

Table 1: Seasonality of Paddy to 1993-4

	Per cent total paddy area cultivated		
Season	Samba	Navarai	Sornavari
1972-73	47	38	15
1973-74	56	20	24
1993-94	40	36	24

Source: Chinnappa, 1977, p. 99. Field Survey, 1993-4.

Table 2: Paddy Yields kg/ha 1973-74 to 1993-4 by season

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Season	Samba	Navarai	Sornavari	Av
1973-74				
HYVS	3347	3729	4089	3555
Others	2292	2597	2877	2459
Total	2525	2939	2931	2676
1993-94	3388	4326	3953	3881

Source: Chinnappa, 1977, p. 103. Field Survey, 1993-4.

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Table 3: Paddy and Groundnut Yields kg/ha 1973-74 to 1993-94 by holding size

	1973-74	1981-82	1982-83	1983-84 (5 (poorest) resurvey villages)	1993-94 3 villages
Paddy					
<1ha	2123		3043	2777	3622
		3409			
>1ha	2845		3045	2176	4283
Groundnut					
<1ha	1280		897	1760	727

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		1000			
>1ha	1495		969	1309	964

Source: Hazell and Rasmasamy, 1991, p. 32. Field Survey, 1993-4.

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Table 4: Electricity Consumption Per Electric Well in Tamil Nadu

Year	Total Energy Consumed for Ag Purposes (mn units)	No. of Electric Pumpsets	Energy Consumed per Electric Well (units)
1980-81	2299	919162(100)	2501(100)
1981-82	2354	945520(103)	2490(100)
1982-83	2230	965017(105)	2311(92)
1983-84	2200	982606(107)	2239(90)
1984-85	2415	982606(107)	2458(98)
1985-86	2840	1033533(112)	2748(110)
1986-87	3114	1074184(117)	2899(116)

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1987-88	3135	1116177(121)	2810(112)
1988-89	3524	1184450(129)	2975(119)
1989-90	3740	1235941(134)	3026(121)
1992-93	5635	1445951(157)	3897(156)

Note: Index nos. are bracketed. 1980-81 = 100.

Source: Tamil Nadu Electricity Board, *Tamilnadu Electricity Board Statistics at a Glance*, various years.

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Table 11: HYVS OF Rice and Groundnuts Recommended for Northern Tamil Nadu

HYVS of Rice										
Season										
Sornavari	IR64	IET1441	TK M9	ADT36	IR50	CO37	ADT37	ASD16	ASD17	ASD18
Samba	Ponuma ni	ADT40	Bhav ani	IR20	White Ponni	CO43	CO44	Paijur1	PY4	CR1009
Navarai	ADT36	IR20	CO3 7	ADT39	CO43	IR64	ASD16	ASD18		

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HYVS of Groundnut										
Rainfed										
Adi (early June-July)	TMV2	TMV7	TM V12	TMV10	VR13					
Irrigated										
Summer (April-July)	TMV2	TMV7	CO1	CO2	JL24	TMV12	VR2	VR11	V13	

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Winter (December-January)	TMV2	TMV7	CO1	CO2	JL24	VR11	VR12	VR13		
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Table 12: Weighted¹ mean paddy yields (kg/ha), 1993-4, by villages, seasons and generations of HYVs

	Total no. landed hh	av. size (ha)	Nesal	Vinayagapuram	Veerasambanur	Total
<u>Farm size</u>						
< 1 ha	286	0.45	4061	3271	3837	3622
(valid n)			(22)	(33)	(10)	(64)
> 1 ha	110	2.03	4824	4190	3991	4283

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(valid n)				(9)	(25)	(8)	(41)
Total		396	0.7	4278	3665	3907	3881
(valid n)				(30)	(58)	(18)	(106)
<u>Season</u>							
samba 93				4441	3111	3023	3388
navarai 94				4572	4027	5074	4326
sornavari				3937	3879	4252	3953

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94							
<u>Generation</u> <u>of Hyvs</u>							
Newer							3611
Older							4689
Other							3621

Note: ¹For details of weighting, see Appendix 1.

Source: Field Survey, 1993-4.

