

IMPACT OF PRICE HIKE OF FERTILISERS
ON AGRICULTURE
IN
MAHARASHTRA STATE

SECOND PHASE REPORT
ON
KHARIF SEASON (1992-93)

C.S.GAJARAJAN

AGRO-ECONOMIC RESEARCH CENTRE
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Irrigation

Before we turn our attention to the impact of fertilizer price hike on cropping pattern, it may not be out of place here to briefly mention the proportion of sample farmers having some irrigation facility and sources of the same. The agro-climatic zonewise pattern reveals that none of the farmers in Zone II reports any irrigated land and, at the other extreme, all the farmers selected from Zone III are having varying extent of irrigated lands. In other zones the proportion of farmers having some irrigation facility varies from a low 35 per cent in Zone I to a little over 90 per cent in Zones IV and IX. Among the sample farmers with the irrigated lands, wells constitute the only source in Zones I and V and principal source in all other zones except the Zone IX where the canals remain dominant with none reporting any well irrigation.

Table 1 : Distribution of Sample Farmers According to Irrigation Facility in the Various Agro-Climatic Zones

A.C. Zone	Dry- land farmers	Farmers Having Irrigation Facility				Total
		Well	Canal	Lift	Well + Canal	
1	13	7	-	-	-	20
2	20	-	-	-	-	20
3	-	9	-	1	-	10
4	2	26	-	2	-	30
5	6	14	-	-	-	20
6	35	89	5	1	-	130
7	42	33	5	-	-	80
8	10	23	11	-	6	50
9	3	-	32	5	-	40
Total	131	201	53	9	6	400

Table 2 : Distribution of Sample Farmers According to Irrigation Facility by Size of Operational Holding Groups

Size group of holdings	Dry land farmer	Source of Irrigation			Total	
		Well	Canal	Lift	Well + Canal	
I. Marginal (upto 1 ha.)	35	33	12	-	2	82
II. Small (1.01-2.00 ha)	36	36	8	5	1	86
III. Semi-Medium (2.01-4.00 ha)	28	54	11	2	2	97
IV. Medium (4.01-6.00 ha)	20	43	12	2	-	77
V. Large (6.01 and above)	12	35	10	-	1	58
Total	131	201	53	9	6	400

The pattern viewed from the size of operational holding groups of the sample farmers shows that around 60 per cent of marginal and small farmers groups are having some irrigation facility while the proportion is over 70 per cent for both the medium groups and nearly 80 per cent for large group. Among the sources, well irrigation emerges as the dominant one in all the size groups. The relevant data are presented in Tables 1 and 2 according to the agro-climatic zones and size of holding groups respectively.

Soil Deficiency

Hardly 12 per cent of the sample farmers claim that soil testing of their lands having taken place. Agro-climatic zone-wise, it is 100 per cent in Zone III, 45 per cent in Zone V, 33 per cent in Zone IV, 10 to 15 per cent in Zones I and II and less than 10 per cent in others except the Zone IX where none reports any soil testing. The same response from the size of holding point of view shows less than 10 per cent for small and semi-medium groups, a little over 10 per cent for marginal and large groups and nearly 17 per cent for medium group.

Since the record of testing of soil is woefully low in all the cases, the response to awareness of soil deficiency on the part of the sample farmers reveals equally dismal situation. It is a very negligible two per cent of the sample that has given positive response. Interestingly, one half of it belongs to marginal and small holding groups.

Similar is the response to corrective measures adopted to enrich the deficient soil with proper fertilizer dosage. A very small number in Zones VI and VII from the marginal and both medium holding groups report positively. The relevant details, zonewise and size of holding groupwise may be seen in Tables 3 and 4 respectively.

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IMPACT ON CROPPING PATTERN

During the kharif season of 1992-93, the sample farmers at the aggregate level report an extent of 889 hectares under various crops. Out of this, the irrigated crops occupy 131 hectares forming nearly 15.0 per cent of total kharif area and the unirrigated crops account for the remaining 764 hectares. The main irrigated crops being bajra among the cereals, sugarcane and horticultural (fruits and vegetables). Among the rainfed crops, paddy, bajra, hy. jowar among cereals, groundnut among oilseeds and cotton are the prominent ones.

Compared to the previous kharif cropped area (1991-92) the present kharif season has shown an overall area increase by 9.00 per cent. However, the irrigated component has actually decreased by 52 per cent over that of the previous kharif season. The area under unirrigated crops has correspondingly increased by about 39 per cent. Paddy, oilseeds, sugarcane and flowers and vegetables are the important ones registering decreased area among the irrigated crops. In the case of unirrigated kharif, paddy, bajra, hy. jowar and cotton are the principal crops that have gained area increase by considerable extent and, pulses and oilseeds are the main losers.

Zonewise and Size Groupwise Changes

Irrigated Crops:

The data pertaining to area under irrigated crops of the sample farmers during the kharif seasons of 1991-92 and 1992-93 along with changes in terms of percentage in the latter year are

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Zonewise and Size Groupwise ChangesIrrigated Crops:

The data pertaining to area under irrigated crops of the sample farmers during the kharif seasons of 1991-92 and 1992-93 along with changes in terms of percentage in the latter year are

Table 5 : Agro-climatic Zonewise Change in the Kharif Cropping Pattern Between 1991-92 and 1992-93 (IRRIGATED CROPS)

(Area in Hectares)

Crops Zones	Hy-Jower			Bajra			Paddy			Other Cereals			Total Cereals			Tur		
	Area 91-92	Area 92-93	% Change															
Zone I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone IV	-	-	-	-	0.60	100.00	0.15	0.30	100.00	-	-	-	0.15	0.90	500.00	-	-	-
Zone V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone VI	3.96	1.51	-61.87	27.79	36.78	32.35	0.20	-	-100.00	4.95	3.70	-25.25	36.90	41.99	13.79	1.70	1.65	-2.94
Zone VII	2.80	0.30	-89.28	0.55	-	-	0.49	-	-100.00	-	-	-	3.84	0.30	-92.19	-	0.61	100.00
Zone VIII	4.11	2.95	-28.22	0.61	-	-	-	0.03	100.00	0.04	0.06	50.00	4.76	3.04	-36.13	0.10	-	-
Zone X	-	-	-	0.39	-	-	81.17	8.12	-90.00	-	-	-	81.56	8.12	-90.04	-	-	-
G.Total	10.87	4.76	-56.21	29.34	37.38	27.40	82.01	8.45	-89.70	4.99	3.76	-24.65	127.21	54.35	-57.27	1.80	2.25	25.00

Table 5 : (Contd.)

