

Publication No. 904



GOVERNMENT OF HARYANA

**ECONOMICS OF FARMING
IN HARYANA
2006-2007**

**Issued by:
ECONOMIC AND STATISTICAL ORGANISATION
PLANNING DEPARTMENT, HARYANA
2008**

PREFACE

The present report relates to annual series on 'Economics of Farming in Haryana'. It has been brought out by agriculture section on the basis of selected holdings and refers to the agriculture year 2006-07 (July,2006 to June,2007).

It contains four chapters and appendices, chapter-I is introductory while chapter-II deals with the Analysis of Farm Account Holdings, chapter-III deals with Economic Analysis of Selected Holdings, chapter-IV relates to the Summary and Conclusion.

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 report has been prepared by Sh. Karan Singh, Research Officer under the supervision of Sh. R.N. Dalal, Dy. Economic and Statistical Adviser and overall guidance of Sh. S.S.Bhoria, Joint Economic and Statistical Adviser and Sh. S.C.L.Datta, Additional Economic and Statistical Adviser. The assistance rendered by Sh. Jai Singh Dahiya Assistant Research Officer, Sh. Kitab Singh Sheokand, Assistant Research Officer, Smt. Bimla Chawla, F.A., 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 a useful tool for the agricultural planners and research workers in the State who are interested in the development of rural economy.

Chandigarh
Dated :
14.07.2008.

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CHAPTER – I INTRODUCTION

1.0 General

Agriculture holds the key of development in the process of growth in Haryana as well as in India's Economic 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 2006-2007 and covers 236 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 2006-07.

1.3 Sampling Design

Multistage sampling design was adopted for conducting the annual field 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. The village was taken as a primary unit and the particular holding was ultimate unit of survey. 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 236 agricultural holdings. Out of these holdings, 212 holdings were irrigated, 5 unirrigated and the remaining 19 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 (abiyana 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 outputs 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, the 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, Mewat.

CHAPTER – II

ANALYSIS OF FARM ACCOUNT HOLDINGS

2.0 General

This chapter deals with zone-wise and size group wise classification of all the 236 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, total cultivated area and average size of selected holdings

Sr.No.	Zone	No.of selected holdings	Total cultivated area of holdings (hectares.)	Average size of holdings (hectares)
1	2	3	4	5
1.	Northern	64 (27.12)	254.95 (30.96)	3.98
2.	Central	58 (24.57)	156.75 (19.03)	2.70
3.	Western	64 (27.12)	228.75 (27.78)	3.57
4.	Southern	50 (21.19)	183.10 (22.23)	3.66
	Total	236 (100.00)	823.55 (100.00)	3.49

Note : Figures in brackets indicate percentage to total.

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. Table 2.1 shows that the total cultivated area of all 236 selected holdings was 823.55 hectares with an average size of holdings of 3.49 hectares. The average size of holdings was the highest 3.98 hectare in Northern zone and the lowest 2.70 hectares in central zone.

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 selected holdings under peasant proprietorship and peasant proprietorship-cum-tenancy system (Area of hec.)

Sr.No.	Zone	Peasant proprietorship		Peasant proprietorship - cum-tenancy			Total	
		No. of holdings	Area	No. of holdings	Area	No. of holdings	Area	
1	2	3	4	5	6	7	8	
1.	Northern	41 (64.06)	138.30 (54.25)	23 (35.94)	116.65 (45.75)	64 (27.12)	254.95 (30.96)	
2.	Central	47 (81.03)	123.25 (78.63)	11 (18.97)	33.50 (21.37)	58 (24.57)	156.75 (19.03)	
3.	Western	54 (84.37)	193.15 (84.44)	10 (15.63)	35.60 (15.56)	64 (27.12)	228.75 (27.78)	
4.	Southern	40 (80.00)	136.70 (74.66)	10 (20.00)	46.40 (25.34)	50 (21.19)	183.10 (22.23)	
Total		182 (77.12)	591.40 (71.81)	54 (22.88)	232.15 (28.19)	236 (100.00)	823.55 (100.00)	