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Table 13: Cropping patterns by farm size group (ha)

	Small farms				Large farms			
	1973/4	1982/3	1983/4	1993/4	1973/4	1982/3	1983/4	1993/4
<i>All villages</i>								
Paddy	0.53	0.35	n.a.	n.a.	1.41	0.89	n.a.	n.a.
Groundnuts	0.3	0.33	n.a.	n.a.	1.19	1.21	n.a.	n.a.
Sorghum/ millets	0.05	0.06	n.a.	n.a.	0.1	0.34	n.a.	n.a.
Other crops	0.05	0.09	n.a.	n.a.	0.05	0.54	n.a.	n.a.
Total	0.93	0.83	n.a.	n.a.	2.74	2.99	n.a.	n.a.
Operated	0.59	0.61	n.a.	n.a.	2.42	2.68	n.a.	n.a.

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farm size									
Crop intensity index	1.57	1.36	n.a.	n.a.		1.13	1.11	n.a.	n.a.
<i>Resurvey villages</i>				<i>3 villages</i>					<i>3 villages</i>
Paddy	0.55	0.31	0.64	0.36		0.75	0.79	2.11	0.61
Groundnuts	0.48	0.28	0.15	0.38		1.08	1.1	0.86	1.15
Sorghum/ millets	0.01	0.14	0.08	0.13		0.24	0.45	0.01	0.38
Other crops	0.03	0.06	0.02	0.72			0.33	0.2	1.59

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Total	1.07	0.8	0.89	1.59		2.08	2.68	3.18	3.7
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Source: Hazell & Ramasamy, 1991, p.34; Survey data, 1993-4.

Note: in the 3 *villages* survey, 'other crops' refers to sugarcane for small farms; for large farms, 'other' is composed of sugarcane (0.81) and banana (0.78).

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Table 14: Land Use, Three Villages, 1993-94

(Per cent total cropped area (SAS) by class)

	Paddy	Groundnut	Sugarcane	Sorghum/Ragi Other ¹	Banana	Total Standard Acres ²
Veerasambanur						
Poor peasant	35	18	42	4	-	11.1
Elite households	48	10	37	5	-	13.5
Vinayagapuram						
Poor peasant	60	36	-	4	-	36
Elite households	74	22	-	4	-	27

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Nesal						
Poor peasant	48	35	8	7	-	12
Elite households	45	27	13	-	14	88.7

Note: ¹ 'Other' in Vinayagapuram includes green gram, red gram, casuarina, and chilli.

² On Weights for standard acres see notes to table 5, chapter 2-4.

Source: Field Survey.

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Table 15: Average cropped area, yield and production of paddy and groundnuts by farm size group

		Area (ha)					Yield (kg/ha)				Production (kg)			
		1973-4	1982-3	1983-4	1993-4	(plot size)	1973-4	1982-3	1983-4	1993-4	1973-4	1982-3	1983-4	1993-4
Paddy														
Small farm		0.53	0.35	0.64	0.32		2123	3043	2777	3622	1125	1065	1777	1159
	obs				55									
Large farm		1.41	0.89	2.11	0.58		2854	3045	2176	4883	4024	2710	4592	2832

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	obs				51									
ALL					0.44					3881				1708
	obs				106									
Groundnuts														
Small farm		0.3	0.33	0.15	0.34	1280	897	1760		736	384	296	264	248
	obs													32
Large farm		1.19	1.21	0.86	1	1495	969	1309		988	1779	1172	1126	981
	obs													28

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ALL					0.61										551
	obs														60

Source: Hazell and Ramasamy, 1991, p.32; Survey data 1993-4.

Table 16: Costs and returns from HYV paddy (1973-4															
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prices)													
		1972/3	1973/4	1974/5	1975/6	1976/7	1977/8	1978/9	1979/80	1980/1	1981/2	1982/3	1993/4
Yield (kg/ha)		2588	2747	3637	3239	3746	3022	2772	2835	3234	3249	3035	3978
Price (Rs/kg)		1.02	0.94	1.21	1.02	1.02	1.02	1.06	0.99	1.07	0.9	1.04	3.6
Value output (Rs/ha)		2647	2581	4389	3292	3805	3101	2941	2805	3453	2908	3168	14260
Variable costs		1179	817	845	1067	1986	1175	1240	969	1114	1246	1068	7781

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(Rs/ha)													
Seed		113	90	103	126	203	118	133	114	89	138	139	747
Manure		73	66	38	88	153	116	104	90	85	50	31	490
Fertilisers		242	184	219	340	600	284	325	199	347	463	384	1742
Pesticides		14	12	15	29	55	22	24	15	23	33	7	894
Hired labour		483	401	409	417	578	486	447	451	506	399	460	3763
Hired bullocks		52	25	37	40	43	41	34	36	25	10	30	
Hired		182	15	8	9	318	85	157	50	19	149	14	