Crops Zones	Other Pulses			Total Pulses			Ground Nut			Sun-Flower			Other Oil Seeds			Total Oil Seeds		
	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change									
Zone I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone II	-	-	-	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-
Zone III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone IV	-	-	-	-	-	-	1.70	0.20	-88.24	-	-	-	-	-	-	1.70	0.20	-88.23
Zone V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone VI	0.20	0.05	-75.00	1.90	1.70	-10.53	2.58	1.10	-57.36	5.25	0.60	-88.57	-	-	-	7.83	1.70	-78.29
Zone VII	-	-	-	-	0.60	100.00	0.20	-	-	0.75	-	-	2.00	1.17	-41.50	2.95	1.17	-60.34
Zone VIII	-	-	-	0.10	-	-	-	-	-	1.50	-	-	1.08	0.13	-87.96	2.58	0.13	-94.96
Zone X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G.Total	0.20	0.05	-75.00	2.00	2.30	15.00	4.48	1.30	-70.98	7.50	0.60	-92.00	3.08	1.30	-57.79	15.06	3.20	-78.75

Table 5 : (Contd.)

Crops Zones	Other Pulses			Total Pulses			Ground Nut			Sun-Flower			Other Oil Seeds			Total Oil Seeds		
	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change									
Zone I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone II	-	-	-	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-
Zone III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone IV	-	-	-	-	-	-	1.70	0.20	-88.24	-	-	-	-	-	-	1.70	0.20	-88.23
Zone V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone VI	0.20	0.05	-75.00	1.90	1.70	-10.53	2.58	1.10	-57.36	5.25	0.60	-88.57	-	-	-	7.83	1.70	-78.29
Zone VII	-	-	-	-	0.60	100.00	0.20	-	-	0.75	-	-	2.00	1.17	-41.50	2.95	1.17	-60.34
Zone VIII	-	-	-	0.10	-	-	-	-	-	1.50	-	-	1.08	0.13	-87.96	2.58	0.13	-94.96
Zone X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G.Total	0.20	0.05	-75.00	2.00	2.30	15.00	4.48	1.30	-70.98	7.50	0.60	-92.00	3.08	1.30	-57.79	15.06	3.20	-78.75

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	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change									
Zone I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone II	-	-	-	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-
Zone III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone IV	-	-	-	-	-	-	1.70	0.20	-88.24	-	-	-	-	-	-	1.70	0.20	-88.23
Zone V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zone VI	0.20	0.05	-75.00	1.90	1.70	-10.53	2.58	1.10	-57.36	5.25	0.60	-88.57	-	-	-	7.83	1.70	-78.29
Zone VII	-	-	-	-	0.60	100.00	0.20	-	-	0.75	-	-	2.00	1.17	-41.50	2.95	1.17	-60.34
Zone VIII	-	-	-	0.10	-	-	-	-	-	1.50	-	-	1.08	0.13	-87.96	2.58	0.13	-94.96
Zone X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G.Total	0.20	0.05	-75.00	2.00	2.30	15.00	4.48	1.30	-70.98	7.50	0.60	-92.00	3.08	1.30	-57.79	15.06	3.20	-78.75

Table 6 : contd.

Size Holding Area in hectares	Other Pulses			Total Pulses			Groundnut			Sunflower			Other Oilseeds		
	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change
Upto 1 Marginal	0.00	0.00	0.00	0.50	1.05	110.00	0.06	0.00	100.00	1.25	0.00	-100.00	0.28	0.13	-53.57
1.00 - 2.00 Small	0.00	0.00	0.00	0.05	0.00	-100.00	0.97	0.40	-58.76	1.45	0.00	-100.00	0.00	0.00	0.00
2.01 - 4.00 Semi-medium	0.20	0.00	-100.00	0.20	0.40	100.00	2.20	0.20	-90.91	0.00	0.40	-	0.65	1.17	80.00
4.01 - 6.00 Medium	0.00	0.00	0.00	0.20	0.00	-100.00	1.00	0.30	-70.00	1.60	0.20	-87.50	2.15	0.00	-100.00
6 to 1 and above Large	0.00	0.05	0.00	1.05	0.85	-19.05	0.25	0.40	60.00	3.20	0.00	-100.00	0.00	0.00	0.00
Total	0.20	0.05	-75.00	2.00	2.30	15.00	4.48	1.30	-70.98	7.50	0.60	-92.00	3.08	1.30	-57.79

contd.

Table 6 : contd.

Size Holding Area in hectares	Total Oilseeds			Cotton			Sugarcane			Fodder Crops			Horticultural			Grand Total		
	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change
Upto 1 Marginal	1.59	0.13	-91.82	0.35	0.35	0.00	8.45	6.39	-24.38	0.07	0.05	-28.57	0.89	1.44	-61.80	22.05	32.96	49.49
1.00 - 2.00 Small	2.42	0.40	-91.74	0.66	0.48	-27.27	8.89	4.95	-44.32	0.56	0.31	-44.64	5.04	3.71	-26.39	33.74	13.19	-60.91
2.01 - 4.00 Semi-medium	2.85	1.77	-37.90	2.91	0.00	-100.00	16.44	9.73	-40.82	0.47	0.36	-23.40	7.94	2.15	-72.92	56.28	26.46	-52.98
4.01 - 6.00 Medium	4.75	0.50	-89.47	5.40	0.40	-92.59	23.60	14.18	-39.92	0.30	0.10	-66.67	14.18	12.75	-10.08	87.32	38.58	-55.82
6.01 and above Large	3.45	0.40	-94.20	1.85	0.00	-100.00	20.08	11.68	-41.83	0.71	0.00	-100.00	10.55	2.36	-77.63	74.22	20.05	-72.98
Total	15.06	3.20	-78.75	11.17	1.23	-88.99	77.46	46.93	-39.41	2.11	0.82	-61.14	38.60	22.41	-41.94	273.61	131.24	-52.03

Table 6 : contd.

