,550
Land Prep.	days		1.5	2,080		1.5	3,940		1.5	2,080		1.2	2,610		1.9	1,930
Seeding	days		-	-		-	-		-	-		0.2	460		-	-
Irrigation	days		-	-		-	-		-	-		-	-		-	-
Cultivating	days		-	-		-	-		-	-		-	-		-	-
Harvesting	days		-	-		-	-		-	-		-	-		-	-
Post Harvest	days		-	-		-	-		-	-		-	-		-	-
Transport.	days		1.0	1,270		1.0	1,270		1.0	1,270		2.0	1,020		1.0	300
2.2 Labour	man-days	190.0	174.5	33,160	190.0	121.0	22,990	190.0	123.0	23,370	120.0	93.0	17,670	120.0	161.0	30,590
2.3 Operator	man-days	250.0	2.5	630	250.0	2.5	630	250.0	2.5	630	250.0	3.4	850	250.0	5.0	1,250
2.4 Seed	kg	253.9	40	10,160	952.1	4	3,810	79.3	120	9,520	0.0	0	0	0.0	0	0
2.5 Fertilizer (nutrient content)				6,930			9,770			5,740			4,560			8,180
N	kg	20.7	120	2,480	20.7	120	2,480	20.7	80	1,660	20.7	50	1,040	20.7	140	2,900
P2O5	kg	18.4	70	1,290	18.4	80	1,470	18.4	70	1,290	18.4	150	2,760	18.4	80	1,470
K2O	kg	12.4	50	620	12.4	60	740	12.4	20	250	12.4	0	0	12.4	0	0
Manure	kg	0.3	10,000	2,540	0.3	20,000	5,080	0.3	10,000	2,540	0.3	3,000	760	0.3	15,000	3,810
2.6 Agro-Chemicals	kg			4,010			1,720			1,140			570			2,860
		572.4	7.0	4,010	572.4	3.0	1,720	572.4	2.0	1,140	572.4	1.0	570	572.4	5.0	2,860
2.7 Others				3,550			2,850			2,830			1,390			2,370
Sacks	kg	5.1	120	610	5.1	120	610	5.1	120	610	5.1	0	0	5.1	0	0
Nylon	kg	50.8	0	0	50.8	0	0	50.8	0	0	50.8	0	0	50.8	0	0
Others	5%	0.0	0	2,940	0.0	0	2,240	0.0	0	2,220	0.0	0	1,390	0.0	0	2,370
3. Net Income (1 - 2)				84,010			142,020			127,420			51,870			130,200
				58%			75%			75%			64%			72%
				\$1,680			\$2,840			\$2,548			\$1,037			\$2,604

Table-F.28 Financial Crop Budget under "Future with Project" Condition (3/3)

Items	Unit	Other Fruit Tree (Citrus)		Olive (Irrigated)		Price TL1000	Qty Unit/ha	Value TL1000	Price TL1000	Qty Unit/ha	Value TL1000
		Price TL1000	Qty Unit/ha	Price TL1000	Qty Unit/ha						
1. Gross Income								67,900			
Main Products	kg	9.0	25,000	19.4	3,500			67,900			
Sub-Products	kg	0.0	0	0.0	0			0			
2. Production Cost								29,570			
2.1 Machinery Cost								5,670			
Land Prep.	days		6.1		2.5			6,120			
Seeding	days		3.0		1.0			1,270			
Irrigation	days										
Cultivating	days		2.1								
Harvesting	days										
Post Harvest	days				1.5			4,850			
Transport.	days		1.0					300			
2.2 Labour	man-days	190.0	214.0	190.0	75.0			14,250			
2.3 Operator	man-days	250.0	6.1	250.0	2.5			630			
2.4 Seed	kg	0.0	0	0.0	0			0			
2.5 Fertilizer (nutrient content)								4,870			
N	kg	20.7	150	20.7	50			1,040			
P2O5	kg	18.4	80	18.4	30			550			
K2O	kg	12.4	50	12.4	60			740			
Manure	kg	0.3	15,000	0.3	10,000			2,540			
2.6 Agro-Chemicals								2,290			
	kg	572.4	5.0	572.4	4.0			2,290			
2.7 Others								1,410			
Sacks	kg	6.3	500	6.3	0			0			
Nylon	kg	50.8	0	50.8	0			0			
Others	5%	0.0	0	0.0	0			1,410			
3. Net Income (1 - 2)								38,330			
								56%			
								\$767			

Table-F.29 Production Value for Beydağ Dam Area

Crop	Yield (ton)	Price (TL/kg)	per ha			Area (ha)	Total
			Gross Value (TL1000)	Cost (TL1000)	Net Value (TL1000)		Net Value (TL million)
<b>1. Present Condition</b>							
Cereals (Rainfed)	2.8	7,200	24,900	12,400	12,500	970	12,000
Cotton (Rainfed)	0.9	45,300	40,800	21,200	19,600	1,480	29,000
Cotton (Irrigated)	2.5	45,300	113,300	24,000	89,300	2,780	248,000
Tobacco (Rainfed)	0.8	181,200	145,000	42,900	102,100	1,110	113,000
Potatoes (Rainfed)	10.0	7,500	75,000	28,700	46,300	990	46,000
Potatoes (Irrigated)	28.0	7,500	210,000	36,600	173,400	1,860	323,000
2nd Potatoes (Irrigated)	20.0	6,500	130,000	31,800	98,200	1,410	138,000
Other Field Crops (Rainfed)	4.8	4,000	19,200	12,400	6,800	320	2,000
Fodders (Rainfed)	12.0	4,500	54,000	13,300	40,700	540	22,000
Watermelon (Irrigated)	30.0	5,400	162,000	24,000	138,000	1,740	240,000
Vegetables (Irrigated)	32.0	5,000	160,000	36,600	123,400	1,550	191,000
2nd Vegetables (Irrigated)	25.0	5,400	135,000	30,700	104,300	560	58,000
Olive (Rainfed)	1.8	19,400	34,900	16,200	18,700	370	7,000
Figs (Rainfed)	5.4	5,700	30,800	15,900	14,900	420	6,000
Fruits (Irrigated)	11.8	12,000	141,600	39,900	101,700	320	33,000
Poplars (Irrigated)	-	-	-	-	14,900	1,000	15,000
<b>Total</b>	-	-	-	-	-	<b>17,420</b>	<b>1,483,000</b>
<b>2. "Future without Project" Condition</b>							
Cereals (Rainfed)	2.8	7,200	24,900	12,400	12,500	1,230	15,000
Cotton (Rainfed)	0.9	45,300	40,800	21,200	19,600	1,880	37,000
Cotton (Irrigated)	2.5	45,300	113,300	24,000	89,300	1,690	151,000
Tobacco (Rainfed)	0.8	181,200	145,000	42,900	102,100	1,410	144,000
Potatoes (Rainfed)	10.0	7,500	75,000	28,700	46,300	1,260	58,000
Potatoes (Irrigated)	28.0	7,500	210,000	36,600	173,400	1,130	196,000
2nd Potatoes (Irrigated)	20.0	6,500	130,000	31,800	98,200	850	83,000
Other Field Crops (Rainfed)	4.8	4,000	19,200	12,400	6,800	410	3,000
Fodders (Rainfed)	12.0	4,500	54,000	13,300	40,700	690	28,000
Watermelon (Irrigated)	30.0	5,400	162,000	24,000	138,000	1,050	145,000
Vegetables (Irrigated)	32.0	5,000	160,000	36,600	123,400	940	116,000
2nd Vegetables (Irrigated)	25.0	5,400	135,000	30,700	104,300	340	35,000
Olive (Rainfed)	1.8	19,400	34,900	16,200	18,700	470	9,000
Figs (Rainfed)	5.4	5,700	30,800	15,900	14,900	530	8,000
Fruits (Irrigated)	11.8	12,000	141,600	39,900	101,700	190	19,000
Poplars (Irrigated)	-	-	-	-	14,900	1,000	15,000
<b>Total</b>	-	-	-	-	-	<b>15,070</b>	<b>1,062,000</b>
<b>3. "Future with Project" Condition</b>							
Cereals	5.5	7,200	48,700	17,000	31,700	770	24,000
Cotton	3.5	45,300	158,600	33,800	124,800	4,620	577,000
Potatoes	33.0	7,500	247,500	51,700	195,800	3,080	603,000
2nd Potatoes	28.0	6,500	182,000	46,000	136,000	1,540	209,000
Fodders	18.0	4,500	81,000	19,500	61,500	770	47,000
Watermelon	35.0	5,400	189,000	35,200	153,800	1,540	237,000
Vegetables	45.0	5,000	225,000	59,000	166,000	3,080	511,000
2nd Vegetables	27.0	5,400	145,800	44,100	101,700	3,080	313,000
Green Legumes	15.0	11,600	174,000	33,800	140,200	1,540	216,000
Olive	3.5	19,400	67,900	15,800	52,100	0	0
Fruites (Grapes)	15.0	12,000	180,000	33,000	147,000	770	113,000
Fruites (Oranges)	25.0	9,000	225,000	43,800	181,200	770	140,000
<b>Total</b>	-	-	-	-	-	<b>21,560</b>	<b>2,990,000</b>

Remarks: Value of cereals includes value of sub-products (straws).