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machines													
Other		20	24	16	18	36	23	16	14	20	4	3	582
Gross margin (Rs/ha)		1468	1764	3544	2225	1819	1926	1701	1836	2339	1662	2100	
Source: 1972-83, Cost of cultivation of principal													

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crops data, TNAU; 1993-4, Field Survey.													
Note: Costs and returns based on planted area, and													

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averaged over seasons.														
B: Real 1993-4 variable costs = Rs1945 approx in 1973-4 prices.														

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Table 17: Paddy Groundnuts: Labour Inputs and Costs per ha, 1993-4

	Family			Labour days / ha			Casual			Permanent			Exchange			ALL			Casual			Labour costs (Rs/ha)			All labour (not Family)			Other costs			Casual labour costs		
	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All			
Paddy	137	90	228	68	150	218	6	3	454	1600	1694	3296	3701	412	24	11.5																	
by village																															2.2		
Nesal	17	7	24	70	155	225	6	0	255	1879	2043	3922	4627	484	26.5	13.3																	
Vinay	182	144	326	63	126	189	8	0	524	1438	1464	2903	3270	343	23.7	11.6															2		
Veera	188	52	240	79	221	302	0	15	557	1665	1860	3534	3563	515	21.6	8.6															2.2		
by farm size																															2.6		

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small farms	123	269	74	136	136	210	2	3	483	1735	1607	3345	3562	400	23.6	11.9	
large farms	50	177	61	167	167	228	11	3	419	1442	1795	3238	3865	425	24.5	11.1	2.1
by land type																	2.3
nanjai	125	67	192	75	176	252	9	6	459	1485	1506	2997	3317	364	23.8	10.9	
pww	127	100	226	61	127	188	4	0	418	1623	1710	3332	3753	416	24.1	11.7	2.4
rained	583	350	933	55	90	145	0	0	1078	1696	1867	3562	4038	455	24.2	12	2.1
by variety																	2.1
newer HYV	191	116	907	70	146	217	4	2	530								
older HYV	49	45	93	72	160	231	14	6	345								
Groundnut	29	34	65	22	59	81	3	1	150	650	745	1396	1403	182	25.1	10.69	
by village																	2.6
Nesal	5	4	9	35	101	136	6	0	151	1118	1540	2659	2694	297	32.6	15.3	
Vinay	38	46	86	14	37	51	3	1	141	481	454	935	935	2	24.1	9	2.2
Veera	25	29	61	31	82	115	0	0	177	480	938	1422	1430	616	19.1	8.9	3

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by farm size																		2.2
small farms	37	46	86	22	51	73	0	0	159	586	665	1254	1258	215	23.7	10.6		
large farms	17	17	34	21	71	93	8	1	137	407	457	864	866	4	22.3	8.4	2.4	
by land type										1181	1386	2567	2593	319	31.5	13.5	2.8	
nanjai	33	38	71	21	61	82	13	3	170								2.7	
pww	15	16	31	25	74	100	1	0	132									
rainfed	39	49	92	19	45	65	2	0	158									
by variety																		
newer HYV	1	0	1	17	144	161	28	0	189									
local/traditional	30	36	67	22	55	78	2	1	148									

Source: Field Survey, 1993-4

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Table 18: Average Agro-chemicals Inputs and Costs per ha, 1993-4

				Inputs																
			Rs/ha		kg/ha		Manure (kg/ha)				Fertiliser (kg/ha)				ratio all			ratio chemic al		
		Manure	Fertiliser	Pesticide	Manure	Fertiliser	N	P	K	PK	N	P	K	PK	N	P	K	N	P	K
Paddy		490	1748	394	5317	369	53.2	31.9	63.8	148.9	79.8	56.8	51.2	187.8	1.2	0.8	1	1.6	1.1	1
by village																				
Nesal		256	2041	413	4679	435	46.8	28.1	56.1	131	88.9	65.6	61	215.6	1.2	0.8	1	1.5	1.1	1
		626	1430	390	6373	307	63.7	38.2	76.5	178.4	66.5	47.9	44.7	159	1.1	0.7	1	1.5	1.1	1