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

The table 2.2 depicts that out of total 823.55 hectares area 591.40 hectares area (71.81%) belonged to the peasant proprietor cultivators and remaining 232.15 hectares area (28.19%) 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 group of holdings (hec.)	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	49	67.65	8	5.60	-	4.60	10.20	57 (24.15)	77.85 (9.45)
2.0-4.0	81	222.45	23	38.55	0.60	23.80	62.95	104 (44.07)	285.40 (34.66)
4.0-7.5	43	218.10	18	58.10	0.20	47.00	105.30	61 (25.85)	323.40 (39.27)
7.5 – 10.0	7	58.80	3	17.10	1.80	4.00	22.90	10 (4.24)	81.70 (9.92)
10.0 & above	2	24.40	2	24.00	-	6.80	30.80	4 (1.69)	55.20 (6.70)
Total	182 (77.12)	591.40 (71.81)	54 (22.88)	143.35	2.60	86.20	232.15 (28.19)	236 (100.00)	823.55 (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 236 farm holdings, 182 holdings (77.12%) and 54 holdings (22.88%) were under peasant proprietorship & peasant proprietorship-cum-tenancy having an area of 591.40 hectares (71.81%) & 232.15 hectares (28.19%), respectively. It may also be inferred from the table that the maximum (44.07%) concentration of holdings was in the size group of 2.0-4.0 hectares and the minimum (1.69%) in the size group of 10.0 & above hectares. A majority of the holdings i.e. 69.92% were in the size groups of 2.0-4.0 & 4.0-7.5 hectares whereas 24.15% of the holdings belonged to the smallest size group of below 2.0 hectares. The remaining 5.93% holdings were in the size group of 7.5-10.0 and 10.0 hectares and above.

2.4 Extent of Irrigation

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

Table 2.4 : Number of selected holdings by extent of irrigation.

Sr.No.	Zone	Total number of selected holdings	Irrigated holdings	Partly irrigated holdings	Unirrigated holdings
1	2	3	4	5	6
1.	Northern	64	63	1	-
2.	Central	58	49	9	-
3.	Western	64	59	5	-
4.	Southern	50	41	4	5
Total		236 (100.00)	212 (89.83)	19 (8.05)	5 (2.12)

Table 2.4 shows that out of total 236 holdings, maximum number of holdings i.e. 212 holdings (89.83%) were fully irrigated as many as 5 (2.12%) holdings in southern were totally unirrigated and the remaining 19 holdings (8.05%) were partly irrigated.

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 total cultivated area irrigated/unirrigated area of the selected holdings.
(Area in hec.)

Sr.No.	Zone	Total cultivated area of all selected holdings	Irrigated area	Unirrigated area	Area percentage to the total cultivated area	
					Irrigated	Unirrigated
1	2	3	4	5	6	7
1.	Northern	254.95	254.75	0.20	99.92	0.08
2.	Central	156.75	150.15	6.60	95.79	4.21
3.	Western	228.75	213.95	14.80	93.53	6.47
4.	Southern	183.10	156.70	26.40	85.58	14.42
Total		823.55	775.55	48.00	94.17	5.83

It may be observed from the above table that 94.17% of the cultivated area was under irrigation whereas only 5.83% area was found unirrigated. The maximum of 99.92% of the total cultivated area in Northern zone was found under irrigation, where as it was the minimum of 85.58 in the Southern zone. The percentage of unirrigated area to total cultivated area was highest (14.42) in southern zone and it was lowest (0.08) in northern 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 selected holdings according to size, area and level of irrigation
(Area in hectares)

Size group of holdings (hec.)	Total number of holdings -	Total cultivated area of all selected hold-holdings	Wholly irrigated holdings		Partly irrigated holdings		Wholly unirrigated holdings		
			No.	Area	No	Area		No	Area
						Irri.	Unirri		
1	2	3	4	5	6	7	8	9	10
Below 2.0	57	77.85	52	70.45	3	3.00	1.60	2	2.80
2.0-4.0	104	285.40	96	264.10	7	14.10	3.60	1	3.60
4.0-7.5	61	323.40	53	282.45	7	21.75	12.60	1	6.60
7.5-10.0	10	81.70	8	65.70	1	4.80	2.80	1	8.40
10.0 & above	4	55.20	3	43.20	1	6.00	6.00	-	-
Total	236	823.55	212	725.90 (88.14)	19	49.65 (6.03)	26.60 (3.23)	5	21.40 (2.60)

