

Publication No. 852



GOVERNMENT OF HARYANA

**ECONOMICS OF FARMING
IN HARYANA
2005-2006**

**Issued by:
ECONOMIC AND STATISTICAL ORGANISATION
PLANNING DEPARTMENT, HARYANA
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PREFACE

The present report relates to the annual series on 'Economics of Farming in Haryana' and it refers to the agricultural year 2005-06 (July,2005 to June,2006).

This study provides comprehensive assessment regarding the annual gross income, expenditure and net income from cultivation under irrigated and unirrigated holdings. It also highlights impact of irrigation, cropping pattern, consumption of chemical fertilizers and use of improved agricultural machinery and farm equipments on the yield of various crops and cropping intensity. It also analysis the share of bullock and manual labour as well as machinery deployed in agricultural operations.

The study has revealed that the average gross income per hectare under peasant proprietorship holdings (which form 79% of total selected holdings) was Rs. 51657 and average net income of Rs. 28248 taken together from irrigated and unirrigated holdings where as the average gross and net income from peasant proprietorship-cum-tenancy holdings was Rs. 60590 and Rs. 26264 respectively.

The report has been prepared by Sh. Sumant Aggarwal, Research Officer under the supervision of Sh. R.N. Dalal, Dy. Economic and Statistical Adviser and overall guidance of Sh. Gaja Nand Aggarwal, Joint Economic and Statistical Adviser and Sh. O.P. Dhankhar, Additional Economic and Statistical Adviser. The assistance rendered by Sarvshri Jai Singh Malik, Assistant Research Officer, Baldev Singh, J.F.I. and Smt. Rajwanti, J.F.I., for scrutiny, compilation and tabulation of data is also acknowledged. Typing support was given by Smt. Kamlesh, Stenotypist.

The valuable assistance and active co-operation rendered by the selected cultivators who maintained the record of day-to-day operations in connection with cultivation of their respective holdings is also acknowledged.

I hope this issue will prove useful for the agricultural planners and research workers in the State who are interested in the development of rural economy.

Chandigarh

Dated : 15-02-2007

R.C. Sharma
Economic & Statistical Adviser
to Government, Haryana.

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CHAPTER - I INTRODUCTION

General

Agriculture holds the key to prosperity. Despite the decline in the share of agriculture to about one-fourth of Gross State Domestic Product, nearly two third of our population still depends on this sector for their livelihood. In terms of area, agriculture has already reached at a saturation level and almost all the available cultivable land in the state is under plough. Thus, there is hardly any scope to bring more area under cultivation. The agriculture production can only be increased through enhanced cropping intensity, change in cropping pattern, improvement in seeds of high yielding varieties, better cultivation practices and post harvest technology etc., State Govt. is trying to re-orient agriculture in this direction through various policy measures for increasing the production. Considering the importance of this sector, Agriculture wing of this organisation has been bringing out the annual publication "Economics of Farming" which provides useful information on various aspects of farm economy and is greatly helpful in the formulation and evaluation of agricultural development programmes and policies. The study is also highly useful in a small state which is endowed with the variations of soil, topography, climate, cropping pattern and irrigation.

The present report on "Economics of Farming in Haryana" relates to the agricultural year 2005-2006 and covers 234 selected holdings from all the districts of the state.

1.1 Objectives of the Study

The main objective of this study is to make an in-depth study of 'Economics of Farming' in Haryana and to work out the annual investment and net return per hectare under different types and size of holdings. In addition, this study also highlights the following aspects :

- (i) Input-output analysis of various crops.
- (ii) Income, expenditure and net return per hectare under the prevalent forms of cultivation i.e. peasant proprietorship and peasant proprietorship-cum-tenancy.
- (iii) Employment and utilisation of farm capital, manual labour and bullocks labour.

1.2 Method of Data Collection

The study is based on the data collected from the selected cultivators through District Statistical Agencies. Various farm operations were recorded by the selected cultivators in the prescribed registers. To ensure accuracy of data, the record maintained by the farmers regarding this study was supervised and checked both by the staff of Headquarter and the District Statistical Agencies. Each selected cultivator was paid an honorarium of Rs. 225/-per annum for maintaining farm accounts register during the year 2005-06.

1.3 Sampling Design

Multistage sampling design was adopted for conducting the annual field survey. The village was taken as a primary unit and the particular holding was ultimate unit of survey. The farm holdings in the villages have been selected purposively depending on the co-operation, willingness and capability of the cultivators in maintaining the day-to-day record of farm operations. As such, the results and conclusions arrived at in this report are based on the study of sample holdings and, therefore, cannot necessarily be taken to reflect the situation prevailing in the state as a whole.

1.4 Coverage

The study is comprehensive in nature and gives detailed account of 234 agricultural holdings. Out of these holdings, 206 holdings were irrigated, 8 unirrigated and the remaining 20 agricultural holdings were partly irrigated. Various characteristics of farm holdings such as size, tenancy, level of irrigation, area under various crops, agro-climatic conditions, intensity of cropping and yield per hectare have been analysed in the report. The economic impact of various inputs like (i) Manual labour, (ii) Bullock/Camel labour, (iii) Seeds (local and Improved varieties), (iv) Agricultural implements and machinery, (v) Farm yard manure and chemical fertilizers, (vi) Irrigation charges (abiyaana and tubewell charges) etc., (vii) Rent (actually paid) and (viii) Miscellaneous inputs e.g. payments made to artisans, cost of insecticides and pesticides etc. have been calculated and shown separately for irrigated and unirrigated areas. Similarly, gross income, expenditure and net income per hectare under peasant proprietorship and peasant proprietorship-cum-tenancy have been worked out to determine the profitability of farming. The holdings have been classified according to various size groups to facilitate group-wise comparison of different inputs and out puts of farm cultivators.

1.5 Agro-Climatic Zones

Haryana consists of different agro-climatic zones which are conducive for different variety of crops. To facilitate the analysis of data and to make the study more useful in planning and research for agricultural development, Haryana State has been divided into four homogeneous agro-climatic zones which are as under :-

Sr. No.	Zone	Districts included
1.	Northern	Panchkula, Ambala, Yamunanagar, Kurukshetra, Karnal, Panipat
2.	Central	Kaithal, Jind, Sonapat, Rohtak, Jhajjar
3.	Western	Bhiwani, Hisar, Fatehabad, Sirsa.
4.	Southern	Faridabad, Gurgaon, Rewari, Mahendragarh.

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CHAPTER – II

ANALYSIS OF FARM ACCOUNT HOLDINGS

2.0 General

This chapter deals with zone-wise and size group wise classification of all the 234 selected farm holdings, the prevalent land tenure system, the extent of irrigation, use of chemical fertilizer per hectare area under different crops and yield per hectare. The capital investment in agricultural machinery & equipment, tubewells & pumping sets has also been worked out along with the maintenance cost of the pair of bullocks. The Micro level data in respect of selected holdings has been presented in Appendices I to III

2.1 Number and size of farm holdings

The zone-wise number of selected farm holdings, total cultivated area and average size of holdings is presented in the table given below.

Table 2.1 Zone-wise number and average size of selected holdings

Sr.No.	Zone	No. of farm holdings	Total cultivated area of farm holdings (hectares)	Average size of holdings (hectares)
1	2	3	4	5
1.	Northern	64 (27.35)	269.66 (31.32)	4.21
2.	Central	58 (24.79)	157.82 (18.33)	2.72
3.	Western	62 (26.49)	243.39 (28.27)	3.92
4.	Southern	50 (21.37)	190.10 (22.08)	3.80
	Total	234 (100.00)	860.97 (100.00)	3.68

Note : Figures in brackets indicate percentage to total.

Table 2.1 shows that the total cultivated area of all 234 selected holdings was 860.97 hectares with an average size of holdings of 3.68 hectares. The average size of holdings was the highest 4.21 hectare in Northern zone and the lowest 2.72 hectares in central zone. It may, however, be pointed out that the average size of holdings does not represent the average size of holdings in the state as the selection of farm holdings was purposive in character.

2.2 Land Tenure Systems

There are two types of land tenure systems prevalent in the State i.e. (i) peasant proprietorship where a peasant cultivates his own land with the help of his own family members or hired labourers, (ii) peasant proprietorship-cum-tenant where a farmer cultivates his own land alongwith some land either on rent (cash) or on batai (kind) with the help of his own family members or hired labourers so as to make the cultivation of holding economically viable.

The classification of selected holdings according to prevailing land tenure systems in the different zones is given in Table 2.2.

Table 2.2 Zone-wise classification of farm holdings under peasant proprietorship and peasant proprietorship-cum-tenancy system

Zone	Peasant proprietorship		Peasant proprietorship - cum-tenancy		Total	
	No. of holdings	Area (hectares)	No. of holdings	Area (hectares)	No. of holdings	Area (hectares)
1	2	3	4	5	6	7
Northern	43 (67.19)	172.79 (64.08)	21 (32.81)	96.87 (35.92)	64 (27.35)	269.66 (31.32)
Central	48 (82.76)	124.52 (78.90)	10 (17.24)	33.30 (21.10)	58 (24.79)	157.82 (18.33)
Western	52 (83.87)	213.29 (87.63)	10 (16.13)	30.10 (12.37)	62 (26.49)	243.39 (28.27)
Southern	41 (82.00)	142.70 (75.07)	9 (18.00)	47.40 (24.93)	50 (21.37)	190.10 (22.08)
Total	184 (78.63)	653.30 (75.88)	50 (21.37)	207.67 (24.12)	234 (100.00)	860.97 (100.00)

Note : Figures in brackets show the percentage to the total number of holdings and total area.

Table 2.2 shows that out of total 860.97 hectares 653.30 hectares (75.88%) belonged to the peasant proprietor cultivators and remaining 207.67 hectares (24.12%) was covered under peasant proprietor-cum-tenant holdings. The peasant proprietor-cum-tenants are represented by small and marginal farmers who had to supplement their holdings by taking land on rent/batai in cash or kind so as to make the cultivation of holding economically viable.

2.3 Classification of cultivated area of selected holdings

Classification of area of the selected holdings under different size groups and land tenure systems is given in the following table :-

Table 2.3 : Classification of selected holdings according to size and land tenure systems
(Area in hectares)

Size of holdings	Peasant proprietorship		Peasant proprietorship-cum-tenancy				Total		
	No. of holdings	Area	No. of holdings	Owned	Rented (Cash)	Batai (Kind)	Total area	No. of holdings	Area
1	2	3	4	5	6	7	8	9	10
Below 2.0	48	65.25	7	4.79	3.22	0.80	8.81	55 (23.50)	74.06 (8.60)
2.0-4.0	80	219.42	22	38.89	20.95	1.20	61.04	102 (43.59)	280.46 (32.58)
4.0-7.5	41	214.63	17	45.72	43.60	5.20	94.52	58 (24.79)	309.15 (35.91)
7.5 - 10.0	8	66.00	3	12.90	10.40	-	23.30	11 (4.70)	89.30 (10.37)
10.0 & above	7	88.00	1	16.00	4.00	-	20.00	8 (3.42)	108.00 (12.54)
Total	184 (78.63)	653.30 (75.88)	50 (21.37)	118.30	82.17	7.20	207.67 (24.12)	234 (100.00)	860.97 (100.00)

Note : Figures in brackets show the %ages to the total number of holdings and total area.

It may be seen from Table 2.3 that out of total 234 farm holdings, 184 holdings (78.63%) and 50 holdings (21.37%) were under peasant proprietorship & peasant proprietorship-cum-tenancy having an area of 653.30 hectares (75.88%) & 207.67 hectares (24.12%), respectively. It may also be inferred from the table that the maximum (43.59%) concentration of holdings was in the size group of 2.0-4.0 hectares and the minimum (3.42%) in the size group of 10.0 & above hectares. A majority of the holdings i.e. 68.38% were in the size groups of 2.0-4.0 & 4.0-7.5 hectares whereas 23.50% of the holdings belonged to the smallest size group of below 2.0 hectares. The remaining 8.12% holdings were in the size group of 7.5-10.0 and 10.0 hectares and above during the year 2005-06.

Table 2.4 : Number of holdings by extent of irrigation.

Zone	Total number of selected holdings	Irrigated holdings	Unirrigated holdings	Partly irrigated holdings			
				Below 25%	25% to 50%	50% to 75%	75% to 100%
1	2	3	4	5	6	7	8
Northern	64	60	1	-	-	1	2
Central	58	49	-	-	1	4	4
Western	62	56	2	-	2	1	1
Southern	50	41	5	-	-	1	3
Total	234	206 (88.03)	8 (3.42)	-	3 (1.28)	7 (2.99)	10 (4.28)

Table 2.4 shows that out of total 234 holdings, maximum number of holdings i.e. 206 holdings (88.03%) were wholly irrigated as many as 8 holdings (3.42%) were totally unirrigated and the remaining 20 holdings (8.55%) were partly irrigated.

Irrigation

Irrigation is a vital input to increase agricultural production. The state has limited water resources viz canal as well as under ground water. The State Governments in its plans accords high priority to the provision of adequate irrigation facilities.

Irrigated/Unirrigated area of selected holdings

The zone wise total cultivated area, irrigated and unirrigated area of the selected holdings is presented in the table given below.

Table 2.4 (a) Zone-wise irrigated/unirrigated area of the selected holdings.

Zone	Total cultivated area of all selected holdings	Irrigated area	Unirrigated area	Area irrigated/unirrigated as percentage of the total cultivated area	
				Irrigated	Unirrigated
1	2	3	4	5	6
Northern	269.66	267.85	1.81	99.33	0.67
Central	157.82	150.22	7.60	95.18	4.82
Western	243.39	226.19	17.20	92.93	7.07
Southern	190.10	160.90	29.20	84.64	15.36
Total	860.97	805.16	55.81	93.52	6.48

It may be observed from the above table that 93.52 percent of the cultivated area was under irrigation whereas only 6.48 percent area was found unirrigated during agricultural year 2005-06. The maximum of 99.33% of the total cultivated area in Northern zone was found under irrigation. Where as it was the minimum of 84.64 in the Southern zone.

2.5 Classification of holdings by number and extent of irrigation in different size groups

The classification of holdings by number and extent of irrigation in different size groups is given in Table 2.5.

Table 2.5 : Classification of holding by number/area and level of irrigation in different size groups.

Size of holdings (hectares)	Total number of holdings	Total area of all selected holdings	Wholly irrigated holdings/area		Partly irrigated holdings/area		Wholly unirrigated holdings/area		
			No.	Area	No.	Area	No.	Area	
									Irri.
1	2	3	4	5	6	7	8	9	10
Below 2.0	55	74.06	46	61.65	4	3.40	1.80	5	7.21
2.0-4.0	102	280.46	94	256.72	7	15.74	4.40	1	3.60
4.0-7.5	58	309.15	51	273.45	6	19.30	9.80	1	6.60
7.5-10.0	11	89.30	9	72.90	1	7.20	0.80	1	8.40
10.0 & above	8	108.00	6	82.40	2	12.40	13.20	-	-
Total	234	860.97	206	747.12 (86.78)	20	58.04 (6.74)	30.00 (3.48)	8	25.81 (3.00)

Not:- Figures in brackets show the percentages to the total number of holdings and total area.

It may be seen from Table 2.5 that out of total 234 holdings as many as 102 holdings were in the size group of 2.0-4.0 hectares having a total area of 280.46 hectares, 58 holdings were in the size group of 4.0-7.5 hectares with an area of 309.15 hectares. Whereas only 8 holdings belonged to the size group of 10.0 hectares & above. The table further reveals that 86.78 percent and 10.22 percent of the total area was found fully irrigated or partly irrigated during the year 2005-06 and the remaining 3.00 percent area had no irrigation facility.

2.6 Area under different crops (Irrigated and Unirrigated holdings)

Zone-wise and crop-wise distribution of irrigated/unirrigated area of selected holdings is given in Table 2.6 (a) and 2.6 (b), respectively.