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Vinay																							
		453	2273	372	2989	457	29.9	17.9	35.9	83.7		107.5	70.3	55.5	233.3		1.5	1	1		1.9	1.3	1
Veera																							
by																							
farm																							
size																							
small		434	1755	375	5282	366	52.8	31.7	63.4	147.9		79.3	62.3	46.8	188.3		1.2	0.9	1		1.7	1.3	1
large		557	1740	418	5359	373	53.6	32.2	64.3	150.1		80.5	50.2	56.5	187.2		1.1	0.7	1		1.4	0.9	1
by																							
season																							
Samba		378	1663	395	4690	353	46.9	28.1	56.3	131.3		77	52.7	46.2	175.9		1.2	0.8	1		1.7	1.1	1
		548	1844	388	5452	380	54.5	32.7	65.4	152.7		87.2	52.9	48.6	188.7		1.2	0.8	1		1.8	1.1	1

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Navarai																					
Somavari	544	1739	399	5815	375	58.1	34.9	69.8	162.8		75.3	64.8	58.9	199	1	0.8	1		1.3	1.1	1
by land type																					
nanjai	540	2027	418	5524	430	55.2	33.1	66.3	154.7		94.4	65.5	58	217.9	1.2	0.8	1		1.6	1.1	1
pww	420	1510	374	4992	318	49.9	30	59.9	139.8		67	49.4	45.9	162.3	1.1	0.8	1		1.5	1.1	1
rainfed	833	685	312	7500	128	75	45	90	210		31.3	22.5	15.7	69.5	1	0.6	1		2	1.4	1
by variety																					

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newer HYV		501	1762	383	5402	358	54	32.4	64.8	151.2		78.3	56.4	47.7	182.4		1.2	0.8	1		1.6	1.2	1
older HYV		542	1849	464	5832	415	58.3	35	70	163.3		86.9	58.8	59.1	204.8		1.1	0.7	1		1.5	1	1
Groun dnut		333	253	52																			
by village																							
Nesal		176	400	203																			
		314	115	11																			

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Vinay																				
		564	517	14																
Veera																				
by																				
farm																				
size																				
small		275	90	30																
large		416	489	84																
by																				
season																				
Samba		416	285	52																
		241	307	6																

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Navarai																					
Somavari	190	77	87																		
by land type																					
nanjai	475	262	104																		
pww	109	489	79																		
rainfed	477	36	7																		
by variety																					

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newer HYV		452	1239	502																	
older HYV		328	211	33																	

Source: Field Survey, 1993-4

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Table 19: Paddy Production, Costs and Marketed Surplus

Paddy		Yield	Price	Value output			Variable costs (Rs/ha)					Profitability index		Quantity sold		Market surplus
		kg/ha	Rs/kg	Rs/ha	Hired labour	Seed	Manure	Fertiliser	Pesticides	Other	Total	average	weighted	kg/ha	Rs/ha	share of production
All		3978	3.6	14260	3763	747	503	1784	401	582	7781	1.83	1.92	1901	6798	0.44
by village																
Nesal		4239	3.5	14803	4584	620	261	2088	411	521	8485	1.74	1.76	2265	7902	0.48
Vinay		3806	3.7	13878	3270	779	626	1430	390	574	7069	1.96	2.02	1566	5727	0.39

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Veera		4098	3.6	14582	3613	823	449	2341	372	631	8229		1.77	1.88	2292	8137		0.56
by farm size (H-R)																		
small farms		3761	3.6	13284	3652	764	455	1816	387	651	7724		1.72	1.77	1676	5812		0.39
large farms		4228	3.6	15379	3891	728	558	1748	418	504	7847		1.96	2.09	2142	7853		0.51
by season																		
Samba		3386	3.4	12269	3276	760	369	1669	390	426	6890		1.78	1.86	1974	6700		0.52

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Navarai		4325	3.7	15659	3753	746	569	1872	390	422	7752		2.02	2.1	2137	7777		0.47
Somavari		3875	3.7	14483	4038	719	544	1739	399	843	8282		1.75	1.8	1622	6000		0.35
by variety																		
newer variety		3602	3.4	12566	3525	795	514	1794	387	590	7605		1.65	1.77	1555	5178		0.38
older variety		4627	3.9	17713	4603	644	570	4885	470	624	8796		2.01	2.05	2606	9941		0.54
by land type																		
		4296	3.6	15586	4248	778	555	2066	420	543	8610		1.81	1.88	2249	8117		0.5