Table-F.30 List of Villages for Farmers Interview Survey (1/2)

Districts (İlçe)	Municipality (Belediye)	Village (Köy)	Code	Date	Number of Farmers
1. Beydağ	Beydağ	Halı Köy	1-01	February 27, '95	5 farmers
	Beydağ	Yağcılar	1-02	February 27, '95	5 farmers
	Beydağ	district canter	1-03	February 27, '95	5 farmers
Sub-total		3 villages			15 farmers
2. Kiraz	-	Yağlar	2-01	February 28, '95	5 farmers
	-	Karaman	2-02	February 28, '95	5 farmers
	-	Yenişehir	2-03	February 28, '95	5 farmers
Sub-total		3 villages			15 farmers
3. Ödemiş	Üzümütlü	Üzümütlü	3-01	March 06, '95	5 farmers
	-	Yeniceköy	3-02	March 06, '95	5 farmers
	-	Çaylı	3-03	March 06, '95	5 farmers
	Karaköy	Karaköy	3-04	March 07, '95	5 farmers
	-	Seyrekli	3-05	March 07, '95	5 farmers
	-	Balabandı	3-06	March 07, '95	5 farmers
	Ovakent	Ovakent	3-07	March 07, '95	5 farmers
	Bademli	Mescitli	3-08	March 10, '95	4 farmers
	Kaymakçı	Kaymakçı	3-09	March 10, '95	4 farmers
	Kaymakçı	Kurucu Ovil	3-10	March 10, '95	4 farmers
Sub-total		10 villages			47 farmers
4. Tire	-	Mahmutar	4-01	March 08, '95	5 farmers
	-	Yeniçiftlik	4-02	March 08, '95	5 farmers
	-	Eskioba	4-03	March 08, '95	5 farmers
	-	Peşrefli	4-04	March 08, '95	5 farmers
	Kocalan	Ataylı Köy	4-05	March 09, '95	4 farmers
	-	Büyük Kale	4-06	March 09, '95	4 farmers
	Tire	Kızılcaavlu	4-07	March 09, '95	4 farmers
	Tire	Derebaşı	4-08	March 09, '95	4 farmers
Sub-total		8 villages			36 farmers
Total		24 villages			113 farmers

(To be continued)

Note:

Table-F.30 List of Villages for Farmers Interview Survey (2/2)

Districts (İlçe)	Municipality (Belediye)	Village (Köy)	Code	Date	Number of Farmers
5. Bayındır	Bayındır	Ergenli	5-01	March 13, '95	4 farmers
	Zeytinova	Zeytinova	5-02	March 13, '95	4 farmers
	Zeytinova	Buruncuk	5-03	March 13, '95	4 farmers
	Bayındır	Merkez	5-04	March 13, '95	4 farmers
	-	Tokatbaşı	5-05	March 14, '95	4 farmers
	-	Fırınlı	5-06	March 14, '95	4 farmers
	-	Çıplak	5-07	March 14, '95	4 farmers
	Çırpı	-	5-08	March 14, '95	4 farmers
Sub-total		8 villages			32 farmers
6. Torbalı	Karakuyu	Kurucuk	6-01	March 01, '95	5 farmers
	Karakuyu	Karakuyu	6-02	March 01, '95	5 farmers
	Arslanlar	Arslanlar	6-03	March 01, '95	5 farmers
	Subaşı	Subaşı	6-04	March 01, '95	6 farmers
	Ayrancılar	Ayrancılar	6-05	March 02, '95	5 farmers
	-	Özbeci	6-06	March 02, '95	5 farmers
	-	Ahmetli	6-07	March 15, '95	5 farmers
	Yazıbaşı	-	6-08	March 16, '95	4 farmers
Sub-total		7 villages			40 farmers
7. Selçuk	-	Belevi	7-01	March 15, '95	5 farmers
	-	ZeytinKöy	7-02	March 15, '95	5 farmers
	-	Bartçu	7-03	March 15, '95	5 farmers
Sub-total		3 villages			15 farmers
Total		18 villages			82 farmers
Grand Total		42 villages			200 farmers

Table-F.31 Farm Budget by Farm Interview Survey (1/4)

Sample No.	Total Area	Income (TL million)		Expenditure (TL million)					Total					
		Crop	Livestock	Non-farm	Gross	Food	Clothing	Education		Electricity	Medical	Fuel	Others	
Halköy-1	21.0	80.0		40.0	120.0	20.0	15.0		4.0	25.0	2.0		66.0	54.0
Halköy-2	9.0	54.6	11.0		65.6	30.0	20.0		3.0	8.0	8.0		69.0	-3.4
Halköy-3	56.0	800.0	81.0	100.0	981.0	300.0	150.0	300.0	3.0	30.0	15.0		798.0	183.0
Halköy-4	57.0	300.0		60.0	360.0	60.0	10.0		2.5	1.5			74.0	286.0
Halköy-5	16.0	40.0		40.0	80.0	25.0	20.0		2.0		15.0		62.0	18.0
Total	159.0	1,274.6	92.0	240.0	1,765.6	435.0	215.0	300.0	14.5	64.5	40.0		1,069.0	537.6
Average	31.8	254.9	18.4	48.0	321.3	87.0	43.0	60.0	2.9	12.9	8.0	0.0	213.8	107.5
Yagölar-1	18.0	120.0			120.0	20.0	20.0		2.5	30.0	1.0		73.5	46.5
Yagölar-2	60.0	150.0	23.0	150.0	323.0	50.0	20.0	100.0	3.0	25.0	10.0		208.0	115.0
Yagölar-3	51.0	150.0		40.0	190.0	60.0	10.0		2.0	7.0	5.0		84.0	106.0
Yagölar-4	50.0	300.0	50.0		350.0	150.0	15.0		5.0	20.0	5.0		195.0	155.0
Yagölar-5	7.5	50.0			50.0	100.0	10.0		10.0	20.0	8.0		148.0	-98.0
Total	186.5	770.0	73.0	190.0	1,033.0	380.0	75.0	100.0	22.5	102.0	29.0		708.5	324.5
Average	37.3	154.0	14.6	38.0	206.6	76.0	15.0	20.0	4.5	20.4	5.8	0.0	141.7	64.9
Center-1	8.0	15.0	12.0		27.0	8.0	15.0	10.0	3.0	3.0	3.0		42.0	-15.0
Center-2	8.0				0.0	50.0	10.0		6.0	20.0	8.0		94.0	-94.0
Center-3	30.0	30.0	30.0	80.0	140.0	100.0	10.0		1.0	5.0	2.0		118.0	22.0
Center-4	5.0				0.0	15.0	15.0		3.0	5.0	5.0		53.0	-53.0
Center-5	100.0	500.0	150.0		650.0	300.0	150.0	50.0	4.5	20.0	8.0		532.5	117.5
Total	151.0	545.0	192.0	80.0	817.0	473.0	200.0	70.0	17.5	53.0	26.0		839.5	-22.5
Average	30.2	109.0	38.4	16.0	163.4	94.6	40.0	14.0	3.5	10.6	5.2	0.0	167.9	-4.5
District Total	15.0	2,589.6	357.0	510.0	3,615.6	1,288.0	490.0	470.0	54.5	219.5	95.0	0.0	2,617.0	839.6
Average	496.5	172.6	23.8	34.0	230.4	85.9	32.7	31.3	3.6	14.6	6.3	0.0	174.5	56.0



Table-F.31 Farm Budget by Farm Interview Survey (2/4)

Sample No.	Total Area	Income (TL million)			Expenditure (TL million)										Total
		Crop	Livestock	Non-farm	Gross	Food	Clothing	Education	Electricity	Medical	Fuel	Others	Total		
Uzmullu-1	11.0	50.0			50.0	30.0	15.0	5.0	1.5	5.0	2.0		58.5	-8.5	
Uzmullu-2	17.0	53.0			53.0	15.0	15.0	10.0	4.0		5.0		49.0	4.0	
Uzmullu-3	22.0	80.0		250.0	330.0	60.0	20.0	60.0	12.0	1.0	10.0		163.0	167.0	
Uzmullu-4	34.0	300.0	60.0	40.0	400.0	200.0	50.0		4.0	35.0	0.6		289.6	110.4	
Uzmullu-5	17.0	100.0			100.0	40.0	30.0		2.0	3.0	6.0		81.0	19.0	
Total	101.0	583.0	60.0	290.0	933.0	345.0	130.0	75.0	23.5	44.0	23.6		641.1	291.9	
Average	20.2	116.6	12.0	58.0	186.6	69.0	26.0	15.0	4.7	8.8	4.7	0.0	128.2	58.4	
Ymcekoy-1	6.0	30.0		7.0	37.0	50.0	10.0		5.0	10.0	1.5		76.5	-39.5	
Ymcekoy-2	37.0	90.0			90.0	30.0	20.0		10.0		6.0		66.0	24.0	
Ymcekoy-3	13.0	100.0			100.0	60.0	30.0		5.0	50.0	7.0		152.0	-52.0	
Ymcekoy-4	26.0	100.0	47.0		147.0	60.0	25.0		3.0	30.0	6.0		124.0	23.0	
Ymcekoy-5	19.5	100.0	60.0	48.0	208.0	50.0	20.0	50.0	3.0	1.0	5.0		129.0	79.0	
Total	101.5	420.0	107.0	55.0	582.0	250.0	105.0	50.0	26.0	91.0	25.5		547.5	34.5	
Average	20.3	84.0	21.4	11.0	116.4	50.0	21.0	10.0	5.2	18.2	5.1	0.0	109.5	6.9	
Çayli-1	27.0	150.0	9.0		159.0	50.0	15.0	5.0	2.5	10.0	3.0		85.5	73.5	
Çayli-2	560.0	15,000.0	320.0		15,320.0	20.0	15.0	20.0	5.0				60.0	15,260.0	
Çayli-3	22.0	200.0			200.0	70.0	20.0		30.0	50.0	6.0		176.0	24.0	
Çayli-4	25.0	250.0			250.0	100.0	30.0		5.0	5.0	7.0		147.0	103.0	
Çayli-5	36.0	200.0	20.0		220.0	100.0	20.0	20.0	3.0	3.0	6.0		152.0	68.0	
Total	670.0	15,800.0	349.0	0.0	16,149.0	340.0	100.0	45.0	45.5	68.0	22.0		620.5	15,528.5	
Average	134.0	3,160.0	69.8	0.0	3,229.8	68.0	20.0	9.0	9.1	13.6	4.4	0.0	124.1	3,105.7	
Karakoy-1	4.0	60.0		10.0	70.0	40.0	20.0	5.0	2.0	1.0	4.0		72.0	-2.0	
Karakoy-2	18.0	110.0			110.0	100.0	30.0	50.0	5.0		5.0		190.0	-80.0	
Karakoy-3	19.0	100.0	50.0		150.0	50.0	50.0	10.0	15.0				125.0	25.0	
Karakoy-4	22.0	100.0		60.0	160.0	60.0	30.0	5.0	10.0	30.0	10.0		145.0	15.0	
Karakoy-5	31.0	200.0			200.0	40.0	40.0	50.0	10.0	5.0	5.0		150.0	50.0	
Total	94.0	570.0	50.0	70.0	690.0	290.0	170.0	120.0	42.0	36.0	24.0		682.0	8.0	
Average	18.8	114.0	10.0	14.0	138.0	58.0	34.0	24.0	8.4	7.2	4.8	0.0	136.4	1.6	

