



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University

All rights reserved

Table A1 Farm Price, Farm Price Index and Input Price Index

Year	Rice Price	Cotton Price	Ramie Price	Tobacco Price	Farm price Index	Input Price Index
1950	8.04	134.34	97.60	82.00	100.00	100.00
1951	9.12	151.84	117.40	82.00	112.60	98.50
1952	9.80	153.80	117.00	82.00	110.91	100.86
1953	10.72	153.46	114.86	82.00	122.22	101.57
1954	10.72	153.34	119.72	83.50	118.67	100.14
1955	10.72	153.36	119.90	83.50	120.57	99.34
1956	10.72	153.26	119.90	83.50	123.95	96.46
1957	10.90	154.74	120.28	83.50	135.60	98.87
1958	11.80	154.84	122.94	83.50	141.16	99.56
1959	11.80	154.84	122.98	126.50	143.70	100.36
1960	12.38	154.84	126.08	128.60	149.16	99.56
1961	16.00	154.84	126.30	200.00	186.75	120.96
1962	16.00	154.84	164.92	130.00	199.08	127.62
1963	16.00	178.00	164.92	130.00	192.31	119.45
1964	16.00	178.00	164.92	130.00	187.50	111.09
1965	16.00	178.00	164.92	130.00	177.19	107.53
1966	19.00	178.00	164.92	130.00	185.16	103.12
1967	19.00	178.00	164.92	130.00	185.16	99.10
1968	19.00	178.00	164.92	130.00	186.09	95.83
1969	19.00	204.00	164.92	130.00	187.58	92.76
1970	19.00	204.00	164.92	130.00	188.89	91.09
1971	19.00	204.00	164.92	130.00	187.00	90.18
1972	19.00	209.60	164.92	130.00	188.69	89.37
1973	19.00	209.60	190.60	130.00	187.93	89.46
1974	19.00	209.60	190.60	130.00	187.74	89.55
1975	19.00	209.60	190.60	130.00	188.12	89.10
1976	19.00	209.60	190.60	130.00	187.74	88.92
1977	19.00	209.60	190.60	130.00	186.62	88.92
1978	21.26	230.00	190.60	130.00	185.50	89.01
1979	27.88	256.60	208.00	125.80	191.62	89.01
1980	30.58	322.00	240.00	150.00	217.68	90.79
1981	31.54	312.00	202.00	216.00	223.34	90.89
1982	32.72	313.16	215.08	140.38	226.91	93.79
1983	31.20	322.00	238.00	150.00	233.04	97.64
1984	31.94	276.00	282.00	158.00	240.96	104.96
1985	31.58	255.70	940.00	153.30	269.64	113.36
1986	33.14	314.00	1340.00	169.90	284.20	116.19
1987	36.74	364.10	579.00	241.10	316.31	133.16
1988	46.06	473.90	229.30	352.70	397.60	170.84
1989	56.50	555.00	282.00	330.00	518.08	230.74
1990	55.68	716.90	211.20	239.40	718.06	336.68

Source: Hunan Price Administration Bureau

Table A2 Relative Price Rates and Price Indices

Year	Crop Price over Rice Price				Price Indices Based on Year 1950			
	Rice	Cotton	Ramie	Tobacco	Rice	Cotton	Ramie	Tobacco
1950	1.00	16.70	12.13	10.19	100.00	100.00	100.00	100.00
1951	1.00	16.64	12.87	8.99	113.43	113.02	120.28	100.00
1952	1.00	15.69	11.93	8.36	121.89	114.48	119.87	100.00
1953	1.00	14.31	10.69	7.64	133.33	114.23	117.47	100.00
1954	1.00	14.30	11.16	7.78	133.33	114.14	122.66	101.82
1955	1.00	14.30	11.18	7.78	133.33	114.15	122.84	101.82
1956	1.00	14.29	11.18	7.78	133.33	114.08	122.84	101.82
1957	1.00	14.19	11.03	7.66	135.57	115.18	123.23	101.82
1958	1.00	13.12	10.41	7.07	146.76	115.25	125.96	101.82
1959	1.00	13.12	10.42	10.72	146.76	115.25	126.00	154.26
1960	1.00	12.50	10.18	10.38	153.98	115.25	129.18	156.82
1961	1.00	9.67	7.89	12.50	199.00	115.25	129.40	243.90
1962	1.00	9.67	10.30	8.12	199.00	115.25	168.97	158.53
1963	1.00	11.12	10.30	8.12	199.00	132.49	168.97	158.53
1964	1.00	11.12	10.30	8.12	199.00	132.49	168.97	158.53
1965	1.00	11.12	10.30	8.12	199.00	132.49	168.97	158.53
1966	1.00	9.36	8.67	6.84	236.31	132.49	168.97	158.53
1967	1.00	9.36	8.67	6.84	236.31	132.49	168.97	158.53
1968	1.00	9.36	8.67	6.84	236.31	132.49	168.97	158.53
1969	1.00	10.73	8.67	6.84	236.31	151.85	168.97	158.53
1970	1.00	10.73	8.67	6.84	236.31	151.85	168.97	158.53
1971	1.00	10.73	8.67	6.84	236.31	151.85	168.97	158.53
1972	1.00	11.03	8.67	6.84	236.31	156.02	168.97	158.53
1973	1.00	11.03	10.03	6.84	236.31	156.02	195.28	158.53
1974	1.00	11.03	10.03	6.84	236.31	156.02	195.28	158.53
1975	1.00	11.03	10.03	6.84	236.31	156.02	195.28	158.53
1976	1.00	11.03	10.03	6.84	236.31	156.02	195.28	158.53
1977	1.00	11.03	8.45	6.84	236.31	156.02	164.54	158.53
1978	1.00	10.81	8.96	6.11	264.42	171.20	195.28	158.53
1979	1.00	9.20	7.46	4.51	346.76	191.00	213.11	153.41
1980	1.00	10.52	7.84	4.90	380.34	239.69	245.90	182.92
1981	1.00	9.89	6.40	6.84	392.28	232.24	206.96	263.41
1982	1.00	9.57	6.57	4.29	406.96	233.11	220.36	171.19
1983	1.00	10.32	7.62	4.80	388.05	239.69	243.85	182.92
1984	1.00	8.64	8.82	4.94	397.26	205.44	288.93	192.68
1985	1.00	8.09	29.76	4.85	392.78	190.33	963.11	186.95
1986	1.00	9.47	40.43	5.12	412.18	233.73	1372.95	207.19
1987	1.00	9.91	15.76	6.56	456.96	271.02	593.44	294.02
1988	1.00	10.28	4.97	7.65	572.88	352.76	234.93	430.12
1989	1.00	9.82	4.99	5.84	702.73	413.13	288.93	402.43
1990	1.00	12.87	3.79	4.29	692.53	533.64	216.39	291.95