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Nanjai																	
		3434	3.6	12996	3329	692	431	1546	386	641	7025	1.85	1.95	1555	5481	0.39	
Punjai																	
by																	
cluster																	
poor		3510	3.6	12611	3317	783	541	1685	336	782	7443	1.69	1.77	1194	4110	0.35	
		3865	3.7	14063	3495	707	478	1774	345	452	7252	1.94	2.02	2058	7551	0.48	
middle																	
elite		4728	3.5	16526	4775	779	505	1917	581	591	9148	1.81	1.9	2370	8288	0.48	
by																	
land size																	
		3104	3.6	10910	3940	729	238	2089	273	276	7546	1.45	1.42	493	1766	0.16	
landless																	
		3790	3.4	12848	3539	805	527	1636	376	475	7357	1.75	1.9	1608	5401	0.4	
marginal																	

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small		3864	3.6	13889	3589	756	448	1912	368	751	7824		1.78	1.79	1909	6706		0.44
medium		4171	3.7	15253	3656	778	560	1537	448	508	7487		2.04	2.08	2010	7446		0.48
large		4463	3.6	16263	4724	586	607	2039	476	518	8950		1.82	2.14	2563	9379		0.55

Source: Field Survey, 1993-4.

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Table 20: Adult Employment per Paddy Farm in crop Production by Type of labour (days)

		1973/7		1982/3		1983/4		1993/4	
		Small farms	Large farms						
Family Labour		129.7	207	64.1	115	147.8	303	112.5	143.4
Male		34.3	148.5	52.2	96.7	104.8	191.9	65.1	90.3
Female		95.4	58.5	64.1	18.3	43	111.1	47.4	52.8
Casual Labour		138.1	360.2	76.2	287.5	77.3	244.3	190.2	357.9
Male		39.2	125.5	19.2	72.5	28.7	100.6	63.9	93.9

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Female		98.9	234.7	57	215	48.6	143.7	126.3	264
Attached Labour		6	46.6	3	31.5	22	83.6	1.8	30
Male		5.6			31.1	21.7	68.3	1.8	30
Female		0.4	46.6	3	0.4	0.3	15.3		
Exchange Labour		21.3	50.1	0.5	3.8	0.5	17	1.5	3.6
Male		3.9	12.8	0.1	0.6	0.2	13.7	0.3	0.6
Female		17.4	37.3	0.4	3.2	0.3	3.3	1.2	3

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Total Labour		295.1	663.9	143.8	437.8	225.6	647.9	306	535.8
Male		144.1	333.4	74.5	200.9	133.7	374.5	131.4	214.5
Female		151	330.5	69.3	236.9	91.9	273.4	174.9	319.8
Total Labour/ha		557	471	411	492	353	307	483	419
(for operated ha gross cropped		500	274	234	163	410	269		

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area)									
		317	242	173	146	253	204		
Total		261	255	218	323	121	116	210	228
Casual Labour /									
operated		234	149	125	107	141	101		
ha gross cropped area									
		148	131	92	96	87	77		

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Source: Hazell and Ramasamy, 1991, p. 38; Survey data 1993-4.

Note: Small farms are cultivators holding (operating) less than 1 hectare of land. The labour/ha ratios for the years 1973-4, 1982-3 and 1983-4 have been calculated considering the average plot size per caddy cultivation reported in Hazell et al. (table 3.2, p. 34).

Table 21: Real Casual Wage Rates by Gender and Village² 1973-93.

		1973-4	1983-4	1993-4	Index (1973-4=100)
Women's wages					
Transplanting (Rs) ¹	N	1.3	1.6	2	153
	Vi	0.7	1.4	2.3	329
	Ve	1.3	1.4	1.8	128
Harvesting (kgs)	N	4.3	5	5	116

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	Vi	3	4	6.4	213
	Ve	4.3	4.3	6.4	149
Men's Wages					
Ploughing with bullocks (Rs)	N	1.5	3.3	6.3	420
	Vi	0.7	1.4	2.3	329
	Ve	0.8	2.8	5	625
Threshing (kgs)	N	8.5	10	10	118
	Vi	3	4	12	400
	Ve	8.5	8.5	12	141

Source: Field Survey, 1993-4

¹ Small farms are cultivators holding (operating) less than 1 hectare of land. The labour/ha ratios for the years 1973-4, 1982-3 and 1983-4 have been calculated considering

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the average plot size per caddy cultivation reported in Hazell et al. (table 3.2, p. 34).

