

APPENDIX

TABLE A1
Net rural migration rate and percentage of people working in agriculture
(Spanish provinces, 1960-80)

	MR	AAP	AE	MR	AAP	AE
	1961-70	1960	1960	1971-80	1970	1970
Álava	2	29.4	31.1	5	16.1	16.5
Albacete	-28	61.1	59.9	-13	46.2	45.9
Alicante	9	40.4	35.6	23	20.9	20.7
Almería	-17	57.9	51.9	-13	48.1	48.7
Asturias	-15	34.5	31.5	-5	31.4	31.0
Ávila	-24	70.5	70.0	-17	59.0	66.2
Badajoz	-36	65.8	62.7	-15	52.1	55.4
Baleares	8	37.8	37.0	13	20.7	21.2
Barcelona	37	6.5	6.5	37	4.0	4.1
Burgos	-30	52.9	52.3	-13	42.9	44.5
Cáceres	-31	65.9	65.8	-16	55.0	57.9
Cádiz	-18	38.6	30.7	3	27.5	27.4
Cantabria	-9	34.0	38.6	1	42.2	40.0
Castellón	1	57.7	54.0	9	41.7	42.2
Ciudad Real	-30	58.8	57.2	-13	46.2	48.6
Córdoba	-35	58.7	55.8	-19	44.4	45.4
Coruña. La	-11	58.4	52.1	-4	47.9	49.9
Cuenca	-35	68.6	67.0	-18	58.4	63.3
Gerona	8	26.2	27.6	5	19.2	18.9
Granada	-27	61.2	59.6	-17	49.0	51.2
Guadalajara	-32.0	60.2	59.6	-18.0	47.0	52.8
Guipúzcoa	22	14.5	10.8	30	9.9	9.9
Huelva	-14	47.5	38.3	-5	36.5	39.2
Huesca	-11	48.1	48.5	-4	40.8	38.9
Jaén	-29	66.4	63.5	-18	51.7	51.9
León	-23	51.5	51.7	-17	48.1	49.7
Lérida	-6	48.0	48.9	-1	43.8	44.7
Lugo	-20	69.7	66.5	-5	69.7	72.5
Madrid	18	6.3	6.2	67	2.5	2.5
Málaga	-4	54.5	48.3	12	31.0	31.7
Murcia	-8	48.5	47.0	6	33.5	33.3
Navarra	4	41.5	41.1	6	28.0	28.2
Orense	-15	69.5	68.5	-7	61.3	54.9
Palencia	-31	50.5	49.2	-5	44.0	46.8
Palmas. Las	-11	51.1	48.2	20	27.6	28.6
Pontevedra	-6	58.5	52.4	1	42.2	40.0
Rioja. La	-8	50.6	49.2	6	39.3	40.0
Salamanca	-27	52.0	52.6	-15	43.3	46.4
Segovia	-33	53.7	54.6	-14	45.8	47.9
Sevilla	-9	39.3	38.8	7	29.0	30.1
Soria	-36	54.9	53.7	-21	48.0	53.2
Tarragona	9	46.7	45.2	10	34.6	34.0
Tenerife	3	55.8	58.2	-1	35.6	36.9
Teruel	-28	60.3	58.8	-14	53.8	58.1
Toledo	-22	60.8	60.0	-3	46.3	49.3
Valencia	10	41.5	41.1	19	24.5	24.4
Valladolid	-25	40.7	38.9	-5	27.1	28.0
Vizcaya	16	14.6	12.6	11	7.3	7.2
Zamora	-26	64.2	62.8	-14	57.7	57.2
Zaragoza	-17	39.4	37.9	-4	26.8	27.6

Note: MR (net rural migration rate); AAP (percentage of agricultural active population); AE (percentage of agricultural employees).

Sources: MR y AAP: own elaboration from García Fernández, 1985; AE: Banco Bilbao, 1962, 1973.