Source: Calculated by the author with the data of Table A1

Table A3 Agricultural Output Prices in Hunan Province

Unit: yuan/100 kg

Year	Sugar -cane	Wheat	Soybean	Peanuts	Rapeseed Oil	Pigs	Chicken	Eggs	Oranges	Tea	Water Melon	Dry Chili	Silk Cocoon	Fish
1950	32.00	15.32	19.24	25.00	72.96	55.30	75.08	47.56	11.78	124.00	10.00	53.20	76.00	28.94
1951	32.00	17.74	21.22	28.44	76.48	56.62	81.00	50.04	12.06	124.00	10.00	46.56	76.00	33.12
1952	32.00	15.18	19.86	26.50	63.68	55.12	79.28	48.28	15.18	124.00	10.00	55.18	80.00	35.74
1953	32.00	15.80	22.52	29.56	51.68	59.16	78.08	70.10	19.14	124.00	11.00	89.28	96.00	40.52
1954	32.00	15.48	18.82	27.70	68.36	59.72	90.08	67.02	19.58	124.00	11.00	87.06	100.00	26.02
1955	32.00	15.18	18.9	24.40	73.64	57.70	99.40	84.84	21.64	126.00	11.00	79.76	153.00	29.20
1956	32.00	15.18	23.54	29.98	73.64	59.68	102.40	79.36	21.78	138.00	11.00	76.14	160.00	36.86
1957	30.00	15.18	23.54	29.98	94.96	75.10	104.06	93.34	20.98	138.00	11.00	76.55	180.00	49.34
1958	30.00	15.18	23.54	29.98	94.96	75.16	107.78	94.86	21.28	154.00	11.00	76.34	180.00	49.72
1959	30.00	15.20	23.54	29.98	94.96	75.16	112.88	107.70	21.42	154.00	11.00	76.24	200.00	59.06
1960	32.00	16.56	23.86	34.32	110.56	75.16	126.28	120.76	21.42	154.00	14.00	87.66	200.00	62.56
1961	60.00	22.00	27.06	39.10	144.70	93.80	199.78	165.88	37.72	154.00	14.00	186.16	200.00	74.34
1962	30.00	22.00	27.06	39.10	144.70	93.80	177.56	173.56	37.72	154.00	14.00	110.00	200.00	80.48
1963	30.00	22.00	27.06	39.10	144.70	93.80	129.24	150.28	30.28	154.00	14.00	110.00	200.00	70.84
1964	30.00	22.00	27.06	39.10	144.70	93.80	129.24	141.04	30.28	186.00	14.00	110.00	200.00	63.82
1965	30.00	22.00	27.06	39.10	144.70	92.88	128.32	120.60	30.28	186.00	14.00	110.22	200.00	59.60
1966	30.00	26.00	32.52	39.10	144.70	92.88	130.84	118.08	30.28	186.00	14.00	125.66	200.00	61.82
1967	30.00	26.00	32.52	39.10	144.70	92.88	131.54	121.36	30.28	186.00	14.00	125.66	230.00	66.90
1968	30.00	26.00	32.52	39.10	144.70	92.88	130.82	122.76	30.28	186.00	14.00	125.66	230.00	66.90
1969	30.00	26.00	32.52	39.10	144.70	92.88	131.92	122.28	30.28	186.00	14.00	125.66	230.00	66.90
1970	30.00	26.00	32.52	39.10	144.70	92.88	132.40	129.60	30.28	186.00	14.00	125.66	230.00	66.90
1971	38.00	26.00	32.52	56.00	170.00	92.88	132.40	129.60	30.28	186.00	14.00	141.78	230.00	67.62
1972	38.00	26.00	32.52	56.00	170.00	92.88	132.40	129.60	30.28	186.00	14.00	141.78	230.00	68.00
1973	38.00	26.00	32.52	56.00	170.00	92.90	132.40	135.26	30.28	190.00	16.00	141.78	230.00	69.14
1974	38.00	26.00	32.52	56.00	170.00	92.90	132.40	136.40	31.42	190.00	16.00	141.78	230.00	78.00
1975	38.00	26.00	32.52	56.00	170.00	92.90	132.40	136.40	31.42	190.00	16.00	141.78	230.00	78.00
1976	38.00	26.00	32.52	56.00	170.00	92.90	132.40	136.40	31.42	190.00	16.00	141.78	230.00	78.00
1977	38.00	26.00	32.52	56.00	170.00	92.90	132.40	136.40	32.54	190.00	16.00	141.78	230.00	78.00
1978	38.00	26.00	42.00	56.00	170.00	92.90	132.40	136.40	35.58	190.00	18.00	143.70	230.00	78.00
1979	45.00	31.40	48.00	72.00	212.00	118.32	193.94	165.60	44.00	190.00	11.20	182.14	276.00	106.00
1980	51.00	31.40	48.00	72.00	212.00	118.40	220.00	161.40	44.00	190.00	14.00	182.00	276.00	106.00
1981	52.00	31.40	72.00	72.00	212.00	124.12	200.00	177.34	44.00	224.00	14.00	184.00	276.00	106.00
1982	61.33	31.40	72.00	72.00	212.00	124.12	200.00	180.00	44.00	224.00	14.00	184.00	276.00	106.00
1983	85.00	31.40	72.00	110.00	212.00	124.12	280.00	180.00	44.00	224.00	22.40	200.00	276.00	106.00
1984	57.00	41.98	76.00	136.92	275.60	124.12	280.00	210.00	60.00	230.40	19.14	184.00	312.00	106.00
1985	57.80	42.40	80.00	114.00	275.60	192.00	352.00	272.00	90.00	339.50	18.00	222.00	316.00	302.00
1986	62.00	43.62	85.00	112.86	276.06	201.62	334.52	296.16	70.00	240.00	18.00	222.00	301.24	260.00
1987	75.00	52.00	97.00	138.00	229.00	234.00	476.00	389.00	85.00	341.00	26.00	232.00	403.00	327.00
1988	105.00	55.00	115.43	193.92	328.58	355.08	619.62	561.00	114.00	578.90	49.67	824.00	795.83	493.30