Table-F.31 Farm Budget by Farm Interview Survey (3/4)

Sample No.	Income (TL million)		Expenditure (TL million)										Total	
	Total Area	Crop	Livestock	Non-farm	Gross	Food	Clothing	Education	Electricity	Medical	Fuel	Others		Total
Seyrekli-1	45.0	290.0	40.0		330.0	40.0	30.0	20.0	1.5	3.0	5.0		99.5	230.5
Seyrekli-2	40.0	140.0	20.0	35.0	195.0	50.0	30.0		4.0	30.0	5.0		119.0	76.0
Seyrekli-3	49.0	360.0			360.0	100.0			8.0				108.0	252.0
Seyrekli-4	18.0	100.0			100.0	50.0	30.0		4.0	5.0	8.0		97.0	3.0
Seyrekli-5	100.0	1,200.0	50.0		1,250.0	50.0	30.0	50.0	3.5	30.0	6.0		169.5	1,080.5
Total	252.0	2,090.0	110.0	35.0	2,235.0	290.0	120.0	70.0	21.0	68.0	24.0		593.0	1,642.0
Average	50.4	418.0	22.0	7.0	447.0	58.0	24.0	14.0	4.2	13.6	4.8	0.0	118.6	328.4
Balabandi-1	45.0	400.0	15.0		415.0	8.0	30.0		3.0	25.0	9.0		75.0	340.0
Balabandi-2	20.0	150.0			150.0	40.0	15.0	7.0	5.0	6.0	5.0		78.0	72.0
Balabandi-3	150.0	350.0			350.0	80.0	50.0		2.0		5.0		137.0	213.0
Balabandi-4	44.0	200.0	18.0		218.0	60.0	20.0		20.0	20.0	7.0		127.0	91.0
Balabandi-5	46.0	400.0			400.0	50.0	10.0	7.0	2.5		4.5		74.0	326.0
Total	305.0	1,500.0	33.0	0.0	1,533.0	238.0	125.0	14.0	32.5	51.0	30.5		491.0	1,042.0
Average	61.0	300.0	6.6	0.0	306.6	47.6	25.0	2.8	6.5	10.2	6.1	0.0	98.2	208.4
Pvalent-1	20.0	120.0	50.0		170.0	60.0	25.0		2.0	4.0	6.0		97.0	73.0
Pvalent-2	13.0	200.0			200.0	50.0	5.0	25.0	9.0	20.0	3.0		112.0	88.0
Pvalent-3	31.0	170.0			170.0	70.0		10.0	2.0		5.0		87.0	83.0
Pvalent-4	16.0	75.0			75.0	60.0	10.0	30.0	2.0	15.0	3.0		120.0	-45.0
Pvalent-5	56.0	175.0			175.0	30.0	25.0	50.0	4.0	8.0	6.0		123.0	52.0
Total	136.0	740.0	50.0	0.0	790.0	270.0	65.0	115.0	19.0	47.0	23.0		539.0	251.0
Average	27.2	148.0	10.0	0.0	158.0	54.0	13.0	23.0	3.8	9.4	4.6	0.0	107.8	50.2
Mescitli-1	13.0	120.0			120.0	50.0	30.0	10.0	12.0	10.0	8.0		120.0	0.0
Mescitli-2	22.0	170.0		30.0	200.0	50.0	25.0		1.5	20.0	4.0		100.5	99.5
Mescitli-3	105.0	1,500.0		70.0	1,570.0	350.0	100.0	100.0	25.0	30.0	50.0		655.0	915.0
Mescitli-4	6.0	150.0			150.0	50.0	45.0		3.0	20.0	12.0		150.0	0.0
Total	146.0	1,940.0	0.0	100.0	2,040.0	500.0	200.0	130.0	41.5	80.0	74.0	0.0	1,025.5	1,014.5
Average	36.5	485.0	0.0	25.0	510.0	125.0	50.0	32.5	10.4	20.0	18.5	0.0	256.4	253.6

Table-F.31 Farm Budget by Farm Interview Survey (4/4)

Sample No.	Total Area	Income (TL million)			Expenditure (TL million)										Total
		Crop	Livestock	Non-farm	Gross	Food	Clothing	Education	Electricity	Medical	Fuel	Others	Total		
Kaymalci-1	25.0	100.0	60.0		160.0	60.0		10.0	12.0	3.0		8.0		93.0	67.0
Kaymalci-2	40.0	140.0	28.0		168.0	30.0	15.0	5.0	5.0	10.0		10.0		75.0	93.0
Kaymalci-3	22.0	300.0	18.0		318.0	25.0	5.0		1.5	20.0		6.0		57.5	260.5
Kaymalci-4	71.0	350.0			350.0	60.0	25.0		20.0	30.0		10.0	30.0	175.0	175.0
Total	158.0	890.0	106.0	0.0	996.0	175.0	45.0	15.0	38.5	63.0		34.0	30.0	400.5	595.5
Average	39.5	222.5	26.5	0.0	249.0	43.8	11.3	3.8	9.6	15.8		8.5	7.5	100.1	148.9
Kurucu Ovu-1	10.0	123.0			123.0	70.0	30.0	20.0	4.0			5.0		129.0	-6.0
Kurucu Ovu-2	40.0	250.0	60.0		310.0	60.0	20.0	15.0	10.0	30.0		10.0	20.0	165.0	145.0
Kurucu Ovu-3	9.0	300.0	15.0		315.0	50.0	20.0	10.0	3.5	5.0		6.0		94.5	220.5
Kurucu Ovu-4	30.0	270.0			270.0	50.0	20.0		12.0	25.0		20.0		127.0	143.0
Total	89.0	943.0	75.0	0.0	1,018.0	230.0	90.0	45.0	29.5	60.0		41.0	20.0	515.5	502.5
Average	22.3	235.8	18.8	0.0	254.5	57.5	22.5	11.3	7.4	15.0		10.3	5.0	128.9	125.6
District	47.0														
Total	2,052.5	25,476.0	940.0	550.0	26,966.0	2,928.0	1,150.0	679.0	319.0	608.0		321.6	50.0	6,055.6	20,910.4
Average	43.7	542.0	20.0	11.7	573.7	62.3	24.5	14.4	6.8	12.9		6.8	1.1	128.8	444.9

Tine District		Expenditure (TL million)													Total
Sample No.	Total Area	Crop	Livestock	Non-farm	Gross	Food	Clothing	Education	Electricity	Medical	Fuel	Others	Total		
Kizilcabavlu-1	100.0	2,225.0			2,225.0	200.0	200.0	80.0	5.0		3.0		488.0	1,737.0	
Kizilcabavlu-2	36.0	350.0			350.0	70.0	30.0	50.0	8.0	15.0	7.0	15.0	195.0	155.0	
Kizilcabavlu-3	580.0	7,600.0			7,600.0	100.0	50.0	10.0	3.0	30.0	5.0		198.0	7,402.0	
Kizilcabavlu-4	81.0	1,000.0			1,000.0	150.0	30.0		5.0	25.0	4.0		214.0	786.0	
Total	797.0	11,175.0	0.0	0.0	11,175.0	520.0	310.0	140.0	21.0	70.0	19.0	15.0	1,095.0	10,080.0	
Median	90.5														
Average	199.3	2,793.8	0.0	0.0	2,793.8	130.0	77.5	35.0	5.3	17.5	4.8	3.8	273.8	2,520.0	
Project Area	66.0														
Total	3,346.0	39,240.6	1,297.0	1,060.0	41,597.6	4,736.0	1,950.0	1,289.0	394.5	897.5	435.6	65.0	9,767.6	31,830.0	
Average	50.7	594.6	19.7	16.1	630.3	71.8	29.5	19.5	6.0	13.6	6.6	1.0	148.0	482.3	

Table-F.32 Farmers' Desire and Intention (1/2)