TABLE A2
Provincial data for econometric tests, 1960s and 1970s

	Migration	Labourers	Acreage	Irrigation	Plots	Yield	Wheat	Motorization	Market	Migration
	Rate								size	Rate_pd
Alava	1.9	14.0	21.0	1.0	22.1	10.7	26.7	501.3	11.2	6.3
Albacete	-28.2	46.2	28.5	2.7	7.1	5.2	25.0	143.0	46.9	-17.8
Alicante	8.7	61.9	7.4	17.6	4.0	12.9	3.4	223.6	11.9	2.0
Almería	-17.1	34.2	17.9	4.4	4.2	13.0	3.8	195.1	32.0	-13.8
Asturias	-14.9	3.6	7.0	0.6	8.6	12.5	1.9	21.6	13.7	0.2
Avila	-24.4	27.4	16.7	6.4	16.6	7.3	26.2	136.6	50.2	-14.5
Badajoz	-35.6	53.0	23.7	2.7	4.4	5.8	24.2	137.9	52.3	-10.1
Baleares	8.1	27.0	10.3	3.7	3.4	7.0	8.7	251.0	12.1	0.6
Barcelona	37.1	22.3	10.2	3.8	3.0	18.9	6.2	372.9	2.3	18.5
Burgos	-30.4	8.8	20.6	1.9	40.7	7.6	38.5	161.1	29.2	-13.5
Cáceres	-30.6	49.8	25.1	3.1	7.5	5.9	21.4	131.9	51.5	-13.0
Cádiz	-18.0	61.3	32.7	2.9	1.8	9.2	21.7	337.8	15.8	-1.3
Cantabria	-8.6	10.7	9.0	0.1	10.0	23.8	2.2	57.4	15.5	-5.7
Castellón	0.6	27.2	8.4	7.1	7.4	13.4	4.7	190.7	26.5	0.0
Ciudad Real	-30.2	53.3	31.8	1.9	7.3	4.5	24.6	157.8	39.0	-9.8
Córdoba	-34.8	69.6	24.7	2.7	3.4	8.4	18.2	193.7	39.1	-11.4
Coruña	-11.2	8.8	4.3	3.7	20.5	17.1	6.7	37.6	27.4	-5.7
Cuenca	-35.4	36.8	27.0	1.0	27.4	6.3	34.0	128.5	21.5	-15.5
Gerona	8.5	13.3	11.6	3.9	3.9	11.3	15.8	476.3	11.8	3.0
Granada	-27.1	52.1	13.6	7.8	4.1	6.5	27.2	124.6	32.6	-15.7
Guadalajara	-32.4	16.2	33.9	2.1	50.9	5.7	42.4	118.7	40.4	-15.8
Guipúzcoa	22.0	3.8	9.0	0.0	4.7	20.1	1.9	4.0	3.3	11.3
Huelva	-14.1	63.5	27.8	0.5	3.9	5.3	18.1	125.9	21.0	-2.2
Huesca	-11.4	15.7	36.8	8.0	9.2	9.5	40.7	412.5	36.2	-5.6
Jaén	-29.1	54.7	14.2	4.6	3.9	8.6	10.3	103.2	48.4	-17.1
León	-22.7	6.7	15.2	7.2	32.1	8.6	18.6	158.4	25.8	-5.6
Lérida	-6.1	11.3	22.6	12.0	5.6	9.6	26.4	354.1	35.7	-3.4
Logroño	-13.9	15.2	11.8	7.5	16.8	9.0	21.3	307.1	35.7	-8.4
Lugo	-20.2	7.1	9.1	2.7	18.3	8.1	4.8	18.5	50.6	-11.1
Madrid	17.6	35.6	26.8	5.6	12.4	7.7	23.8	398.4	1.9	18.8
Malaga	-3.9	59.7	13.2	5.0	2.6	10.6	14.4	125.4	25.4	-8.8
Murcia	-8.2	45.4	11.8	8.1	2.8	11.1	3.4	239.4	28.1	-8.2
Navarra	3.7	27.1	16.7	7.2	11.8	9.1	32.9	501.0	20.3	-4.9
Orense	-15.2	5.5	7.0	4.7	29.2	5.5	0.6	5.3	38.3	-9.4
Palencia	-31.4	20.9	25.0	3.6	32.7	42.0	46.4	223.3	26.8	-11.6
Palmas. Las	-10.7	41.8	6.6	8.9	3.5	11.9	0.1	1513.6	32.3	-1.7