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 236 holdings as many as 104 holdings were in the size group of 2.0-4.0 hectares having a total area of 285.40 hectares, 61 holdings were in the size group of 4.0-7.5 hectares with an area of 323.40 hectares. Whereas only 4 holdings belonged to the size group of 10.0 hectares & above. The table further reveals that 88.14 percent and 9.26 percent of the total area was found fully irrigated or partly irrigated and the remaining 3.23% 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
(Area in hectares)

Crops	Northern	Central	Western	Southern	Total
1	2	3	4	5	6
I. Cereals					
Paddy	159.60	76.80	27.80	15.20	279.40 (20.16)
Bajra	-	19.10	43.40	51.50	114.00 (8.23)
Maize	5.70	-	-	-	5.70 (0.41)
Jawar	-	-	-	8.40	8.40 (0.61)
Wheat	170.80	123.90	135.90	91.90	522.50 (37.70)
Barley	-	-	6.20	2.80	9.00 (0.65)
Total Cereals	336.10	219.80	213.30	169.80	939.00 (67.76)
II Pulses					
Gram	0.80	-	1.80	0.80	3.40 (0.24)
Other pulses	0.80	-	-	-	0.80 (0.06)
Total pulses	1.60	-	1.80	0.80	4.20 (0.30)
III. Cash crops					
Oilseeds (Rape & Mustard)	6.75	6.80	48.40	42.20	104.15 (7.51)
Sugarcane	59.60	11.00	-	-	70.60 (5.09)
Cotton (Desi)	-	4.20	4.00	0.80	9.00 (0.65)
Cotton (American)	-	-	74.80	0.40	75.20 (5.43)
Total cash crops	66.35	22.00	127.20	43.40	258.95 (18.68)
IV. Green Fodder	41.65	39.60	28.15	18.20	127.60 (9.21)
V. Other crops	13.00	7.40	24.30	11.40	56.10 (4.05)
Total of all crops	458.70 (33.10)	288.80 (20.84)	394.75 (28.48)	243.60 (17.58)	1385.85 (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	-	2.40	4.00	3.20	9.60 (25.13)
Maize	-	-	-	-	-
Jawar	-	-	-	-	-
Wheat	-	2.00	-	0.80	2.80 (7.33)
Barley	-	0.80	0.80	1.00	2.60 (6.80)
Total Cereals	-	5.20	4.80	5.00	15.00 (39.26)
II. Pulses					
Gram	-	-	10.80	3.20	14.00 (36.65)
Other pulses	-	-	-	-	-
Total pulses	-	-	10.80	3.20	14.00 (36.65)
III. Cash crops					
Oilseeds (Rape & Mustard)	-	1.60	3.20	2.40	7.20 (18.85)
Sugarcane	-	-	-	-	-
Cotton (Desi)	-	-	-	-	-
Cotton (American)	-	-	-	-	-
Total cash crops	-	1.60	3.20	2.40	7.20 (18.85)
IV. Green Fodder	-	-	-	-	-
V. Other crops	-	-	2.00	-	2.00 (5.24)
Total of all crops	-	6.80	20.80	10.60	38.20 (100.00)

Note : Figures in brackets indicate percentages to total

It may be seen from the foregoing Tables 2.6 (a) and 2.6 (b) that the total irrigated and unirrigated area of all crops was 1385.85 hectares and 38.20 hectares, respectively.

The percentage of irrigated area under wheat was the highest (37.70) followed by paddy 20.16, oilseeds 7.51 and green fodder 9.21. It may also be seen that the highest 458.70 (33.10) hectares irrigated area of all crops was observed in northern zone whereas it was lowest 243.60 (17.58) hectares in the southern zone. It may also be inferred that western zone had maximum (20.80 hectares) unirrigated area, whereas it was minimum 6.80 hectares in central 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 (36.65) followed by Wheat (7.33), Oilseeds (18.85) & bajra (25.13).

2.7 Intensity of Cropping

The choice and scope (pattern) 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.