Table 2.6 (a) Zone-wise and crop-wise distribution of irrigated area of selected holdings

Crops	(Area in hectares)					Total
	Northern	Central	Western	Southern		
1	2	3	4	5	6	
I. Cereals						
Paddy	173.38	77.94	32.40	15.40	299.12	(20.59)
Bajra	-	14.60	31.35	49.80	95.75	(6.59)
Maize	6.08	-	-	-	6.08	(0.42)
Wheat	168.99	119.60	156.25	87.20	532.04	(36.62)
Barley	-	0.60	3.30	4.15	8.05	(0.55)
Total Cereals	348.45	212.74	223.30	156.55	941.04	(64.77)
II Pulses						
Gram	0.40	0.10	6.20	1.60	8.30	(0.57)
Other pulses	0.40	4.40	-	6.00	10.80	(0.74)
Total pulses	0.80	4.50	6.20	7.60	19.10	(1.31)
III. Cash crops						
Oilseeds (Rape & Mustard)	11.48	12.60	41.95	48.40	114.43	(7.88)
Sugarcane	63.30	8.20	-	0.20	71.70	(4.94)
Cotton (Desi)	-	5.80	13.55	2.40	21.75	(1.50)
Cotton (American)	-	-	83.80	-	83.80	(5.77)
Total cash crops	74.78	26.60	139.30	51.00	291.68	(20.09)
IV. Green Fodder	39.91	36.24	27.06	12.15	115.36	(7.94)
V. Other crops	14.15	7.40	38.08	26.00	85.63	(5.89)
Total of all crops	478.09	287.48	433.94	253.30	1452.81	(100.00)

Note: Figures in brackets indicate percentages to total.

Table 2.6 (b) Zone-wise and crop-wise distribution of unirrigated area of selected holdings

		(Area in hectares)				
Crops	Northern	Central	Western	Southern	Total	
1	2	3	4	5	6	
I. Cereals						
Paddy	-	-	-	-	-	
Bajra	-	0.80	6.80	6.40	14.00 (18.32)	
Maize	1.41	-	-	-	1.41 (1.85)	
Wheat	1.21	1.20	-	12.80	15.21 (19.90)	
Barley	-	0.80	-	1.00	1.80 (2.35)	
Total Cereals	2.62	2.80	6.80	20.20	32.42 (42.42)	
II. Pulses						
Gram	-	-	10.80	4.60	15.40 (20.15)	
Other pulses	0.10	-	-	0.40	0.50 (0.65)	
Total pulses	0.10	-	10.80	5.00	15.90 (20.80)	
III. Cash crops						
Oilseeds (Rape & Mustard)	0.20	4.60	-	6.80	11.60 (15.18)	
Sugarcane	-	-	-	-	-	
Cotton (Desi)	-	-	-	-	-	
Cotton (American)	-	-	-	-	-	
Total cash crops	0.20	4.60	-	6.80	11.60 (15.18)	
IV. Green Fodder	0.10	0.80	-	5.60	6.50 (8.51)	
V. Other crops	-	-	8.80	1.20	10.00 (13.09)	
Total of all crops	3.02	8.20	26.40	38.80	76.42 (100.00)	

Note: Figures in brackets indicate percentages to total

It may be observed from the foregoing Tables 2.6 (a) and 2.6 (b) that the total irrigated and unirrigated area of all crops was 1452.81 hectares and 76.42 hectares, respectively.

The percentage of irrigated area under wheat was the highest (36.62) followed by paddy 20.59, oilseeds 7.88 and green fodder 7.94. It may also be seen that the highest (478.09 hectares) irrigated area of all crops was observed in northern zone whereas it was lowest (253.30 hectares) in the southern zone. It may also be seen that southern zone had maximum (38.80 hectares) unirrigated area. Whereas it was minimum (3.02 hectares) in northern zone.

The cropping pattern in unirrigated areas was found to be different than that of the irrigated areas. In case of unirrigated areas, the percentage of area under Gram was the highest (20.80) followed by Wheat (19.90), Oilseeds (15.18) & bajra (18.32).

2.7 Intensity of Cropping

The choice and scope of various crops is determined by assured irrigation facilities and availability of improved high yielding varieties of seeds and other inputs. The cropping intensity is defined as the total cropped area as a percentage to net area sown. The total cropped area under various crops of selected holdings alongwith percentage of irrigated area and intensity of cropping are presented in Tables 2.7 (a) & 2.7 (b) respectively.

Table 2.7 (a) Area under different crops and crop-wise percentages of irrigated area to the total cropped area.

Sr.No.	Crops	Total cropped area (Irrigated & unirrigated)	Percentage to total cropped area	(Area in hectares)	
				Irrigated area	%age of irrigated area to total cropped area
1	2	3	4	5	6
1.	Paddy	299.12	19.56	299.12	100.00
2.	Bajra	109.75	7.18	95.75	87.24
3.	Maize	7.49	0.49	6.08	81.17
4.	Wheat	547.25	35.79	532.04	97.22
5.	Barley	9.85	0.64	8.05	81.73
6.	Gram	23.70	1.55	8.30	35.02
7.	Other Pulses	11.30	0.74	10.80	95.58
8.	Oilseeds (Rape & Mustard)	126.03	8.24	114.43	90.80
9.	Sugarcane	71.70	4.69	71.70	100.00
10.	Cotton Desi	21.75	1.42	21.75	100.00
11.	Cotton American	83.80	5.48	83.80	100.00
12.	Green Fodder	121.86	7.97	115.36	94.67
13.	Other Crops	95.63	6.25	85.63	89.54
	Total	1529.23	100.00	1452.81	95.00

It may be observed from the above table that the percentage of area under wheat was the highest 35.79, followed by paddy 19.56, Oilseeds (Rape & Mustard) 8.24, Green fodder 7.97 whereas only 0.49 percent area was under maize. The area under paddy, sugarcane, and cotton (desi & american) was fully irrigated where as 97.22% of the area under wheat & 95.58% of the area under pulses was found irrigated.

The intensity of cropping in irrigated and unirrigated areas of all the four agroclimatic zones has been worked out in the following table:-

Table 2.7 (b) Zone-wise intensity of cropping under irrigated and unirrigated areas

Zone	Percentage of intensity		Total
	Irrigated	Unirrigated	
1	2	3	4
Northern	178.49	166.85	178.41
Central	191.40	107.89	187.35
Western	191.85	152.33	189.14
Southern	157.43	132.88	153.66
Overall intensity	180.44	136.93	177.62

The average intensity of cropping in the irrigated and unirrigated areas was 180.44 and 136.93, respectively. The western zone recorded the highest intensity of 191.85 whereas it was the lowest of 157.43 in southern zone on irrigated land. In case of unirrigated land, the intensity of cropping was highest 166.85 in northern zone and lowest 107.89 in central zone. The overall intensity was 177.62% for irrigated and unirrigated areas.

2.8 Output per hectare

The average yield per hectare of sugarcane was 63989 kgs, paddy 4705 kgs, wheat 3966 kgs, barley 2683 kgs, oilseeds 1544 kgs, respectively in irrigated areas. The average yield in unirrigated areas under wheat, oilseeds and barley was 2229 kgs., 1192 kgs., 1167 kgs., respectively. Zone-wise yield per hectare of different crops in irrigated and unirrigated land is given in Table 2.8 (a) & 2.8 (b), respectively.

Crop	Irrigated	Unirrigated
Sugarcane	63989	-
Paddy	4705	-
Wheat	3966	2229
Barley	2683	1167
Oilseeds	1544	1192
Total	74887	4595

It may be observed from the above table that the percentage of area under wheat, the highest 55.79 followed by paddy 38.85, Oilseeds (30.00) & Mustard (8.54). Green fodder (1.81) whereas only 0.49 percent area was under maize. The area under paddy, sugarcane and cotton (bar & mandarin) was fully irrigated whereas 21.22% of the area under wheat & 62.58% of the area under pulses was found irrigated.

Table 2.8 (a) Zone-wise yield per hectare of different crops under irrigated areas during 2005-2006

		(In Kgs.)				
Sr.No.	Crops	Northern	Central	Western	Southern	Average yield
1	2	3	4	5	6	7
A-Cereals						
1.	Paddy	4705	4343	5546	4772	4705
2.	Wheat (Grain)	3891	4108	4055	3756	3966
3.	Wheat (Bhusa)	3375	3886	4028	3735	3741
4.	Bajra (Grain)	-	1616	1266	1349	1363
5.	Maize (Grain)	1859	-	-	-	1859
6.	Barley (Grain)	-	1500	2212	3229	2683
7.	Barley (Bhusa)	-	1333	2212	2699	2398
B-Pulses						
1.	Gram (Grain)	1250	1000	742	813	783
2.	Gram (Bhusa)	-	1000	742	688	699
3.	Other Pulses (Grain)	1500	1386	-	833	1111
C-Cash Crops						
1.	Oilseeds (Rape & Mustard)	1794	1365	1304	1740	1544
2.	Sugarcane	69101	36879	-	-	63989
3.	Cotton (Desi & American)	-	1466	1403	417	1384

Table 2.8 (b) Zone-wise yield per hectare of different crops under unirrigated areas during 2005-06

		(In Kgs.)				
Sr.No.	Crops	Northern	Central	Western	Southern	Average yield
1	2	3	4	5	6	7
A-Cereals						
1.	Paddy	-	-	-	-	-
2.	Wheat (Grain)	1240	2083	-	2203	2229
3.	Wheat (Bhusa)	1240	2083	-	1688	2117
4.	Bajra (Grain)	1125	-	-	1140	1139
5.	Maize (Grain)	180	-	-	-	780
6.	Barley (Grain)	-	750	-	1500	1167
7.	Barley (Bhusa)	-	750	-	1500	1167
B-Pulses						
1.	Gram (Grain)	-	-	-	304	304
2.	Gram (Bhusa)	-	-	-	304	304
3.	Other Pulses (Grain)	-	-	-	-	-
C-Cash Crops						
1.	Oilseeds (Rape & Mustard)	-	1043	-	1294	1192
2.	Sugarcane	-	-	-	-	-
3.	Cotton (Desi and American)	-	-	-	-	-

2.9 Capital investment in farm, agricultural machinery and equipments

The capital investment has been classified into two broad heads i.e. (a) investment to improve the farm and (b) investment in agricultural machinery and equipments.

(a) The capital investment in farm includes the following :-

- (i) Investment in land such as reclamation, improvement, fencing, terracing and bunding etc.
- (ii) Construction and maintenance of farm buildings, comprising of cattlesheds, tractor sheds, godown and stores etc. (excluding investment in dwelling houses).
- (iii) Acquisition and maintenance of drought animals.

(b) Capital investment in agricultural machinery and equipments includes the following :-

- (i) Agricultural implements and machinery including tractors with accessories, bar harrow, thrasher, cart, iron plough, cane crusher, chaff cutter and gur boiling pan etc.
- (ii) Installation of tubewells / pumping sets and sinking of wells. It also includes the cost of construction and remodeling of kacha and pucca water courses.

Zone-wise details of capital investment in farm and agricultural machinery/equipments are given in Table 2.9 (a)

Table 2.9 (a) Capital investment in farm agricultural machinery and equipments

Items	(In Rs.)				
	Northern	Central	Western	Southern	Total
1	2	3	4	5	6
A-Farm					
(i) Farm buildings, cattlesheds & other structures	1203835 (28.67)	778244 (33.01)	394616 (22.50)	269072 (9.63)	2645767 (23.83)
(ii) Drought animals (including its acquisition)	68546 (1.63)	49350 (2.09)	80016 (4.56)	14520 (0.52)	212432 (1.91)
Total-A	1272381 (30.30)	827594 (35.10)	474632 (27.06)	283592 (10.15)	2858199 (25.74)
B-Agricultural machinery					
(i) Tubewells/pumping sets	1099016 (26.18)	377512 (16.01)	528208 (30.11)	581832 (20.82)	2586568 (23.29)
(ii) Machinery and equipments	1827163 (43.52)	1152576 (48.89)	751476 (42.83)	1928640 (69.03)	5659855 (50.97)
Total - B	2926179 (69.70)	1530088 (64.90)	1279684 (72.94)	2510472 (89.85)	8246423 (74.26)
Grand Total (A+B)	4198560 (100.00)	2357682 (100.00)	1754316 (100.00)	2794064 (100.00)	11104622 (100.00)
Investment per hectare	15570	14939	7208	14698	12898

The perusal of the table shows that the total capital investment on farm buildings and drought animals was 25.74% against 74.26% capital investment on Tubewells/pumping sets and machinery & equipments. The capital investment in farm was the highest (35.10%) in central zone whereas it was lowest (10.15%) in southern zone during the year 2005-06. Similarly, in case of agricultural machinery, capital investment ranged between 65% to 90% in different zones. The overall capital investment per hectare was worked out to Rs. 12898.

The percentage investment made in various types of agricultural machinery and equipment, tubewells/pumping sets of selected holdings is shown in Table 2.9 (b).

Table 2.9 (b) Capital investment in agricultural machinery and equipments and tubewells/ pumping sets

Sr. No.	Implements	Investment (In Rs.)	Percentage
1	2	3	4
1.	Tractor with accessories	4596816	55.74
2.	Tubewells/pumping sets	2586568	31.37
3.	Thrashers	281584	3.42
4.	Carts	102296	1.24
5.	Chaff cutters	131040	1.59
6.	Bar harrows	286320	3.47
7.	Iron ploughs	4464	0.05
8.	Rollers	12656	0.15
9.	Seed drills	59500	0.72
10.	Gur boiling pans	-	-
11.	Cane crashers	-	-
12.	Miscellaneous (Triphali-Sohaga, Spray pumps etc.)	185179	2.25
	Total	8246423	100.00

It may be observed from the above table that investment on tractor with accessories was 55.74% of the total capital investment on agricultural machinery and equipments followed by 31.37% on tubewells/pumping sets, 3.42% on thrashers, 3.47% on bar harrows and 1.59% on chaff cutters, respectively. The rest of the implements accounted for 4.41% of the total capital investment on agricultural machinery and equipments.

2.10 Use of chemical fertilizers

The study of farm accounts also reveals the extent of chemical fertilizers used as an input in the adoption of improved agricultural practices.

It has been observed that all the selected holding were found using chemical fertilizers during the year 2005-06. Crop-wise area of the selected holdings where chemical fertilizers were used is presented in the following table :-

Table 2.10 Total crop-wise area of holdings where chemical fertilizers were used

(Area in hectares)

Sr. Crops No.	Irrigated			Unirrigated			
	Total cropped area	Area under chemical fertilizers	% age of col.4 to col.3	Total cropped area	Area under chemical fertilizers	% age of col.7 to col.6	
1	2	3	4	5	6	7	8
1. Paddy	299.12	299.12	100.00	-	-	-	-
2. Bajra	95.75	76.35	79.74	14.00	3.20	22.86	
3. Maize	6.08	6.08	100.00	1.41	1.21	85.82	
4. Wheat	532.04	530.04	99.62	15.21	15.21	100.00	
5. Barley	8.05	8.05	100.00	1.80	1.80	100.00	
6. Sugarcane	71.70	71.70	100.00	-	-	-	
7. Cotton (Desi)	21.75	19.35	88.97	-	-	-	
8. Cotton(American)	83.80	83.80	100.00	-	-	-	
9. Oilseeds (Rape & Mustard)	114.43	110.73	96.77	11.60	8.60	74.14	
10. Green fodder	115.36	104.37	90.47	6.50	5.60	85.15	
11. Other crops	85.63	45.79	53.48	10.00	7.50	75.00	
Total	1433.71	1355.35	94.53	60.52	43.12	71.25	

The data given in Table 2.10 reflects that the percentage of area under chemical fertilizers in the irrigated holdings was the highest (100%) in case of paddy, maize, barley sugarcane & cotton american, followed by wheat (99.62%), oilseeds (96.77%), cotton desi (88.97%) and bajra (79.74%). In case of unirrigated holdings, the chemical fertilizer was found being used in the entire area under wheat and barley. Where as it was being put in 85.82% of area under maize, 85.15% of the area under green fodder and 22.86% of area under bajra.

2.11 Consumption of chemical fertilizers per hectare

The use of chemical fertilizers varied considerably in irrigated and unirrigated holdings. In irrigated areas, the consumption of chemical fertilizers depends on the soil texture and the extent of irrigation facilities available. The consumption of chemical fertilizers per hectare under different crops is given in Table 2.11.

Table 2.11 Consumption of chemical fertilizers per hectare under various crops during the year 2005-06

Sr. No.	Crops	Irrigated			Unirrigated		
		Area under chemical fertilizers (hectares)	Total quantity of fertilizers used (kgs.)	Quantity per hect. (kgs.)	Area under chemical fertilizers (hectares)	Total quantity of fertilizers used (kgs.)	Quantity per hect. (kgs.)
1	2	3	4	5	6	7	8
1.	Paddy	299.12	75825	253.49	-	-	-
2.	Bajra	76.35	9855	129.08	3.20	400	125.00
3.	Maize	6.08	970	159.54	1.21	100	82.65
4.	Wheat	530.04	113873	214.84	15.21	1800	118.34
5.	Barley	8.05	1250	155.28	1.80	200	111.11
6.	Sugarcane	71.70	19435	271.06	-	-	-
7.	Cotton (Desi)	19.35	24950	128.94	-	-	-
8.	Cotton (American)	83.80	12799	152.73	-	-	-
9.	Oilseeds (Rape & Mustard)	110.73	14425	130.27	8.60	1086	126.28
10.	Green fodder	104.37	10922	104.65	5.60	700	125.00
11.	Other crops	45.79	6775	147.96	7.50	800	106.67
Total		1355.35	291079	214.76	43.12	5086	117.95

It may be seen from the above table that the consumption of chemical fertilizer per hectare in irrigated areas was highest in areas under sugarcane (271.06Kg) followed by paddy (253.49 Kg), wheat (214.84 Kg), maize (160.33 Kg), barley (155.28Kg) & Cotton American (152.73 Kg).