Source: Hunan Price Administration Bureau

Table A4 CROP PRODUCTION COST, INCOME AND PROFIT LEVELS IN HUNAN PROVINCE

Crops	Items	Unit	Years										
			1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
RICE													
	Income	yuan/mu	76.7	95.9	108	100	108	132	139	165	190	224	265
	Cost of material input	"	38.3	41.9	41.1	38.9	41	44.7	50.4	60	66.5	84.8	89.3
	Labor used amount	days/mu	36.4	35.6	28.9	26.4	23.8	21.6	20.6	21.2	21.3	21.4	22.2
	Labor cost	yuan/mu	29.1	35.6	28.9	26.4	35.7	32.5	30.9	45	50.6	71.6	76.1
	Total cost	"	67.4	77.5	70	65.3	76.7	77.2	81.3	105	117	156	165
	Net income (NI)	"	38.4	54	66.5	61.2	67.2	87.1	88.4	105	123	139	176
	Net income after tax	"	6.39	14.7	34.1	31.4	27.7	50.6	53	52.2	65.6	52.9	91.6
	Net Profit after tax	"	-23	-21	5.18	4.93	-8	18.1	22.1	7.19	14.9	-19	15.6
	NI return to labor	yuan/day	1.05	1.52	2.3	2.31	2.82	4.02	4.29	4.94	5.71	6.5	7.91
COTTON													
	Income	yuan/mu	143	170	144	208	227	253	287	344	479	491	806
	Cost of material input	"	43.7	45.6	38.5	41.4	40.8	41.3	43.5	62.1	72	102	110
	Labor use amount	days/mu	50.1	53.8	48.4	54.6	55.1	42.1	45	46.2	50.3	51.6	59.7
	Labor cost	yuan/mu	40.1	53.8	48.4	54.6	82.7	63.1	67.5	101	124	172	204
	Total cost	"	83.7	99.4	86.9	96	123	104	111	163	196	274	315
	Net income (NI)	"	99.6	124	106	166	187	211	243	281	407	390	695
	Net income after tax	"	55.1	65.7	50.5	103	96.4	142	168	171	272	202	479
	Net Profit after Tax	"	15.1	11.8	2.11	48.7	13.8	79	100	69.7	148	30	275
	NI return to labor	yuan/day	1.99	1.9	2.19	3.05	3.33	5.02	5.4	5.99	7.68	7.56	11.7
RAMIE													
	Income	yuan/mu	262	305	228	167	444	1223	1450	973	927	245	360
	Cost of material input	"	56.8	61.1	41.6	31.1	70.9	79.7	113	80.7	83.9	49.6	58.4
	Labor use amount	days/mu	55.4	59.3	39.4	32.9	56.9	69.3	65.6	56.5	55.7	34.6	45.1
	Labor cost	yuan/mu	44.3	59.3	39.4	32.9	85.4	104	98.3	106	119	115	154
	Total cost	"	101	120	81	64	156	184	211	187	203	165	213
	Net income (NI)	"	205	244	186	136	373	1143	1337	892	843	196	301
	Net income after tax	"	151	173	140	97	277	1029	1234	778	717	71.6	138
	Net Profit after Tax	"	107	113	101	64.1	192	925	1136	672	598	-44	-16
	NI return to labor	yuan/day	3.7	4.11	4.73	4.14	6.56	16.5	20.4	14.2	13.7	5.67	6.68
TOBACCO													
	Income	yuan/mu	209	231	244	309	328	239	289	323	380	441	528
	Cost of material input	"	47.8	58.5	62.9	60.4	63.4	61.8	85.8	89.4	152	120	281
	Labor use amount	days/mu	79.9	59.1	45.9	56.3	61.3	51.8	47.7	49.5	42.5	49	30.3
	Labor cost	yuan/mu	63.9	59.1	45.9	56.3	91.9	77.7	71.6	104	93.2	164	104
	Total cost	"	112	118	109	117	155	140	157	194	245	284	384
	Net income (NI)	"	161	173	181	248	265	177	203	234	228	320	247
	Net income after tax	"	95.3	112	134	190	171	96.4	128	125	131	151	139
	Net Profit after Tax	"	31.4	53.2	88	134	79.1	18.6	56.8	20.8	37.5	-13	34.9
	NI return to labor	yuan/day	2.01	2.92	3.94	4.4	4.31	3.41	4.26	4.73	5.71	6.53	8.15

Source: Hunan Agricultural Administration Bureau

Table A5 Crop Outputs, Marketed Amounts and Commercial Rates in Hunan Province

Years	Annual Output Amount (1000 ton)				Marketed Amount (1000 ton)				Commercial Rate (%)			
	Rice	Cotton	Ramie	Tobacco	Rice	Cotton	Ramie	Tobacco	Rice	Cotton	Ramie	Tobacco
1976	16059.1	101.5	7.95	35.89	3700	90.04	8.6	36.3	23.03	88.70	108.17	101.14
1977	16348.1	96.3	6.91	39.09	3750	89.42	9.0	39.7	22.93	92.85	130.24	101.56
1978	20879.1	75.6	9.80	53.00	3841	73.21	9.0	48.2	18.39	96.83	91.83	90.94
1979	20017.2	93.7	12.86	53.14	4397	92.24	11.0	39.0	21.96	98.44	85.53	73.39
1980	19425.1	96.2	12.81	37.17	4906	94.51	13.0	34.5	25.25	98.24	101.48	92.81
1981	20221.1	93.8	16.10	75.56	5241	92.3	15.2	70.7	25.91	98.40	94.40	93.56
1982	22402.5	98.1	18.96	112.79	6244	90.3	18.7	105.6	27.87	92.04	98.62	93.62
1983	24581.1	97.9	14.33	62.94	7012	97.6	12.9	53.4	28.52	99.69	90.02	84.84
1984	24165.6	128.0	14.25	85.82	6471	121.5	13.5	78.3	26.77	94.92	94.73	91.23
1985	23387.6	101.1	27.34	130.21	4469	101.7	22.5	117.6	19.10	100.59	82.29	90.31
1986	24643.3	83.3	93.73	92.03	5755	76.5	67.8	72.7	23.35	91.83	72.33	78.99
1987	24141.7	55.5	232.97	96.82	5239	55.4	136.3	87.1	21.70	99.81	58.50	89.96
1988	23665.9	43.9	114.49	126.37	5451	50.1	153.2	92.7	23.03	114.12	133.81	73.35
1989	24921.8	67.0	64.90	144.70	5991	52.5	90.0	125.2	24.03	78.35	138.67	86.52
1990	26926.7	120.1	25.20	112.30	6169	123.5	53.2	101.2	22.91	102.83	211.11	90.11

Source: Hunan Agricultural Administration Bureau
Hunan Price Administration Bureau

Table A6 - YIELD, PLANTED AREA AND OUTPUT OF RICE, COTTON, RAMIE AND TOBACCO
IN HUNAN PROVINCE AND 10 PERFERCTURES IN RECENT YEARS

Region	Year	Rice			Cotton			Ramie			Tobacco		
		Yield	Area	Output	Yield	Area	Output	Yield	Area	Output	Yield	Area	Output
Hunan	1976	231	69489	16059	37	2753	102	67	119	7.96	66	543	35.9
	1977	239	68525	16348	34	2828	96.3	58	119	6.92	68	575	39.1
	1978	308	67867	20879	28	2735	75.6	78	126	9.8	77	685	53
	1979	298	67203	20017	39	2412	93.7	93	138	12.9	84	629	53.1
	1980	293	66185	19425	36	2694	96.2	72	177	12.8	92	405	37.2
	1981	305	66247	20221	37	2567	93.8	86	186	16.1	119	635	75.6
	1982	340	65851	22403	39	2519	98.1	103	183	19	115	981	113
	1983	371	66284	24581	50	1970	97.9	99	145	14.3	103	613	62.9
	1984	366	66016	24166	64	1990	128	105	136	14.3	115	743	85.8
	1985	367	63698	23388	66	1527	101	76	360	27.3	106	1233	130
	1986	380	64914	24643	65	1291	83.3	85	1108	93.7	104	884	92
	1987	378	63827	24142	57	966	55.5	81	2890	233	109	884	96.8
	1988	367	64406	23666	32	1371	43.9	98	1173	114	103	1227	126
	1989	382	65312	24922	47	1416	67	102	636	64.9	100	1449	145
1990	411	65556	26927	68	1778	120	89	282	25.2	96	1167	112	
Yiyang	1976	220	7262	1595	32	356	11.5	86	62.6	5.37	56	11	0.62
	1977	203	7231	1465	29	358	10.3	73	62.3	4.57	54	8.5	0.46
	1978	265	7256	1927	24	353	8.63	114	60.7	6.94	58	11.9	0.69
	1979	288	7256	2097	33	333	10.9	127	67.2	8.51	51	5.7	0.29
	1980	287	7122	2044	34	355	12.1	101	81.1	8.2	62	2.5	0.16
	1981	320	7080	2264	32	343	10.8	124	8.2	1.02	60	17.2	1.03
	1982	351	5165	1813	40	294	11.8	128	89.5	11.4	207	4.7	0.98
	1983	354	5259	1861	63	201	12.8	135	67.4	9.09	150	5	0.75
	1984	382	5229	1994	75	211	15.8	138	62	8.53	173	4.4	0.76
	1985	385	4898	1883	75	109	8.19	98	165	16.1	149	15.3	2.28
	1986	392	4927	1933	75	55.2	4.12	119	425	50.6	112	12.1	1.35
	1987	379	4351	1650	53	17.2	0.9	123	920	113	97	12.5	1.21
	1988	362	4894	1772	26	83.4	2.16	130	434	56.5	76	14.3	1.09
	1989	382	5143	1966	54	100	5.45	123	239	29.4	90	14.4	1.3
1990	406	5185	2108	86	170	14.7	118	113	13.3	71	9.1	0.65	