	(Unit: No. = number of answers by farmers)									
	Beydag No.* (%)	Kiraz No.* (%)	Odemis No.* (%)	Tire No.* (%)	Bayindir No.* (%)	Torlali No.* (%)	Selcuk No.* (%)	Total No.* (%)		
<b>Current Constraints</b>										
1 Lack of irrigation	11 73%	12 80%	43 91%	33 92%	28 88%	32 73%	9 38%	168 82%		
2 Lack of farm machinery	2 13%	1 7%	5 11%	1 3%	3 9%	4 9%	0 0%	16 8%		
3 Small Size of farm land	1 7%	2 13%	8 17%	7 19%	4 13%	6 14%	2 8%	30 15%		
4 Inadequate farm inputs	5 33%	5 33%	13 28%	7 19%	3 9%	14 32%	5 21%	52 25%		
5 Shortage of labour force	1 7%	1 7%	3 6%	3 8%	5 16%	6 14%	2 8%	21 10%		
6 Lack of post harvest facilities	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%		
7 Lack of transportation means	1 7%	0 0%	0 0%	0 0%	1 3%	1 2%	0 0%	3 1%		
8 Lack of market information	1 7%	4 27%	11 23%	2 5%	6 19%	10 23%	2 8%	43 21%		
9 Lack of technical information	6 40%	3 20%	7 15%	6 17%	4 13%	8 18%	3 13%	37 18%		
10 Others	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1 4%	1 0%		
<b>Recommendable Project Component</b>										
1st priority										
1 Irrigation development	13 87%	14 93%	43 91%	34 94%	28 88%	32 73%	10 42%	174 85%		
2 Drainage development	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%		
3 Flood control	0 0%	0 0%	0 0%	0 0%	2 6%	1 2%	0 0%	4 2%		
4 Farm-to-market road	1 7%	0 0%	0 0%	0 0%	0 0%	5 11%	2 8%	9 4%		
5 Improvement of farm input supplies	0 0%	0 0%	2 4%	0 0%	0 0%	1 2%	0 0%	2 1%		
6 Pest and diseases control	1 7%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%		
7 Introduction new crops	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%		
8 Post harvest facilities	0 0%	0 0%	2 4%	1 3%	1 3%	2 5%	0 0%	6 3%		
9 Marketing facilities	0 0%	0 0%	0 0%	1 3%	0 0%	3 7%	0 0%	4 2%		
10 Agricultural extension services	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%		
11 Farm mechanization	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%		
12 Others	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%		

Source: Farm Household Survey conducted by JICA Study Team during February to March 1995.

(to be continued)

Table-F.32 Farmers' Desire and Intention (2/2)

	Unit: No. = number of answers by farmers)																							
	Beydag		Kiraz		Odemis		Iirc		Bayindir		Tortalı		Selcuk		Total									
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)								
<b>2nd priority</b>																								
1 Irrigation development	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	2%	0	0%	1	0%		
2 Drainage development	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	4%	0	0%	1	4%	1	0%		
3 Flood control	0	0%	0	0%	2	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	1%		
4 Farm-to-market road	3	20%	1	7%	0	0%	1	3%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	6	3%		
5 Improvement of farm input supplies	6	40%	6	40%	21	45%	6	17%	6	19%	6	19%	15	34%	2	8%	2	8%	62	30%	62	30%		
6 Pest and diseases control	2	13%	3	20%	5	11%	6	17%	6	17%	4	13%	3	7%	2	8%	2	8%	25	12%	25	12%		
7 Introduction new crops	0	0%	1	7%	3	6%	2	6%	2	6%	1	3%	3	7%	0	0%	0	0%	10	5%	10	5%		
8 Post harvest facilities	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%		
9 Marketing facilities	2	13%	2	13%	6	13%	7	19%	7	19%	5	16%	4	9%	2	8%	2	8%	28	14%	28	14%		
10 Agricultural extension services	3	20%	1	7%	8	17%	9	25%	9	25%	8	25%	11	25%	4	17%	4	17%	44	21%	44	21%		
11 Farm mechanization	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	5%	0	0%	0	0%	2	1%	2	1%		
12 Others	0	0%	0	0%	0	0%	1	3%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	1	0%		
<b>3rd priority</b>																								
1 Irrigation development	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	0%
2 Drainage development	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
3 Flood control	0	0%	0	0%	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	4%	0	0%	2	1%
4 Farm-to-market road	1	7%	0	0%	0	0%	1	3%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	1%
5 Improvement of farm input supplies	1	7%	1	7%	4	9%	4	11%	4	11%	2	6%	4	9%	1	4%	1	4%	17	8%	17	8%		
6 Pest and diseases control	4	27%	2	13%	3	6%	0	0%	0	0%	2	6%	4	9%	2	8%	2	8%	17	8%	17	8%		
7 Introduction new crops	0	0%	1	7%	7	15%	3	8%	3	8%	1	3%	6	14%	1	4%	1	4%	19	9%	19	9%		
8 Post harvest facilities	0	0%	0	0%	1	2%	1	3%	1	3%	0	0%	0	0%	0	0%	0	0%	2	1%	2	1%		
9 Marketing facilities	3	20%	7	47%	5	11%	8	22%	8	22%	6	19%	11	25%	2	8%	2	8%	42	20%	42	20%		
10 Agricultural extension services	4	27%	2	13%	15	32%	12	33%	12	33%	6	19%	6	14%	3	13%	3	13%	48	23%	48	23%		
11 Farm mechanization	0	0%	1	7%	3	6%	0	0%	0	0%	0	0%	1	2%	0	0%	0	0%	5	2%	5	2%		
12 Others	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%		
<b>Reason to select crops</b>																								
1 High profitability/marketability	11	73%	13	87%	40	85%	34	94%	34	94%	28	88%	39	89%	13	54%	13	54%	178	87%	178	87%		
2 Easy farming technique	2	13%	1	7%	4	9%	1	3%	1	3%	0	0%	4	9%	2	8%	2	8%	14	7%	14	7%		
3 Much government subsidy	0	0%	0	0%	2	4%	0	0%	0	0%	0	0%	2	5%	1	4%	1	4%	5	2%	5	2%		
4 Others	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	2%	0	0%	0	0%	1	0%	1	0%		

Source: Farm Household Survey conducted by JICA Study Team during February to March 1995.

## *FIGURES*

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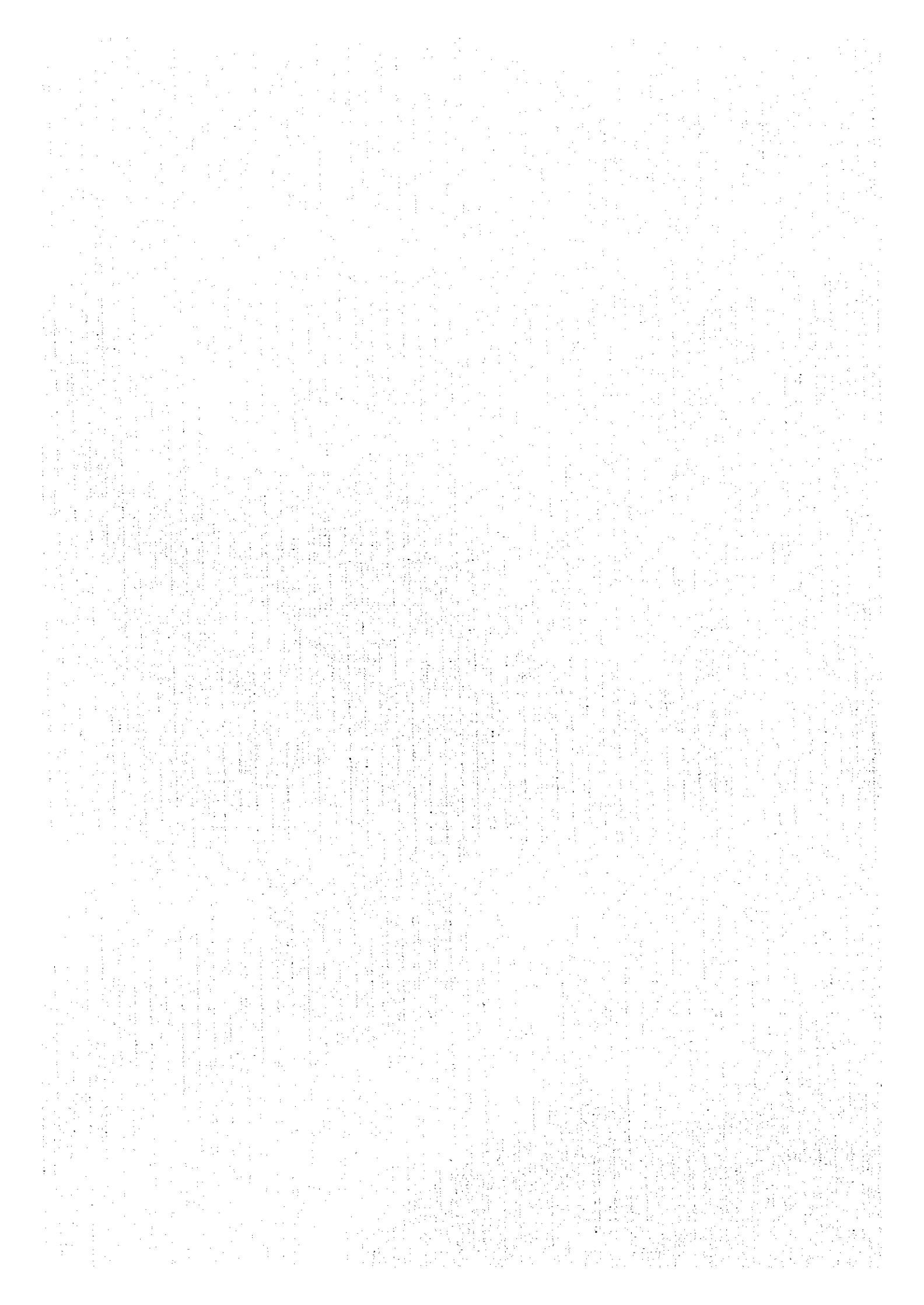