(Area in hectares)					
Sr.No.	Crops	Total cropped area (Irrigated & unirrigated)	Percentage to total cropped area	Irrigated area	Percentage of irrigated area to total cropped area
1	2	3	4	5	6
1.	Paddy	279.40	19.62	279.40	100.00
2.	Bajra	123.60	8.68	114.00	92.23
3.	Maize	5.70	0.40	5.70	100.00
4.	Jawar	8.40	0.59	8.40	100.00
5.	Wheat	525.30	36.89	522.50	99.47
6.	Barley	11.60	0.82	9.00	77.59
7.	Gram	17.40	1.22	3.40	19.54
8.	Other Pulses	0.80	0.05	0.80	100.00
9.	Oilseeds (Rape & Mustard)	111.35	7.82	104.15	93.53
10.	Sugarcane	70.60	4.96	70.60	100.00
11.	Cotton Desi	9.00	0.63	9.00	100.00
12.	Cotton American	75.20	5.28	75.20	100.00
13.	Green Fodder	127.60	8.96	127.60	100.00
14.	Other Crops	58.10	4.08	56.10	96.56
	Total	1424.05	100.00	1385.85	97.32

It may be observed from the above table that the percentage of area under wheat was the highest 36.89, followed by paddy 19.62, Oilseeds (Rape & Mustard) 7.82, Green fodder 8.96 whereas only 0.40 percent area was under maize. The area under paddy, sugarcane, and cotton (desi & american) was fully irrigated where as 99.47% of the area under wheat & 100.00% 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

Sr. No.	Zone	Percentage of intensity		Total
		Irrigated	Unirrigated	
1	2	3	4	5
1	Northern	180.06	-	180.06
2	Central	192.34	103.03	188.58
3	Western	184.51	140.54	181.66
4	Southern	155.45	40.15	138.83
Overall intensity		178.69	79.58	172.28

As deputed table No. 2.7(b) the average intensity of cropping in the irrigated and unirrigated areas was 178.69 and 79.58, respectively. The central zone recorded the highest intensity of 192.34 whereas it was the lowest of 155.45 in southern zone on irrigated land. In case of unirrigated land, the intensity of cropping was highest 140.54 in western zone and lowest 40.15 in southern zone. The overall intensity was 172.28 for irrigated and unirrigated areas.

2.8 Output per hectare

Zone-wise yield per hectare of different crops in irrigated and unirrigated land is given in Table 2.8 (a) & 2.8 (b), respectively. The average yield per hectare of sugarcane was 64968 kgs, paddy 5190 kgs, wheat 3823 kgs, barley 3588 kgs, and oilseeds 1533 kgs, in irrigated areas. The average yield in unirrigated areas under wheat and oilseeds was 2643 kgs., 1056 kgs., respectively.

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

		(In Kgs.)				
Sr.No.	Crops	Northern	Central	Western	Southern	Average yield
1	2	3	4	5	6	7
A-Cereals						
1.	Paddy	5232	4397	7294	4921	5190
2.	Wheat (Grain)	3698	3795	4200	3533	3823
3.	Wheat (Bhusa)	2690	2792	2798	2371	2686
4.	Bajra (Grain)	-	1900	1652	1365	1564
5.	Maize (Grain)	2052	-	-	-	2052
6.	Jawar	-	-	-	548	548
7.	Barley (Grain)	-	-	3967	2750	3588
8.	Barley (Bhusa)	-	-	2741	2321	2577
B-Pulses						
1.	Gram (Grain)	1500	-	1167	1000	1265
2.	Gram (Bhusa)	-	-	-	-	-
3.	Other Pulses (Grain)	625	-	-	-	625
C-Cash Crops						
1.	Oilseeds (Rape & Mustard)	1259	1926	1543	1502	1533
2.	Sugarcane	63956	70454	-	-	64968
3.	Cotton (Desi & American)	-	1548	1910	667	1874

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

		(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)	-	2450	-	3125	2643
3.	Wheat (Bhusa)	-	2050	-	2500	2178
4.	Bajra (Grain)	-	750	875	2093	1250
5.	Maize (Grain)	-	-	-	-	-
6.	Jawar	-	-	-	-	-
7.	Barley (Grain)	-	-	-	-	-
8.	Barley (Bhusa)	-	-	-	-	-
B-Pulses						
1.	Gram (Grain)	-	-	740	875	771
2.	Gram (Bhusa)	-	-	-	-	-
3.	Other Pulses (Grain)	-	-	-	-	-
C-Cash Crops						
1.	Oilseeds (Rape & Mustard)	-	625	1250	1083	1056
2.	Sugarcane	-	-	-	-	-
3.	Cotton (Desi and American)	-	-	-	-	-

The average yield per hectare under irrigated area was worked out as 5190kg., 3823kg., 1265 kg., 64968 kg. and 1874 kg. of paddy, wheat (grain), gram, sugarcane and cotton (desi & american) respectively. The average yield per hectare of paddy and wheat was maximum i.e. 7294 kg. & 4200 kg. in western zone whereas in case of paddy it was minimum (4397 kg.) in central zone and in case of wheat it was minimum (3533 kg.) in southern zone.