Table A6 (Continued)

Reyang	1976	217	6142	1581	43	458	19.8	67	5.1	0.34	66	4.8	0.32
	1977	266	7561	1930	33	458	15.1	56	4.9	0.28	53	3.7	0.2
	1978	236	6186	1718	32	444	14.3	84	5.3	0.45	64	3.6	0.23
	1979	255	6188	1853	42	439	18.1	98	6.1	1.19	69	2.1	0.15
	1980	241	6053	1721	39	545	21.2	106	7	0.74	63	0.2	0.01
	1981	258	6065	1830	33	533	17.2	87	186	16.1	60	3	0.19
	1982	399	6090	2062	45	530	23.6	216	8.4	1.82	138	0.4	0.06
	1983	411	5994	2164	49	464	22.7	115	6.4	0.74	63	0.4	0.03
	1984	443	6061	2318	67	491	32.7	140	8.2	1.15	50	0.1	0.01
	1985	459	5779	2251	70	373	26	64	50.5	3.23	84	0.3	0.03
	1986	482	5873	2379	71	317	22.4	89	172	15.2	40	0.1	0.00
	1987	534	5767	2327	68	229	15.6	88	481	42.3	40	0.05	0.00
	1988	457	5848	2238	31	330	10.2	99	183	18.1	50	0.2	0.01
	1989	467	5932	2407	57	353	20.2	132	78	10.3	68	0.4	0.03
1990	485	5949	2517	83	431	35.7	127	19.9	2.54	30	0.1	0.00	

Zhangde	1976	233	9673	2253	53	1007	53	74	8.9	0.66	51	46.5	2.39
	1977	206	9730	2000	50	1000	49.8	52	9.8	0.51	69	46.7	3.23
	1978	247	9730	2406	33	1058	35.1	49	14.7	0.73	84	55.7	4.68
	1979	268	9801	2632	49	1017	50	66	21	1.39	73	51.3	3.73
	1980	222	9108	2021	38	1371	51.4	54	34.2	1.85	48	17.2	0.83
	1981	288	8889	2562	41	1339	54.9	113	91	10.3	81	56.7	4.6
	1982	314	9195	2886	38	1358	51.5	101	31.6	3.18	94	56.1	5.27
	1983	304	9481	2885	48	1079	52.1	94	24.9	2.34	82	33.1	2.71
	1984	325	9632	3132	63	1070	67.3	107	20.1	2.16	119	60.7	7.25
	1985	334	9290	3103	66	879	58.3	69	69.7	4.79	79	165	13.1
	1986	348	9389	3269	63	801	50.8	61	355	21.7	73	62.1	4.55
	1987	351	8918	3134	55	586	32.1	71	1119	79.4	83	55.5	4.62
	1988	300	9054	2713	32	813	25.7	85	340	28.8	81	77.7	6.28
	1989	346	8832	3052	44	747	32.9	102	166	16.8	97	36.1	3.51
1990	363	8845	3214	64	900	57.7	84	54.5	4.59	48	25.1	1.2	

Changsha	1976	239	6167	1474	25	127	3.17	42	3.3	0.14	42	6.8	0.29
	1977	238	6145	1462	27	132	3.56	33	2.9	0.1	56	8.2	0.46
	1978	300	6108	1832	26	126	3.26	27	3.3	0.09	62	10.3	0.64
	1979	301	6100	1836	30	107	3.21	29	3.4	0.1	98	9.7	0.95
	1980	323	6095	1969	33	61.5	2.03	23	5.1	0.12	99	8.4	0.83
	1981	308	6095	1877	33	59.7	1.97	31	5	0.16	115	29.9	3.44
	1982	357	6095	2177	48	42.7	2.03	39	3.45	0.14	110	24.1	2.64
	1983	407	6123	2492	55	23.3	1.28	46	2.3	0.11	101	30.3	3.06
	1984	391	6065	2371	69	26.4	1.82	57	1.4	0.08	123	27.8	3.42
	1985	397	6015	2388	69	17.5	1.21	55	2.1	0.12	121	35.2	4.26
	1986	407	6038	2457	58	10.9	0.63	51	9.4	0.48	110	36.8	4.05
	1987	409	6032	2467	65	9.8	0.64	65	26.9	1.75	110	32.6	3.59
	1988	406	6042	2453	44	10.5	0.46	62	8.6	0.53	109	33.1	3.61
	1989	412	6075	2503	47	9.2	0.43	64	4.5	0.29	108	23.9	2.58
1990	419	6074	2545	47	8.5	0.4	72	3.1	0.22	118	14.5	1.71	

Table A6 (Continued)