In unirrigated areas, the consumption of fertilizer per hectare was highest in areas under oilseeds (126.28 Kg) followed by bajra (125.00 Kg), wheat (118.34 Kg) and barley (111.11 Kg) overall, the consumption of fertilizer per hectare was 214.76 Kg in irrigated area where as it was 117.95 Kg in unirrigated area.

2.12 Operated area per permanent agricultural worker under different types of holdings

The operated area per permanent agricultural worker in various types of holdings in different zones is given below:-

Zone	Operated area per permanent agricultural worker (hectares)	Zone	Operated area per permanent agricultural worker (hectares)
1	0.875	4	0.875
2	0.875	5	0.875
3	0.875	6	0.875
7	0.875	8	0.875
9	0.875	10	0.875
11	0.875	12	0.875

Table 2.12 Zone-wise operated area per permanent agricultural worker in various types of holdings (Area in hectares)

Particulars	Northern	Central	Western	Southern	Total
	2	3	4	5	
A Totally irrigated holdings					
(i) Area	261.51	132.32	207.39	145.90	747.12
(ii) No. of agricultural workers	134	148	187	143	612
(iii) Operated area per agricultural worker	1.95	0.89	1.11	1.02	1.22
B Partly irrigated holdings					
(i) Area	6.94	25.50	32.80	22.80	88.04
(ii) No. of agricultural workers	9	28	13	13	63
(iii) Operated area per agricultural worker	0.77	0.91	2.52	1.75	1.40
C Unirrigated holdings					
(i) Area	1.21	-	3.20	21.40	25.81
(ii) No. of agricultural workers	3	-	4	17	24
(iv) Operated area per agricultural worker	0.40	-	0.80	1.26	1.08
Total holdings					
(i) Area	269.66	157.82	243.39	190.10	860.97
(ii) No. of agricultural workers	146	176	204	173	699
(iii) Operated area per agricultural worker	1.85	0.90	1.19	1.10	1.23

The perusal of Table 2.12 shows that the total operated area per permanent agricultural worker was 1.23 hectares. The operated area per agricultural worker in case of totally irrigated, partly irrigated and unirrigated holdings was 1.22, 1.40 and 1.08 hectares, respectively during 2005-06. The table further indicates that the northern zone claimed the largest operated area i.e. 1.85 hectares per agricultural worker, whereas central zone claimed the smallest area of 0.90 hectares.

2.13 Wages of agricultural workers

The prevalent average annual/daily wages of a permanent/casual agricultural worker in the four agro-climatic zones is shown in the following table:-

Table 2.13 Zone-wise wages of a permanent and casual agricultural worker during 2005-06

Zone	wages paid (In Rs.)	
	Annually (**)	Daily (*)
	(Permanent)	(Casual)
1	2	3
Northern	21769	91
Central	22010	105
Western	20254	101
Southern	21210	100
Average	21311	99

* Exclusive of meal, tea, tobacco charges etc.

** Inclusive of meals, tea, tobacco charges etc.

The data given in Table 2.13 shows that during the year 2005-06, total wages paid to a permanent worker for various agricultural operations worked out to Rs. 21311. Besides, the permanent worker was also given meals, tea, tobacco etc. The daily wages paid to an agricultural worker (casual/hired) excluding daily perks like meals, tea and tobacco were Rs. 99. The daily wages paid to the agricultural worker was the highest (Rs. 105) in central zone and the lowest (Rs. 91) in northern zone.

2.14 Operated area per plough under various types of holdings

The operated area per plough (Bullocks, Camels and Tractors) during the year 2004-05 under different types of holdings based on irrigation facilities in different zones is given in the following table :-

Table 2.14 Zone-wise operated area per plough under different types of holdings (Bullocks, Camels and Tractors) during the year 2005-06

Item 1	(Area in hectares)				
	Northern 2	Central 3	Western 4	Southern 5	Total 6
A Totally Irrigated holdings					
(i) Area	261.51	132.32	207.39	145.90	747.12
(ii) No. of plough	301	136	167	209	813
(iii) Operated area per plough	0.89	0.97	1.24	0.70	0.92
B Partly irrigated holdings					
(i) Area	6.94	25.50	32.80	22.80	88.04
(ii) No. of plough	2	14	18	17	51
(iii) Operated area per plough	3.47	1.82	1.82	1.34	1.72
C Unirrigated holdings					
(i) Area	1.21	-	3.20	21.40	25.81
(ii) No. of plough	2	-	-	12	14
(iii) Operated area per plough	0.61	-	-	1.78	1.84
Total holdings					
(i) Area	269.66	157.82	243.39	190.10	860.97
(ii) No. of plough	305	150	185	238	878
(iii) Operated area per plough	0.88	1.05	1.32	0.80	0.98

Note :- One Tractor = 8 Pair of Bullocks
One Camel = 1 Pair of Bullocks

It is revealed from the above table that the operated area per plough during the year 2005-06 taking into account both animal and tractor power worked out to 0.98 hectares. The operated area per plough was highest (1.84 hectares) in case of unirrigated holdings.

The area per plough in western zone was found to be maximum (1.32 hectares) where as it was minimum (0.80 Hectares) in southern zone.

2.15 Number of working days per plough under different types of holdings

The zone wise number of working days per plough under various types of holdings has been worked out in the table 2.15 given below:

Table 2.15 Number of working days per plough under various types of holdings during 2005-06

Type of holdings	Northern	Central	Western	Southern	Total
1	2	3	4	5	6
A Totally irrigated holdings					
(i) No. of working days	14515	7106	8762	12598	42981
(ii) No. of plough	301	136	167	209	813
(iii) No. of working days per plough	48	52	53	60	53
B Partly irrigated holdings					
(i) No. of working days	98	810	955	835	2698
(ii) No. of plough	2	14	18	17	51
(iii) No. of working days per plough	49	58	53	49	53
C Unirrigated holdings					
(i) No. of working days	79	-	-	490	569
(ii) No. of plough	2	-	-	12	14
(iv) No. of working days per plough	40	-	-	41	41
D Total (A+B+C)					
(i) No. of working days	14692	7916	9717	13923	46248
(ii) No. of plough	305	150	185	238	878
(iii) No. of working days per plough	48	53	53	59	53

The above table reveals that on an average, a cultivator worked with his plough for 53 days during the year 2005-06. Number of working days per plough in totally irrigated holdings was 53 where as it was found to be 41 only in case of unirrigated holdings.

2.16 Maintenance cost per pair of bullocks

The break-up of maintenance cost per pair of bullocks is shown in Table 2.16.

Table 2.16 Zone-wise break up of the maintenance cost per pair of bullocks during 2005-06

(In Rs.)

Sr.No.	Item	Northern	Central	Western	Southern	Overall average
1	2	3	4	5	6	7
1	Fodder	4426 (37.80)	3982 (36.37)	4168 (37.44)	4075 (32.44)	4163 (35.92)
2	Concentrates	1398 (11.94)	1630 (14.89)	2025 (18.19)	2314 (18.42)	1842 (15.89)
3	Upkeep labour	4323 (36.92)	3895 (35.58)	3656 (32.84)	4833 (38.47)	4177 (36.04)
4	Interest & depreciation on capital cost	277 (2.37)	191 (1.74)	310 (2.78)	578 (4.60)	339 (2.93)
5	Housing (Cattleshed)	1094 (9.35)	1081 (9.88)	831 (7.46)	602 (4.79)	902 (7.78)
6	Medical care & miscellaneous	190 (1.62)	168 (1.54)	144 (1.29)	160 (1.28)	166 (1.44)
	Total	11708 (100.00)	10947 (100.00)	11134 (100.00)	12562 (100.00)	11589 (100.00)

It may be observed from Table 2.16 that average maintenance cost per pair of bullocks during 2005-06 was Rs. 11589. The expenditure on fodder and concentrates taken together formed 51.81% of the total maintenance cost. The percentage of upkeep labour and interest on capital investment on bullocks was 36.04 and 2.93, respectively. The expenditure on housing (cattleshed) and medical care was merely 7.78% and 1.44%, of the maintenance cost respectively. It was found to be maximum of Rs. 12562 in southern zone and minimum of Rs. 10947 in central zone.

Gross income is the total value of the farm produce whether consumed at home or sold in the market, paid in kind as wages to farm labourers or disposed of in any other way. It consists of the cash value of the produce actually sold and the value of remaining produce estimated at current prices prevalent in the village. Crop-wise average gross of the various crops under irrigated and unirrigated holdings has been worked out for each zone separately. The average crop-wise gross income under irrigated and unirrigated holdings has been shown in Tables 3 (a) and 3 (b), respectively.

Table 3.1 (a). Zone-wise average gross income per hectare from different crops in irrigated holdings during 2005-06

Sl. No. Crops	Zone				Overall average
	North	Central	Western	Southern	
	1	2	3	4	5
1. Paddy	31885	28384	49508	32143	34321
2. Wheat (Grain)	32328	36884	32088	28280	32321
3. Wheat (Straw)	4828	4122	8824	2921	3824
4. Bajra (Grain)	-	8200	13829	15820	13820
5. Bajra (Straw)	-	2042	2884	2888	2878
6. Sorghum (Grain)	-	8808	3888	3229	1804
7. Mustard (Grain)	12589	-	-	-	12888
8. Gram (Grain)	28280	10000	14412	18812	14012
9. Gram (Straw)	-	1200	1381	1031	1248
10. Other pulses (Grain)	3580	18027	-	14820	1888
11. Other pulses (Straw)	-	-	-	-	-
12. Cotton (Lint)	-	20823	10488	8828	20821
13. Cotton (Straw)	-	-	28813	-	28813
14. Cotton (Seed)	-	1082	1142	412	1142
15. Sugarcane	82042	22122	-	-	2812
16. Oilseeds	28742	21242	21288	30308	28288
17. Fodder & Misc. (Grain)	-	-	-	-	-
17. Green fodder	22082	18284	21881	18780	18288
18. Stake of Paddy (Lower)	1084	802	1884	2888	1241
19. Other crops	42849	18720	14488	4222	1138

CHAPTER-III

ECONOMIC ANALYSIS OF SELECTED HOLDINGS

General

Efforts have been made to present an overall analysis of input and output per hectare of area of the selected holdings. In this chapter, the profit and loss per hectare of area held and cropped by the cultivators under irrigated and unirrigated holdings have been studied and worked out separately.

3.1 Gross Income

Gross income is the total value of the farm produce whether consumed at home, stocked for sale or future use, sold in the market, paid in kind as wages to farm labourers or disposed off in any other way. It consists of the cash value of the produce actually sold and the value of the remaining produce estimated at harvest price prevalent in the village. Crop-wise average gross return per hectare under irrigated and unirrigated holdings has been worked out for each zone separately. The crop-wise and zone-wise average gross income under irrigated and unirrigated holdings have been shown in Tables 3.1(a) and 3.1(b), respectively.

Table 3.1 (a) Zone-wise average gross income per hectare from different crops in irrigated holdings during 2005-06

		(In Rs.)				
Sr.No.	Crops	Northern	Central	Western	Southern	Overall average
1	2	3	4	5	6	7
1.	Paddy	32960	35364	39208	32143	34221
2.	Wheat (Grain)	27235	28584	28385	26290	27721
3.	Wheat (Bhusa)	4625	6155	6954	5971	5874
4.	Barley (Grain)	-	9500	13639	17629	15388
5.	Barley (Bhusa)	-	2042	2894	2988	2879
6.	Bajra (Grain)	-	8868	7068	7379	7504
7.	Maize (Grain)	12689	-	-	-	12689
8.	Gram (Grain)	26250	20000	14419	15875	14072
9.	Gram (Bhusa)	-	1200	1387	1031	1249
10.	Other pulses (Grain)	9250	18027	-	14950	15993
11.	Other pulses (Bhusa)	-	-	-	-	-
12.	Cotton (Desi)	-	26823	19498	6625	20031
13.	Cotton (American)	-	-	26513	-	26513
14.	Cotton (Sticks)	-	1362	1146	417	1142
15.	Sugarcane	82045	32155	-	-	76110
16.	Oilseeds (Rape & Mustard)	26742	27542	21798	30308	26526
17.	Green fodder	22067	16294	21591	19160	19836
18.	Stalks of Paddy, Jowar, Bajra, Maize & sugarcane	1064	830	1994	2448	1331
19.	Other crops	41949	15176	14149	9223	17336

Table 3.1 (b) Zone-wise average gross income per hectare from different crops in unirrigated holdings during 2005-06

Sr.No. Crops		Northern	Central	Western	Southern	Overall average
1	2	3	4	5	6	7
1.	Paddy	-	-	-	-	-
2.	Wheat (Grain)	8678	14583	-	15422	14819
3.	Wheat (Bhusa)	1240	2083	-	1688	1683
4.	Barley (Grain)	-	5250	-	13125	9625
5.	Barley (Bhusa)	-	1500	-	1500	1500
6.	Bajra (Grain)	-	6188	-	6273	6264
7.	Maize (Grain)	6028	-	-	-	6028
8.	Gram (Grain)	-	-	-	6000	6000
9.	Gram (Bhusa)	-	-	-	815	815
10.	Other pulses (Grain)	-	-	-	16000	16000
11.	Other pulses (Bhusa)	-	-	-	-	-
12.	Cotton (Desi)	-	-	-	-	-
13.	Cotton (American)	-	-	-	-	-
14.	Cotton (Sticks)	-	-	-	-	-
15.	Sugarcane	-	-	-	-	-
16.	Oilseeds (Rape & Mustard)	-	18783	-	23407	21541
17.	Green fodder	3000	10000	-	11786	11431
18.	Stalks of Jowar, Bajra, Maize & sugarcane	-	1625	364	2219	2597
19.	Other crops	-	-	6909	3500	6500

It may be seen from Tables 3.1(a) & 3.1(b) that the gross return per hectare of major crops of irrigated holdings has an edge over the gross income of unirrigated holdings. The gross return per hectare of sugarcane, paddy, wheat, oilseeds & green fodder of irrigated holdings was found to be Rs. 76110, Rs. 34221, Rs. 27721, Rs. 26526 and Rs. 19836, respectively. In case of unirrigated holdings, the gross return per hectare of Wheat, Barley, Bajra, Gram and Oilseeds was worked out as Rs. 14819, Rs. 9625, Rs. 6264, Rs. 6000 and Rs. 21541 respectively.

Group-wise gross income, expenditure and net income per hectare of peasant proprietorship and peasant proprietorship -cum-tenancy under irrigated and unirrigated holdings have been presented in Table 3.1 (c).

Table 3.1(c) Group-wise gross income, expenditure and net income per hectare of peasant-Proprietorship and peasant-proprietorship-cum-tenancy under irrigated and unirrigated holdings during 2005-06

Size group of holdings (hectares)	(In Rs.)					
	Peasant-proprietorship			Peasant-proprietorship-cum-tenancy		
	Gross Income	Expenditure	Net Income	Gross Income	Expenditure	Net Income
1	2	3	4	5	6	7
Irrigated						
Below 2.0	51176	24533	26643	61228	34148	27080
2.0-4.0	53128	24109	29019	57226	31671	25555
4.0-7.5	56290	24801	31489	62977	35974	27003
7.5-10.0	51472	21463	30009	6963	7949	(-)-986
10.0 & above	45395	22833	22562	85595	48010	37585
Average	52786	23915	28871	60893	34471	26422
Unirrigated						
Below 2.0	14585	4397	10188	15289	12593	2696
2.0-4.0	24326	11224	13102	-	-	-
4.0-7.5	25461	11708	13753	-	-	-
7.5-10.0	22464	11976	10488	-	-	-
10.0 & above	-	-	-	-	-	-
Average	21619	9946	11673	15289	12593	2696
Overall average	51657	23409	28248	60590	34326	26264

The figures indicated in Table 3.1(c) show that gross income per hectare under peasant-proprietorship was highest (Rs. 56290) in the size group of 4.0-7.5 hectares in the irrigated holdings whereas it was minimum Rs. 45395) in the size group of 10.0 hectares & above. In case of unirrigated holdings, the maximum (Rs. 25461) gross income was recorded in the size group of 4.0-7.5 hectares followed by size group of 2.0-4.0 hectares (Rs.24326).