Size Holding Area in hectares	Total Oilseeds			Cotton			Sugarcane			Fodder Crops			Horticultural			Grand Total		
	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change
Upto 1 Marginal	1.59	0.13	-91.82	0.35	0.35	0.00	8.45	6.39	-24.38	0.07	0.05	-28.57	0.89	1.44	-61.80	22.05	32.96	49.49
1.00 - 2.00 Small	2.42	0.40	-91.74	0.66	0.48	-27.27	8.89	4.95	-44.32	0.56	0.31	-44.64	5.04	3.71	-26.39	33.74	13.19	-60.91
2.01 - 4.00 Semi-medium	2.85	1.77	-37.90	2.91	0.00	-100.00	16.44	9.73	-40.82	0.47	0.36	-23.40	7.94	2.15	-72.92	56.28	26.46	-52.98
4.01 - 6.00 Medium	4.75	0.50	-89.47	5.40	0.40	-92.59	23.60	14.18	-39.92	0.30	0.10	-66.67	14.18	12.75	-10.08	87.32	38.58	-55.82
6.01 and above Large	3.45	0.40	-94.20	1.85	0.00	-100.00	20.08	11.68	-41.83	0.71	0.00	-100.00	10.55	2.36	-77.63	74.22	20.05	-72.98
Total	15.06	3.20	-78.75	11.17	1.23	-88.99	77.46	46.93	-39.41	2.11	0.82	-61.14	38.60	22.41	-41.94	273.61	131.24	-52.03

The area change for different unirrigated crops in respect of size holding group reveals a mixed pattern. The area under Jowar has increased in all but size group 3 and, impressive only in size group 1 (over 100 per cent) and size group 5 (34 per cent). Bajra has recorded area increase in all the size groups and particularly in group 2 by nearly 62 per cent. The area change in paddy is positive in all the five size groups and phenomenal is seen in marginal holdings (group 1) where the actual area has increased from around 7.00 to 91.00 hectares. The area under pulses has increased by a modest extent only in marginal and small groups. A small increase in the area under oilseed crops is seen in all size holdings excepting the medium ones. Among the other crops, cotton has registered some decline in the area in respect of smaller holdings, considerable increase in both medium groups and marginal in the large group.

Considering all the unirrigated crops together, it may be seen that area increase is very impressive in the marginal holdings and followed by moderately significant in small and other holdings. The relevant data pertaining to area changes for unirrigated crops in different agro-climatic zones and size of holdings groups are presented in Table 7 and Table 8 respectively.

Agro-climatic Zonewise Change in the Kharif Cropping Pattern Between 1991-92 and 1992-1993 (Unirrigated Crops)

(Area in Hectares)

Crops Zones	Hy. Jowar			Bajra			Paddy			Other Cereals			Total Cereals			Tur		
	Area 91-92	Area 92-93	% Change															
Zone I	0.40	0.20	-50.00	-	-	-	11.57	10.97	-5.19	4.60	5.23	13.70	16.57	16.40	-1.02	-	-	-
Zone II	-	-	-	-	-	-	28.56	24.78	-13.24	-	-	-	28.56	24.78	-13.23	-	-	-
Zone III	1.15	0.63	-45.22	-	-	-	5.34	6.54	22.47	0.20	0.44	120.00	6.69	7.61	13.75	-	-	-
Zone IV	8.66	4.44	-48.73	5.55	8.88	60.00	8.45	7.95	-5.92	0.10	-	-	22.76	21.27	-6.55	-	-	-
Zone V	5.65	7.85	34.94	6.95	7.94	14.24	0.98	1.90	93.88	0.23	-	-	13.81	17.69	28.10	-	-	-
Zone VI	8.24	15.20	84.47	77.48	110.49	42.60	0.74	1.00	35.14	1.16	2.40	32.65	88.43	129.09	46.00	4.76	6.84	43.70
Zone VII	40.24	57.70	43.39	14.70	17.99	22.38	9.25	8.68	-6.16	-	1.14	100.00	64.19	85.51	33.21	13.71	12.57	-8.32
Zone VIII	41.08	41.22	0.34	2.71	3.13	15.50	1.21	1.67	38.02	-	-	-	45.00	46.02	2.27	1.03	1.18	14.56
Zone IX	-	-	-	-	-	-	21.12	178.18	743.18	-	-	-	21.12	178.08	743.18	-	-	-
G.Total	105.42	127.24	20.70	107.39	148.43	38.21	87.22	241.57	176.97	7.09	9.21	29.90	307.12	526.45	71.41	19.50	20.59	5.59

Table 7 : (Contd.)

Crops Zones	Other Pulses			Total Pulses			Ground Nut			SunFlower			Other Oil Seeds			Total Oil Seeds				
	Area 91-92		Area 92-93	% Change	Area 91-92		Area 92-93	% Change	Area 91-92		Area 92-93	% Change	Area 91-92		Area 92-93	% Change	Area 91-92		Area 92-93	% Change
Zone I	-	-	-	-	-	-	3.45	2.55	-26.09	-	-	-	-	-	-	-	3.45	2.55	-26.0	
Zone II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zone III	-	-	-	-	-	-	1.27	0.74	-41.73	-	-	-	-	-	-	-	1.27	0.74	-41.7	
Zone IV	0.50	-	-	0.50	-	-	9.12	8.32	-8.77	-	-	-	-	-	-	-	9.12	8.32	-8.7	
Zone V	1.21	0.78	-35.54	1.21	0.78	-35.54	8.63	6.71	-22.25	0.63	0.27	-57.14	0.10	0.38	280.00	9.36	7.36	-21.3		
Zone VI	11.23	11.63	3.56	15.99	18.47	15.51	13.61	16.32	19.21	4.29	9.10	112.12	1.00	0.80	-20.00	18.90	26.22	38.7		
Zone VII	23.38	7.35	-68.56	37.09	19.92	-46.29	6.83	8.30	21.52	3.60	2.02	-43.89	17.99	18.69	3.89	28.42	29.01	2.0		
Zone VIII	2.16	2.30	6.48	3.19	3.48	9.09	2.51	2.99	-16.73	2.00	-	-	18.69	20.63	10.38	23.20	22.72	-2.0		
Zone IX	1.25	-	-	1.25	-	-	-	-	-	-	-	-	14.10	9.94	-29.50	14.10	9.94	-29.5		
G.Total	39.73	22.06	-44.47	59.23	42.65	-27.99	45.42	45.03	-0.85	10.52	11.39	8.27	51.88	50.44	-2.77	107.82	106.86	-0.8		

ntd.)