Figure-F.2 Administrative Region of General Directorate of State Hydraulic Works

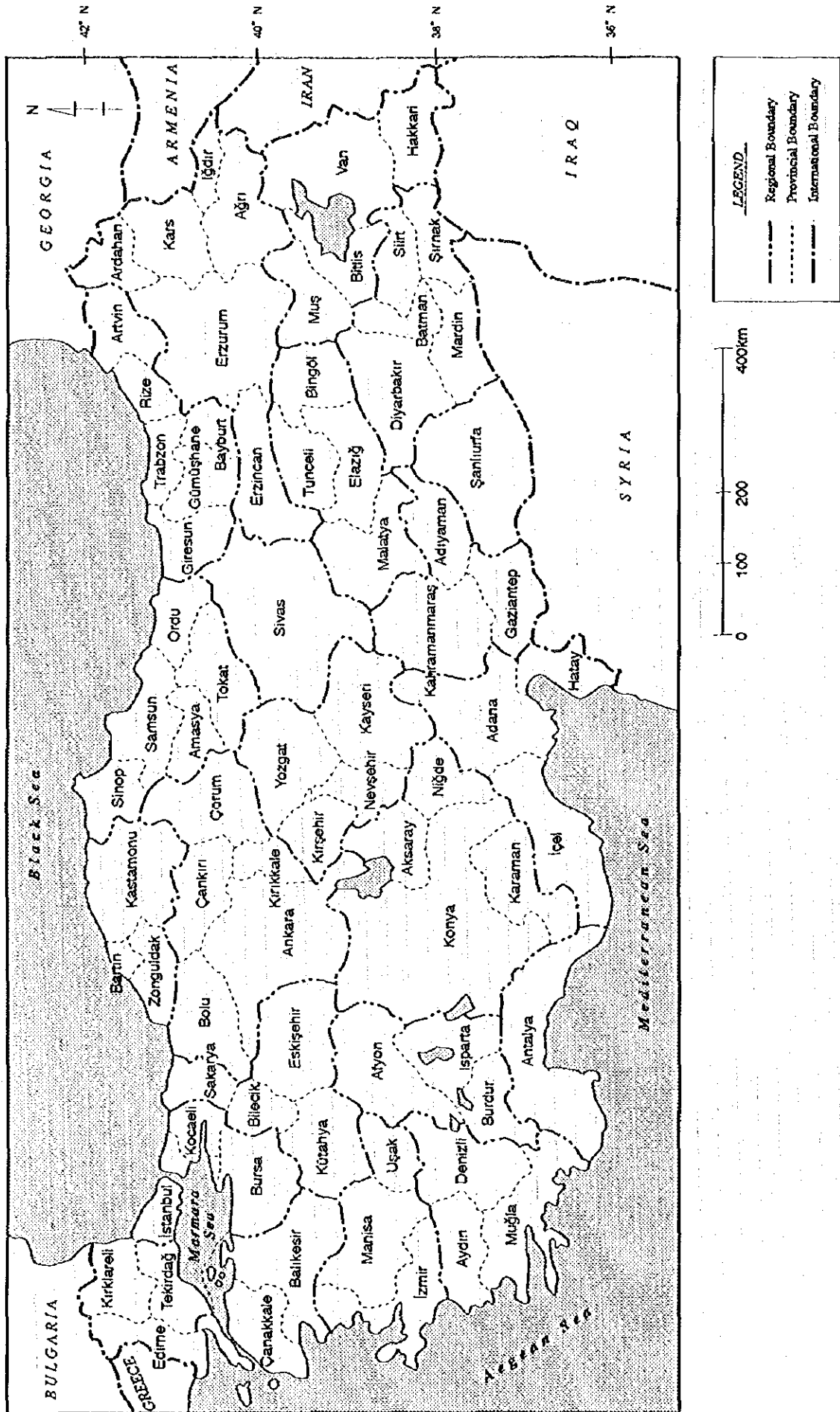


Figure-F.3 Administrative Region of General Directorate of Rural Services

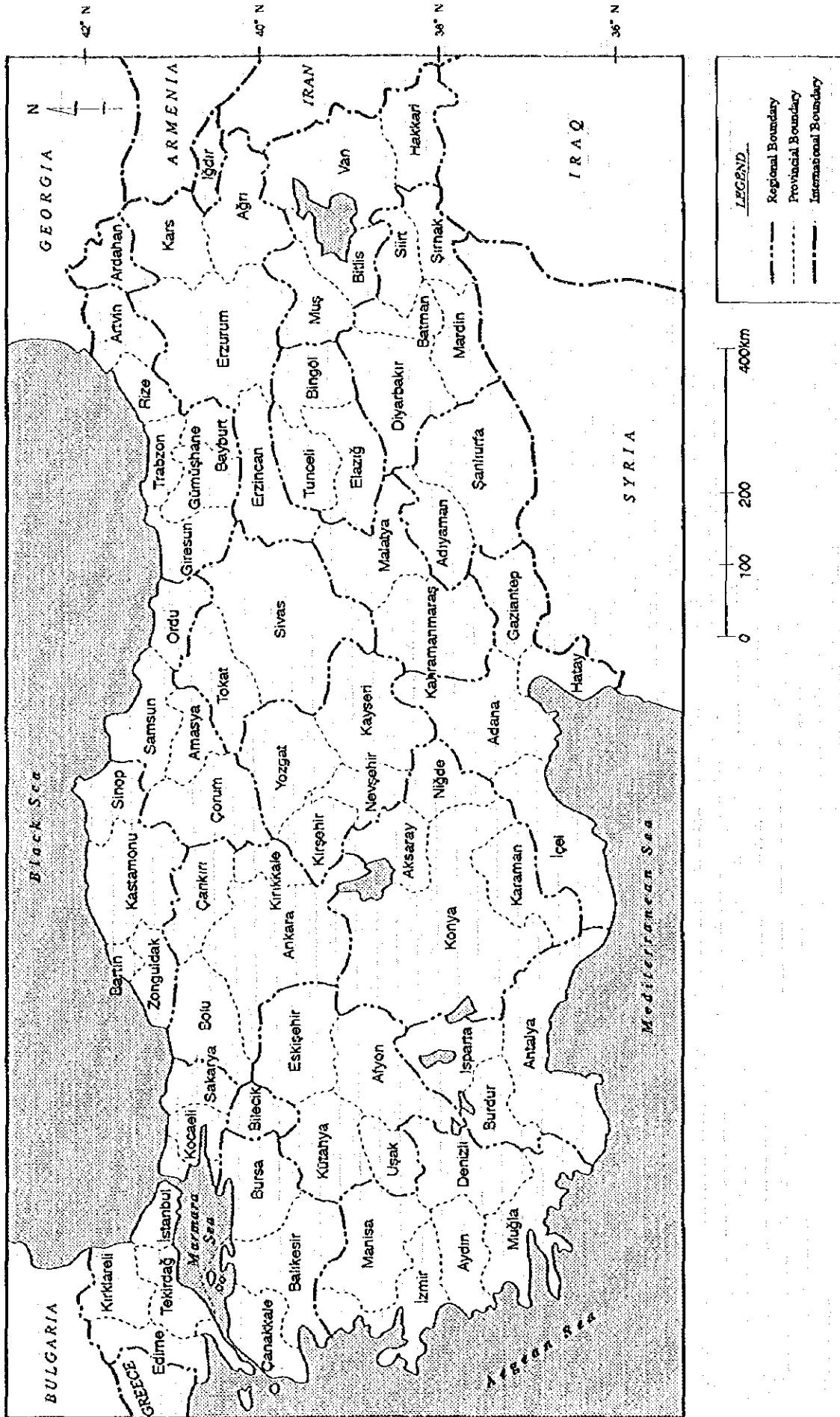
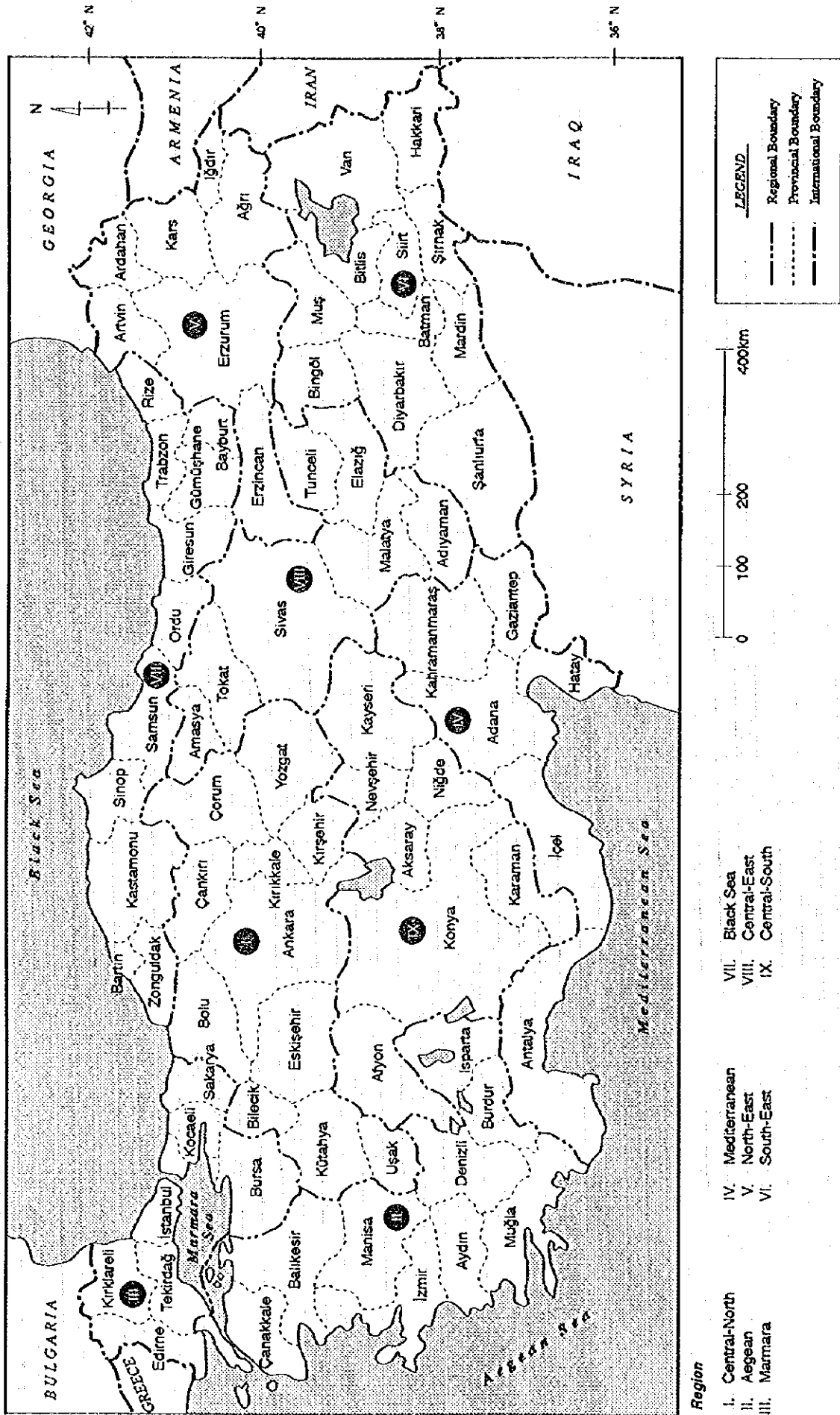