Chengzhou	1976	230	4354	1001	16	44.5	0.71	41	8.5	0.35	64	141	9.01
	1977	248	4443	1102	17	70	1.19	48	7.8	0.37	70	137	9.57
	1978	267	4380	1170	18	37.5	0.68	40	8.2	0.33	77	138	10.6
	1979	281	4258	1196	21	29.3	0.62	41	8	0.33	86	134	11.6
	1980	294	4221	1241	25	15.7	0.39	32	11	0.35	97	103	10
	1981	320	4257	1362	26	9	0.23	44	9	0.4	126	148	18.6
	1982	325	4155	1349	30	7.68	0.23	47	7.98	0.37	113	151	17
	1983	357	4121	1471	36	3.6	0.13	55	6.4	0.35	109	166	18.1
	1984	328	4022	1319	33	2.4	0.08	57	5.5	0.31	118	187	22
	1985	339	3985	1351	35	1.6	0.06	66	6.2	0.41	130	256	33.2
	1986	349	4046	1412	43	1.2	0.05	65	8.2	0.53	124	230	28.5
	1987	356	3993	1421	36	1	0.04	59	16.9	1	126	258	32.5
	1988	368	3916	1441	29	1.3	0.04	59	11.5	0.68	117	339	39.7
	1989	368	3924	1444	23	1.8	0.04	55	6.1	0.34	119	393	46.7
1990	373	3994	1490	32	1.3	0.04	65	3.1	0.2	124	344	42.7	
Hengyang	1976	260	7562	1966	17	189	3.2	40	4.3	0.17	59	61	3.6
	1977	270	7444	2010	24	209	5.03	43	4.2	0.18	58	77.2	4.48
	1978	307	7457	2289	21	188	3.94	38	4.9	0.19	60	83.4	5
	1979	313	7318	2291	23	150	3.45	43	4.2	0.18	66	56.6	3.74
	1980	327	7198	2354	33	101	3.32	42	4.8	0.2	68	26.3	1.79
	1981	319	7322	2336	35	94.2	3.3	45	4.6	0.21	94	46	4.32
	1982	357	7345	2624	47	80.5	3.78	47	4.2	0.2	87	29.1	2.53
	1983	405	7487	3032	59	62.8	3.71	49	3.8	0.19	91	26.6	2.42
	1984	378	7374	2787	61	64.4	3.93	51	3.6	0.18	95	17.4	1.65
	1985	385	7185	2766	65	40	2.6	64	4	0.26	94	16.3	1.53
	1986	379	7343	2783	59	26.2	1.55	75	5.1	0.38	77	10.4	0.8
	1987	374	7271	2719	56	40.2	2.25	38	22	0.84	78	12.2	0.95
	1988	396	7367	2917	49	42.4	2.08	63	9	0.57	67	14.1	0.94
	1989	403	7394	2980	51	32.9	1.68	66	6.6	0.44	70	27.7	1.94
1990	392	7400	2901	54	50.7	2.74	55	4.9	0.27	72	23.3	1.68	
Zichizhou	1976	210	2492	523.3	14	76.2	1.07	21	15.9	0.33	53	34.1	1.81
	1977	250	2347	586.8	13	59.8	0.78	17	17.2	0.29	57	32.1	1.83
	1978	253	2259	571.4	17	47.4	0.81	21	16.8	0.35	70	36.3	2.54
	1979	285	2193	624.8	22	33.5	0.74	27	15.2	0.41	66	34.5	2.28
	1980	232	2215	513.8	23	26.9	0.62	23	21.5	0.49	53	26.7	1.42
	1981	219	2159	472.7	24	22.6	0.54	22	22.9	0.5	100	46.4	4.64
	1982	274	2157	591	26	19.6	0.51	31	21.9	0.67	79	46.8	3.68
	1983	308	2132	656.5	27	16.5	0.45	37	20.9	0.77	74	42.5	3.15
	1984	337	2123	715.4	31	12.3	0.38	41	22.3	0.91	88	71.5	6.29
	1985	328	2051	672.6	33	9.1	0.3	31	43.5	1.35	83	164	13.6
	1986	354	2036	720.7	47	8.3	0.39	30	98.6	2.96	75	103	7.71
	1987	340	2035	691.8	36	6.1	0.22	41	202	8.28	75	103	7.75
	1988	273	1984	541.5	20	6.4	0.13	44	136	5.99	81	154	12.5
	1989	298	2027	603.9	30	6.3	0.19	44	93.6	4.12	69	234	16.1
1990	341	1476	503.2	22	7.9	0.17	43	16	0.69	60	154	9.26	

Table A6 (Continued)

Huihua	1976	222	4833	1073	20	67.5	1.35	22	1	0.02	53	36.4	1.93
	1977	244	4611	1125	20	61.5	1.23	31	0.8	0.02	70	27.1	1.9
	1978	251	4437	1114	19	53.3	1.01	32	0.7	0.02	86	29.9	2.57
	1979	288	4349	1252	26	41	1.07	37	1.5	0.06	85	23.9	2.03
	1980	286	4277	1223	30	39.8	1.19	28	2.9	0.08	104	8.2	0.85
	1981	287	4149	1191	30	37.9	1.14	26	3.8	0.1	135	11.7	1.58
	1982	331	4087	1353	41	37.3	1.54	35	2.77	0.1	121	14	1.69
	1983	375	3960	1485	46	35	1.61	42	2.3	0.1	121	13.4	1.62
	1984	376	3964	1490	59	36.6	2.16	45	2.1	0.09	125	22.6	2.83
	1985	322	3858	1242	52	35.8	1.86	28	5.5	0.15	135	22.3	3.01
	1986	378	3873	1464	56	30.5	1.71	23	15	0.35	109	12.2	1.33
	1987	386	3896	1504	53	29.7	1.57	43	30.8	1.32	87	11.8	1.03
	1988	325	3758	1221	35	26.5	0.93	44	15.3	0.67	92	17.9	1.65
1989	387	3876	1500	51	23.6	1.2	51	5.5	0.28	84	38.2	3.21	
1990	381	3905	1488	42	32.4	1.36	49	3.2	0.16	83	20.3	1.68	
Shaoyang	1976	226	6337	1432	15	178	2.66	37	1.3	0.05	89	67.8	6.03
	1977	244	6255	1526	16	172	2.76	40	1	0.04	78	72.3	5.64
	1978	281	6360	1787	14	153	2.14	52	1.3	0.07	90	88.7	7.98
	1979	302	6231	1882	17	96.9	1.65	50	1.8	0.09	92	85.1	7.83
	1980	317	6113	1938	21	57.7	1.21	60	1.5	0.09	109	45.5	4.96
	1981	320	6148	1967	20	42.3	0.85	47	1.6	0.08	117	65.1	7.62
	1982	348	6047	2104	26	30.9	0.8	49	1.9	0.09	120	60	7.16
	1983	390	5956	2323	28	11.7	0.33	36	2.2	0.08	124	62	7.69
	1984	365	5970	2179	35	11.8	0.41	54	2.3	0.12	128	67.2	8.6
	1985	345	5505	1899	32	12.1	0.39	44	3.5	0.15	117	98.3	11.5
	1986	375	5902	2213	35	10.2	0.36	48	4	0.19	115	45	5.18
	1987	361	5973	2156	36	9.2	0.33	51	11	0.56	97	25.6	2.48
	1988	368	6021	2216	43	9.3	0.4	57	7	0.4	97	36.8	3.57
1989	381	5983	2279	40	11.6	0.46	53	6.3	0.33	98	65.5	6.42	
1990	348	5985	2083	39	10	0.39	44	6	0.26	95	63.3	6.01	
Lingling	1976	222	5759	1278	12	77.8	0.93	44	2	0.09	64	112	7.16
	1977	247	5877	1452	19	138	2.62	48	2.1	0.1	70	123	8.63
	1978	263	5900	1552	18	133	2.39	47	2.9	0.14	80	186	14.9
	1979	280	5788	1621	22	95.8	2.11	42	2.6	0.11	93	192	17.9
	1980	287	5662	1625	23	55.7	1.28	43	3.2	0.14	99	151	14.9
	1981	300	5909	1773	26	49.2	1.28	44	2.7	0.12	124	231	28.6
	1982	322	5850	1881	37	43.7	1.63	51	2.63	0.13	109	215	23.5
	1983	358	5913	2117	45	33.1	1.49	55	2.2	0.12	99	212	21
	1984	341	5916	2017	55	36.7	2.02	60	2.4	0.14	115	267	30.6
	1985	344	5646	1942	37	28.1	1.04	66	2.8	0.18	105	424	44.6
	1986	358	5856	2096	40	15.1	0.6	70	3	0.21	104	345	35.9
	1987	354	5893	2086	51	20.8	1.06	72	19.1	1.38	115	345	39.7
	1988	369	5893	2175	34	31.4	1.07	72	8.2	0.59	106	509	54
1989	338	5864	1982	43	21.3	0.92	69	4.7	0.32	103	545	56.1	
1990	315	5908	1861	29	18.1	0.52	78	3.6	0.28	95	447	42.5	