Crops Zones	Cotton			Sugarcane			Fodder Crops			Fruits Vegetables Flowers			Other			Grand Total			
	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Change	Area 91-92	Area 92-93	% Chan	
Zone I	-	-	-	-	-	-	-	-	-	-	-	-	0.30	0.30	-	20.32	19.25	-5.26	
Zone II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.56	24.78	-13.23	
Zone III	-	-	-	-	-	-	-	-	-	0.05	-	-	-	-	-	8.01	8.35	4.24	
Zone IV	-	-	-	-	-	-	0.40	0.40	0.00	4.81	1.71	-39.14	-	-	-	35.59	31.70	-10.93	
Zone V	-	-	-	-	-	-	-	-	0.15	100.00	0.55	-	-	-	-	24.93	25.98	4.21	
Zone VI	0.59	-	-	-	-	-	-	-	0.40	100.00	3.85	6.82	77.14	3.21	2.25	-29.90	130.96	183.25	39.93
Zone VII	41.24	42.28	2.52	-	-	-	-	-	-	0.41	0.84	104.88	-	-	-	171.35	177.56	3.62	
Zone VIII	20.81	32.70	57.14	-	-	-	-	-	-	-	-	-	-	-	-	92.20	104.92	13.80	
Zone IX	-	-	-	-	-	-	-	-	-	1.45	-	-	-	-	-	37.92	188.02	395.83	
G.Total	62.64	74.98	19.70	-	-	-	0.40	0.95	137.50	9.12	9.37	2.74	3.51	2.55	-27.35	549.84	763.81	38.91	

Table 8 : Size of Holdingwise Change in the Kharif Cropping Pattern Between 1991-92 and 1992-93 (Unirrigated Crops)

Size Holding Area in hectares	(Area in Hectares)																	
	Hybrid Jowar			Bajra			Paddy			Other Cereals			Total Cereals			Tur		
	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change
Upto 1.00 Marginal	3.73	7.88	111.26	5.64	6.53	15.78	7.06	91.36	1194.10	0.36	0.50	38.89	16.79	106.27	532.90	0.21	1.51	619.10
1.00 - 2.00 Small	9.50	10.67	12.31	8.82	14.24	61.45	15.16	26.94	77.70	1.36	3.25	138.97	34.84	55.10	58.15	0.91	3.29	261.54
2.01 - 4.00 Semi-medium	17.50	16.94	-3.20	25.89	35.46	36.96	29.80	39.98	34.16	3.32	3.37	1.51	76.51	95.75	25.15	3.92	3.39	-13.52
4.01 - 6.00 Medium	33.48	36.65	9.47	25.35	36.94	45.72	22.51	49.62	120.44	1.40	1.70	21.43	82.74	124.91	50.97	6.32	3.99	-36.87
6.01 and above Large	41.21	55.10	33.71	41.69	55.26	32.55	12.69	33.67	165.33	0.65	0.39	-40.00	36.24	144.42	50.06	8.14	8.41	3.32
Total	105.42	127.24	20.70	107.39	148.43	38.21	87.22	241.57	176.97	7.09	9.21	29.90	307.12	526.45	71.41	19.50	20.59	4.21

contd.

Table 8 : contd.

Size Holding Area in hectares	Other Pulses			Total Pulses			Groundnut			Sunflower			Other Oilseeds			Total Oilseeds		
	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change
Upto 1.00 Marginal	1.50	0.78	-48.00	1.71	2.29	33.92	2.34	2.35	0.43	1.15	0.82	-28.70	2.09	2.49	19.13	5.58	5.66	1.43
1.00 - 2.00 Small	2.72	3.80	39.71	3.63	7.09	95.32	5.10	5.51	8.04	0.00	1.30	0 00	4.96	4.10	-17.34	10.06	10.91	8.45
2.01 - 4.00 Semi-medium	3.17	1.63	-48.58	7.09	5.02	-29.20	8.16	7.36	-2.45	1.40	2.40	71.43	8.65	6.98	-19.31	18.21	17.34	-4.78
4.01 - 6.00 Medium	6.01	4.12	-31.45	12.33	8.11	-34.23	16.08	14.16	-11.94	3.67	6.07	65.40	11.34	7.62	-32.80	31.09	27.85	-10.42
6.01 & above Large	26.33	11.73	-55.45	34.47	20.14	-41.57	13.74	15.05	9.43	4.30	0.80	-81.40	24.84	29.25	17.75	42.88	45.10	5.18
Total	39.73	22.06	-44.47	59.23	42.65	-28.00	45.42	45.03	-0.85	10.52	11.39	8.27	51.88	50.44	-2.77	107.82	106.86	-0.89

contd.

Table 8 : contd.

Size Holding Area in hectares	Cotton			Fodder Crops			Horticultural			Other Trees			Grand Total		
	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change	91-92	92-93	% change
Upto 1.00 Marginal	3.92	2.23	-43.11	0.00	0.00	0.00	1.55	2.15	38.71	0.00	0.00	0.00	29.55	118.60	301.35
1.00 - 2.00 Small	7.97	7.35	-7.78	0.00	0.00	0.00	0.21	1.65	885.71	0.00	0.00	0.00	56.71	82.10	44.77
2.01 - 4.00 Semi-medium	12.18	16.41	34.73	0.00	0.10	0.00	1.36	2.56	88.24	0.30	0.30	0.00	115.65	137.48	18.87
4.01 - 6.00 Medium	16.80	25.90	54.17	0.40	0.45	12.50	3.64	2.17	-40.39	0.00	0.00	0.00	147.00	189.39	28.84
6.01 & above Large	21.77	23.09	6.06	0.00	0.40	0.00	2.36	0.84	-64.40	3.21	2.25	-29.91	200.93	236.24	17.57
Total	62.64	74.98	19.70	0.40	0.95	137.50	9.12	9.37	2.74	3.51	2.55	-27.35	549.84	763.81	38.91

Reasons for Change in the Cropping Pattern

In response to the query as to the predominant reason for their decision for change in the crop pattern during the current season, if any, with regard to that of the pattern in the previous kharif (pre-hike period of fertilizer prices), no sample farmer has stated the fertilizer price hike as the reason. The data on percentage distribution of the responses, from inclusive of 'no change at all' to the possible nine reasons for change, in regard to the two main crops of the informants are presented below. The agro-climatic zonewise frequency distribution may be seen in Tables 9 and 10 for the first and second main crops respectively. Similarly, the relevant data according to the size of holding groups are presented in Tables 11 and 12. However, it may also be mentioned here that very few farmers have accommodated more than two crops on their holdings in kharif season and these are quite unimportant.