The irrigated peasant proprietorship-cum-tenancy holdings recorded the highest (Rs. 85595) gross income per hectare in the size group of 10.0 hectares & above where as it was found to be the lowest (Rs. 6963) in the size group of 7.5-10.0 hectares.

The peasant proprietors of irrigated holdings incurred an expenditure of Rs. 23915 per hectare where as it was Rs. 34471 in case of peasant proprietor-cum-tenants. The corresponding figures for unirrigated holdings were worked out to be Rs. 9946 and Rs. 12593 with an overall average of Rs. 23409 and 34326 respectively.

3.2 Input-Output analysis of the holdings

The main objective of this study is to find out the input-output ratio under two types of land tenure systems. Before assessing the gross income, expenditure and net income per hectare from cultivation on the sampled holdings, it is worthwhile to explain about the land tenure systems namely peasant proprietorship and peasant proprietorship-cum-tenancy prevalent in the state.

(A)- Peasant Proprietorship

A peasant proprietor possesses the right of ownership. He has the right to sell, transfer it by gift, mortgage or pass it on to descendants. He cultivates the land with his own family members. The cost of cultivation under this system includes manual labour (excluding imputed

value of wages of family workers and exchange labour), bullocks labour (excluding imputed value of bullocks, upkeep labour by family workers), seeds, farm yard manure, chemical fertilizers, irrigation charges (including tubewell electricity bills, canal water charges, repair of tubewell etc), implements and machinery, interest on capital investment (excluding depreciation on capital investment), payments made to artisans, cost of spray of insecticides/pesticides etc and miscellaneous costs (cost of bunding, fencing and land leveling etc). The rental value of owned land has been excluded from this cost.

(B) Peasant proprietorship-cum-tenancy

A peasant proprietor-cum-tenant acquires some additional land on rent/batai in addition to his own land to supplement his income. The terms and conditions of rent lease i.e. cash or kind depend on local conditions and urgency of his requirements. He is assisted by his family members and seeks hired labour in agricultural operations. The cost of cultivation under this system includes manual labour (excluding imputed value of wages of family workers and exchange labour), bullocks labour (excluding imputed value of upkeep labour), seeds, farm yard manure, chemical fertilizers, irrigation charges (tubewell electricity bills, canal water charges and repairs etc.), implements and machinery, interest on capital investment, payments made to artisans, cost of spray of insecticides/pesticides etc. and miscellaneous costs (cost of bunding, fencing and land leveling etc.) and rental value of leased in land.

The gross income, expenditure and net income per hectare (zone-wise) under peasant proprietorship & peasant proprietorship-cum-tenancy system have been calculated separately for irrigated and unirrigated areas and is shown in Table 3.2.

Table 3.2 Zone-wise net income per hectare of peasant proprietorship and peasant proprietorship-cum-tenancy under irrigated and unirrigated holdings separately during 2005-06

Zone	Peasant proprietorship			Peasant proprietorship-cum-tenant		
	Gross Income	Expenditure	Net Income	Gross Income	Expenditure	Net return
1	2	3	4	5	6	7
Irrigated						
Northern	67613	33909	33704	73414	43960	29454
Central	55948	22021	33927	56287	26723	29564
Western	48865	19545	29320	59593	31698	27895
Southern	35051	18909	16142	37689	20966	16723
Average	52786	23915	28871	60893	34471	26422
Unirrigated						
Northern	-	-	-	15289	12593	2696
Central	-	-	-	-	-	-
Western	16000	2250	13750	-	-	-
Southern	22459	11096	11363	-	-	-
Average	21619	9946	11673	15289	12593	2696
Overall average	51657	23409	28248	60590	34326	26264

It is observed from the above table that overall average gross income, expenditure and net income per hectare for irrigated and unirrigated areas taken together for holdings under peasant proprietorship worked out to Rs. 51657, Rs. 23409 and Rs. 28248, respectively. Where as for holdings under peasant proprietorship-cum-tenancy it was worked out to be Rs. 60590, Rs. 34326

and Rs. 26264, respectively. The table further shows that gross income per hectare in irrigated areas under peasant proprietorship systems was the highest (Rs. 67613) in northern zone whereas the lowest (Rs. 35051) income was recorded in southern zone. In case of holdings under peasant proprietorship-cum-tenancy system the highest (Rs. 73414) per hectare gross income was observed in northern zone whereas it was the lowest of Rs. 37689 in the southern zone.

3.3 Comparative position of net income under two types of land tenure systems

The group wise & zone-wise data regarding net income per hectare under peasant proprietorship & peasant-proprietorship-cum-tenant system of holdings has been worked out in Table 3.3

Table 3.3 Group-wise and zone-wise net income per hectare according to peasant proprietorship & peasant-proprietorship-cum-tenancy system

A- Group wise	Peasant proprietorship	Peasant proprietorship-cum-tenant
1	2	3
Irrigated		
Below 2.0	26643	27080
2.0-4.0	29019	25555
4.0-7.5	31489	27003
7.5-10.0	30009	(-1986)
10 & above	22562	37585
Average	28871	26422
Unirrigated		
Below 2.0	10188	2696
2.0-4.0	13102	
4.0-7.5	13753	
7.5-10.0	10488	
10 & above		
Average	11673	2696
B- Zone wise		
Irrigated		
Northern	33704	29454
Central	33927	29564
Western	29320	27895
Southern	16142	16723
Average	28871	26422
Unirrigated		
Northern	-	2696
Central	-	-
Western	13750	-
Southern	11363	-
Average	11673	2696
Overall average	28248	26264

Inferences can be drawn from the above table that the holdings under peasant proprietorship are more profitable than the peasant proprietorship-cum-tenancy system. The overall average net income per hectare of the operated area of a peasant proprietorship and peasant proprietorship-cum-tenancy was Rs. 28248 and Rs. 26264, respectively under different size groups as well as in zones during 2005-2006.

CHAPTER - IV

SUMMARY AND CONCLUSION

The report on 'Economics of Farming in Haryana' provides a comprehensive analysis of a cultivator's farm economy and highlights in depth his gross income, expenditure and net income per hectare of irrigated and unirrigated holdings. Besides, it gives information about the extent of use of improved seeds, agricultural implements and machinery, consumption of chemical fertilizers, labour and employment etc. The present report makes a detailed study of 234 selected holdings under two commonly practised systems of land tenure i.e. peasant proprietorship and peasant proprietorship-cum-tenancy. The main findings of the study are as under :-

1. The total operated area of 234 selected holdings under this study was 860.97 hectares. Out of which, the area under peasant proprietorship and peasant proprietorship-cum-tenancy was 653.30 hectares and 207.67 hectares respectively. The average size of holdings was 3.68 hectares.
2. Out of total 234 selected holdings, 206 holdings (88.03%) were irrigated and 8 holdings (3.42%) were unirrigated. The remaining 20 holdings (8.55%) were partly irrigated. The analysis has further revealed that 93.52% of the area held under selected holdings was irrigated. The average intensity of cropping on irrigated and unirrigated areas of selected holdings worked out to 180.44% and 136.93%, respectively. The overall intensity was 177.62%.
3. The study revealed that the great difference was found in the cropping pattern under irrigated and unirrigated areas. In case of irrigated areas, the percentage of cultivated area under cereals, pulses and cash crops was 64.77, 1.31 and 20.09 as against 42.42, 20.80 and 15.18 respectively in case of unirrigated areas.
4. The study further indicated that all the selected holdings were found using chemical fertilizers. The average consumption of chemical fertilizers per hectare in irrigated and unirrigated area was 214.76 kgs., and 117.95 kgs., respectively.
5. The total capital investment per hectare was found to be Rs.12898, out of which 74.26% was utilised for agricultural machinery & tubewell/pumping sets and remaining 25.74% on farm building, cattlesheds and drought animals.
6. The average operated area per permanent agricultural worker was 1.23 hectares. A permanent hired agricultural worker was paid Rs. 21311 per annum inclusive of meals, tea & tobacco charges while a casual daily wage worker was given Rs. 99 per day exclusive of meal, tea & tobacco charges.
7. Average yield per hectare of paddy, wheat, bajra, maize, barley, gram, oilseeds & sugarcane was 4705 kgs., 3966 kgs., 1363 kgs., 1859 kgs., 2683 kgs., 783 kgs., 1544 kgs., and 63989 kgs., respectively on irrigated land as compared to 2229 kgs. yield of wheat, 1139 kgs. bajra, 780 kgs., of maize, 304 kgs. of gram and 1192 kgs. of oilseeds under unirrigated land.

8. The gross income per hectare of different crops like wheat, gram, sugarcane & oilseeds was Rs. 27721, Rs. 14072, Rs. 76110 and Rs. 26526 respectively in irrigated areas. In case of unirrigated holdings, the gross return per hectare of Wheat, Barley, Bajra, Gram and Oilseeds was worked out as Rs. 14819, Rs. 9625, Rs. 6264, Rs. 6000 and Rs. 21541 respectively.

9. The average gross income of a peasant proprietor per hectare worked out to Rs. 52786 on irrigated areas as against Rs. 21619 on unirrigated areas. The average net income per hectare was calculated at Rs. 28871 from irrigated areas as compared to Rs. 11673 from unirrigated areas. In case of peasant proprietorship-cum-tenancy holdings, the average gross income per hectare was found to be Rs. 60893 on irrigated areas as against Rs. 15289 on unirrigated areas.

10. The gross income per hectare of operated area under peasant proprietorship & peasant proprietorship-cum-tenancy system of holdings was Rs. 51657 & Rs. 60590 respectively during the year 2005-2006.

11. The study further concluded that per hectare expenditure incurred by the sampled cultivators from farm cultivation was Rs. 23409 & Rs. 34326 respectively under peasant proprietorship & peasant proprietorship-cum-tenancy system of holdings.

12. The net income per hectare of operated area came out to Rs. 28248 for peasant proprietors whereas it was found to be Rs. 26264 for peasant proprietor-cum-tenants during 2005-06.

The study revealed that the great difference was found in the cropping pattern under irrigated and unirrigated areas. In case of irrigated areas, the percentage of cultivated area under cereals, pulses and cash crops was 64.77, 1.31 and 29.92 as against 44.42, 20.80 and 15.78 respectively in case of unirrigated areas.

The study further indicated that all the selected holdings were found using chemical fertilizers. The average consumption of chemical fertilizers per hectare in irrigated and unirrigated area was 174.78 kg., and 177.95 kg., respectively.

The total capital investment per hectare was found to be Rs. 12,998, out of which 74.28% was spent for agricultural machinery & tubewell/pumping sets and remaining 25.72% on farm building, cottages and draught animals.

The average operated area per permanent agricultural worker was 1.23 hectares. A permanent hired agricultural worker was paid Rs. 2311 per annum inclusive of meals, but 2 temporary changes while a casual daily wage worker was given Rs. 99 per day exclusive of meal, but 2 temporary changes.

Average yield per hectare of paddy, wheat, sugarcane, maize, bajra, gram, oilseeds & sugarcane were 4709 kgs., 2086 kgs., 1883 kgs., 1859 kgs., 2883 kgs., 782 kgs., 1244 kgs., and 6295 kgs., respectively on irrigated land as compared to 3228 kgs. yield of wheat, 1199 kgs. paddy, 780 kgs. of maize, 204 kgs. of gram and 1182 kgs. of oilseeds under unirrigated land.

APPENDIX-I

List of Selected Holdings (2005-2006)

(Area in hectares)						
Zone	District	Holdings	Irrigated	Unirrigated	Total	
1	2	3	4	5	6	
Northern	Ambala	Sain Majra	2.40	-	2.40	
		Samlehri	2.40	-	2.40	
		Kodwa Kalan	2.40	-	2.40	
		Bhurewala	2.70	-	2.70	
		Keso Pur	2.80	-	2.80	
		Alipur	2.80	-	2.80	
		Sullar	3.20	-	3.20	
		Kapoori	3.20	-	3.20	
		Khudda Kalan	3.80	-	3.80	
		Mohra	5.60	-	5.60	
		Patvi	6.60	-	6.60	
		Barara	8.60	-	8.60	
		Panchkula	Madna	0.40	0.20	0.60
			Tiba majra	1.00	-	1.00
			Morni	-	1.21	1.21
			Bharoli	2.40	-	2.40
	Kiratpur		3.20	-	3.20	
	Surajpur		3.20	-	3.20	
	Garhi Kotaha		3.20	-	3.20	
	Karnal	Barwala	3.80	-	3.80	
		Bazidpur	1.45	-	1.45	
		Bijna	1.70	-	1.70	
		Fusgarh	2.20	-	2.20	
		Bazidpur	2.40	-	2.40	
		Bijna	2.60	-	2.60	
		Uplana	2.80	-	2.80	
		Dadupur Roran	3.00	-	3.00	
		Dadupur Roran	3.00	-	3.00	
		Padhana	4.00	-	4.00	
		Padhana	4.80	-	4.80	
		Fusgarh	5.00	-	5.00	
		Uplana	5.60	-	5.60	
	Kurukshetra	Sandholi	2.10	-	2.10	
		Bint	2.40	-	2.40	
		Dhantori	3.20	-	3.20	
		Khanpur Kolian	3.84	-	3.84	
		Jandhera	4.00	-	4.00	
		Kamoda	4.60	-	4.60	
		Chadani Jattan	5.20	-	5.20	
		Berhan	5.80	-	5.80	
		Phalsanda Rangran	6.20	-	6.20	
		Sarsa	6.52	-	6.52	
		Panipat	Hathwala	1.60	-	1.60
Diwana	1.80		-	1.80		
Sanoli Kalan	2.20		-	2.20		
Sanoli Kalan	2.40		-	2.40		
Didwari	2.40		-	2.40		
Naya Nara	2.80		-	2.80		
Jhati Pur	3.00		-	3.00		
Hathwala	3.20		-	3.20		
Kurana	3.60		-	3.60		
Adiyana	6.20		-	6.20		

TABLE-1

List of selected Holdings (2002-2003)

(Area in hectares)

Zone	District	Holdings	Irrigated	Unirrigated	Total
1	2	3	4	5	6
Northern	Yamuna Nagar	Mustamabad	2.40	-	2.40
		Sabepur	2.60	-	2.60
		Bheel, Chhappar	2.90	0.20	3.10
		Jubbal	3.04	0.20	3.24
		Sarawan	3.40	-	3.40
		Radauri	4.80	-	4.80
		Leda khash	6.20	-	6.20
		Gundiana	7.20	-	7.20
		Kanipala	10.00	-	10.00
		Dariyapur	10.80	-	10.80
		Dorrang	19.20	-	19.20
Balachaur	20.00	-	20.00		
		Total	267.85	1.81	269.66

Zone	District	Holdings	Irrigated	Unirrigated	Total	
1	2	3	4	5	6	
Central	Jind	Dalamwala	1.10	-	1.10	
		Naguran	1.60	-	1.60	
		Palwan	2.00	-	2.00	
		Khanda	2.00	-	2.00	
		Uchana Khurd	2.20	-	2.20	
		Kalwa	2.40	-	2.40	
		Rajhana Khurd	2.64	-	2.64	
		Karsandhu	2.70	-	2.70	
		Ujhana	3.20	-	3.20	
		Ujhana	3.60	-	3.60	
		Kilazafargarh	3.70	-	3.70	
		Desh Khera	4.00	-	4.00	
		Bhadurgarh	6.40	-	6.40	
		Barah Kalan	7.70	-	7.70	
		Kaithal	Rajaund	0.80	-	0.80
			Chhot	0.80	-	0.80
			Harigarh Kingan	2.00	-	2.00
	Kharak Pandwan		2.40	-	2.40	
	Dhand		3.20	-	3.20	
	Barot		3.60	-	3.60	
	Harigarh Kingan		4.00	-	4.00	
	Mohna		4.40	-	4.40	
	Kithana		4.80	-	4.80	
	Kharak Pandwan		7.20	-	7.20	
	Rohtak		Bhalot	0.80	-	0.80
			Bhalot	0.80	-	0.80
			Kheri Sampla	1.00	-	1.00
			Kheri Sampla	1.00	-	1.00
			Bhali Anandpur	1.40	0.60	2.00
			Lakhan Majra	2.00	-	2.00
		Lakhan Majra	2.00	-	2.00	
		Madina	1.40	1.00	2.40	
		Madina	2.40	-	2.40	
Bhali Anandpur		3.20	0.80	4.00		
Jhajjar	Matanhel	1.40	-	1.40		
	Dhandhlan	1.20	0.20	1.40		
	Dhandhlan	1.20	0.20	1.40		
	Matanhel	1.60	-	1.60		
	Salhawas	2.00	-	2.00		
	Salhawas	2.00	-	2.00		
	Hasanpur	2.80	-	2.80		
	Dulhera	3.20	-	3.20		
	Dulhera	2.40	1.20	3.60		
	Hasanpur	5.00	-	5.00		