Source: Hunan Agricultural Bureau

Note: unit = kg/mu, 1000 mu, 1000 ton

Table A7 Government Retailing Prices of Main Food Commodities
in the Provincial Capital ---- Changsha

Unit: yuan per kilogram

Year	Wheat Flour	Rice	Soybean	Rapeseed Oil	Chinese Carbage	Cucumber	Green Chili	Dry Chili	Oranges	Water Melon	Green Tea
1950	0.37	0.184	0.28	0.86	0.060	0.050	0.100	0.551	0.260	0.06	4.4
1951	0.39	0.158	0.28	1.02	0.068	0.069	0.100	0.632	0.260	0.08	4.4
1952	0.38	0.184	0.28	0.85	0.088	0.074	0.250	0.702	0.300	0.10	6.4
1953	0.38	0.198	0.28	0.83	0.122	0.102	0.378	1.114	0.300	0.14	6.4
1954	0.38	0.196	0.28	1.02	0.124	0.118	0.438	1.318	0.400	0.15	6.4
1955	0.38	0.196	0.28	1.06	0.148	0.088	0.252	1.280	0.500	0.20	6.4
1956	0.38	0.196	0.28	1.10	0.132	0.128	0.346	1.200	0.500	0.13	6.4
1957	0.38	0.196	0.28	1.20	0.132	0.120	0.195	1.200	0.500	0.20	6.4
1958	0.38	0.196	0.28	1.26	0.132	0.125	0.325	1.200	0.500	0.18	6.4
1959	0.38	0.196	0.28	1.26	0.145	0.137	0.330	1.200	0.500	0.26	6.4
1960	0.38	0.196	0.28	1.26	0.150	0.256	0.370	1.200	0.880	0.44	6.4
1961	0.38	0.210	0.28	1.52	0.176	0.300	0.654	1.640	0.880	0.44	6.4
1962	0.38	0.210	0.28	1.62	0.191	0.371	0.500	1.760	0.760	0.48	6.1
1963	0.38	0.210	0.28	1.62	0.039	0.110	0.244	1.800	0.690	0.40	6.1
1964	0.38	0.210	0.28	1.64	0.044	0.110	0.178	1.800	0.700	0.11	6.1
1965	0.38	0.232	0.287	1.64	0.100	0.110	0.206	1.620	0.698	0.14	7.2
1966	0.36	0.261	0.309	1.64	0.120	0.120	0.288	1.620	0.698	0.14	7.2
1967	0.34	0.284	0.327	1.64	0.110	0.120	0.304	1.760	0.698	0.14	7.2
1968	0.34	0.284	0.334	1.64	0.100	0.110	0.220	1.760	0.698	0.14	7.2
1969	0.34	0.284	0.334	1.64	0.120	0.110	0.190	1.760	0.698	0.14	7.2
1970	0.34	0.284	0.334	1.64	0.110	0.120	0.298	1.760	0.698	0.14	7.2
1971	0.34	0.284	0.334	1.64	0.100	0.120	0.292	1.830	0.698	0.14	7.2
1972	0.34	0.284	0.334	1.64	0.090	0.110	0.288	2.100	0.698	0.14	7.2
1973	0.34	0.284	0.334	1.64	0.090	0.150	0.295	2.100	0.698	0.14	7.2
1974	0.34	0.284	0.334	1.64	0.090	0.110	0.259	2.100	0.698	0.14	7.2
1975	0.34	0.284	0.340	1.64	0.090	0.150	0.295	2.100	0.698	0.15	7.2
1976	0.34	0.284	0.340	1.64	0.090	0.130	0.334	2.100	0.756	0.16	7.2
1977	0.34	0.284	0.340	1.64	0.100	0.162	0.337	2.100	0.768	0.16	7.2
1978	0.34	0.284	0.340	1.64	0.090	0.140	0.354	2.100	0.784	0.18	7.2
1979	0.34	0.284	0.340	1.64	0.090	0.138	0.382	2.350	0.740	0.29	7.2
1980	0.34	0.284	0.340	1.64	0.091	0.122	0.367	2.600	0.740	0.21	7.3
1981	0.34	0.284	0.340	1.64	0.093	0.168	0.359	2.600	0.740	0.21	7.3
1982	0.40	0.284	0.340	1.64	0.100	0.158	0.362	2.600	1.040	0.24	7.3
1983	0.40	0.302	0.340	1.90	0.100	0.172	0.476	2.820	1.120	0.28	7.0
1984	0.40	0.302	0.340	1.90	0.138	0.162	0.460	2.520	1.140	0.28	6.5
1985	0.40	0.302	0.340	1.90	0.124	0.252	0.900	2.920	1.870	0.29	8.0
1986	0.40	0.302	0.330	2.44	0.119	0.343	1.057	3.761	2.214	0.30	8.1
1987	0.40	0.302	0.340	2.43	0.188	0.368	0.795	4.871	2.394	0.47	8.5
1988	0.46	0.302	0.610	2.30	0.193	0.424	1.437	8.285	2.476	0.70	14.3

Source: Hunan Price Administration Bureau.

Table A7 (continuous)