At the outset, it may be seen that for the first important crop, more than one half of the farmers in Zones III, VI and IX report 'no change' and the other farmers, by and large, have changed the crop as a matter of crop rotation practice irrespective of other factors. As a matter of fact, this crop rotation practice is very predominant reason among the majority of farmers reporting any change for both first and second crop. Among the lesser important reasons mention may be made of 'favourable market' reported to a small extent

Table 9 : Percentage Distribution of Farmers According to Reason for Change in the Cropping Pattern in Different Agro-climatic Zones (First Main Crop)

Zone	Reason for change (1st crop) 92-93											Total %
	0	1	2	3	4	5	6	7	10	11		
1	21.4	76.2	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	100.0	
2	4.8	98.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	
3	62.1	31.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	100.0	
4	32.9	53.2	0.0	0.0	5.1	0.0	8.9	0.0	0.0	0.0	100.0	
5	40.4	40.4	0.0	0.0	0.0	0.0	19.3	0.0	0.0	0.0	100.0	
6	55.6	24.8	0.7	4.9	0.0	2.9	8.3	0.5	0.2	2.2	100.0	
7	40.6	37.5	1.2	8.2	0.0	3.5	5.9	0.0	0.0	3.1	100.0	
8	45.3	45.3	0.0	1.5	0.0	0.7	5.1	0.0	0.0	2.2	100.0	
9	57.9	38.3	0.0	1.9	0.0	0.0	1.9	0.0	0.0	0.0	100.0	

Note

- 0 - Not changed cropping pattern
- 1 - Crop rotation practice
- 2 - Unfavourable climate
- 3 - Unsatisfactory experience
- 4 - Increased irrigation facility
- 5 - Reduced irrigation facility
- 6 - Favourable market
- 7 - Unfavourable market
- 8 - Fertilizer price hike
- 9 - Lack of credit support
- 10 - Any other specify (food crop)
- 11 - Shortage of rainfall

Table 10 : Percentage Distribution of Farmers According to Reason for Change in the Cropping Pattern in Different Agro-climatic Zones (Second Main Crop)

Zone	Reason for change (2nd crop) 92-93											Total %
	0	1	2	3	4	5	6	7	10	11		
1	50.0	47.6	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	100.0	
2	71.4	23.8	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	100.0	
3	48.3	48.3	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	100.0	
4	58.2	26.6	1.3	0.0	2.5	0.0	11.4	0.0	0.0	0.0	100.0	
5	59.6	33.3	1.8	0.0	0.0	0.0	5.3	0.0	0.0	0.0	100.0	
6	68.7	15.0	0.5	4.6	0.7	1.9	7.3	0.5	0.2	0.5	100.0	
7	55.1	28.5	0.8	6.6	0.0	2.3	5.1	0.0	0.0	1.6	100.0	
8	70.1	24.8	0.7	3.5	0.0	0.0	2.2	0.0	0.0	0.7	100.0	
9	65.4	33.6	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	100.0	

Note

- 0 - Not changed cropping pattern
- 1 - Crop rotation practice
- 2 - Unfavourable climate
- 3 - Unsatisfactory experience
- 4 - Increased irrigation
- 5 - Reduced irrigation
- 6 - Favourable market
- 7 - Unfavourable market
- 8 - Fertilizer price hike
- 9 - Lack of credit support
- 10 - Any other (food crop)
- 11 - Shortage of rainfall

Table 11 : Percentage Distribution of Farmers According to Reason for Change in the Cropping Pattern in Different Size of Holding Groups (First Main Crop)

Size holding	Reasons for change (1st crop) 92-93											Total %
	0	1	2	3	4	5	6	7	10	11		
1	49.7	37.3	1.1	4.0	0.0	0.6	4.0	0.0	0.6	2.8	100.0	
2	44.3	38.9	0.0	3.9	0.0	3.0	9.4	0.0	0.0	0.5	100.0	
3	45.9	38.3	0.8	3.0	1.5	1.5	7.9	0.4	0.0	0.8	100.0	
4	48.2	39.0	0.4	4.0	0.0	1.1	6.6	0.0	0.0	0.7	100.0	
5	46.8	33.2	0.9	5.0	0.0	2.7	6.4	0.5	0.0	4.5	100.0	

Note

- 0 - Not changed cropping pattern
- 1 - Crop rotation practice
- 2 - Unfavourable climate
- 3 - Unsatisfactory experience
- 4 - Increased irrigation facility
- 5 - Reduced irrigation facility
- 6 - Favourable market
- 7 - Unfavourable market
- 8 - Fertilizer price hike
- 9 - Lack of credit support
- 10 - Any other specify (food crop)
- 11 - Shortage of rainfall

Table 12 : Percentage Distribution of Farmers According to Reason for Change in the Cropping Pattern in Different Size of Holding Groups (Second Main Crop)

Size holding	Reasons for change (2nd crop) 92-93											Total %
	0	1	2	3	4	5	6	7	10	11		
1	62.7	24.3	1.1	4.0	1.1	1.1	4.5	0.0	0.0	1.1	100.0	
2	65.0	23.6	0.5	3.4	0.0	2.5	3.9	0.5	0.0	0.5	100.0	
3	65.8	20.7	1.1	2.6	0.8	1.1	7.5	0.0	0.4	0.0	100.0	
4	59.2	31.6	0.0	3.3	0.4	0.4	4.0	0.4	0.0	0.7	100.0	
5	63.2	23.6	0.5	3.6	0.0	1.4	6.4	0.0	0.5	0.9	100.0	

Note

- 0 - Not changed cropping pattern
- 1 - Crop rotation practice
- 2 - Unfavourable climate
- 3 - Unsatisfactory experience
- 4 - Increased irrigation facility
- 5 - Reduced irrigation facility
- 6 - Favourable market
- 7 - Unfavourable market
- 8 - Fertilizer price hike
- 9 - Lack of credit support
- 10 - Any other specify (food crop)
- 11 - Shortage of rainfall

in all but the first two zones, 'inadequacy of rainfall' and 'unsatisfactory experience' with the crop in the previous kharif season in Zones VI, VII and VIII in regard to the first crop. The pattern is no different in regard to the second crop and, in point of fact, majority reports 'no change of crop' in all but Zone III. Among the farmers involved in change of crop, the 'crop rotation practice' is again the predominant reason. It is followed by 'favourable market' in almost all zones to a little extent.