² N: Nesal, Vi: Vinayagapuram, Ve: Veerasambanur

Table 22:						
Income, expenditure and poverty, 1993-4						
	n	(a)	(b)	(c)	(d)	(e)
Village						
Nesal	55	34	27	47	9	100

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Vinayapuram	35	29	29	60	17	100
Veerasambanur	25	36	20	100	16	100
n: number of sampled households						
(a): households below poverty line (%)						
(b): households where expenditure						

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exceeds income (%)						
(c): proportion of (b) below poverty line (%)						
(d): households where food expenditure exceeds income (%)						
(e): proportion of (d) below poverty						

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line (%)						
Source: field survey 1993-4.						
Note: the poverty line is calculated at Rs195 per person per month in 1993-4 prices: Rs819 per average household.						

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Table 23: Wage-Price Relations for Agricultural Labour in the Three Villages, 1973-4 to 1993-4.

A. Current Rs				
	1973-4	1982-3	1993-4	
Wages				
(a) ploughing (men)	2.27	3.99	22	
(b) transplanting (women)	1.13	2.45	8	
(c) price of coarse parboiled rice (rural retail price Rs/kg)	1.27	2.14	5.5	
(d) PDS (Rs/kg) issue price			2.5	

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B. Constant 1993-4 prices				
(a)	9.1	7.5	22	
(b)	4.5	4.6	8	
(c)	5.1	4	5.5	
C. Wage-price ratios				
(a)/(c)	1.8	1.8	4	
(b)/(c)	0.9	1.1	1.45	
(a)/(d)			9	
(b)/(d)			3.2	

Source: Field material plus data in Hazell and Ramasamy, 1991, pp.89, 116.