Zone	District	Holdings	Irrigated	Unirrigated	Total
1	2	3	4	5	6
Central	Sonipat	Chidana	1.00	-	1.00
		Nirthan	1.00	-	1.00
		Ahulana	1.00	-	1.00
		Panchi Jatan	1.20	-	1.20
		Khewra	1.60	-	1.60
		Mudlana	0.60	1.20	1.80
		Rohat	2.20	-	2.20
		Bhigan	2.20	-	2.20
		Kheri Dhamkan	2.40	-	2.40
		Rai	3.20	-	3.20
		Mohana	2.60	0.80	3.40
		Chitana	4.08	-	4.08
		Gudha	3.90	1.60	5.50
		Kasanda	6.00	-	6.00
		Total	150.22	7.60	157.82

Zone	District	Holdings	Irrigated	Unirrigated	Total	
1	2	3	4	5	6	
Western	Bhiwani	Chandeni	1.60	-	1.60	
		Hetam pura	-	1.60	1.60	
		Hetam pura	-	1.60	1.60	
		Gignow	1.60	-	1.60	
		Gignow	1.60	-	1.60	
		Bhariwas	1.60	-	1.60	
		Jattu Lohari	2.00	-	2.00	
		Jattu Lohari	2.00	-	2.00	
		Chang	2.00	-	2.00	
		Loharwara	2.40	-	2.40	
		Bhariwas	2.40	-	2.40	
		Chang	3.20	-	3.20	
		Loharwara	3.20	-	3.20	
		Chandeni	3.20	-	3.20	
		Sagwan	4.80	-	4.80	
		Sagwan	4.80	-	4.80	
		Dhani Hunat	2.40	3.60	6.00	
		Dhani Hunat	6.80	8.00	14.80	
		Hisar	Litani	1.50	-	1.50
			Majra	1.70	-	1.70
	Pabra		1.70	-	1.70	
	Sarsod		2.00	-	2.00	
	Chikanwas		2.00	-	2.00	
	Data		2.00	-	2.00	
	Bhatol Jattan		2.40	-	2.40	
	Arya Nagar		2.80	-	2.80	
	Ghirai		2.80	-	2.80	
	Behabalpur		3.04	-	3.04	
	Bhatol Jattan		3.60	-	3.60	
	Harikot		4.15	-	4.15	
	Dhiranwas		4.30	-	4.30	
	Narnaund		6.80	-	6.80	
	Agroha		7.20	0.80	8.00	
	Kabral		8.00	-	8.00	
	Balawas	9.00	-	9.00		
	Fatehabad	Moda Khera	12.40	-	12.40	
Kanheri		1.00	-	1.00		
Jamalpur Sekha		1.60	-	1.60		
Chimo		1.60	-	1.60		
Jhandli khurd		2.00	-	2.00		
Sakhar pur		2.80	-	2.80		
Jakhal		2.80	-	2.80		
Dariya Pur		3.60	-	3.60		
Nehla		3.60	-	3.60		
Dhabi kalan		4.40	-	4.40		
Matana		5.20	-	5.20		
Bhattu Kalan		6.40	-	6.40		
Aharwan		6.80	-	6.80		

Zone	District	Holdings	Irrigated	Unirrigated	Total
1	2	3	4	5	6
Western	Sirsa	Malekan	1.00	-	1.00
		Abholi	1.00	-	1.00
		Sultan Puria	1.40	-	1.40
		Umed Pura	2.00	-	2.00
		Bhawdin	2.00	-	2.00
		Sanvat khera	2.80	-	2.80
		Panihari	3.20	-	3.20
		Nejia Khera	2.40	1.60	4.00
		Sahuwala	6.00	-	6.00
		Banwala	6.40	-	6.40
		Odhan	7.20	-	7.20
		Ding	8.00	-	8.00
		Thiraj	8.00	-	8.00
		Chhormar Khera	10.00	-	10.00
				Total	226.19

Zone	District	Holdings	Irrigated	Unirrigated	Total	
1	2	3	4	5	6	
Southern	Faridabad	Likhi	1.20	-	1.20	
		Bhupgarh	1.60	-	1.60	
		Prithla	2.40	-	2.40	
		Prithla	2.40	-	2.40	
		Midkola	2.00	0.40	2.40	
		Nacholi	4.00	-	4.00	
		Nacholi	4.00	-	4.00	
		Midkola	4.00	-	4.00	
		Bhupgarh	4.80	-	4.80	
		Likhi	5.40	-	5.40	
		Sikri	6.60	-	6.60	
		Sikri	6.60	-	6.60	
		Gurgaon	Jamalpur	1.20	-	1.20
			Hassan Pur	1.60	-	1.60
	Hassan Pur		2.00	-	2.00	
	Khentawas		2.00	-	2.00	
	Alipur		2.80	-	2.80	
	BondaKalan		3.60	-	3.60	
	Malab		-	3.60	3.60	
	Uchha Majra		4.00	-	4.00	
	Alipur		4.40	-	4.40	
	Pangwa		4.80	-	4.80	
	Mandi Khera		3.60	1.20	4.80	
	Garhi Harshu		3.80	1.00	4.80	
	Malab		-	6.60	6.60	
	Nasir Was		6.80	-	6.80	
	Wazir Pur		7.60	-	7.60	
	Bichhor		8.00	-	8.00	
	Mohamadwas		8.00	-	8.00	
	Mahendergarh		Kheri Nuh	-	8.40	8.40
		Uninda	1.00	-	1.00	
		Napla	-	1.20	1.20	
		God	-	1.60	1.60	
		Bhugarka	1.60	-	1.60	
		Sehlanga	1.60	-	1.60	
		Shaharpur	1.70	-	1.70	
		Singhra	3.00	-	3.00	
		Riwasa	5.80	-	5.80	
		Nangal Nunia	6.40	-	6.40	
	Rewari	Satnali	5.60	5.20	10.80	
		Bhandore	0.80	-	0.80	
		Suthana	1.40	-	1.40	
		Pahlawas	1.60	-	1.60	
		Mastapur	1.60	-	1.60	
Manethi		1.60	-	1.60		
Kapriwas		3.20	-	3.20		
Maheshwari		3.20	-	3.20		
Lukhi		3.60	-	3.60		
Nahar		3.60	-	3.60		
Suthana		4.40	-	4.40		
Total			160.90	29.20	190.10	

APPENDIX - II-A

Cropped area, Yield and its Value of crops sown on Irrigated Land (Kharif) 2005-06

Zone	District	Holdings	Paddy			Bajra			
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	
1	2	3	4	5	6	7	8	9	
Northern	Ambala	Sain Majra	1.80	144	86400	-	-	-	
		Samlehri	1.20	45	27000	-	-	-	
		Kodwa Kalan	1.60	80	48000	-	-	-	
		Bhurewala	2.30	96	57600	-	-	-	
		Keso pur	1.00	45	27000	-	-	-	
		Alipur	1.20	70	43400	-	-	-	
		Sullar	3.20	144	86400	-	-	-	
		Kapoori	2.00	95	57000	-	-	-	
		Khudda Kalan	1.60	60	36000	-	-	-	
		Mohra	5.40	240	144000	-	-	-	
		Patvi	5.20	293	17800	-	-	-	
		Barara	5.20	292	192720	-	-	-	
		Panchkula	Madna	0.20	5	8000	-	-	-
			Tiba majra	1.00	70	43400	-	-	-
	Bharoli		1.00	45	26550	-	-	-	
	Kiratpur		0.40	30	18900	-	-	-	
	Surajpur		-	-	-	-	-	-	
	Garhi Kotaha		1.60	140	86800	-	-	-	
	Barwala		3.40	170	102000	-	-	-	
	Karnal	Bazidpur	1.20	72	36720	-	-	-	
		Bijna	1.60	84	48720	-	-	-	
		Fusgarh	1.70	98	58800	-	-	-	
		Bazidpur	2.20	128	72000	-	-	-	
		Bijna	2.60	138	84180	-	-	-	
		Uplana	2.70	165	98100	-	-	-	
		Dadupur Roran	2.80	136	99760	-	-	-	
		Dadupur Roran	2.80	121	108900	-	-	-	
		Padhana	3.60	162	122012	-	-	-	
		Padhana	4.00	188	133800	-	-	-	
		Fusgarh	2.60	149	83640	-	-	-	
		Uplana	5.40	280	175200	-	-	-	
		Kurukshehra	Sandholi	3.60	120	80000	-	-	-
	Bint		2.00	110	66000	-	-	-	
	Dhantori		3.00	180	108000	-	-	-	
Khanpur Kolian	3.60		180	108000	-	-	-		
Jandhera	1.40		63	59850	-	-	-		
Kamoda	4.00		160	96000	-	-	-		
Chanduni Jattan	4.80		86	178560	-	-	-		
Berhan	2.60		85	76500	-	-	-		
Phalsanda Rangran	0.80		50	28500	-	-	-		
Sarsa	6.24		300	252000	-	-	-		
Panipat	Hathwala		1.60	55	55000	-	-	-	
	Diwana		1.60	56	55000	-	-	-	
	Sanoli Kalan		2.20	80	80000	-	-	-	
	Sanoli Kalan		2.40	90	90000	-	-	-	
	Didwari	2.00	40	40000	-	-	-		
	Naya Nara	2.80	98	107800	-	-	-		
	Jhati Pur	2.80	80	72000	-	-	-		
	Hathwala	2.80	140	140000	-	-	-		
	Kurana	3.40	100	100000	-	-	-		
	Adiyana	6.00	260	268000	-	-	-		

Zone	District	Holdings	Paddy			Bajra		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8	9
Northern	Yamuna Nagar	Mustamabad	2.00	110	110000	-	-	-
		Sabepur	1.10	25	22500	-	-	-
		Bheel Chhappar	1.30	52	33800	-	-	-
		Jubbal	1.84	70	56000	-	-	-
		Sarawan	2.50	150	90000	-	-	-
		Radauri	2.40	101	73170	-	-	-
		Leda khash	1.60	88	67200	-	-	-
		Gundiana	2.20	110	107800	-	-	-
		Kanipala	4.70	180	108000	-	-	-
		Dariyapur	6.40	320	192000	-	-	-
		Dorrang	5.20	208	187200	-	-	-
Balachaur	10.00	625	375000	-	-	-		

Cotton (American)			Cotton Sticks		Sugarcane (Cane & Seed)		
Area (Hects)	Yield (Qtls)	Value (Rs.)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	
21	22	23	24	25	26	27	
-	-	-	-	-	-	-	
-	-	-	-	1.40	900	110700	
-	-	-	-	0.80	500	56000	
-	-	-	-	0.80	600	73800	
-	-	-	-	0.70	376	41250	
-	-	-	-	2.00	1000	115000	
-	-	-	-	4.00	3600	403200	
-	-	-	-	4.60	2530	288420	
-	-	-	-	4.90	3600	432000	
-	-	-	-	4.00	2500	300000	
-	-	-	-	12.00	7500	922500	
-	-	-	-	8.80	7700	924000	

Green Fodder		Stalks of Paddy, Jowar, Bajra, Maize and Sugarcane Value (Rs.)	Other Crops	
Area (Hects)	Value (Rs.)		Area (Hects)	Value (Rs.)
28	29	30	31	32
0.20	6000	800	-	-
0.40	8000	1700	0.20	-
0.40	2400	500	-	-
0.40	5600	2500	-	-
1.20	12000	1500	-	-
0.20	3000	3600	0.20	-
-	-	-	-	-
0.20	3500	2000	-	-
1.20	13000	4100	-	-
-	-	2600	-	-
0.60	10000	9960	-	-
0.20	5000	3800	0.40	-
-	-	1600	-	-
-	-	1000	-	-
0.40	5000	3600	-	-
-	-	39400	1.76	5000
2.48	30000	1000	-	-
0.20	3200	1500	-	-
0.40	6000	-	-	-
0.20	4000	-	-	-
0.10	2000	-	-	-
0.20	4000	2000	-	-
0.20	3200	-	-	-
0.20	4000	-	-	-
0.10	2000	800	-	-
0.20	4000	2000	-	-
0.20	4000	5600	-	-
0.20	5000	-	0.20	14400
0.40	8000	-	0.40	25800
0.40	8000	5000	-	-
0.20	3500	1200	-	-
0.10	2000	7500	-	-
0.40	10000	1000	-	-
0.20	5000	-	-	-
0.24	6000	-	-	-
0.20	5000	4200	-	-
0.60	16000	-	-	-
0.40	10000	-	-	-
0.40	10000	22000	-	-
0.40	10000	32400	-	-
0.28	6000	1800	-	-
-	-	-	-	-
0.20	3500	-	-	-
-	-	-	-	-
-	-	-	-	-
0.40	8000	-	-	-
-	-	-	-	-
0.20	4000	-	-	-
0.40	8000	-	-	-
0.20	5000	-	-	-
0.20	3000	-	-	-

Green Fodder		Stalks of Paddy, Jowar, Bajra, Maize and Sugarcane		Other Crops	
Area (Hects)	Value (Rs.)	Value (Rs.)		Area (Hects)	Value (Rs.)
28	29	30		31	32
0.20	1500	600		0.15	1000
0.10	2000	2500		-	-
0.80	6000	4100		-	-
0.40	6000	3000		-	-
0.20	4000	3900		-	-
0.40	7000	2500		-	-
0.60	8400	8000		-	-
0.40	6000	2940		-	-
0.40	6000	17600		-	-
0.40	6000	10200		-	-
1.20	18900	15300		0.80	14000
1.20	25000	30400		-	-

Zone	District	Holdings	Paddy			Bajra		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8	9
Central	Jind	Dalamwala	-	-	-	0.50	6	3060
		Naguran	0.80	30	30000	-	-	-
		Palwan	-	-	-	1.60	40	24000
		Khanda	-	-	-	-	-	-
		Uchana Khurd	-	-	-	1.20	24	12240
		Kalwa	2.20	110	88000	-	-	-
		Rajhana Khurd	2.16	70	59000	-	-	-
		Karsandhu	2.50	137	99000	-	-	-
		Ujhana	2.80	84	100800	-	-	-
		Ujhana	3.60	100	121000	-	-	-
		Kilazafargarh	-	-	-	0.80	6	3150
		Desh Khera	1.30	45	49500	0.60	14	8400
		Bhadurgarh	5.80	204	173400	-	-	-
		Barah Kalan	5.10	142	120700	0.90	25	14000
		Kaithal	Rajaund	0.20	14	8400	0.40	12
	Chhot		0.60	50	35000	-	-	-
	Harigarh Kingan		1.80	125	81250	-	-	-
	Kharak Pandwan		1.60	110	66000	0.40	8	4160
	Dhand		2.80	130	156000	-	-	-
	Barot		3.00	180	108000	-	-	-
	Harigarh Kingan		3.60	225	146250	-	-	-
	Mohna		4.00	250	162500	-	-	-
	Kithana		3.20	200	120000	0.80	25	12875
	Kharak Pandwan		6.80	400	240000	-	-	-
	Rohtak	Bhalot	-	-	-	-	-	-
		Bhalot	-	-	-	-	-	-
		Kheri Sampla	-	-	-	-	-	-
		Kheri Sampla	-	-	-	-	-	-
		Bhali Anandpur	0.60	16	17600	-	-	-
		Lakhan Majra	0.40	12	12300	-	-	-
		Lakhan Majra	0.20	8	9600	-	-	-
		Madina	-	-	-	-	-	-
		Madina	0.80	40	42000	-	-	-
Bhali Anandpur		0.80	24	26400	0.60	-	-	
Jhajjar	Matanhel	1.00	10	14000	-	-	-	
	Dhandhlan	0.40	12	14400	-	-	-	
	Dhandhlan	0.40	10	12000	-	-	-	
	Matanhel	1.20	10	13000	-	-	-	
	Salhawas	-	-	-	1.20	12	6243	
	Salhawas	-	-	-	1.20	10	5200	
	Hasanpur	-	-	-	0.80	8	4080	
	Dulhera	-	-	-	-	-	-	
	Dulhera	-	-	-	-	-	-	
	Hasanpur	0.80	16	20800	1.20	12	6120	