By and large, the pattern is substantially similar as viewed from the point of size of holding groups of the farmers. Nearly one half of the sample in every size group does not report any change at all in regard to first important crop. It is more manifest in the case of second main crop where the proportions reach nearly two-thirds of the sample. It is followed by crop 'rotation practice' as the overwhelming reason for all those involved in any change in regard to both main crops in all the size holding groups. Among the minor reasons mention may be made of 'favourable market' and 'unsatisfactory experience with the crop in the previous season' for both first and second main crops in all size groups. It is, however, significant to note that no farmer has mentioned 'fertilizer price hike' and 'lack of credit support' as reason for switch in the cropping decision.

IMPACT ON FERTILIZER CONSUMPTION

In the present section an attempt is made to assess the change in the levels of fertilizer consumption in respect of major kharif crops of 1992-93. The consumption level of the previous kharif season (1991-92) is considered as basis for the pre-hike period of fertilizer prices. It is then compared with the level of consumption during the current kharif season (1992-93) and the difference at an average per hectare basis is expressed in terms of increase or decrease by percentage. The data analysed according to agro-climatic zones and size of holding groups for each of the major crops separately, taking into consideration both quantity (kilogram per hectare) and money value (rupees in tens per hectare). The fertilizer inputs are divided into four categories, namely, (1) nitrogenous ('N') (2) phosphatic ('P') (3) potash ('K') and (4) complex materials of all grades. The seven major crops that figure in our analysis are : Paddy, Hybrid Jowar and Bajra among the cereals; Tur (red gram) as a pulse crop; Sugarcane; Groundnut and Cotton. However, all these crops do not figure in all the nine agro-climatic zones of the State and since these are region specific in number and acreage in our sample frame, the comments will, therefore, be restricted to mainly the concerned zones for each of the crops.

1. Paddy

During the 1992-93 kharif season, paddy has remained almost

entirely a monsoon crop in view of near total (90 per cent) shift from the irrigated to unirrigated condition. Besides, about 75 per cent of this area is reported from the sample farmers of Zone 9 and another 10 per cent from those of the Zone 2. Although reported by all the size groups in these two zones, about 40 per cent of total paddy area is found in size group 1 (marginal holdings). However, it is glaringly significant to note that the unirrigated paddy in the present kharif, in agro-climatic zone 9, has not received any fertilizer application at all. In zone 2, level of this input has gone down by nearly 55 per cent of previous kharif level. While the input of 'N' has declined by only 34 per cent. The 'P' is totally absent in the current season and 'K' is not used in either year. The level of complex has gone down by 94 per cent. Among the size holding groups in zone 2, the level of reduction is by 57 per cent for 'N' and hundred per cent for complex materials in the case of marginal holdings. It is only in the case of semi-medium group, we find higher level of input for 'N' and nil input of 'P' and complex materials. The genewise and size groupwise relevant details are presented in Table 13.

2. Jowar

In the current season, it assumes importance only in agro-climatic zones - 7 and 8, together accounting for nearly 90 per cent of the total area under jowar of the entire sample from all the zones. It is virtually absent in zones 1, 2 and 9. Besides, among the holding groups, 86 per cent of the total

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the area under bajra in this zone. In the marginal holding group, mostly representing irrigated bajra, the current input level shows decline of 'N' by 29 per cent, use of 'P' to the tune of 7 kg. per hectare, which shows nil quantity for the previous season and complex type by nine per cent. The overall dosage has marginally gone up by five per cent. In the case of unirrigated bajra, the semi-medium group has recorded increased level of 'N' by eight per cent and slight decrease of complex type by mere two per cent. In the medium group, however, the level of 'N' has declined by 18 per cent and complex type has increased by four per cent. In the large holding group (over six hectares), the 'N' has gone up by 71 per cent, nil use of 'P' and declined level of complex type of 19 per cent. The overall increase of all types has increased by five per cent, whereas, in money terms it amounts to 26 per cent increase. At the zonal aggregate level, only 'N' has increased and all types together show decline by just one per cent in quantity but nearly 19 per cent increase in money terms. Table 15 gives the relevant data for bajra crop.

4. Red Gram (Tur)

This pulse crop is grown as an unirrigated crop in all but two hectares of area under it. Even as a dry land crop, its total area is only about 21 hectares and 94 per cent of it is confined to zones 6 and 7 and about 60 per cent of the area is reported by medium (size group 4) and large holdings. In zone 6, the medium holding group has reported application

Table 15
Zonewise & Holdingwise Changes In The Per Hectare Consumption Of Fertiliser
CROP : Bajra

37

Q : QUANTITY in Kg. V : VALUE in 10's of Rs. 1 : NITROGEN 2 : PHOSPHORUS 3 : POTASH 4 : COMPLEX MIXTURE

Contd.