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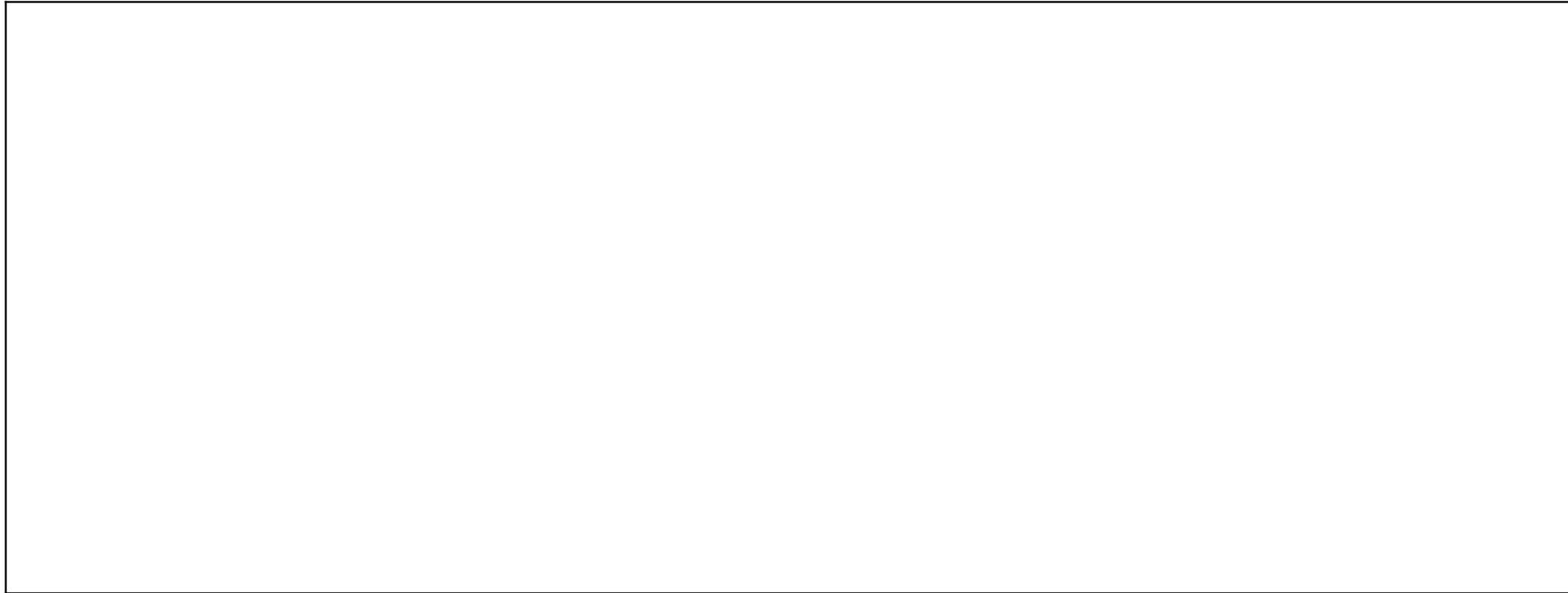
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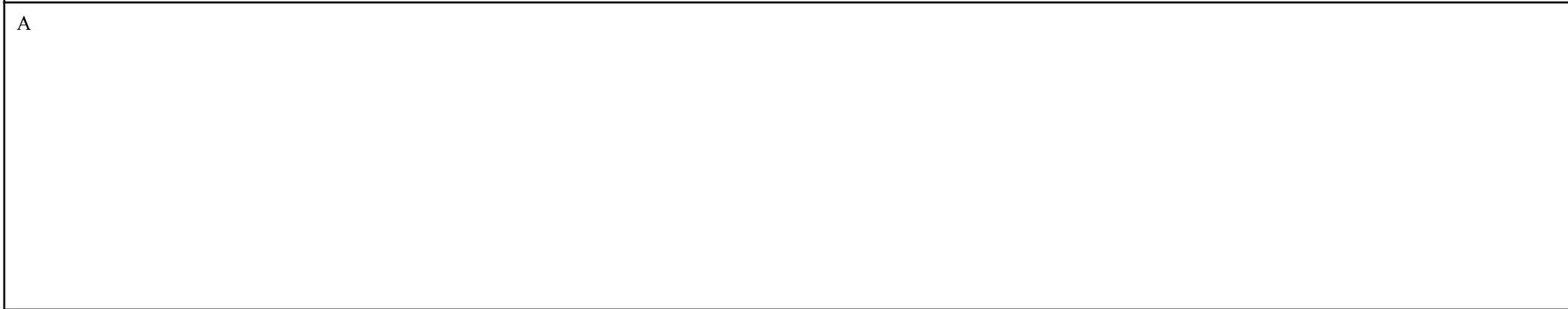
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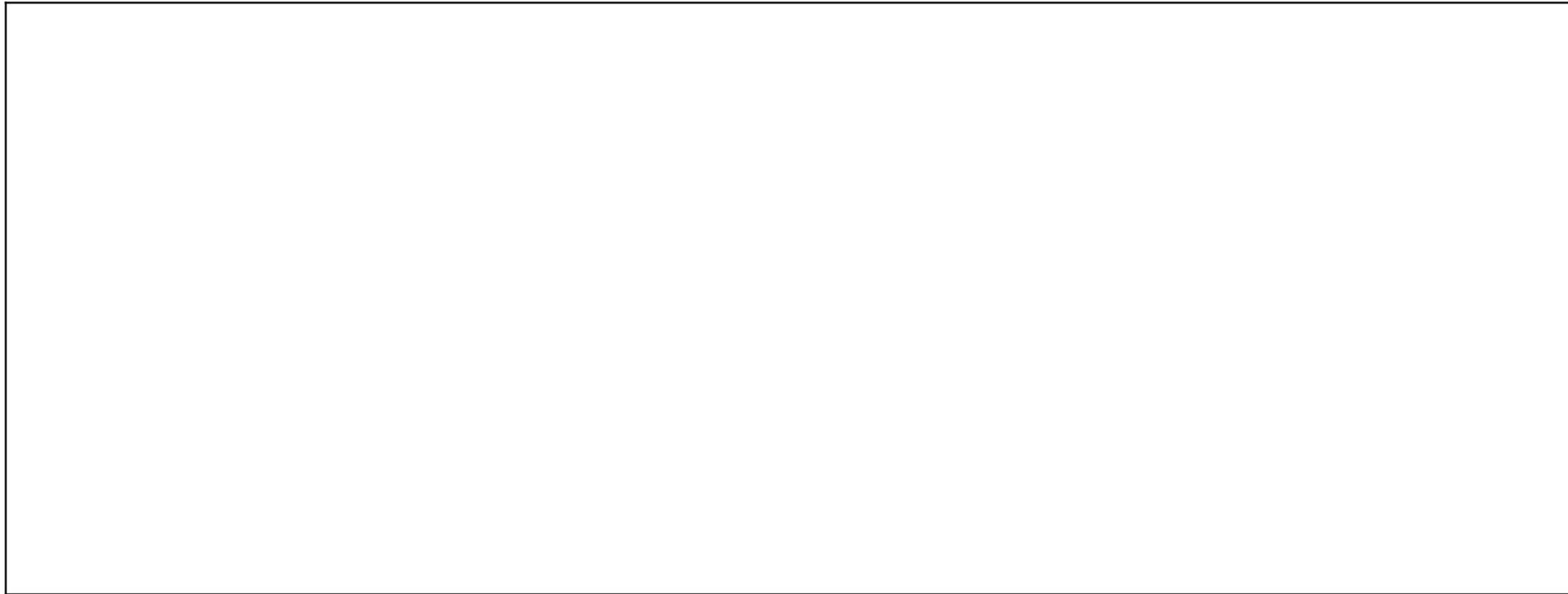