Zone	District	Holdings	Paddy			Bajra		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8	9
Central	Sonipat	Chidana	0.60	30	19500	-	-	-
		Nirthan	-	-	-	-	-	-
		Ahulana	-	-	-	0.60	9	4770
		Panchi Jatan	1.00	30	36000	-	-	-
		Khewra	1.20	60	60000	-	-	-
		Mudlana	-	-	-	-	-	-
		Rohat	2.00	64	76800	-	-	-
		Bhigan	1.80	90	81000	-	-	-
		Kheri Dhamkan	1.60	65	42250	-	-	-
		Rai	2.00	76	86250	-	-	-
		Mohana	0.60	16	19200	-	-	-
		Chitana	1.68	40	46000	0.60	10	5250
		Gudha	3.20	90	85500	-	-	-
		Kasanda	1.80	60	60000	1.20	15	9750

Green Fodder		Stalks, Rice, Jowar, Bajra, Maize and Sugarcane . Value (Rs.)	Other Crops	
Area (Hects)	Value (Rs.)		Area (Hects)	Value (Rs.)
28	29	30	31	32
0.20	5000	500	-	-
0.20	4000	1000	-	-
0.30	5000	2000	0.10	500
1.00	17000	-	0.80	25500
0.20	2500	900	-	-
0.20	5000	4000	-	-
0.48	8000	2000	-	-
0.20	4000	1500	-	-
0.40	6000	2500	-	-
-	-	2000	-	-
1.60	12000	2000	-	-
0.20	4000	800	-	-
0.60	9000	-	-	-
0.20	4000	1500	-	-
0.20	4000	4000	-	-
0.20	5000	-	-	-
0.20	5000	-	-	-
0.40	8000	2000	-	-
0.40	8000	-	-	-
0.60	12000	2000	-	-
0.40	8000	-	-	-
0.40	8000	-	-	-
0.80	16000	4000	-	-
0.40	8000	4000	-	-
0.80	8000	-	-	-
0.50	4000	2500	-	-
0.60	2000	-	-	-
0.60	2000	-	-	-
-	-	500	-	-
0.60	18000	500	-	-
1.00	5000	300	-	-
0.40	6000	2000	-	-
0.20	4000	1750	-	-
-	-	600	-	-
-	-	2000	0.40	2000
0.80	1200	400	-	-
0.80	1000	400	-	-
-	-	1500	-	-
-	-	1800	0.80	4800
-	-	1000	-	-
0.80	15000	2000	1.20	9000
0.80	-	-	0.40	-
0.80	15000	-	-	-
0.40	7000	2100	1.00	5400

Green Fodder		Stalks, Rice, Jowar, Bajra, Maize and Sugarcane Value (Rs.)	Other Crops	
Area (Hects)	Value (Rs.)		Area (Hects)	Value (Rs.)
28	29	30	31	32
0.40	2000	600	-	-
1.00	12500	-	-	-
0.40	4000	1000	-	-
0.20	6000	-	-	-
0.40	6000	1500	-	-
0.60	7000	-	-	-
0.20	2500	-	-	-
0.40	6000	2250	-	-
0.80	10200	2000	-	-
0.40	6000	2500	0.80	32000
0.40	5000	750	0.80	16000
1.80	22500	3500	-	-
0.70	9000	6000	-	-
1.20	15000	7500	0.80	15000

Zone	District	Holdings	Paddy			Bajra		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8	9
Western	Bhiwani	Chandeni	-	-	-	1.60	20	10000
		Gignow	-	-	-	0.80	3	1545
		Gignow	-	-	-	0.60	2	1030
		Bhariwas	-	-	-	0.80	4	2400
		Jattu Lohari	-	-	-	-	-	-
		Jattu Lohari	-	-	-	0.40	-	-
		Chang	-	-	-	0.80	12	6000
		Loharwara	1.20	16	17600	0.80	10	5500
		Bhariwas	-	-	-	0.80	4	2400
		Chang	2.80	80	88000	-	-	-
		Loharwara	-	-	-	2.40	30	15000
		Chandeni	-	-	-	3.20	32	16800
		Sagwan	-	-	-	1.20	12	6000
		Sagwan	-	-	-	1.20	12	6000
		Dhani Hunat	-	-	-	-	-	-
		Dhani Hunat	-	-	-	-	-	-
	Hisar	Litani	-	-	-	0.40	14	9100
		Majra	1.60	80	80000	-	-	-
		Pabra	-	-	-	0.20	6	3900
		Sarsod	-	-	-	0.80	8	4800
		Chikanwas	-	-	-	0.60	12	6600
		Data	-	-	-	0.60	12	6600
		Bhatol Jattan	-	-	-	0.80	4	2400
		Arya Nagar	-	-	-	0.80	4	2400
		Ghirai	-	-	-	2.00	60	33000
		Behabalpur	-	-	-	-	-	-
		Bhatol Jattan	-	-	-	0.40	6	3600
		Harikot	-	-	-	1.35	20	14000
		Dhiranwas	-	-	-	1.20	-	-
Narnaund	6.40	320	224000	-	-	-		
Agroha	-	-	-	1.20	20	11000		
Kabral	-	-	-	0.80	12	7800		
Balawas	-	-	-	3.20	32	17600		
Moda Khera	-	-	-	0.40	10	6000		
Fatehabad	Kanheri	0.80	50	29000	-	-	-	
	Jamalpur Sekha	1.40	70	42000	-	-	-	
	Chimo	1.40	105	63000	-	-	-	
	Jhandli khurd	-	-	-	-	-	-	
	Jakhal	2.40	192	134400	-	-	-	
	Jakhal	2.40	170	102000	-	-	-	
	Dariya Pur	1.20	84	50400	-	-	-	
	Nehla	-	-	-	0.80	12	6600	
	Dhabi kalan	-	-	-	0.40	6	3300	
	Matana	-	-	-	-	-	-	
Bhattu Kalan	-	-	-	0.40	12	6600		
Aharwan	5.00	250	218750	-	-	-		

Zone	District	Holdings	Paddy			Bajra		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8	9
Western	Sirsa	Malekan	-	-	-	-	-	-
		Abholi	-	-	-	-	-	-
		Sultan Puri	-	-	-	-	-	-
		Umed Pura	-	-	-	0.40	6	3600
		Bhawdin	1.80	140	70000	-	-	-
		Sanvat khera	-	-	-	-	-	-
		Panihari	-	-	-	-	-	-
		Nejia Khera	-	-	-	-	-	-
		Sahuwala	-	-	-	-	-	-
		Banwala	-	-	-	-	-	-
		Odhan	-	-	-	-	-	-
		Ding	4.00	240	151200	-	-	-
		Thiraj	-	-	-	-	-	-
Chhormar Khera	-	-	-	-	-	-		

Cotton (American)			Cotton Sticks	Sugarcane (Cane & Seed)		
Area (Hects)	Yield (Qtls)	Value (Rs.)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
21	22	23	24	25	26	27
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	1000	-	-	-
-	-	-	1000	-	-	-
0.80	10	18000	400	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	2100	-	-	-
-	-	-	2100	-	-	-
-	-	-	-	-	-	-
1.00	15	30000	2700	-	-	-
-	-	-	-	-	-	-
1.20	18	32850	1400	-	-	-
0.70	6	11880	1200	-	-	-
0.80	8	14880	1000	-	-	-
0.40	4	8000	240	-	-	-
1.20	16	32000	2880	-	-	-
0.80	8	16000	1440	-	-	-
-	-	-	-	-	-	-
2.00	30	55500	2500	-	-	-
1.60	18	36000	3240	-	-	-
1.80	12	24000	1800	-	-	-
1.20	6	12000	1440	-	-	-
-	-	-	-	-	-	-
3.20	32	62400	2760	-	-	-
4.40	60	120000	10800	-	-	-
-	-	-	-	-	-	-
6.80	34	68000	10000	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
0.20	4	7880	200	-	-	-
-	-	-	500	-	-	-
2.20	64	115200	1500	-	-	-
2.60	34	67320	1100	-	-	-
0.80	12	21600	1800	-	-	-
5.00	90	189000	5000	-	-	-
3.20	64	108800	3000	-	-	-
-	-	-	-	-	-	-

Cotton (American)			Cotton Sticks	Sugarcane (Cane & Seed)		
Area (Hects)	Yield (Qtls)	Value (Rs.)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
21	22	23	24	25	26	27
1.00	25	37500	1000	0.00	-	-
0.90	12	18000	1000	0.00	-	-
1.20	24	43200	1500	0.00	-	-
-	-	0.00	0.00	2.00	-	-
-	-	-	-	-	-	-
1.80	12	21720	2000	-	-	-
2.80	40	72000	3000	0.00	-	-
2.20	28	50400	2000	0.00	-	-
5.60	84	151200	7000	0.00	-	-
6.00	120	216000	7500	0.00	-	-
3.60	65	117000	5000	0.00	-	-
3.60	72	129600	2000	0.00	-	-
7.20	126	230580	9000	0.00	-	-
6.00	45	83250	7500	0.00	-	-

Green Fodder		Stalks of Rice, Jowar, Bajra, Maize & Sugarcane		Other Crops	
Area (Hects)	Value (Rs.)	Value (Rs.)	Area (Hects)	Value (Rs.)	
28	29	30	31	32	
-	-	7000	-	-	
-	-	3500	0.40	1500	
-	-	3000	0.40	3000	
-	-	1625	0.80	2400	
0.40	4000	-	-	-	
-	-	-	-	-	
0.40	6000	2000	-	-	
0.40	5000	2500	-	-	
-	-	2250	1.60	3600	
0.40	6000	2000	-	-	
-	-	3000	0.80	4000	
-	-	3200	-	-	
-	-	3000	0.80	15000	
-	-	3000	0.80	15000	
-	-	-	-	-	
-	-	-	-	-	
0.10	2000	1600	-	-	
0.10	3000	2000	-	-	
0.30	8000	700	-	-	
0.10	2000	800	-	-	
0.20	4500	1200	0.40	4440	
0.20	4000	2400	0.40	6400	
0.40	7000	600	-	-	
0.20	4000	1050	0.40	3000	
0.30	6000	5400	-	-	
0.16	3560	800	0.88	12480	
0.40	7000	900	-	-	
0.25	5000	1200	-	-	
0.40	7000	-	0.80	-	
0.40	10000	8000	-	-	
0.80	20000	1600	1.60	20720	
0.40	8000	3000	2.40	27000	
-	-	6000	5.80	80000	
0.40	8000	11800	4.80	72000	
0.20	4000	1000	-	-	
0.20	4500	1500	-	-	
0.20	4500	1500	-	-	
-	-	4500	2.00	35000	
0.20	4000	-	-	-	
0.20	4500	1500	-	-	
0.20	4500	4500	-	-	
0.20	3000	900	-	-	
0.40	10000	2480	2.00	19600	
2.20	5000	-	-	-	
0.20	4000	6500	1.80	42000	
0.60	12000	6000	-	-	

Green Fodder		Stalks of Rice, Jowar, Bajra, Maize & Sugarcane Value (Rs.)	Other Crops	
Area (Hects)	Value (Rs.)		Area (Hects)	Value (Rs.)
28	29	30	31	32
-	-	-	-	-
0.10	3500	-	-	-
0.20	4000	-	-	-
0.20	6000	1000	1.40	15000
0.20	4500	2000	-	-
0.20	4000	300	0.80	4350
0.40	10000	-	-	-
0.20	5000	-	-	-
0.40	9000	-	-	-
0.40	7000	-	-	-
0.40	10000	-	-	-
0.40	10000	5000	-	-
0.40	10000	300	0.40	4350
0.80	20000	3000	3.20	48000

Zone	District	Holdings	Paddy			Bajra		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8	9
Southern	Faridabad	Likhi	-	-	-	0.40	6	3000
		Bhupgarh	-	-	-	0.80	1	600
		Prithla	-	-	-	0.60	10	6000
		Prithla	-	-	-	0.80	10	6000
		Midkola	-	-	-	0.80	10	6000
		Nacholi	3.20	126	85680	-	-	-
		Nacholi	3.60	119	80920	-	-	-
		Midkola	1.60	120	84000	0.80	10	6000
		Bhupgarh	0.80	40	24000	0.80	5	3000
		Likhi	-	-	-	2.00	25	15000
		Sikri	4.00	200	136000	0.60	10	6000
		Sikri	2.20	130	84400	-	-	-
		Gurgaon	Jamalpur	-	-	-	1.20	24
	Hassan Pur		-	-	-	1.20	24	12240
	Hassan Pur		-	-	-	1.20	24	12240
	Khentawas		-	-	-	0.40	6	3060
	Alipur		-	-	-	1.20	24	13200
	BondaKalan		-	-	-	2.00	40	20400
	Uchha Majra		-	-	-	2.80	56	28560
	Alipur		-	-	-	0.80	14	7700
	Pangwa		-	-	-	4.80	96	48960
	Mandi Khera		-	-	-	0.80	16	8800
	Garhi Harshu		-	-	-	0.80	16	8160
	Nasir Was		-	-	-	-	-	-
	Wazir Pur		-	-	-	-	-	-
	Bichhor	-	-	-	-	-	-	
	Mahendergarh	Mohamadwas	-	-	-	0.80	15	8250
		Uninda	-	-	-	0.60	7	4200
		Bhugarka	-	-	-	0.80	2	1140
		Sehlanga	-	-	-	1.00	8	4000
		Shaharpur	-	-	-	0.60	8	4000
		Singhra	-	-	-	1.00	13	7150
		Riwasa	-	-	-	2.00	16	9600
Nangal Nunia		-	-	-	0.80	20	11000	
Satnali		-	-	-	2.80	12	6600	
Rewari		Bhandore	-	-	-	0.80	6	3030
	Suthana	-	-	-	1.00	8	4400	
	Pahlawas	-	-	-	0.80	14	8400	
	Mastapur	-	-	-	0.40	10	5150	
	Manethi	-	-	-	1.20	-	-	
	Kapriwas	-	-	-	2.80	25	16250	
	Maheshwari	-	-	-	3.20	16	10160	
	Lukhi	-	-	-	1.60	16	9600	
	Nahar	-	-	-	0.80	9	5400	
	Suthana	-	-	-	2.00	40	22000	

Green Fodder		Stalks, Rice, Jowar,	Other Crops	
Area (Hects)	Value (Rs.)	Bajra, Maize and Sugarcane Value (Rs.)	Area (Hects)	Value (Rs.)
28	29	30	31	32
0.40	5000	2000	-	-
-	-	5800	0.80	1500
-	-	2000	1.40	7500
-	-	2000	1.20	8500
-	-	4000	1.20	4500
0.80	26000	-	-	-
0.40	5500	-	-	-
-	-	3000	0.80	4500
-	-	24500	3.20	10300
-	-	13000	2.60	10500
-	-	2500	1.20	4200
-	-	5000	1.80	11500
-	-	1900	-	-
0.40	3000	2280	-	-
0.40	4000	2280	0.40	5200
-	-	1000	1.60	26000
0.80	13000	4500	-	-
-	-	2850	-	-
-	-	4590	-	-
1.20	21000	-	-	-
-	-	7600	-	-
-	-	2000	-	-
0.20	3500	2000	-	-
2.00	32000	-	-	-
0.40	8000	-	7.20	100800
0.20	3500	3000	-	-
1.20	16000	2500	-	-
0.20	5000	1920	-	-
-	-	400	-	-
-	-	5000	-	-
-	-	2000	-	-
-	-	1540	0.40	2800
-	-	4000	0.40	-
-	-	4250	-	-
-	-	3500	-	-
-	-	4000	-	-
0.40	8000	4000	-	-
-	-	5000	-	-
0.40	12000	6000	-	-
-	-	-	-	-
0.40	4000	2500	-	-
-	-	4000	-	-
-	-	2000	-	-
-	-	1200	-	-
-	-	8500	1.20	7000

APPENDIX - II-B

Cropped area, Yield and its Value of crops sown on Unirrigated land (Kharif) 2005-06