	Migration Rate	Labourers	Acreage	Irrigation	Plots	Yield	Wheat	Motorization	Market size	Migration Rate_pd
Pontevedra	-6.1	9.0	3.0	8.7	18.4	13.3	0.2	20.8	29.3	-9.4
Salamanca	-27.3	28.5	21.6	2.1	32.1	6.1	37.7	169.1	29.2	-12.1
Santa Cruz	3.2	36.3	4.4	9.5	5.1	9.3	0.9	227.8	17.3	0.3
Segovia	-33.4	13.7	20.5	1.6	36.9	6.8	33.8	92.6	42.2	-13.0
Sevilla	-9.3	72.1	34.3	5.8	2.9	8.6	14.3	270.2	25.2	-2.7
Soria	-35.7	9.1	29.1	1.3	56.9	5.7	45.8	195.1	42.2	-14.7
Tarragona	8.7	24.4	9.9	9.5	4.2	8.1	4.7	127.8	22.3	-2.2
Teruel	-27.9	12.7	27.8	2.5	15.1	9.3	26.9	107.4	42.2	-14.7
Toledo	-21.8	54.8	21.6	3.2	8.6	5.3	25.7	208.7	50.8	-11.5
Valencia	10.2	35.9	6.4	14.2	5.9	5.7	1.7	362.9	19.7	-2.2
Valladolid	-24.7	42.9	23.6	5.9	20.5	28.5	37.5	315.6	24.9	-7.5
Vizcaya	16.4	3.5	5.7	0.0	4.4	7.2	3.4	56.9	3.9	14.7
Zamora	-26.2	15.7	17.2	4.5	36.9	17.2	31.5	139.5	39.1	-13.3
Zaragoza	-17.2	33.9	20.7	6.8	10.5	5.7	35.4	367.1	21.2	-2.5
Alava	4.6	6.8	15.1	1.2	16.6	10.9	27.3	210.8	8.9	1.9
Albacete	-12.9	52.3	5.2	3.0	7.1	5.7	20.5	55.1	27.7	-28.2
Alicante	22.7	56.5	0.8	20.0	3.5	14.0	1.9	90.6	11.2	8.7
Almería	-12.8	35.5	7.5	5.6	3.3	18.3	1.7	63.3	27.7	-17.1
Asturias	-4.6	3.0	2.8	0.0	9.2	18.3	1.9	104.2	9.0	-14.9
Avila	-16.8	22.6	7.5	3.9	12.4	6.3	24.2	61.7	31.5	-24.4
Badajoz	-15.2	49.5	8.0	4.3	4.7	6.1	17.0	49.7	29.0	-35.6
Baleares	12.8	29.9	2.9	4.2	2.7	8.8	3.8	101.6	9.8	8.1
Barcelona	36.9	24.5	3.9	3.3	2.8	17.1	5.6	216.3	1.8	37.1
Burgos	-13.2	8.5	11.3	1.9	41.4	6.0	34.1	93.5	23.5	-30.4
Cáceres	-15.8	37.9	7.4	4.1	6.3	5.1	17.0	35.5	26.2	-30.6
Cádiz	3.4	58.6	5.8	3.5	1.6	13.4	22.0	86.2	15.8	-18.0
Cantabria	0.7	5.0	3.3	0.0	8.9	26.3	1.2	146.9	12.6	-8.6
Castellón	8.7	31.1	2.5	8.2	6.3	14.6	1.1	70.5	19.8	0.6
Ciudad Real	-12.9	44.3	8.1	2.9	6.5	3.7	20.1	61.6	24.7	-30.2
Córdoba	-18.9	70.0	3.3	3.8	2.8	7.2	30.3	69.4	23.7	-34.8
Coruña	-4.3	2.6	2.7	0.5	16.6	17.6	5.9	128.9	17.1	-11.2
Cuenca	-17.5	22.4	11.2	0.8	19.9	3.5	43.6	72.0	35.4	-35.4
Gerona	4.8	13.2	8.5	4.0	4.6	10.8	10.4	224.0	11.3	8.5
Granada	-17.1	54.3	2.3	7.9	3.3	8.8	22.7	42.8	20.9	-27.1
Guadalajara	-18.2	13.2	11.6	1.9	37.6	4.7	42.9	62.9	24.3	-32.4
Guipúzcoa	30.5	2.1	11.2	0.0	6.1	18.8	0.3	145.7	6.6	22.0
Huelva	-4.6	49.9	4.9	0.7	3.8	4.9	17.5	36.7	20.4	-14.1
Huesca	-4.2	14.7	11.5	8.6	8.8	5.5	43.8	110.3	24.9	-11.4