Year	Pork	Beef	Mutton	Chicken	Eggs	Fish	Sugar	Cigar -rette	Fresh Milk
1950	1.18	0.72	0.72	0.70	0.80	0.30	1.36	0.206	-
1951	1.06	0.72	0.72	0.70	0.61	0.45	1.36	0.23	-
1952	0.85	0.95	1.52	1.74	0.68	0.90	1.40	0.23	0.64
1953	1.12	0.97	1.52	1.18	0.80	0.95	1.26	0.25	0.64
1954	1.22	1.12	1.52	1.29	0.81	1.15	1.27	0.25	0.64
1955	1.25	1.00	1.52	1.51	1.11	1.15	1.39	0.25	0.64
1956	1.28	1.02	1.28	1.40	1.06	1.15	1.40	0.25	0.64
1957	1.43	1.02	1.36	1.32	1.15	1.15	1.40	0.24	0.64
1958	1.44	1.02	1.36	1.41	1.24	0.88	1.40	0.24	0.64
1959	1.44	1.02	1.20	1.49	1.35	0.92	1.40	0.24	0.64
1960	1.44	1.02	1.20	1.60	1.50	1.04	1.40	0.24	0.64
1961	1.50	1.08	1.32	2.40	1.80	1.18	1.40	0.28	0.74
1962	1.60	1.08	1.36	2.64	2.00	1.24	1.40	0.28	0.74
1963	1.60	1.08	1.36	2.06	1.92	1.18	1.41	0.29	0.72
1964	1.60	1.08	1.36	1.70	1.70	1.12	1.68	0.29	0.62
1965	1.60	1.24	1.32	1.70	1.50	0.97	1.64	0.29	0.48
1966	1.60	1.24	1.12	1.70	1.42	0.95	1.48	0.29	0.48
1967	1.60	1.24	1.12	1.70	1.45	1.00	1.48	0.29	0.48
1968	1.60	1.24	1.12	1.73	1.48	1.00	1.48	0.29	0.48
1969	1.60	1.24	1.12	1.76	1.49	1.00	1.48	0.29	0.48
1970	1.60	1.24	1.12	1.76	1.56	1.00	1.48	0.29	0.48
1971	1.60	1.24	1.12	1.76	1.56	1.00	1.48	0.29	0.48
1972	1.60	1.24	1.24	1.76	1.56	1.00	1.48	0.29	0.48
1973	1.60	1.24	1.24	1.76	1.63	1.00	1.48	0.29	0.48
1974	1.60	1.27	1.24	1.76	1.64	1.00	1.48	0.29	0.48
1975	1.60	1.38	1.24	1.76	1.64	1.00	1.48	0.28	0.48
1976	1.60	1.38	1.24	1.76	1.64	1.00	1.48	0.28	0.48
1977	1.60	1.38	1.24	1.76	1.64	1.00	1.48	0.28	0.48
1978	1.60	1.38	1.24	1.76	1.64	1.00	1.48	0.28	0.48
1979	1.68	1.47	1.30	1.87	1.75	1.00	1.48	0.28	0.60
1980	2.10	1.90	1.60	2.40	1.95	1.00	1.48	0.28	0.60
1981	2.10	1.90	1.60	2.40	2.13	1.00	1.48	0.29	0.60
1982	2.10	1.90	1.60	2.40	2.18	1.68	1.48	0.33	0.60
1983	2.20	1.90	1.60	2.40	2.18	1.68	1.48	0.38	0.60
1984	2.30	1.90	2.50	3.00	2.12	1.42	1.48	0.38	0.60
1985	2.30	1.90	2.83	3.22	2.18	2.59	1.48	0.38	0.60
1986	2.77	3.46	3.47	3.63	2.93	3.11	1.48	0.38	0.80
1987	2.97	3.91	3.70	4.21	3.54	3.20	1.48	0.38	0.80
1988	4.36	4.95	5.18	5.10	4.40	4.25	1.93	0.53	1.00

Copyright by Chulalongkornrajavidyalaya University
All rights reserved

Table A8-(1) Result of OLS Estimation of the Rice Model

MODEL COMMAND: CRMO;LHS=A1;RHS=ONE,LA1,P1T-1,P2T-1,D2,D3,D4,D5,D6,D7,D8,D9;
AR1\$

Ordinary Least Squares Estimates

Dependent Variable..... A1
 Number of Observations..... 84.
 Mean of Dependent Variable.. 6.38307
 Std. Dev. of Dep. Variable.. .23674
 Std. Error of Regression.... .04089
 Sum of Squared Residuals.... .12036
 R - Squared..... .97413
 Adjusted R - Squared..... .97017
 F-Statistic (11, 72)..... 246.43383
 Significance of F-Test..... .00000
 Log-Likelihood..... 155.35
 Restricted (Slopes=0) Log-L. 2.3351
 Chi-Squared (11)..... 306.04
 Significance Level..... .32173E-13
 Durbin - Watson Statistic..... 2.1734
 Estimated Autocorrelation (Rho).... -.86712E-01
 h-Test Value of Autocorrelation..... -1.05

Variable	Coefficient	Std. Error	T-ratio (Sig.Lvl)	Mean of X	Std.Dev.of X
ONE	1.94813	.4738	4.112 (.00010)	1.0000	.00000
LA1	.678708	.7127E-01	9.522 (.00000)	6.3910	.23731
P1T-1	.831301E-01	.5968E-01	1.393 (.16795)	3.3615	.28354
P2T-1	-.253304E-01	.4306E-01	-.588 (.55821)	5.8026	.26389
D2	-.321003E-01	.2326E-01	-1.380 (.17175)	.50000	.50300
D3	-.237737E-01	.1421E-01	-1.673 (.09860)	.75000	.43561
D4	-.403609E-01	.1691E-01	-2.387 (.01963)	.14286	.35203
D5	.448401E-02	.1678E-01	.267 (.79009)	.14286	.35203
D6	.140434	.3693E-01	3.803 (.00030)	.14286	.35203
D7	.120764E-01	.1693E-01	.713 (.47785)	.14286	.35203
D8	-.129543	.3119E-01	-4.153 (.00009)	.14286	.35203
D9	.423321E-02	.1682E-01	.252 (.80203)	.14286	.35203
SE (VIB)	.408861E-01	.3154E-02	12.961 (.00000)		

Note: LA1 = One year lagged rice planted area (mu)
 P1T-1 = One year lagged rice price (yuan/100 kg)
 P2T-1 = One year lagged cotton price (yuan/100 kg)
 D2 = Dummy variable for 1985 market reform
 D3 = Dummy variable for 1982 rural reform
 D4, D5, ..., D9 = Regional dummy variables

Table A8-(2) Result of OLS Estimation of the Cotton Model

MODEL COMMAND: CRMO;LMS=A2;RHS=ONE,LA2,P1T-1,P2T-1,P3T-1,RKY2,D2,D3,D4,D5,D6,D7,D8,D9;AR1*

Ordinary Least Squares Estimates

Dependent Variable.....	A2
Number of Observations.....	84.
Mean of Dependent Variable..	2.22515
Std. Dev. of Dep. Variable..	1.46166
Std. Error of Regression....	.25936
Sum of Squared Residuals....	4.7089
R - Squared.....	.97344
Adjusted R - Squared.....	.96851
F-Statistic (13, 70).....	197.38599
Significance of F-Test.....	.00000
Log-Likelihood.....	1.1689
Restricted (Slopes=0) Log-L.	-150.57
Chi-Squared (13).....	303.49
Significance Level.....	.32173E-13
Durbin - Watson Statistic.....	1.8811
Estimated Autocorrelation (Rho).....	.59444E-01
h-Test Value of Autocorrelation.....	0.72698

Variable	Coefficient	Std. Error	T-ratio (Sig.Lvl)	Mean of X	Std.Dev.of X
ONE	-.832132	2.355	-.353 (.72491)	1.0000	.00000
LA2	.447604	.7231E-01	6.190 (.00000)	2.2713	1.4654
P1T-1	-.361812	.4667	-1.775 (.44077)	3.3615	.28354
P2T-1	.594547	.4804	1.238 (.22001)	5.8026	.26389
P3T-1	-.448971E-01	.1553	-.289 (.77340)	5.8450	.59538
RKY2	.740648E-01	.4101E-01	1.806 (.07520)	1.4195	.87727
D2	-.129311	.1658	-.780 (.43794)	.50000	.50300
D3	-.367768	.1117	-3.291 (.00156)	.75000	.43561
D4	.533046	.1234	4.321 (.00005)	.14286	.35203
D5	1.12331	.1708	6.577 (.00000)	.14286	.35203
D6	1.59323	.2237	7.121 (.00000)	.14286	.35203
D7	-.205271	.1188	-1.727 (.08851)	.14286	.35203
D8	-.624460	.1372	-4.551 (.00002)	.14286	.35203
D9	-.286814	.1164	-2.465 (.01618)	.14286	.35203
Sigma	.259365	.2001E-01	12.961 (.00000)		