Zone	District	Holdings	Paddy			Bajra		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8	9
Northern	Panchkula	Madna	-	-	-	-	-	-
		Morni	-	-	-	-	-	-
	Yamuna Nagar	Bheel Chhappar	-	-	-	-	-	-
Central	Rohtak	Jubbal	-	-	-	-	-	-
		Bhali Anandpur	-	-	-	-	-	-
		Madina	-	-	-	-	-	-
	Jhajjar	Bhali Anandpur	-	-	-	-	-	-
		Dhandhlan	-	-	-	-	-	-
	Sonipat	Dhandhlan	-	-	-	-	-	-
		Dulehra	-	-	-	0.40	3	1650
Mudlana		-	-	-	0.40	6	3300	
Western	Bhiwani	Mohana	-	-	-	-	-	-
		Gudha	-	-	-	-	-	-
		Hatempura	-	-	-	-	-	-
		Hatempura	-	-	-	-	-	-
	Hisar	Dhani Hunat	-	-	-	2.00	-	-
		Dhani Hunat	-	-	-	4.80	-	-
		Agroha	-	-	-	-	-	-
Sirsa	Nejjia Khera	-	-	-	-	-	-	
Southern	Faridabad	Madkola	-	-	-	-	-	-
	Gurgaon	Mandi Khera	-	-	-	-	-	-
		Garhi Harshu	-	-	-	-	-	-
		Malab	-	-	-	0.80	15	8250
	Mahendergarh	Malab	-	-	-	1.60	30	16500
		Kheri Nuh	-	-	-	0.80	16	8800
		Napla	-	-	-	1.20	-	-
God		-	-	-	0.80	8	4400	
Satnali	-	-	-	1.20	4	2200		

APPENDIX - III-A

Cropped area, Yield and its Value of crops sown on Irrigated Land (Rabi) 2005-06

Zone	District	Holdings	Wheat			Wheat (Bhusa)	
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8
Northern	Ambala	Sain Majra	1.50	60	42000	60	10800
		Samlehri	1.40	37	25900	35	5250
		Kodwa Kalan	2.00	85	59500	75	15000
		Bhurewala	2.20	54	37800	54	10800
		Kesopur	2.20	65	45500	65	13000
		Alipur	1.20	50	35000	50	7500
		Sullar	3.00	98	68600	98	14700
		Kapoori	0.40	16	11200	10	1500
		Khudda Kalan	2.40	60	42000	60	9000
		Mohra	3.40	100	70000	100	15000
	Panchkula	Patvi	2.60	90	63000	80	16000
		Barara	5.00	167	116900	167	30060
		Madna	0.40	12	8400	12	1500
		Tiba majra	0.70	38	26600	35	3500
		Bharoli	1.70	35	24500	35	8750
		Kiratpur	2.92	65	45500	65	9750
		Surajpur	2.40	80	56000	40	6000
		Garhi Kotaha	2.40	84	58800	80	12000
		Barwala	3.00	105	73500	100	15000
		Karnal	Bazidpur	1.33	60	42000	60
	Bijna		1.50	70	49000	70	10500
	Fusgarh		1.50	75	52500	45	5625
	Bazidpur		2.20	105	73500	105	15750
	Bijna		2.50	116	81200	116	17400
	Uplana		2.50	110	77000	54	7720
	Dadupur Roran		2.80	140	98000	140	17500
	Dadupur Roran		2.70	135	94500	135	16875
	Padhana		3.20	140	98000	140	21000
	Padhana		3.20	136	95200	136	20000
	Kurukshetra	Fusgarh	2.74	125	87500	125	15000
		Uplana	5.30	240	168000	145	18850
		Sandholi	2.00	75	52500	25	3750
		Bin	2.20	90	63000	90	10800
		Dhantori	2.80	133	93100	100	15000
		Khanpur Kolian	3.60	127	88900	70	10500
		Jandhera	1.40	63	44100	65	6500
		Kamoda	4.00	160	112000	120	18000
		Chandun Jattan	4.40	210	147000	200	22000
		Berhan	0.80	32	22400	30	4500
		Phalsanda Rangran	0.80	26	18200	30	4500
		Sarsa	6.32	260	182000	50	7500
		Panipat	Hathwala	1.50	58	40600	58
	Diwana		1.60	70	49000	70	7000
Sanoli Kalan	2.20		100	70000	100	10000	
Sanoli Kalan	2.40		90	63000	90	9000	
Didwari	2.20		80	56000	80	8000	
Naya Nara	2.70		126	88200	54	5400	
Jhati Pur	2.80		82	57400	82	9020	
Hathwala	3.00		120	84000	120	12000	
Kurana	3.40		157	109900	157	15700	
Adiyana	6.00		280	196000	280	28000	

Zone	District	Holdings	Wheat			Wheat (Bhusa)	
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8
Northern	Yamuna Nagar	Mustamabad	2.10	75	52500	75	7500
		Sabepur	1.10	42	29400	36	5040
		Bheel Chhappar	2.00	50	35000	50	6000
		Jubbal	1.68	60	42000	60	9000
		Sarwan	1.60	60	42000	40	6000
		Radauri	2.40	105	73500	90	13500
		Leda khash	3.00	110	77000	105	14700
		Gundiana	2.40	90	63000	90	13500
		Kanipala	4.70	176	123200	150	21000
		Dariyapur	6.00	180	126000	180	27000
		Dorrang	3.60	135	94500	90	12600
Balachaur	10.00	400	280000	375	52500		

Barley			Barley (Bhusa)			Gram			Gram (Bhusa)	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	
9	10	11	12	13	14	15	16	17	18	
-	-	00001	-	-	-	-	-	-	-	
-	-	00002	-	-	-	-	-	-	-	
-	-	00003	-	-	-	-	-	-	-	
-	-	00004	-	-	-	-	-	-	-	
-	-	00005	-	-	-	-	-	-	-	
-	-	00006	-	-	-	-	-	-	-	
-	-	00007	-	-	-	-	-	-	-	
-	-	00008	-	-	-	-	-	-	-	
-	-	00009	-	-	-	-	-	-	-	
-	-	00010	-	-	-	-	-	-	-	
-	-	00011	-	-	-	-	-	-	-	
-	-	00012	-	-	-	-	-	-	-	
-	-	00013	-	-	-	-	-	-	-	
-	-	00014	-	-	-	-	-	-	-	
-	-	00015	-	-	-	-	-	-	-	
-	-	00016	-	-	-	-	-	-	-	
-	-	00017	-	-	-	-	-	-	-	
-	-	00018	-	-	-	-	-	-	-	
-	-	00019	-	-	-	-	-	-	-	
-	-	00020	-	-	-	-	-	-	-	
-	-	00021	-	-	-	-	-	-	-	
-	-	00022	-	-	-	-	-	-	-	
-	-	00023	-	-	-	-	-	-	-	
-	-	00024	-	-	-	-	-	-	-	
-	-	00025	-	-	-	-	-	-	-	
-	-	00026	-	-	-	-	-	-	-	
-	-	00027	-	-	-	-	-	-	-	
-	-	00028	-	-	-	-	-	-	-	
-	-	00029	-	-	-	-	-	-	-	
-	-	00030	-	-	-	-	-	-	-	
-	-	00031	-	-	-	-	-	-	-	
-	-	00032	-	-	-	-	-	-	-	
-	-	00033	-	-	-	-	-	-	-	
-	-	00034	-	-	-	-	-	-	-	
-	-	00035	-	-	-	-	-	-	-	
-	-	00036	-	-	-	-	-	-	-	
-	-	00037	-	-	-	-	-	-	-	
-	-	00038	-	-	-	-	-	-	-	
-	-	00039	-	-	-	-	-	-	-	
-	-	00040	-	-	-	-	-	-	-	
-	-	00041	-	-	-	-	-	-	-	
-	-	00042	-	-	-	-	-	-	-	
-	-	00043	-	-	-	-	-	-	-	
-	-	00044	-	-	-	-	-	-	-	
-	-	00045	-	-	-	-	-	-	-	
-	-	00046	-	-	-	-	-	-	-	
-	-	00047	-	-	-	-	-	-	-	
-	-	00048	-	-	-	-	-	-	-	
-	-	00049	-	-	-	-	-	-	-	
-	-	00050	-	-	-	-	-	-	-	
-	-	00051	-	-	-	-	-	-	-	
-	-	00052	-	-	-	-	-	-	-	
-	-	00053	-	-	-	-	-	-	-	
-	-	00054	-	-	-	-	-	-	-	
-	-	00055	-	-	-	-	-	-	-	
-	-	00056	-	-	-	-	-	-	-	
-	-	00057	-	-	-	-	-	-	-	
-	-	00058	-	-	-	-	-	-	-	
-	-	00059	-	-	-	-	-	-	-	
-	-	00060	-	-	-	-	-	-	-	
-	-	00061	-	-	-	-	-	-	-	
-	-	00062	-	-	-	-	-	-	-	
-	-	00063	-	-	-	-	-	-	-	
-	-	00064	-	-	-	-	-	-	-	
-	-	00065	-	-	-	-	-	-	-	
-	-	00066	-	-	-	-	-	-	-	
-	-	00067	-	-	-	-	-	-	-	
-	-	00068	-	-	-	-	-	-	-	
-	-	00069	-	-	-	-	-	-	-	
-	-	00070	-	-	-	-	-	-	-	
-	-	00071	-	-	-	-	-	-	-	
-	-	00072	-	-	-	-	-	-	-	
-	-	00073	-	-	-	-	-	-	-	
-	-	00074	-	-	-	-	-	-	-	
-	-	00075	-	-	-	-	-	-	-	
-	-	00076	-	-	-	-	-	-	-	
-	-	00077	-	-	-	-	-	-	-	
-	-	00078	-	-	-	-	-	-	-	
-	-	00079	-	-	-	-	-	-	-	
-	-	00080	-	-	-	-	-	-	-	
-	-	00081	-	-	-	-	-	-	-	
-	-	00082	-	-	-	-	-	-	-	
-	-	00083	-	-	-	-	-	-	-	
-	-	00084	-	-	-	-	-	-	-	
-	-	00085	-	-	-	-	-	-	-	
-	-	00086	-	-	-	-	-	-	-	
-	-	00087	-	-	-	-	-	-	-	
-	-	00088	-	-	-	-	-	-	-	
-	-	00089	-	-	-	-	-	-	-	
-	-	00090	-	-	-	-	-	-	-	
-	-	00091	-	-	-	-	-	-	-	
-	-	00092	-	-	-	-	-	-	-	
-	-	00093	-	-	-	-	-	-	-	
-	-	00094	-	-	-	-	-	-	-	
-	-	00095	-	-	-	-	-	-	-	
-	-	00096	-	-	-	-	-	-	-	
-	-	00097	-	-	-	-	-	-	-	
-	-	00098	-	-	-	-	-	-	-	
-	-	00099	-	-	-	-	-	-	-	
-	-	00100	-	-	-	-	-	-	-	

Pulses			Pulses (Bhusa)		Oilseeds			Green Fodder		Other crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Qtls)	Area (Hects)	Value (Rs.)
19	20	21	22	23	24	25	26	27	28	29	30
-	-	-	-	-	-	-	-	0.50	10000	-	-
-	-	-	-	-	0.80	10	14000	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.40	10800	-	-
0.30	6	3000	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.60	15000	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
0.10	-	700	-	-	1.60	30	45000	0.20	5000	-	-
-	-	-	-	-	0.20	4	6000	0.80	16000	0.30	10000
-	-	-	-	-	-	-	-	-	-	2.00	106000
-	-	-	-	-	1.00	15	19600	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.30	8000	0.70	22400
-	-	-	-	-	-	-	-	0.04	1500	0.66	8000
-	-	-	-	-	-	-	-	0.28	15750	-	-
-	-	-	-	-	-	-	-	0.72	5500	-	-
-	-	-	-	-	0.40	8	9600	-	-	0.40	6875
-	-	-	-	-	0.40	4	6900	0.40	10000	-	-
-	-	-	-	-	-	-	-	0.12	5000	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	0.10	2	3200	0.10	2000	-	-
-	-	-	-	-	-	-	-	0.20	7000	-	-
-	-	-	-	-	-	-	-	0.10	3000	-	-
-	-	-	-	-	-	-	-	0.30	10000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.30	8000	-	-
-	-	-	-	-	-	-	-	0.40	12000	0.40	4000
-	-	-	-	-	-	-	-	0.40	12000	1.20	40000
-	-	-	-	-	-	-	-	0.16	3200	0.10	-
-	-	-	-	-	-	-	-	0.30	10000	-	-
-	-	-	-	-	-	-	-	0.10	2500	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.20	8000	0.20	24500
-	-	-	-	-	-	-	-	0.24	5000	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.60	18000	-	-
-	-	-	-	-	-	-	-	0.40	16000	-	-
-	-	-	-	-	1.80	31	46500	0.40	8000	2.40	200000
-	-	-	-	-	2.20	34	51000	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.10	2000	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	-	-	-	0.10	2000	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	-	-	-	0.20	8500	-	-

Pulses			Pulses (Bhusa)		Oilseeds			Green Fodder		Other crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Qtls)	Area (Hects)	Value (Rs.)
19	20	21	22	23	24	25	26	27	28	29	30
-	-	-	0.04	-	0.10	1	1700	0.15	6250	-	-
-	-	-	-	-	-	-	-	0.10	3000	-	-
-	-	-	-	-	-	-	-	0.10	3500	-	-
-	-	-	-	-	0.08	3	4500	0.40	10000	0.08	3600
-	-	-	-	-	0.80	14	14000	0.20	4000	0.40	10000
-	-	-	-	-	-	-	-	0.40	14000	0.40	54000
-	-	-	-	-	-	-	-	0.60	14000	-	-
-	-	-	-	-	-	-	-	0.80	16000	-	-
-	-	-	-	-	-	-	-	0.40	16000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	2.00	50	85000	0.80	7000	0.80	44000
-	-	-	-	-	-	-	-	1.20	25000	-	-

Zone	District	Holdings	Wheat			Wheat(Bhusa)	
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8
Central	Jind	Dalamwala	1.00	50	35000	50	5000
		Naguran	1.50	60	42000	60	6000
		Palwan	1.20	42	29400	42	4200
		Khanda	1.80	72	50400	72	9900
		Uchana Khurd	2.10	80	56000	80	6400
		Kaiwa	2.20	90	63000	90	9000
		Rajhana Khurd	2.48	100	70000	100	10000
		Karsandhu	2.50	114	79800	114	17100
		Ujhana	3.00	120	84000	120	9600
		Ujhana	3.40	130	91000	-	5200
		Kilazafargarh	2.50	100	70000	100	10000
		Desh Khera	3.50	150	105000	100	20000
		Bhadurgarh	6.00	264	163800	234	23400
		Barah Kalan	6.70	200	140000	194	19400
		Kaithal	Rajaund	0.60	30	21000	30
	Chhot		0.60	30	21000	30	6000
	Harigarh Kingan		1.80	100	70000	100	25000
	Kharak Pandwan		2.00	90	63000	80	14400
	Dhand		2.80	112	78400	112	16800
	Barot		3.20	125	87500	120	18000
	Harigarh Kingan		3.60	160	112000	160	16000
	Mohna		4.00	180	126000	180	45000
	Kithana		4.60	230	161000	200	40000
	Kharak Pandwan		6.80	300	210000	300	24000
	Rohtak	Bhalot	0.80	32	22400	32	8000
		Bhalot	0.50	25	17500	25	6250
		Kheri Sampla	-	-	-	-	-
		Kheri Sampla	-	-	-	-	-
		Bhali Anandpur	0.60	30	21000	30	6000
		Lakhan Majra	1.20	45	31500	45	13500
		Lakhan Majra	1.40	56	39200	50	12500
		Madina	1.40	38	26600	38	6650
		Madina	-	-	-	-	-
		Bhali Anandpur	2.40	80	56000	80	24000
	Jhajjar	Matanhel	1.40	29	20800	29	5800
		Dhandhlan	1.00	40	28000	40	8000
		Dhandhlan	1.20	38	26600	38	7600
		Matanhel	1.20	29	20300	29	4350
		Salhawas	0.80	32	22400	32	3200
		Salhawas	0.80	28	19600	28	2800
Hasanpur		1.20	48	33600	48	9600	
Dulhera		1.20	50	35000	50	10000	
Dulhera		2.40	108	75600	108	16200	
Hasanpur		1.20	46	32200	46	9200	

Zone	District	Holdings	Wheat			Wheat(Bhusa)	
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8
Central	Sonipat	Chindana	1.00	40	28000	40	6000
		Nirthan	0.80	32	22400	32	6400
		Ahulana	1.00	32	22400	32	6400
		Panchi Jatan	1.20	48	33600	48	9600
		Khewra	1.60	72	50400	72	12600
		Mudlana	0.60	25	17500	25	5000
		Rohat	1.32	53	37100	53	10600
		Bhigan	1.80	80	56000	80	16000
		Kheri Dhamkan	2.00	80	56000	80	12000
		Rai	3.00	120	84000	120	24000
		Mohana	2.60	128	89600	130	19500
		Chitana	4.00	160	112000	160	24000
		Gudha	3.90	160	112000	160	24000
Kasanda	4.20	200	140000	200	40000		

