

The cropping patterns in the interviewed villages in 2003

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Table 1. General information of each village

village	province	irrigation state	number of households	number of agricultural households	total size of cultivated land (da)
Kayisli	Adana	Irrigated	150	100	8400
Abdioglu	Adana	Irrigated	*1	*2	36000
Kilicli	Adana	Rainfed	600	400	17000
Beloren	Adana	Rainfed	200	200	13000
Alemdar	Konya	Irrigated	75	75	24000
Beylerce	Konya	Irrigated	20	20	7500
Cesmelisebil	Konya	Rainfed	700	500	100000
Karakaya	Konya	Rainfed	*3	*4	25000

*1 registered population: 3200, unregistered population: 4000, *2 number of households which manages more than 100 da: 100, *3 number in cropping season: 100, number in off-season: 20, *4 same as *3

Table 2. Number of interviewed farmers

village	Kayisli	Abdioglu	Kilicli	Beloren	Alemdar	Beylerce	Cesmelisebil	Karakaya
number of interview	26	24	25	26	25	16	24	22
investigator	Gulnur and Kusadokoro				Kondo and Maru			

1. General Information of interviewed villages

In 2003, we surveyed 8 villages; Kayisli, Abdioglu, Kilicli and Beloren in Adana, Alemdar, Beylerce, Cesmelisebil and Karakaya in Konya. Among of them, Kayisli, Abdioglu, Alemdar and Beylerce are irrigated villages, and others are rainfed villages. Table 1 shows the

information about the number of households, the number of agricultural households and the total size of cultivated land (including fallow land), which was got from the chiefs of each village.

2. About interviewed farmers

Table 2 shows the number of

interviewed farmers. Interviewed farmers were selected by the chiefs of

each village, so that these data don't have representativeness.

Table 3. The size of managed land and the number of plots by households

village	number and proportion of households which manages each size (da) of total land						average size	number and proportion of households which manages each number of plots					average number	average size of each plot
	0-50	50-100	100-200	200-300	300-500	500-		1-2	3-4	5-7	8-12	13-		
Kayisli	8 0.32	13 0.52	0 0	4 0.16	0 0	0 0	85.1	10 0.4	10 0.4	3 0.12	2 0.08	0 0	3.3	25.9
Abdioglu	8 0.33	6 0.25	3 0.13	1 0.04	2 0.08	4 0.17	224.0	11 0.46	9 0.38	4 0.17	0 0	0 0	2.9	77.8
Kilicli	10 0.4	5 0.2	6 0.24	3 0.12	1 0.04	0 0	98.3	8 0.32	7 0.28	7 0.28	3 0.12	0 0	4.3	23.0
Beloren	13 0.5	5 0.19	6 0.23	2 0.08	0 0	0 0	72.1	9 0.35	6 0.23	9 0.35	2 0.08	0 0	4.2	17.0
Alemdar	1 0.04	6 0.24	9 0.36	4 0.16	2 0.08	3 0.12	214.5	2 0.08	7 0.28	11 0.44	4 0.16	1 0.04	5.8	37.0
Beylerce	1 0.06	3 0.19	7 0.44	3 0.19	1 0.06	1 0.06	203.8	2 0.13	3 0.19	6 0.38	4 0.25	1 0.06	6.5	31.4
Cesmelisebil	1 0.05	3 0.14	6 0.29	6 0.29	3 0.14	2 0.1	370.4	3 0.14	1 0.05	9 0.43	6 0.29	2 0.1	7.3	50.5
Karakaya	0 0	4 0.18	9 0.41	3 0.14	1 0.05	5 0.23	289.5	1 0.05	4 0.18	6 0.27	5 0.23	6 0.27	9.3	31.2

3. The size of managed land and number of plots by households

Table 3 shows the information about the size of managed land and the number of plots by interviewed farmers.

Except for Abdioglu, the average size of managed land of villages in Adana is smaller than that in Konya. The farmer who has less than 50 da of land is rare in Konya; but in Adana, such farmer is popular. The number of plots in Adana is also smaller than that in Konya.

As to Karakaya, the data we collected are biased toward large farmers because of the demand of Turkish side.

4. The size of land and the number of plots by crops

Table 4 shows the information by crops. Except for Kayisli, wheat gives large values both in Adana and in Konya

In Adana, orange and 1st maize in Abdioglu and cotton in Kilicli give large values. However the value of watermelon in the table is not so high, it is an important crop in irrigated village in Adana because it needs rotation and bears large profit and high rent.