Note: LA2 = One year lagged cotton planted area (mu)
 P1T-1 = One year lagged rice price (yuan/100 kg)
 P2T-1 = One year lagged cotton price (yuan/100 kg)
 P3T-1 = One year lagged ramie price (yuan/100 kg)
 RKY2 = Yield risk variable of cotton
 D2 = Dummy variable for 1985 market reform
 D3 = Dummy variable for 1982 rural reform
 D4, D5, ..., D9 = Regional dummy variables

Table A8-(3) Result of OLS Estimation of the Ramie Model

MODEL COMMAND: CRMO;LHS=A3;RHS=ONE,LA3,P1T-1,P2T-1,P3T-1,RKP3,RKY3,D2,D3,D4,D5,D6,D7,D8,D9;AR1#

Ordinary Least Squares Estimates

Dependent Variable..... A3
 Number of Observations..... 84.
 Mean of Dependent Variable.. .77192
 Std. Dev. of Dep. Variable.. 1.61957
 Std. Error of Regression.... .36885
 Sum of Squared Residuals.... 9.3873
 R - Squared..... .95688
 Adjusted R - Squared..... .94813
 F-Statistic (14, 69)..... 109.37473
 Significance of F-Test..... .00000
 Log-Likelihood..... -27.911
 Restricted (Slopes=0) Log-L. -159.19
 Chi-Squared (14)..... 262.56
 Significance Level..... .32173E-13
 Durbin - Watson Statistic..... 1.7576
 Estimated Autocorrelation (Rho)..... .12118
 h-Test Value of Autocorrelation..... 1.3383

Variable	Coefficient	Std. Error	T-ratio (Sig.Lvl)	Mean of X	Std.Dev.of X
ONE	.434274	3.791	.115 (.90914)	1.0000	.00000
LA3	.652523	.6088E-01	10.718 (.00000)	.72313	1.6033
P1T-1	.399612E-01	.6780	.059 (.95317)	3.3615	.28354
P2T-1	-.750778	.7615	-.986 (.32764)	5.8026	.26389
P3T-1	.733442	.2407	3.048 (.00327)	5.8450	.59538
RKP3	.644554E-01	.5672E-01	1.136 (.25971)	3.7219	2.0281
RKY3	-.107453	.8262E-01	-1.301 (.19772)	1.8637	.86482
D2	-.316685	.3116	-1.016 (.31297)	.50000	.50300
D3	.157063	.2364	.664 (.50865)	.75000	.43561
D4	.519580	.2058	2.525 (.01387)	.14286	.35203
D5	.391915E-01	.2309	.170 (.86570)	.14286	.35203
D6	.339947	.2002	1.698 (.09394)	.14286	.35203
D7	-.881235	.2134	-4.129 (.00010)	.14286	.35203
D8	-.664293	.1897	-3.502 (.00081)	.14286	.35203
D9	-.739694	.2014	-3.672 (.00047)	.14286	.35203
Sigma	.368846	.2846E-01	12.961 (.00000)		

Note: LA3 = One year lagged Ramie planted area (mu)
 P1T-1 = One year lagged rice price (yuan/100 kg)
 P2T-1 = One year lagged cotton price (yuan/100 kg)
 P3T-1 = One year lagged ramie price (yuan/100 kg)
 RKP3 = Price risk variable of ramie
 RKY3 = Yield risk variable of ramie
 D2 = Dummy variable for 1985 market reform
 D3 = Dummy variable for 1982 rural reform
 D4, D5, ..., D9 = Regional dummy variables

Table A8-(4) Result of OLS Estimation of the Tobacco Model

MODEL COMMAND: CRMD;LHS=A4;RHS=ONE,LA4,P1T-1,P4T-1,RKP4,RKY4,D2,D3,D4,D5,D6,D7,D8,D9;ARI*

Ordinary Least Squares Estimates

Dependent Variable..... A4
 Number of Observations..... 84.
 Mean of Dependent Variable.. 1.87803
 Std. Dev. of Dep. Variable.. 1.10166
 Std. Error of Regression,.. .34532
 Sum of Squared Residuals.... 8.3471
 R - Squared..... .91714
 Adjusted R - Squared..... .90175
 F-Statistic (13, 70)..... 59.59746
 Significance of F-Test..... .00000
 Log-Likelihood..... -22.874
 Restricted (Slopes=0) Log-L. -126.82
 Chi-Squared (13)..... 207.90
 Significance Level..... .32173E-13
 Durbin - Watson Statistic..... 1.9340
 Estimated Autocorrelation (Rho)..... .32975E-01
 h-Test Value of Autocorrelation..... 0.6268

Variable	Coefficient	Std. Error	T-ratio (Sig.Lvl)	Mean of X	Std.Dev.of X
ONE	-1.08454	1.584	-.685 (.49577)	1.0000	1.00000
LA4	.455786	.9559E-01	4.768 (.00001)	1.8535	1.0703
P1T-1	-.428588	.3661	-1.171 (.24566)	3.3615	.28354
P4T-1	.701690	.1629	4.307 (.00005)	5.2455	.39201
RKP4	-.907452E-02	.3835E-01	-.237 (.81362)	1.5507	1.7945
RKY4	.515974E-02	.4943E-01	.104 (.91716)	2.0763	.91144
D2	.197346	.1801	1.096 (.27695)	.50000	.50300
D3	-.102871	.1399	-.735 (.46475)	.75000	.43561
D4	-.340117	.1458	-2.333 (.02252)	.14286	.35203
D5	-.702334	.1786	-3.933 (.00019)	.14286	.35203
D6	-.921453	.1967	-4.684 (.00001)	.14286	.35203
D7	-.240834	.1424	-1.692 (.09517)	.14286	.35203
D8	.706624	.1933	3.656 (.00049)	.14286	.35203
D9	.515532	.1738	2.967 (.00412)	.14286	.35203
Sigma	.345317	.2664E-01	12.961 (.00000)		

Note: LA4 = One year lagged Tobacco planted area (mu)
 P1T-1 = One year lagged rice price (yuan/100 kg)
 P4T-1 = One year lagged Tobacco price (yuan/100 kg)
 RKP4 = Price risk variable of tobacco
 RKY4 = Yield risk variable of tobacco
 D2 = Dummy variable for 1985 market reform
 D3 = Dummy variable for 1982 rural reform
 D4, D5, ..., D9 = Regional dummy variables

CURRICULUM VITAE

Name: Shengting Fu (Mr.)
 Date: July 8, 1963
 Place: Liuyang, Hunan, China

EDUCATIONAL BACKGROUND:

1980 - 1984 B.Sc. in Geosciences Geology
 Zhongshang University
 Guangzhou, Guangdong
 P.R. China

1991 - 1993 M. Sc. in Agricultural Systems Socioeconomics
 Faculty of Agriculture & Development
 Chiang Mai University
 Thailand

SCHOLARSHIPS:

1991 - 1993 The Kachorn Tingthanathikul Foundation
 The Ford Foundation

WORK EXPERIENCES:

1984 - Present Member of Research Staff
 Institute of Agroecology and Agricultural Zoning
 Hunan Academy of Agricultural Sciences,
 Changsha, Hunan, P.R.China

OFFICE ADDRESS:

Office Hunan Academy of Agricultural Sciences,
 Mapoling, Changsha, Hunan 410125
 The People's Republic of China

Telephone (0731) 448780-280
 Fax (0731) 448877
 Telex (0731) 0549