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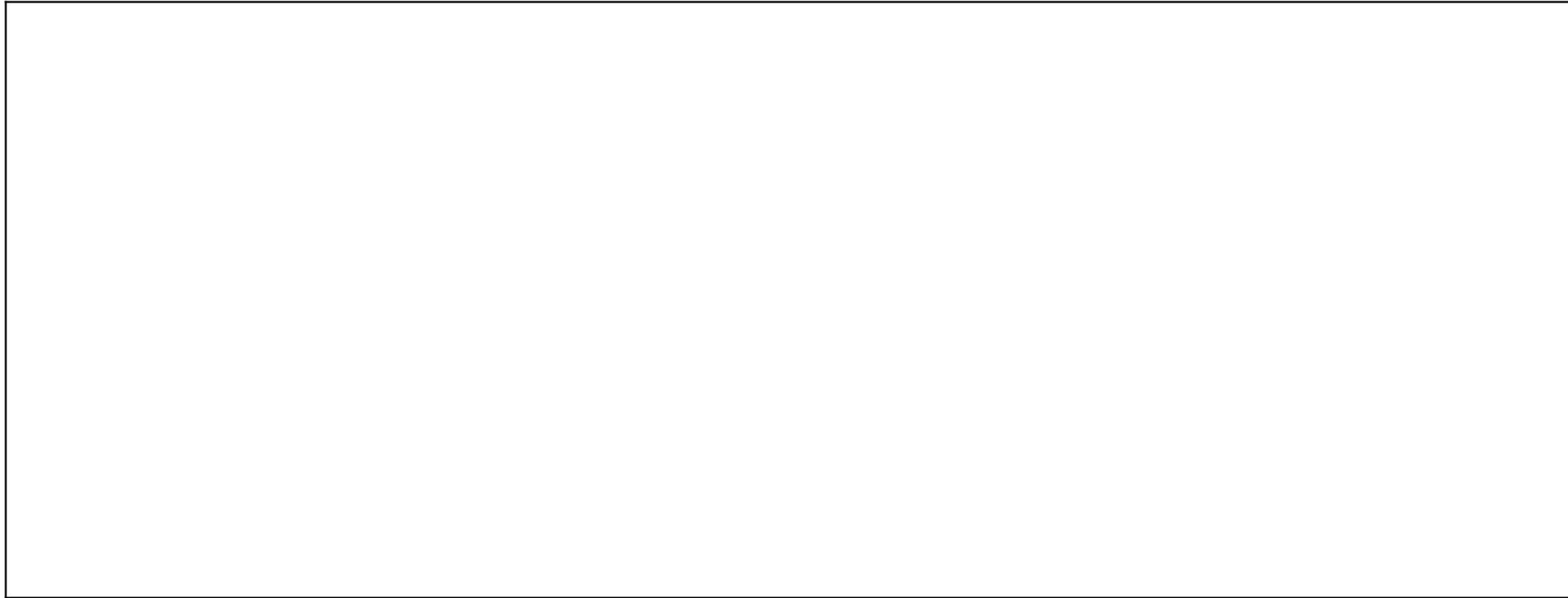
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EMV = Estimated Market Value

A = Rs B = % of 3 Village average.

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