In Konya, dried bean and sugar beet in irrigated villages and barley in Karakaya give large values. Fallow can be found in

Table 4. Size of land and number of plots by crops

		total size (da)	number of plots	planting house- holds	proportion of planting households	average size of plots	average number of plots
Kayisli	1st maize	1774	73	22	0.85	81	3.3
	wheat	481	10	5	0.19	96	2.0
	soybean	251	5	1	0.04	251	5.0
	cotton	45	2	1	0.04	45	2.0
Abdioglu	wheat	2413	24	17	0.71	142	1.4
	orange	1699	29	18	0.75	94	1.6
	1st maize	1262	22	14	0.58	90	1.6
	cotton	692	4	3	0.13	231	1.3
	tomato	160	1	1	0.04	160	1.0
	watermelon	157	3	3	0.13	52	1.0
	dried bean	150	1	1	0.04	150	1.0
	soybean	150	1	1	0.04	150	1.0
	grapefruit	80	2	2	0.08	40	1.0
	lettuce	25	1	1	0.04	25	1.0
Kilici	wheat	1961	82	25	1.00	78	3.3
	cotton	311	18	14	0.56	22	1.3
	barley	29	5	5	0.20	6	1.0
	orange	9	1	1	0.04	9	1.0
	watermelon	2	1	1	0.04	2	1.0
Beloren	wheat	1294	66	23	0.88	56	2.9
	cotton	258	11	7	0.27	37	1.6
	watermelon	136	6	5	0.19	27	1.2
	barley	129	16	11	0.42	12	1.5
	orange	62	1	1	0.04	62	1.0
	chickpea	32	7	7	0.27	5	1.0
	grapefruit	18	1	1	0.04	18	1.0
	cowpea	9	1	1	0.04	9	1.0
	olive	3	1	1	0.04	3	1.0
	Alemdar	wheat	2298	59	21	0.84	109
dried bean		1441	40	21	0.84	69	1.9
sugar beet		908	30	25	1.00	36	1.2
pumpkin		334	8	2	0.08	167	4.0
barley		298	12	11	0.44	27	1.1
melon		77	7	7	0.28	11	1.0
1st maize		8	1	1	0.04	8	1.0
Beylerce	wheat	1738	51	13	0.81	134	3.9
	sugar beet	554	23	14	0.88	40	1.6
	dried bean	393	9	8	0.50	49	1.1
	pumpkin	275	8	5	0.31	55	1.6
	1st maize	108	4	4	0.25	27	1.0
	tomato	104	8	6	0.38	17	1.3
	barley	77	3	3	0.19	26	1.0
	clover	13	1	1	0.06	13	1.0
	Cesmelisebil	wheat	3449	64	20	0.83	172
lentil		340	11	8	0.33	43	1.4
cumin		190	4	4	0.17	48	1.0
barley		112	5	5	0.21	22	1.0
vetch		100	1	1	0.04	100	1.0
sugar beet		25	1	1	0.04	25	1.0
walnut		8	1	1	0.04	8	1.0
cherry		8	1	1	0.04	8	1.0
fallow		3548	66	20	0.83	177	3.3
Karakaya		wheat	2901	70	15	0.68	193
	barley	1893	74	20	0.91	95	3.7
	chikpea	350	17	6	0.27	58	2.8
	lentil	88	3	3	0.14	29	1.0
	oats	65	3	3	0.14	22	1.0
	fallow	1073	37	13	0.59	83	2.8

rained villages and gives large value.

5. Yields by crops

Table 5 shows yields of each crop calculated by dividing total production of

specific crop by total cropping land size. As to wheat, except for Kayisli, the yield in Adana is larger than that in Konya, and the yield in irrigated villages is larger than that in rained villages.

Table 5. Yields of each crop

		production (kg)	total size (da)	yield (kg/da)			production (kg)	total size (da)	yield (kg/da)
Kaysli	1st maize	1696950	1774	957	Kilicli	wheat	717200	1961	366
	wheat	160650	481	334		cotton	42303	311	136
	soybean	62800	251	250		barley	5600	26	215
	cotton	49500	45	1100		watermelon	1000	2	500
Abdioglu	wheat	1304000	2413	540	Beloren	wheat	475507	1294	367
	orange	3459000	1614	2143		cotton	42000	258	163
	1st maize	1007000	1062	948		watermelon	357000	136	2625
	cotton	368000	692	532		orange	210000	62	3387
	tomato	800000	160	5000		barley	5500	36	153
	dried bean	450000	150	3000		chikpea	43700	29	1507
	soybean	38000	150	253		grapefruit	1000	18	56
	watermelon	583000	132	4417		cowpea	3900	9	433
	grapefruit	190000	80	2375		olive	300	3	100
Alemdar	wheat	987300	2298	430	Beylerce	wheat	813700	1738	468
	dried bean	377770	1441	262		sugar beet	3289000	554	5937
	sugar beet	4986600	783	6369		dried bean	105500	393	268
	pumpkin	39660	334	119		pumpkin	30810	275	112
	barley	54500	248	220		1st maize	149000	108	1380
	melon	145000	77	1883		tomato	460000	104	4423
	1st maize	50000	8	6250		barley	28000	77	364
						clover	15000	13	1154
Cesmelisebil	wheat	847550	3449	246	Karakaya	wheat	705396	2901	243
	lentil	31050	340	91		barley	407864	1893	215
	cumin	4950	190	26		chikpea	26100	350	75
	barley	23500	112	210		lentil	7800	88	89
	vetch	10000	100	100		oats	7600	65	117
	sugar beet	5000	25	200					