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

(In Rs.)					
Items	Northern	Central	Western	Southern	Total
1	2	3	4	5	6
A-Farm					
(i) Farm buildings, cattlesheds & other structures	485744 (14.03)	178216 (16.08)	88768 (8.54)	223112 (7.68)	975840 (11.46)
(ii) Drought animals (including its acquisition)	72824 (2.10)	38192 (3.44)	63744 (6.14)	6840 (0.24)	181600 (2.13)
Total-A	558568 (16.13)	216408 (19.52)	152512 (14.68)	229952 (7.92)	1157440 (13.59)
B-Agricultural machinery					
(i) Tubewells/pumping sets	999496 (28.87)	306088 (27.61)	304560 (29.32)	657584 (22.64)	2267728 (26.64)
(ii) Machinery and equipments	1904120 (55.00)	585992 (52.87)	581736 (56.00)	2016464 (69.44)	5088312 (69.77)
Total – B	2903616 (83.87)	892080 (80.48)	886296 (85.32)	2674048 (92.08)	7356040 (86.41)
Grand Total (A+B)	3462184 (100.00)	1108488 (100.00)	1038808 (100.00)	2904000 (100.00)	8513480 (100.00)
Investment per hectare	13580	7072	4541	15860	10337

Note : Figures in brackets indicate percentages to total

The perusal of the table 2.9 (a) indicates that the total capital investment on farm buildings and drought animals was 13.59% against 86.41% capital investment on Tubewells/pumping sets and machinery & equipments. The capital investment in farm was the highest (19.52%) in central zone whereas it was lowest (7.92%) in southern zone. Similarly, in case of agricultural machinery, capital investment ranged between 80% to 92% in different zones. The overall capital investment per hectare was worked out to Rs. 10337.

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 farm agricultural machinery and equipments and tubewells/ pumping sets etc.

Sr. No.	Implements	Investment (In Rs.)	Percentage
1	2	3	4
1.	Tractor with accessories	3712584	50.47
2.	Tubewells/pumping sets	2267728	30.83
3.	Thrashers	185944	2.53
4.	Carts	112792	1.53
5.	Chaff cutters	106488	1.45
6.	Bar harrows	203480	2.77
7.	Iron ploughs	11808	0.16
8.	Rollers	3632	0.05
9.	Seed drills	42184	0.57
10.	Gur boiling pans	-	-
11.	Cane crashers	-	-
12.	Miscellaneous (Triphali-Sohaga, Spray pumps etc.)	709400	9.64
	Total	7356040	100.00

It may be observed from the above table that investment on tractor with accessories was 50.47% of the total capital investment on agricultural machinery and equipments followed by 30.83% on tubewells/pumping sets, 2.53% on thrashers, 2.77% on bar harrows and 1.45% on chaff cutters, respectively. The rest of the implements accounted for 11.95% of the total capital investment on agricultural machinery and equipments.

2.10 Use of chemical fertilizers

Crop-wise area of the selected holdings where chemical fertilizers were used is presented in the following table 2.10. 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.

Table 2.10 Total crop-wise area of holdings where chemical fertilizers were used
(Area in hectares)

Sr. No.	Crops	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	279.40	273.50	97.89	-	-	-
2.	Bajra	114.00	90.30	79.21	9.60	-	0.00
3.	Maize	5.70	5.10	89.47	-	-	-
4.	Jawar	8.40	0.00	0.00	-	-	-
5.	Wheat	522.50	521.10	99.73	2.80	2.80	100.00
6.	Barley	9.00	8.00	88.89	2.60	1.00	38.46
7.	Sugarcane	70.60	69.80	98.87	-	-	-
8.	Cotton (Desi)	9.00	8.40	93.33	-	-	-
9.	Cotton(American)	75.20	74.30	98.80	-	-	-
10.	Oilseeds (Rape & Mustard)	104.15	86.45	83.00	7.20	4.80	66.67
11.	Green fodder	127.60	98.15	76.92	-	-	-
12.	Other crops	56.10	38.60	68.81	2.00	1.80	90.00
Total		1381.65	1273.70	92.19	24.20	10.40	42.98

The data given in Table 2.10 reflects that the percentage of area under chemical fertilizers in the irrigated holdings was the highest (99.73%) in wheat, followed by sugarcane 98.87, cotton american 98.80, cotton desi 93.33 and paddy 97.89. In case of unirrigated holdings, the chemical fertilizer was found used in the entire area under wheat, where as it was being put in 66.67% of area under oilseeds, 90.00% of the area under others crops and 38.46% of area under barley.