Figure-F.4 Administrative Regions of Ministry of Agriculture and Rural Affairs



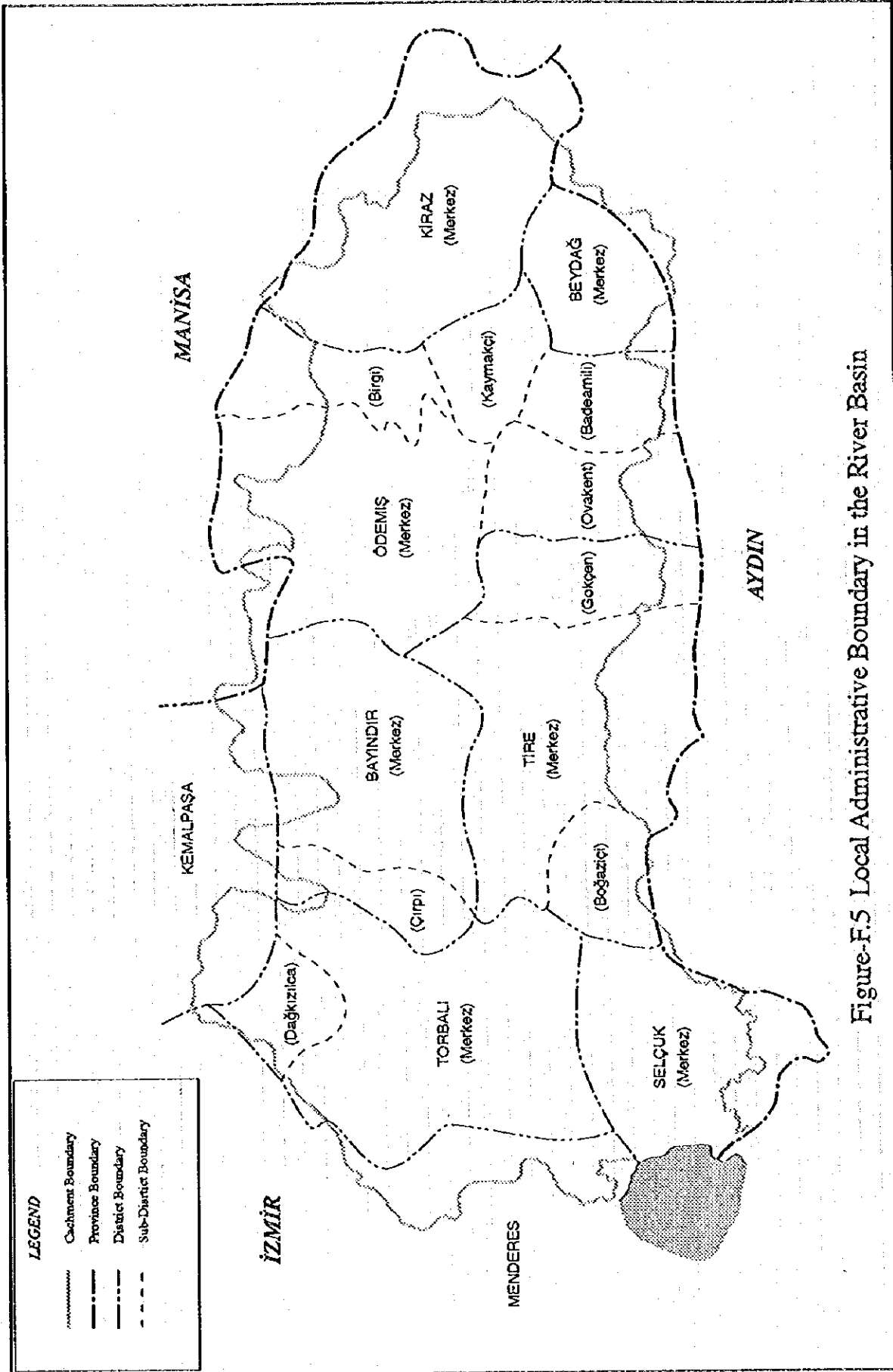


Figure-F.5 Local Administrative Boundary in the River Basin

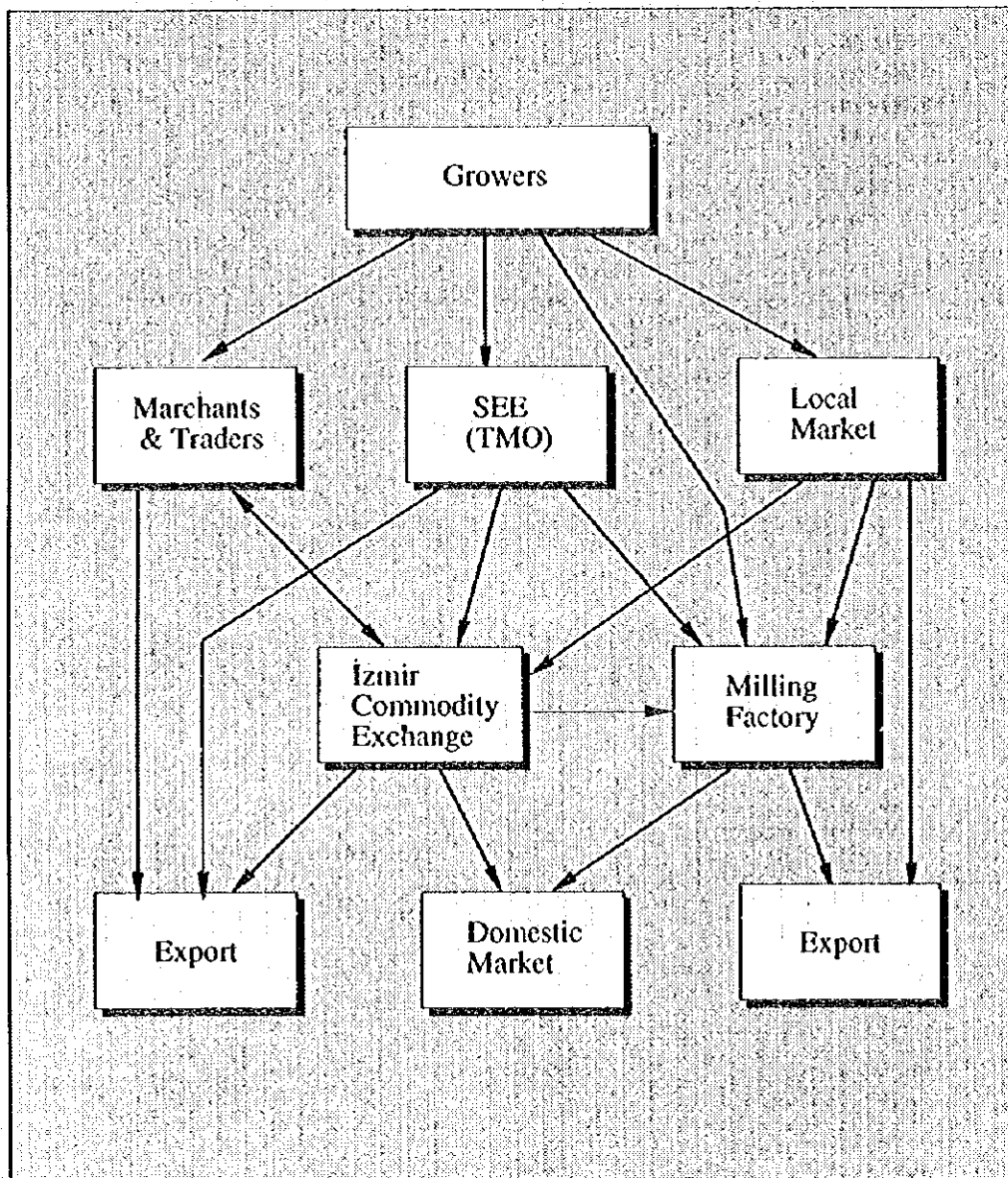


Figure-F.6 Marketing Channel of Cereal Crops

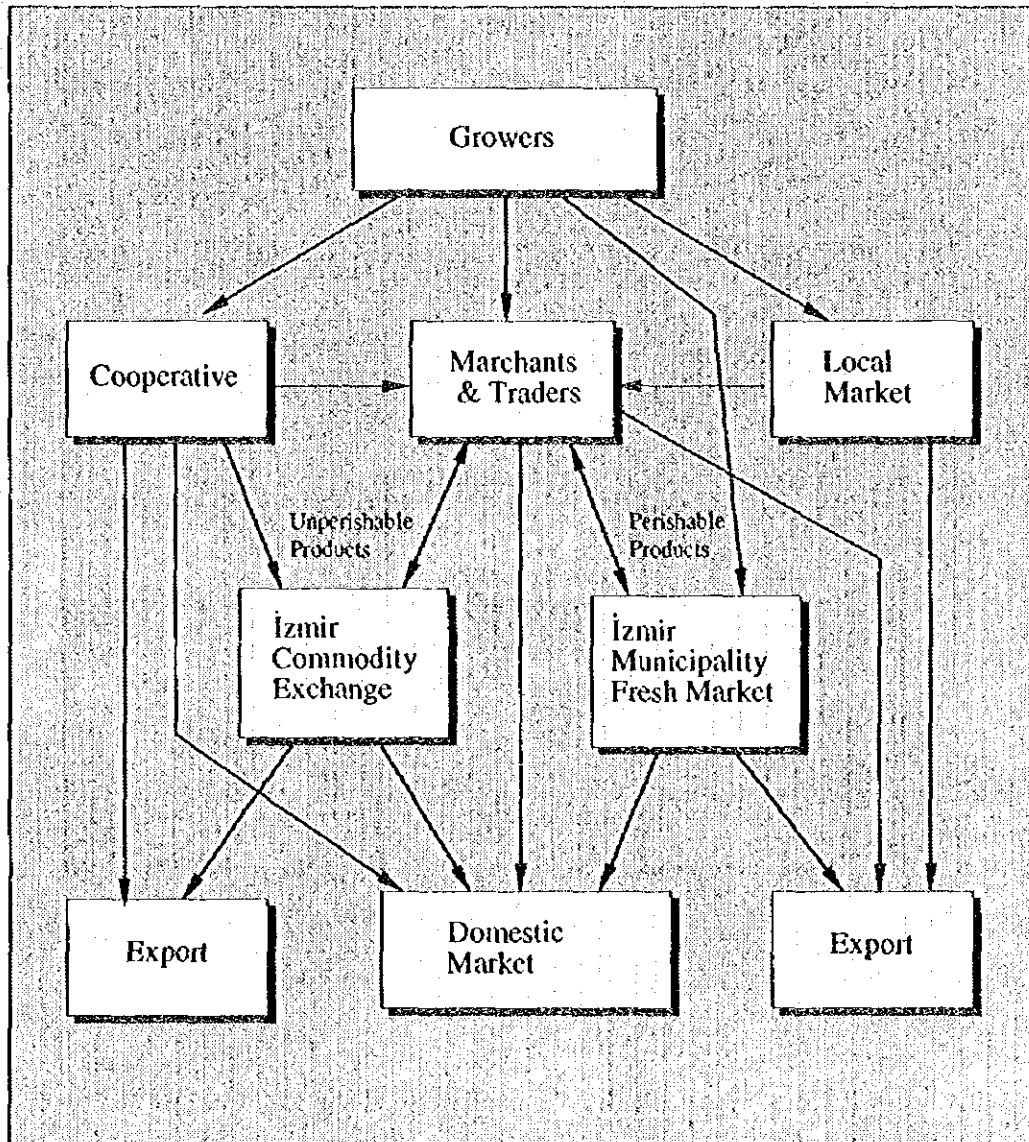


Figure-F.7 Marketing Channel of Fruits and Vegetables

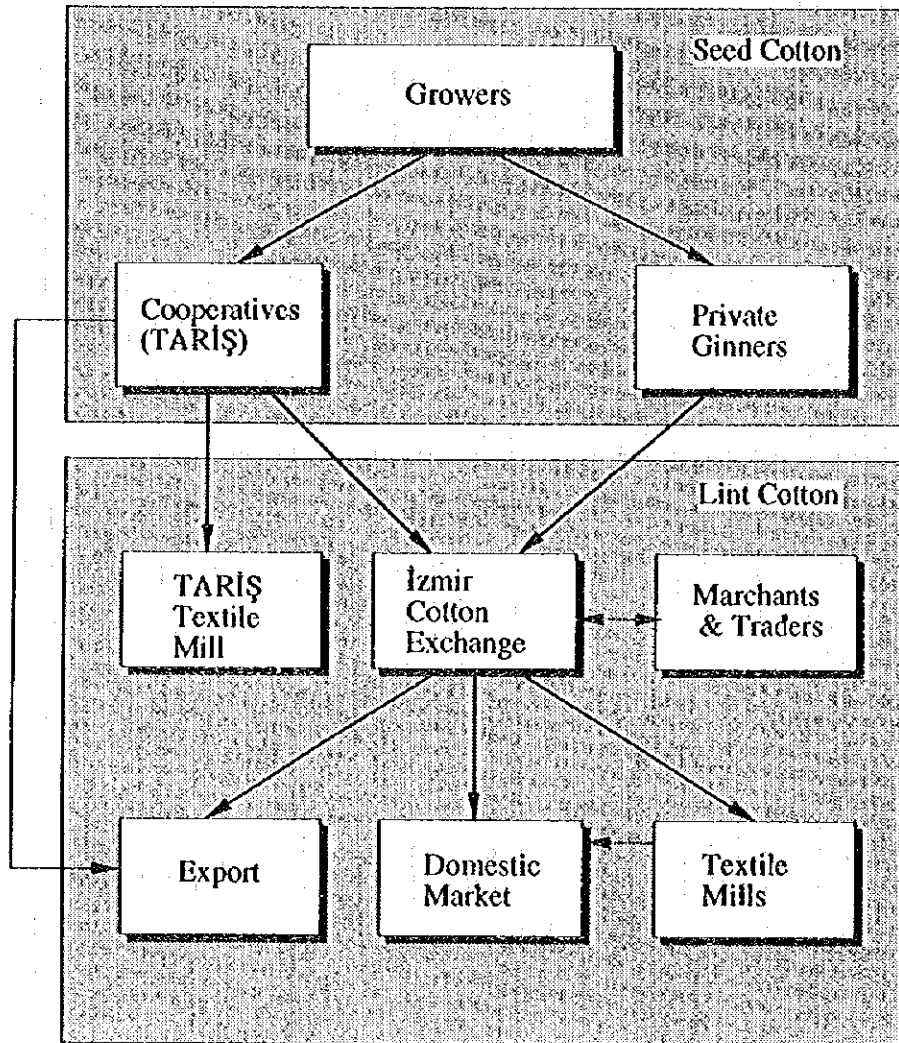


Figure-F.8 Marketing Channel of Seed and Lint Cotton

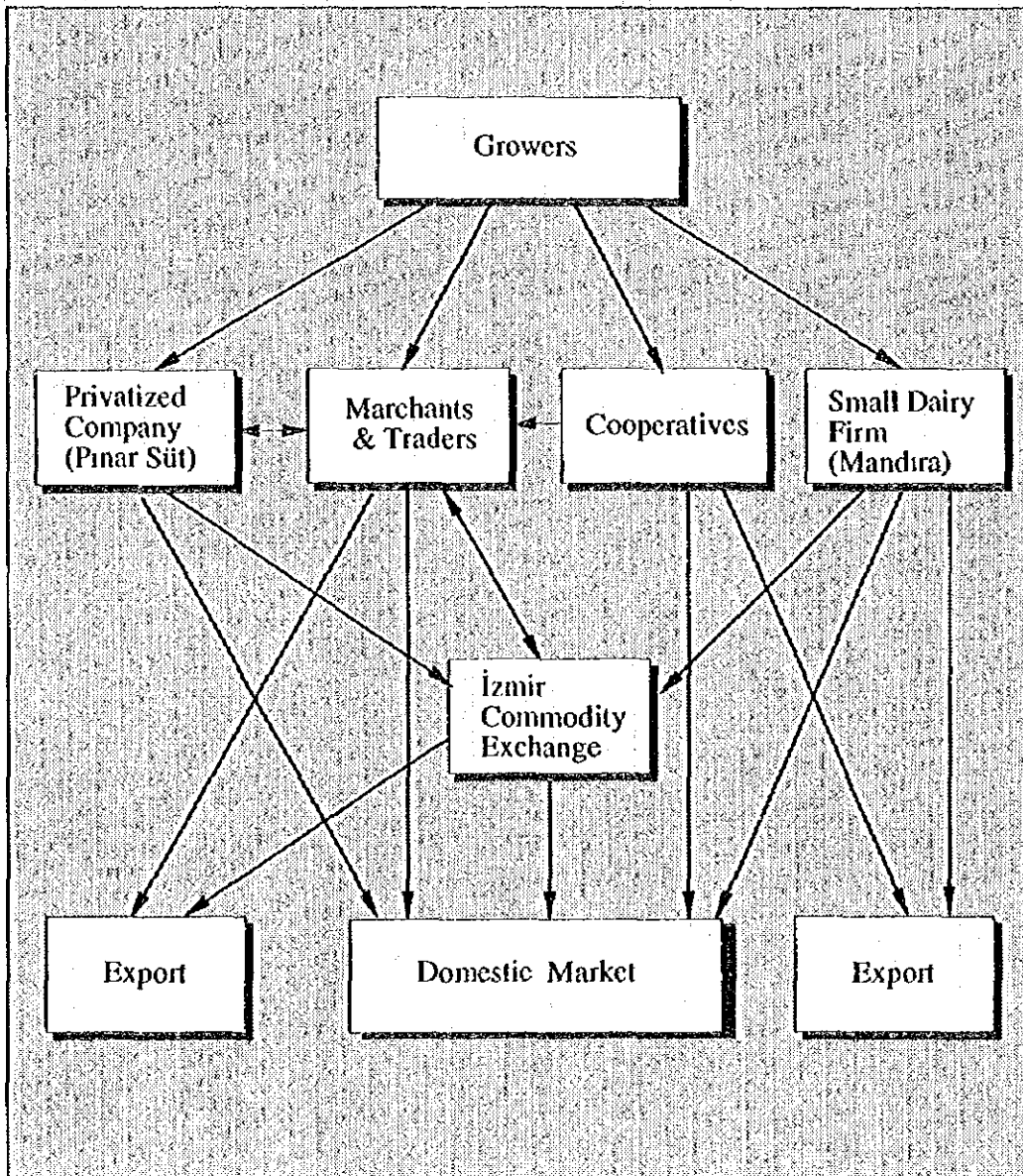


Figure-F.9 Marketing Channel of Dairy Products



*ANNEX G*

*DAM PLAN*

**ANNEX G**  
**DAM PLAN**

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**ANNEX G**  
**DAM PLAN**

**1. Review of Master Plan Prepared by DSİ in 1982**

The Master Plan Study on Küçük Menderes River Basin was conducted by DSİ-II in the period from 1980 to 1982, which covers the findings and recommendations reached in the study period. In the study, the development of the water and agricultural potential in the basin had been investigated at a master plan level. The proposal made in this study have mainly concentrated on the solution of the problems due to floods, and also irrigation projects had been proposed so as to make a better use of the water potential in the basin.