Table 15 (Contd)
Zonewise & Holdingwise Changes In The Per Hectare Consumption Of Fertilisers
CROP : Bajra

38

A-C ZONE	4.01 TO 6.00 Ha.												6.01 & ABOVE												TOTAL																	
	1				2				3				4				1				2				3				4				TOTAL									
	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V								
1	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	1991-92	37.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	8.0	14.6	3.3	0.0	0.0	0.0	0.0	0.0	14.6	3.3	26.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1992-93	75.0	22.8	0.0	0.0	0.0	0.0	0.0	0.0	75.0	22.8	77.7	23.5	0.0	0.0	0.0	0.0	0.0	77.7	23.5	79.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	% CHANGE	100.0	184.4	0.0	0.0	0.0	0.0	0.0	0.0	100.0	184.4	433.3	611.8	0.0	0.0	0.0	0.0	0.0	433.3	611.8	200.0	325.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1991-92	11.9	2.5	0.0	0.0	0.0	0.0	39.8	12.9	51.8	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1992-93	35.8	10.0	0.0	0.0	0.0	0.0	15.9	4.8	51.8	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	% CHANGE	200.0	293.8	0.0	0.0	0.0	0.0	-60.0	-63.0	0.0	-4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	289.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	1991-92	17.1	4.5	0.0	0.0	0.0	0.0	21.6	4.8	38.7	9.3	13.3	3.6	3.2	0.7	0.0	0.0	22.7	5.2	39.1	9.6	17.1	4.5	1.1	0.3	0.0	0.0	23.1	5.4	41.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1992-93	14.1	4.2	0.0	0.0	0.0	0.0	22.5	6.5	36.6	10.8	22.7	6.6	0.0	0.0	0.0	0.0	18.3	5.5	41.0	12.1	19.9	5.9	0.5	0.1	0.0	0.0	20.5	6.2	40.8	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	% CHANGE	-17.6	-5.9	0.0	0.0	0.0	0.0	4.3	37.4	-5.3	16.4	71.4	80.6	-100.0	-100.0	0.0	0.0	-19.4	5.3	4.8	26.2	16.2	30.7	-60.0	-76.8	0.0	0.0	-11.0	13.4	-1.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1991-92	37.5	10.5	0.0	0.0	0.0	0.0	56.3	16.5	93.8	27.0	0.0	0.0																													

to nil, registering 100 per cent decrease in each case. The

Table 16 (Contd)

newise & Holdingwise Changes In The Per Hectare Consumption Of Fertilisers

OP NAME : Tur

ZONE	4.01 TO 6.00 Ha.										6.01 & ABOVE														
	1		2		3		4		TOTAL		1		2		3		4		TOTAL		1		2		
	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1991-92	37.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	8.0	14.6	3.3	0.0	0.0	0.0	0.0	0.0	14.6	3.3	26.3	5.6	0.0	0.0
1992-93	75.0	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0	22.8	77.7	23.5	0.0	0.0	0.0	0.0	0.0	77.7	23.5	79.0	21.5	0.0	0.0
% CHANGE	100.0	184.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	184.4	433.3	611.8	0.0	0.0	0.0	0.0	0.0	433.3	611.8	200.0	325.0	0.0	0.0
1991-92	11.9	2.5	0.0	0.0	0.0	0.0	39.6	12.9	51.8	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	6.9	0.0	0.0
1992-93	35.8	10.0	0.0	0.0	0.0	0.0	15.9	4.8	51.8	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	26.8	0.0	0.0
% CHANGE	200.0	293.8	0.0	0.0	0.0	0.0	-60.0	-63.0	0.0	-4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	289.7	0.0	0.0
1991-92	17.1	4.5	0.0	0.0	0.0	0.0	21.6	4.8	38.7	9.3	13.3	3.6	3.2	0.7	0.0	0.0	22.7	5.2	39.1	9.6	17.1	4.5	1.1	0.3	
1992-93	14.1	4.2	0.0	0.0	0.0	0.0	22.5	6.5	36.6	10.8	22.7	6.6	0.0	0.0	0.0	0.0	18.3	5.5	41.0	12.1	19.9	5.9	0.5	0.1	
% CHANGE	-17.6	-5.9	0.0	0.0	0.0	0.0	4.3	37.4	-5.3	16.4	71.4	80.6	-100.0	-100.0	0.0	0.0	-19.4	5.3	4.8	26.2	16.2	30.7	-60.0	-76.8	
1991-92	37.5	10.5	0.0	0.0	0.0	0.0	56.3	16.5	93.8	27.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	5.8	18.1	5.8	17.5	4.7	0.0	0.0	
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	68.8	26.0	68.8	26.0	12.0	3.6	0.0	0.0	0.0	0.0	72.3	27.6	84.3	31.2	4.4	1.3	0.0	0.0	
% CHANGE	-100.0	-100.0	0.0	0.0	0.0	0.0	22.2	57.6	-26.7	-3.7	0.0	0.0	0.0	0.0	0.0	0.0	300.0	377.1	366.7	439.6	-75.0	-72.0	0.0	0.0	
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

: QUANTITY in Kg.

V : VALUE in 10's of Rs.

1 : NITROGEN

2 : PHOSPHORUS

3 : POTASH

Table 16
Zonewise & Holdingwise Changes In The Per Hectare Consumption Of Fertilisers
CROP : Tur

40

Q : QUANTITY in Kg. V : VALUE in 10's of Rs. 1 : NITROGEN 2 : PHOSPHORUS 3 : POTASH 4 : COMPLEX MIXTURE

Contd.

Table 16
Zonewise & Holdingwise Changes In The Per Hectare Consumption Of Fertilisers
CROP : Tur

40

Q : QUANTITY in Kg. V : VALUE in 10's of Rs. 1 : NITROGEN 2 : PHOSPHORUS 3 : POTASH 4 : COMPLEX MIXTURE

Contd.

to nil, registering 100 per cent decrease in each case. The total decrease for all fertilizers in this size group is to the tune of 80 per cent. In the medium group, application of fertilizer input is reported only during the current kharif and hence incomparability. Similar is the case in the less important zone 3 in respect of marginal holding group. In the semi-medium group of zone 3, only the 'N' type is reported with 100 per cent increase in the level. The relevant details are presented in Table 17.

6. Groundnut

It is almost entirely cultivated in unirrigated lands during the current kharif season. Besides, it is mainly confined to zones 4, 6 and 7 and together account for nearly three-fourths of its total area. Moreover, the main participant size groups are the medium and large holdings which together account for two-thirds of the area. In zone 4, where it is reported by the first three size groups (upto 4.00 ha.) the application of only 'N' to a little extent is seen in the current season and the overall situation shows decreased level by 91 per cent for all the fertilizers. On the other hand, in zone 6, the level of 'P' and complex types has gone up and 'N' has come down in both smaller holding groups. The medium and large size groups show remarkable increase in the level of 'N' and 'P'. At the aggregate level, the complex type has decreased by only about 11 per cent. In the zone 7, the use of 'N' is reported only in the current season. The 'P' has

declined in all the size groups and at the aggregate level, it is decreased by 78 per cent and complex use is stable at the same level. In the larger holding groups, the complex type has, however, declined by over 50 per cent. The relevant data are presented in Table 18.