Pulses			Pulses (Bhusa)		Oilseeds			Green Fodder		Other crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hect)	Value (Qtls)	Area (Hect)	Value (Rs.)
19	20	21	22	23	24	25	26	27	28	29	30
-	-	-	-	-	-	-	-	0.10	1000	-	-
-	-	-	-	-	-	-	-	0.10	4000	-	-
-	-	-	-	-	0.40	5	6000	0.20	2000	0.20	600
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.10	1000	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.16	8000	-	-
-	-	-	-	-	-	-	-	0.20	4400	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	0.70	8	14600	0.30	12000	0.10	1500
-	-	-	-	-	0.30	4	8360	0.20	4000	-	-
-	-	-	-	-	-	-	-	0.40	16000	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	0.40	10000	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.80	6	10275	0.20	4200	-	-
-	-	-	-	-	0.80	8	25920	0.20	7500	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.20	2	4000	0.20	3000	-	-
-	-	-	-	-	0.40	1	1950	0.20	3000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	7000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1.20	22	39730	-	-	-	-
-	-	-	-	-	1.20	20	36300	-	-	-	-
-	-	-	-	-	1.60	16	29440	-	-	-	-
-	-	-	-	-	2.00	40	71100	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	2.20	24	71160	-	-	-	-

Pulses			Pulses (Bhusa)		Oilseeds			Green Fodder		Other crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hect)	Value (Qtls)	Area (Hect)	Value (Rs.)
19	20	21	22	23	24	25	26	27	28	29	30
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	7500	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0.80	25	25000	-	-	-	-	-	0.08	2000	-	-
-	-	-	-	-	-	-	-	0.40	15500	-	-
-	-	-	-	-	-	-	-	0.40	16000	-	-
-	-	-	-	-	-	-	-	0.20	7500	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.08	2000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.80	16	28200	0.20	4000	-	-

Zone	District	Holdings	Wheat			Wheat (Bhusa)	
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8
Western	Bhiwani	Chandeni	1.20	36	25200	40	6000
		Gignow	0.80	18	12600	18	3150
		Gignow	0.80	38	26600	38	6650
		Bhariwas	1.00	20	14000	20	2500
		Jattu Lohari	0.80	24	16800	24	3600
		Jattu Lohari	1.00	12	8400	12	3000
		Chang	0.80	25	17500	25	4000
		Loharwara	1.60	50	35000	52	7800
		Bhariwas	-	-	-	-	-
		Chang	2.80	110	77000	110	11000
		Loharwara	2.00	60	42000	60	12000
		Chandeni	1.60	60	42000	60	9000
		Sagwan	4.40	176	123200	176	35200
		Sagwan	4.40	176	123200	173	35200
		Dhani Hunat	1.20	40	28000	40	8000
	Dhani Hunat	1.60	55	38500	55	11000	
	Hisar	Litani	1.20	51	35700	51	7650
		Majra	1.60	72	50400	75	15000
		Pabra	1.60	56	39200	60	12000
		Sarsod	0.40	15	10500	15	3000
		Chikanwas	1.10	40	28000	40	8000
		Data	1.80	67	46900	67	13400
		Bhatol Jattan	1.40	49	34300	49	9800
		Arya Nagar	1.80	63	44100	63	12600
		Ghirai	2.50	112	78400	70	14000
		Behabalpur	1.20	48	33600	45	9000
		Bhatol Jattan	1.80	71	49700	71	14200
		Harikot	2.80	112	78400	115	23000
		Dhiranwas	1.20	36	25200	36	7200
		Narnaund	6.40	260	182000	250	50000
		Agroha	3.80	120	84000	120	24000
		Kabral	4.00	160	112000	160	32000
		Balawas	0.80	28	19600	15	3000
Fatehabad		Moda Khera	8.80	352	246400	352	70400
	Kanheri	0.80	40	28000	40	6000	
	Jamalpur Sekha	1.40	48	33600	48	7200	
	Chimo	1.40	70	49000	22	3300	
	Jhandli khurd	2.00	80	56000	80	12800	
	Jakhal	2.60	110	77000	110	15400	
	Jakhal	2.60	104	72800	104	15600	
	Dariya Pur	3.40	170	119000	170	25500	
	Nehla	2.60	120	84000	120	18000	
	Dhabi kalan	2.00	60	42000	60	9000	
	Matana	5.00	205	143500	205	30750	
	Bhattu Kalan	4.80	192	134400	192	28800	
	Aharwan	4.60	193	135100	193	24125	

Zone	District	Holdings	Wheat			Wheat (Bhusa)	
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8
Western	Sirsa	Malekan	1.00	60	42000	60	12000
		Abholi	0.85	28	19600	28	5600
		Sultan Puri	1.30	68	47600	68	10200
		Umed Pura	1.30	36	25200	36	7200
		Bhawdin	1.80	120	84000	120	18000
		Sanvat khera	2.60	105	73500	105	21000
		Panihari	2.80	101	70700	101	20200
		Nejia Khera	2.20	66	46200	66	9900
		Sahuwala	5.60	238	166600	238	47600
		Banwala	6.00	310	217000	310	46500
		Odhan	6.80	300	210000	300	45000
		Ding	7.80	310	217000	310	62000
		Thiraj	7.60	390	273000	390	58500
Chhormar Khera	5.20	200	140000	200	40000		

Pulses			Pulses (Bhusa)		Oilseeds			Green Fodder		Other crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Qtls)	Area (Hects)	Value (Rs.)
19	20	21	22	23	24	25	26	27	28	29	30
-	-	-	-	-	0.40	4	7400	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.40	8	12900	-	-	-	-
-	-	-	-	-	0.60	6	10950	-	-	-	-
-	-	-	-	-	1.15	8	13000	0.05	3000	-	-
-	-	-	-	-	0.40	3	4700	-	-	-	-
-	-	-	-	-	1.00	10	17000	0.20	4500	-	-
-	-	-	-	-	0.80	10	19000	-	-	-	-
-	-	-	-	-	2.40	19	35300	-	-	-	-
-	-	-	-	-	-	-	-	0.40	6000	-	-
-	-	-	-	-	1.20	15	26000	-	-	-	-
-	-	-	-	-	1.60	18	34200	-	-	-	-
-	-	-	-	-	-	-	-	-	-	0.40	4200
-	-	-	-	-	-	-	-	-	-	0.40	4200
-	-	-	-	-	1.20	30	54000	-	-	-	-
-	-	-	-	-	2.00	30	54000	-	-	-	-
-	-	-	-	-	-	-	-	0.30	6500	-	-
-	-	-	-	-	-	-	-	0.10	2500	-	-
-	-	-	-	-	-	-	-	0.10	2500	-	-
-	-	-	-	-	1.20	14	21840	0.20	8000	-	-
-	-	-	-	-	0.80	6	9960	0.10	3700	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	0.80	16	24000	0.20	5800	-	-
-	-	-	-	-	0.80	10	15000	0.20	5500	-	-
-	-	-	-	-	-	-	-	0.30	8000	-	-
-	-	-	-	-	-	-	-	0.10	2000	0.80	43200
-	-	-	-	-	1.60	16	24000	0.20	7200	-	-
-	-	-	-	-	1.30	19	32260	0.05	1800	-	-
-	-	-	-	-	2.50	25	37500	0.20	7000	-	-
-	-	-	-	-	-	-	-	0.40	10000	-	-
-	-	-	-	-	2.00	27	42120	0.40	15000	-	-
-	-	-	-	-	3.20	64	102400	0.20	4100	-	-
-	-	-	-	-	4.20	60	104700	-	-	-	-
-	-	-	-	-	3.20	32	48000	0.40	14400	-	-
-	-	-	-	-	-	-	-	0.20	4800	-	-
-	-	-	-	-	-	-	-	0.20	4800	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	2500	-	-
-	-	-	-	-	-	-	-	0.20	4800	-	-
-	-	-	-	-	-	-	-	0.20	4800	-	-
-	-	-	-	-	0.60	5	8500	0.20	3800	0.20	4350
-	-	-	-	-	1.20	20	34000	0.40	11800	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	0.80	12	20580	0.40	10400	-	-
-	-	-	-	-	-	-	-	0.60	12000	1.60	44000

Pulses			Pulses (Bhusa)		Oilseeds			Green Fodder		Other crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Qtls)	Area (Hects)	Value (Rs.)
19	20	21	22	23	24	25	26	27	28	29	30
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	0.15	3000	-
-	-	-	-	-	-	-	-	-	0.10	2500	-
-	-	-	-	-	0.60	8	12700	-	0.10	2500	-
-	-	-	-	-	-	-	-	-	0.20	4000	-
-	-	-	-	-	-	-	-	-	0.20	4000	-
-	-	-	-	-	-	-	-	-	0.40	10000	-
-	-	-	-	-	-	-	-	-	0.20	5000	-
-	-	-	-	-	-	-	-	-	0.40	9000	-
-	-	-	-	-	-	-	-	-	0.40	7000	-
-	-	-	-	-	-	-	-	-	0.40	10000	-
-	-	-	-	-	-	-	-	-	0.20	5000	-
-	-	-	-	-	-	-	-	-	0.40	10000	-
-	-	-	-	-	4.00	52	88400	0.80	27000	-	-

Zone	District	Holdings	Wheat			Wheat (Bhusa)		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	
1	2	3	4	5	6	7	8	
Southern	Faridabad	Likhi	1.20	36	25200	36	8000	
		Bhupgarh	1.40	55	38500	55	11000	
		Prithla	2.40	100	70000	100	18000	
		Prithla	2.40	94	65800	90	16200	
		Midkola	2.00	90	63000	90	18000	
		Nacholi	3.60	144	100800	144	21600	
		Nacholi	3.60	140	98000	140	21000	
		Midkola	2.80	100	70000	100	18000	
		Bhupgarh	4.20	160	112000	160	32000	
		Likhi	4.40	180	126000	180	40000	
		Sikri	6.60	198	138600	198	36000	
		Sikri	5.20	260	182000	260	41600	
		Gurgaon	Jamalpur	0.80	32	22400	32	3200
			Hassan Pur	1.20	48	33600	48	4800
	Hassan Pur		1.20	48	33600	48	4800	
	Khentawas		1.60	64	44800	64	6400	
	Alipur		2.00	90	63000	90	9000	
	BondaKalan		2.00	80	56000	80	8000	
	Uchha Majra		2.00	80	56000	80	8000	
	Alipur		1.50	65	45500	65	6500	
	Pangwa		1.20	48	33600	48	4800	
	Mandi Khera		2.40	66	46200	66	6600	
	Garhi Harshu		1.60	72	50400	72	7200	
	Nasir Was		4.80	90	63000	72	7200	
	Wazir Pur		2.80	98	68600	98	9800	
	Bichhor		1.20	30	21000	30	3000	
	Mahendergarh	Mohamadwas	4.40	165	115500	165	16500	
		Uninda	0.80	40	28000	40	8000	
		Bhugarka	0.40	11	7700	11	1100	
		Sehlanga	1.00	25	17500	25	2500	
		Shaharpur	0.60	20	14000	20	3000	
		Singhra	1.00	35	24500	35	7000	
		Riwasa	0.80	35	24500	40	10000	
		Nangal Nunia	0.30	6	4200	5	1250	
		Satnali	2.00	40	28000	40	12500	
		Rewari	Bhandore	0.40	22	15400	22	4400
			Suthana	0.60	24	16800	24	6250
			Pahlawas	0.80	28	19600	28	5600
			Mastapur	0.80	40	28000	40	8000
			Manethi	0.40	24	16800	24	6000
	Kapriwas		1.20	54	37800	54	10800	
	Maheshweri		2.00	80	56000	80	16000	
Lukhi	0.80		40	28000	40	4000		
Nahar	1.20		48	33600	48	9600		
Suthana	1.60		70	49000	70	17500		

Pulses			Pulses (Bhusa)		Oilseeds			Green Fodder		Other Crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Qtls)	Area (Hects)	Value (Rs.)
19	20	21	22	23	24	25	26	27	28	29	30
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.10	2400	-	-
-	-	-	-	-	0.30	6	9000	0.10	2000	-	-
-	-	-	-	-	1.00	15	22500	0.20	5500	-	-
-	-	-	-	-	0.20	3	4650	0.20	9000	-	-
-	-	-	-	-	0.80	12	18000	0.20	12000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.15	3400	-	-
-	-	-	-	-	0.40	8	14420	-	-	-	-
-	-	-	-	-	0.40	8	14420	-	-	-	-
-	-	-	-	-	0.80	16	28440	-	-	-	-
-	-	-	-	-	0.40	8	14420	-	-	-	-
-	-	-	-	-	0.80	14	25010	-	-	-	-
-	-	-	-	-	1.60	32	56880	-	-	-	-
-	-	-	-	-	2.00	40	71100	-	-	-	-
-	-	-	-	-	0.90	18	31870	-	-	-	-
-	-	-	-	-	3.60	50	90250	-	-	-	-
-	-	-	-	-	1.20	16	28940	-	-	-	-
-	-	-	-	-	2.20	44	78460	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	1.60	35000
-	-	-	-	-	0.40	6	10700	-	-	-	-
-	-	-	-	-	3.60	50	90250	-	-	-	-
-	-	-	-	-	0.20	3	5800	-	-	-	-
-	-	-	-	-	0.80	13	23795	-	-	-	-
-	-	-	-	-	0.60	10	16500	-	-	-	-
-	-	-	-	-	1.10	20	35800	-	-	-	-
-	-	-	-	-	2.00	18	33100	-	-	-	-
-	-	-	-	-	2.20	35	54000	-	-	-	-
-	-	-	-	-	6.10	100	181500	-	-	-	-
-	-	-	-	-	0.80	7	13005	-	-	-	-
-	-	-	-	-	0.40	7	12505	-	-	-	-
-	-	-	-	-	0.80	14	25270	-	-	-	-
-	-	-	-	-	0.80	19	33585	-	-	-	-
-	-	-	-	-	0.80	18	31870	-	-	-	-
-	-	-	-	-	1.20	26	45700	-	-	-	-
-	-	-	-	-	2.00	50	77500	-	-	-	-
-	-	-	-	-	1.20	15	25500	-	-	-	-
-	-	-	-	-	2.80	70	121850	-	-	-	-
-	-	-	-	-	2.00	36	64240	-	-	-	-
-	-	-	-	-	2.00	35	56100	-	-	-	-

APPENDIX – III-B

Cropped area, Yield and Value of crops sown on Unirrigated land (Rabi) 2004-05

Zone	District	Holdings	Wheat			Wheat (Bhusa)		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	
1	2	3	4	5	6	7	8	
Northern	Panchkula	Madana	-	-	-	-	-	
		Morni	1.21	15	10500	10	1500	
	Yamuna Nagar	Bheel Chhappar	-	-	-	-	-	
		Jubbal	-	-	-	-	-	
Central	Rohtak	Bhali Annandpur	-	-	-	-	-	
		Madina	-	-	-	-	-	
		Bhali Annandpur	-	-	-	-	-	
	Jhajjar	Dulhera	-	-	-	-	-	
	Sonipat	Mudlana	1.20	25	17500	25	2500	
		Mohana	-	-	-	-	-	
Gudha		-	-	-	-	-		
Western	Bhiwani	Hatempura	-	-	-	-	-	
		Hatempura	-	-	-	-	-	
		Dhani Hunat	-	-	-	-	-	
		Dhani Hunat	-	-	-	-	-	
	Hisar	Agroha	-	-	-	-	-	
	Sirsa	Nejjia Khera	-	-	-	-	-	
	Southern	Faridabad	Madkola	-	-	-	-	-
Gurgaon			Mandi Khera	-	-	-	-	-
			Garhi Harshu	-	-	-	-	-
		Malab	2.40	48	33600	30	3000	
		Malab	3.60	81	56700	81	8100	
		Kheri Nuh	6.80	153	107100	105	10500	
Mahendergarh		Napla	-	-	-	-	-	
		God	-	-	-	-	-	
	Satnali	-	-	-	-	-		

Pulses			Pulses (Bhusa)		Oilseeds			Green Fodder		Other crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Qtls)	Area (Hects)	Value (Rs.)
19	20	21	22	23	24	25	26	27	28	29	30
-	-	-	-	-	0.20	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0.10	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1.00	5	9000	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1.20	3	6200	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.80	16	29200	-	-	-	-
-	-	-	-	-	1.60	24	42000	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.40	6	11000	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1.20	15	27225	-	-	-	-
-	-	-	-	-	2.40	36	65740	-	-	-	-
-	-	-	-	-	1.60	20	36300	-	-	-	-
-	-	-	-	-	0.80	5	9200	-	-	-	-
-	-	-	-	-	0.40	6	9700	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
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