The facilities proposed in this study consist of three flood control dams, energy dissipating chutes and intercepting canals on the 6 tributaries and dikes. The proposed flood control dams are the Kiraz dam on the Keles river, the Uladı dam on the Uladı river, the Ödemis dam on the Rahmanlar river, while the energy dissipating chutes were proposed on the Ulçay river, the Sırnıldere river, the Eğridere river, the Zeytinlik river, the Tasavra river and the Pirinçci river. The proposed storage dams were the Beydağ on the Küçük Menderes river, the Ergenli dam on the Ergenli river, the Aktaş dam on the Aktaş river and the Burgaz dam on the Falaka river, all of which are for irrigation purpose. The main features of the above-mentioned flood control dams and storage dams are tabulated as below.

Name of Dam	Kiraz	Uladı	Ödemis	Beydağ	Ergenli	Aktaş	Burgaz
Purpose	flood	flood	flood	irrigation	irrigation	irrigation	irrigation
Catchment area (km <sup>2</sup> )	61.9	65.1	64.6	436.8	97.2	58.7	91.2
Dam type	earthfill	earthfill	earthfill	earthfill	earthfill	earthfill	earthfill
Dam height (m)	25.8	19.7	25.1	64.0	77.5	93.6	102.2
Dam length (m)	533.8	145.0	840.0	890.0	805.0	615.0	415.0
Dam volume (MCM)	0.30	0.09	0.26	8.82	6.85	3.83	7.02
N. R. C. (MCM)	0.46*	0.82*	0.95*	400.00	61.78	49.27	68.86

N. R. C. : Net reservoir capacity.

\* : Gross reservoir capacity

These storage dams mentioned in the above were designed based on the following engineering data.

(a) Run-off coefficient (C)

- Beydağ dam: C = 0.35 (F/S)
- Ergenli dam: C = 0.57
- Aktaş dam: C = 0.62
- C = 0.38 (F/S)
- Burgaz dam: C = 0.56

(b) Ratio of effective storage capacity to annual stream flow (S)

- Beydağ dam: S = 2.30 (F/S)
- Ergenli dam: S = 1.60
- Aktaş dam: S = 1.98
- S = 1.10 (F/S)
- Burgaz dam: S = 1.97

(c) Specific flood

- Beydağ dam:	4.18 m <sup>3</sup> /sec/km <sup>2</sup>
- Ergenli dam:	2.26 m <sup>3</sup> /sec/km <sup>2</sup>
- Aktaş dam:	2.66 m <sup>3</sup> /sec/km <sup>2</sup>
- Burgaz dam:	3.83 m <sup>3</sup> /sec/km <sup>2</sup>

(d) Specific Sediment discharge

- Uladı dam:	300 m <sup>3</sup> /km <sup>2</sup> /year
	150 m <sup>3</sup> /km <sup>2</sup> /year (modified)
- Kiraz dam:	400 m <sup>3</sup> /km <sup>2</sup> /year
- Tasavra sabo dam:	200 m <sup>3</sup> /km <sup>2</sup> /year
- Beydağ dam:	315 m <sup>3</sup> /km <sup>2</sup> /year
	300 m <sup>3</sup> /km <sup>2</sup> /year (modified)
- Ergenli dam:	252 m <sup>3</sup> /km <sup>2</sup> /year
	200 m <sup>3</sup> /km <sup>2</sup> /year (modified)
- Aktaş dam:	249 m <sup>3</sup> /km <sup>2</sup> /year
	200 m <sup>3</sup> /km <sup>2</sup> /year (modified)
- Burgaz dam:	250 m <sup>3</sup> /km <sup>2</sup> /year
	200 m <sup>3</sup> /km <sup>2</sup> /year (modified)

## 2. New Possible Sites for Storage Dam Construction

In the JICA Study period, reconnaissance survey was conducted along most of the main tributaries to find out new possible dam sites putting a main emphasis on the storage dam development for municipal water supply and irrigation use. As a result, eight dam sites are identified on the preliminary basis. The descriptions of the dam sites thus identified are briefed below (Figure G.1).

### (a) Uladı dam

In the Master Plan time, this dam was proposed on the Uladı river near Yakapınar village for the flood control purpose. This river has a catchment area of 66.0 km<sup>2</sup> at the proposed dam site. This dam site is also attractive as a storage dam site, which would provide a storage capacity of some 13 million cubic meters (MCM) by constructing a 100 m high and 420 m long earth dam. The Uladı river also provides another attractive site, about 2.0 km upstream of the above-mentioned site. This site would need the construction of a 83 m high and 505 m long earth dam to create a reservoir with a net storage capacity of 41.7 MCM.

### (b) Ödemis dam

This dam was also proposed as a flood control dam in the Master Plan time. The proposed dam site is located on the Rahmanlar river near Üzümli village, and provides a V-shaped river cross section. The catchment area is 64.6 km<sup>2</sup> at the proposed dam site. In order to avoid the submergence of the upstream villages such as Dereuzunyer, Bebekler, Ağatlar and Elmedenler as far as possible, the designed high water level of the reservoir should be set below these villages in elevation. Thus, the proposed dam height would be less than 25 m. In this case, the dam length would be 323 m and the net storage capacity will be minus 0.02 MCM.

### (c) Birgi dam

Since the Birgi river has a very steep slope of the river bed and heavy erosion occurs, DSI has constructed many sabo dams and flood protection dikes along the river. This river has a catchment area of 12.6 km<sup>2</sup> at the proposed dam site. The proposed dam site is selected near Hacı Hasan village, where less sediment loads are observed. Due to geological condition (weathered schist) at the dam site and the location of upstream village, the dam height will be limited to 70 m at maximum. Thus, the length of dam crest would be 280 m and the net reservoir capacity would be 0.42 MCM. Since the construction of this dam will require the embankment volume of 2.1 MCM, this dam site would be not attractive.

### (d) Bucak dam

The proposed dam site is selected on the Galinboz river, 18 km east of the Bucak village. The river has a catchment area of 18.0 km<sup>2</sup> at the proposed dam site. The right bank side is covered by deposits and its slope is gentle, while the left bank side is composed of schists and its slope is steep. In order to avoid the submergence of Bucak village in the reservoir, the dam height needs to be limited to less than 74 m. Thus, the dam length would be 1,080 m and the net reservoir capacity would be 9.2 MCM. Since the borrow pits for the embankment materials will be available in the proposed reservoir area, the reservoir capacity can be increased to some extent, if the embankment materials are collected from these borrow pits. In order to cut the leakage through the right bank abutment, the cut-off core trench should be provided there.

### (e) Akyurt dam

DSI-II studied the possibility of dam construction on the river 2.5 km downstream from Akyurt village, where the catchment area is 24.2 km<sup>2</sup>. As a result, this dam site was abandoned, because the foundation rock consists of marble stone underlain by schists and

much leakage was expected all over the reservoir area. For the construction of this storage dam, therefore, it is necessary to line the reservoir area with suitable materials. In this case, a 99 m high and 580 m long dam can be constructed to store 15.4 MCM of water. For this dam site, it is also conceivable to construct an artificial reservoir by excavating a river bed in order to reduce the area to be lined and to minimize the submergence of farm lands. This reservoir will have an area of 35 ha (825 m x 425 m) and a depth of 37 m, which can store 8.48 MCM of water.

(f) Egridere dam

The proposed dam site is located on the Kizikaya river near Egridere village. The river has a catchment area of 21.8 km<sup>2</sup> at the proposed dam site. There are no social and geological limitations at this dam site for the dam construction. The topography in the proposed reservoir area is formed by gentle mountain slopes which is assumed to be covered by a sedimentary layer extending down to the river bed. The proposed dam will have a height of 70 m and crest length of 410 m, and the net reservoir capacity will be 2.16 MCM, which can be increased up to 10.0 MCM if the borrow pits area is selected in the proposed reservoir area.

(g) Sarilar dam

The proposed dam site is located on the Tabak river near Sarilar village. The river has a catchment area of 30.9 km<sup>2</sup> at the proposed dam site. Topographically and hydrologically it is possible to create a reservoir with a net storage capacity of some 30.01 MCM by constructing a 119.5 m high and 1,150 m long earth dam. As an alternative plan, it is conceivable that the dam height will be limited to 50 m, which will require the dam crest length of 1,000 m, and provide a reservoir with a net capacity of 14.6 MCM, to avoid the submergence of a village and high productive farm lands. Both plans will require a detailed comparative study from the sociological, technical and economical view points.

(h) Pirinçi dam

The Pirinçi river provides two possible dam sites: one is located near Pirinçi village (Site-A) and the other is located about 2 km downstream of the Site-A (Site-B). In case of the Site-A, the dam height is limited to 124.5 m to avoid the submergence of a village. This dam will have a crest length of 740 m and provide a reservoir with a net storage capacity of 5.8 MCM. While, in case of Site-B, the proposed dam will be 70.5 m high and 725.5 m long and the reservoir capacity will be 5.23 MCM. In this case, some houses will be submerged in the reservoir.