	Migration	Labourers	Acreage	Irrigation	Plots	Yield	Wheat	Motorization	Market	Migration
	Rate								size	Rate_pd
Jaén	-18.0	69.6	2.6	4.6	3.5	3.5	22.4	41.1	28.3	-29.1
León	-16.8	3.5	6.6	6.2	27.1	10.1	14.4	70.0	22.4	-22.7
Lérida	-1.4	13.8	11.1	11.5	5.5	11.3	25.4	159.4	32.3	-6.1
Logroño	-4.0	10.1	3.3	8.4	15.1	12.3	15.6	97.6	19.3	-13.9
Lugo	-5.3	2.6	10.4	0.4	17.2	10.7	4.7	117.7	35.4	-20.2
Madrid	66.5	38.6	7.7	4.6	10.8	5.7	29.4	85.6	1.2	17.6
Malaga	12.3	52.4	3.5	6.1	2.5	7.6	11.7	51.7	13.2	-3.9
Murcia	5.9	56.3	0.7	10.4	2.3	11.2	3.2	68.5	13.7	-8.2
Navarra	6.0	22.5	7.9	6.8	11.0	31.4	25.2	124.2	15.4	3.7
Orense	-7.3	3.1	2.8	2.5	26.3	4.8	0.3	40.6	18.1	-15.2
Palencia	-18.8	14.6	16.7	5.9	27.8	3.8	47.6	73.1	24.9	-31.4
Palmas Las	19.5	37.8	0.7	5.0	3.1	17.5	0.1	76.7	13.8	-10.7
Pontevedra	0.8	4.9	0.8	6.2	17.3	13.5	0.1	57.1	20.3	-6.1
Salamanca	-14.9	17.4	11.3	2.5	17.3	5.5	33.0	49.2	19.3	-27.3
Santa Cruz	-0.8	27.0	0.7	7.8	3.2	46.1	0.4	77.8	11.9	3.2
Segovia	-13.8	11.3	15.0	1.6	27.3	6.4	28.5	69.1	29.4	-33.4
Sevilla	7.4	71.0	7.9	8.2	2.4	11.1	15.9	98.5	14.7	-9.3
Soria	-21.5	10.6	19.4	1.1	41.8	5.2	57.3	75.4	34.5	-35.7
Tarragona	10.4	29.0	7.0	10.8	3.6	6.9	2.9	88.5	14.7	8.7
Teruel	-14.2	6.7	11.1	2.3	15.8	5.3	29.7	56.6	34.1	-27.9
Toledo	-3.3	49.2	8.4	3.9	9.8	4.4	23.9	69.9	27.3	-21.8
Valencia	18.6	51.5	0.7	15.3	4.3	27.7	0.7	108.2	11.5	10.2
Valladolid	-5.5	28.9	20.4	8.1	13.8	6.9	29.9	111.3	17.1	-24.7
Vizcaya	10.8	3.7	3.4	0.0	5.0	24.1	0.0	102.0	5.2	16.4
Zamora	-13.7	9.5	11.5	4.0	34.5	5.6	31.1	55.3	30.8	-26.2
Zaragoza	-4.1	27.3	8.5	9.6	9.7	7.3	32.1	93.8	12.3	-17.2

Sources: MigratRate: own elaboration; Labourers, Acreage, Irrigation and Plots: Censos Agrarios 1962 and 1972 (INE, 1966 and 1975); Yields and Wheat: own elaboration based on data from Anuarios de Estadística Agraria, consulted in www.mapa.es; Motorization: own elaboration based on data from Censo de Maquinaria Agrícola, 1960 (Ministerio de Agricultura, 1961) and Anuario de Estadística Agraria, 1971, consulted in www.mapa.es; Migration Rate_pd: own elaboration and Tamames, 1962; Marketsize: own elaboration based on data from Alcaide, 2003.