7. Cotton

The irrigated cotton being very negligible at around one per cent of the total area, the analysis holds good only for the unirrigated cotton. Besides, the cotton tract is overwhelmingly confined to zones 7 and 8. About 90 per cent of the area is reported by medium, semi-medium and large holding groups together. In zone 7, the use of 'N' and complex is reported in all holding groups and the level has declined by 74 per cent for 'N' and 32 per cent for complex at the aggregate level. The level of decline for all fertilizers is higher at 87 per cent in marginal and 80 per cent in semi-medium holdings. Comparatively, smaller decreased level in the complex materials may be seen only in small and large holding groups. In zone 8, the level of all types of fertilizers has gone down by about 50 per cent in smaller holdings and 29 per cent in semi-medium group. In the case of medium and large holding groups, the 'N' has declined by 40-60 per cent range. Significantly enough, the level of complex use has registered an increase by 150 per cent in medium size and by 30 per cent in large holding group. At the aggregate level in this zone, the 'N' has declined by 52 per cent and the complex group has increased by 32 per cent in quantities. However, in money terms, the value has increased by 12.7 per cent for all the fertilizers together, even though the physical

Table 18
Zonewise & Holdingwise Changes In The Per Hectare Consumption Of Fertiliser
CROP : Groundnut

V : VALUE in 10's of Rs. 1 : NITROGEN 2 : PHOSPHORUS 3 : POTASH 4 : COMPLEX MIXTURE

Contd.

Table 18 (Contd)
Zonewise & Holdingwise Changes In The Per Hectare Consumption Of Fertilisers
CROP : Groundnut

Q : QUANTITY in Kg.

V : VALUE in 10's of

. . . } : NITROGE

2 : PHOSPHORU

3 : POTAS

4 : COMPLEX MIXTURE

quantity has gone down by six per cent. The relevant data are presented in Table 19.

Table 49
Zonewise & Holdingwise Changes In The Per Hectare Consumption Of Fertilisers
CROP : Cotton

Q : QUANTITY in Kg. V : VALUE in 10's of Rs. 1 : NITROGEN 2 : PHOSPHORUS 3 : POTASH 4 : COMPLEX MIXTURE

Contd.

Table 19 (Contd)

Zonewise & Holdingwise Changes In The Per Hectare Consumption Of Fertilisers

CROP : Cotton

A-C ZONE	4.01 TO 6.00 Ha.												6.01 & ABOVE												TOTAL																				
	1			2			3			4			TOTAL			1			2			3			4			TOTAL			1			2			3			4			TOTAL		
	Q	V	Q	Q	V	Q	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V									
1	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
2	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
4	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
5	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
6	1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2	10.9	0.0	0.0	0.0	105.7	26.1	144.9	37.0	32.1	9.6	0.0	0.0	0.0	0.0	96.2	23.1	128.2	32.7	1	1	1	1	1	1	1	1	1	1	1					
	1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2	11.6	36.2	11.6	0.0	0.0	0.0	0.0	0.0	64.1	22.4	64.1	22.4	1	1	1	1	1	1	1	1	1	1	1					
	% CHANGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-100.0	-100.0	0.0	0.0	0.0	-66.7	-55.6	-75.0	-68.6	-100.0	-100.0	0.0	0.0	0.0	0.0	0.0	-33.3	-2.8	-50.0	-31.4	1	1	1	1	1	1	1	1	1	1	1				
7	1991-92	21.8	23.5	0.0	0.0	0.0	54.6	17.1	76.4	40.6	20.6	4.8	0.0	0.0																															

Reasons for Change in the Fertilizer Level

In the following is given a summary version of reasons given by some of the sample respondents to explain the reduction in the level of fertilizer use as compared to that of the previous kharif season. However, it may be stated here that the responses refer mostly to period prior to decontrol of fertilizers in the middle of August 1992, and since then, little fertilizer has been applied for the kharif crops. Besides, the response level is also not very high in view of difference and lack of understanding on the part of the respondents. In point of fact, only 16 respondents have stated that the price-hike has resulted in the lower levels of fertilizer inputs. This response is almost entirely confined to medium and large holding groups in zones VI and VII, the crops involved being sugarcane, bajra and red gram.

Among the other reasons, majority of farmers in all zones and size groups have merely stated that "given dosage is as practised locally." It is followed by other reasons such as "shortage of own funds," "no credit support," and "climatic condition." These reasons are offered by all the size holding groups in respect of all the major crops in the relevant zones.

WORKING OF SUBSIDY SYSTEM

Unfortunately, this concluding part of the inquiry could evoke only a sad commentary as the envisaged subsidy system practically proved a non-starter. The grandiose scheme, conceived to provide some monetary relief to marginal and small farmers against the fertilizer price-hike, has taken a long time for launching. The scheme envisaged to give one-time subsidy of Rs. 35 to marginal farmers and Rs. 70 to small farmers, during a period of 12 months, irrespective of crop, season and quantity of fertilizer purchased. The unpleasant part of the scheme being the stipulation that the payment of subsidy restricted to only those certified eligible farmers, who have had purchased the fertilizers only at the cooperative outlets and, that too, effective only to those who could preserve and produce the vouchers and cash receipts. Eventually, when the belated subsidiary scheme became operational, most of the farmers forfeited the benefit for want of cash receipts.

It is quite evident, on the basis of information made available by the State Government that what was ultimately disbursed as subsidy amounted to a paltry figure of Rs. 40 lakhs for the entire state. This is against a Central Government's sanction of Rs. 31.57 crores, out of which the State Government realised Rs. 7 crores. During 1991-92, the subsidy disbursed amounted to Rs. 18 lakhs approximately and

in the following months of 1992-93 kharif, it amounted to further Rs. 22 lakhs. The present scheme is since given up for the obvious reasons.

On the other hand, the present survey reveals that none of the target group among the sample farmers ever received any cash benefit under the scheme. Actually, about 91 per cent of the farmers report that normally they are given to use the fertilizers. The survey brings out the fact that 98.4 per cent of the sample farmers are not even aware of the Government's scheme of subsidy. Besides, about 25 per cent of the respondents are of the opinion that any such scheme must include private dealers as well so that beneficiaries would not be discriminated.

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