2.11 Consumption of chemical fertilizers per hectare

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

Table 2.11 Consumption of chemical fertilizers per hectare under various crops.

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	273.50	93426	341.59	-	-	-
2.	Bajra	90.30	10965	121.43	-	-	-
3.	Maize	5.10	395	77.45	-	-	-
4.	Jawar	-	-	-	-	-	-
5.	Wheat	521.10	152080	291.84	2.80	525	187.50
6.	Barley	8.00	1500	187.50	1.00	100	100.00
7.	Sugarcane	69.80	25390	363.75	-	-	-
8.	Cotton (Desi)	8.40	1150	136.90	-	-	-
9.	Cotton (American)	74.30	13700	184.39	-	-	-
10.	Oilseeds (Rape & Mustard)	86.45	14835	171.60	4.80	775	161.46
11.	Green fodder	98.15	17530	178.60	-	-	-
12.	Other crops	38.60	7450	193.00	1.80	295	163.89
Total		1273.70	338421	265.70	10.40	1695	162.98

It may be observed from the above table that the consumption of chemical fertilizer per hectare in irrigated areas was highest in areas under sugarcane (363.75Kg) followed by paddy (341.59 Kg.), wheat (291.84 Kg), green fodder (178.60 Kg), barley (187.50Kg) & Cotton American (184.39 Kg) respectively.

In unirrigated areas, the consumption of fertilizer per hectare was highest in areas under wheat (187.50 Kg) followed by oilseed (161.46 Kg) and barley (100.00Kg) overall, the consumption of fertilizer per hectare was 265.70 Kg in irrigated area where as it was 162.98 Kg in unirrigated area. It is inferred from the above table that 102.72 Kg. more fertilizers were used in irrigated holdings as compared to unirrigated holdings

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:-

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

Item	Northern	Central	Western	Southern	Total
1	2	3	4	5	6
A Irrigated holdings					
(i) Area	251.85	132.80	196.75	144.50	725.90
(ii) No. of agricultural workers	142	149	180	140	611
(iii) Operated area per agricultural worker	1.77	0.89	1.09	1.03	1.19
B Partly irrigated holdings					
(i) Area	3.10	23.95	32.00	17.20	76.25
(ii) No. of agricultural workers	2	28	13	13	56
(iii) Operated area per agricultural worker	1.55	0.86	2.46	1.32	1.36
C Unirrigated holdings					
(i) Area	-	-	-	21.40	21.40
(ii) No. of agricultural workers	-	-	-	16	16
(iv) Operated area per agricultural worker	-	-	-	1.34	1.34
All holdings					
(i) Area	254.95	156.75	228.75	183.10	823.55
(ii) No. of agricultural workers	144	177	193	169	683
(iii) Operated area per agricultural worker	1.77	0.89	1.19	1.08	1.21

The perusal of Table 2.12 shows that the total operated area per permanent agricultural worker was 1.21 hectares. The operated area per agricultural worker in case of totally irrigated, partly irrigated and unirrigated holdings was 1.19, 1.36 and 1.34 hectares, respectively. The table further indicates that the northern zone claimed the largest operated area i.e. 1.77 hectares per agricultural worker whereas central zone claimed the smallest area of 0.89 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.

Sr. No.	Zone	wages paid (In Rs.)	
		Annually (**) (Permanent)	Daily (*) (Casual)
1	2	3	4
1	Northern	23234	101
2	Central	21328	110
3	Western	20484	102
3	Southern	22320	105
	Average	21826	104

* Exclusive of meal, tea, tobacco charges etc.

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

The daily wages paid to an agricultural worker (casual/hired) excluding daily perks like meals, tea and tobacco were Rs. 104. It is observed that the daily wages paid to the agricultural worker was the highest (Rs. 110) in central zone and the lowest (Rs. 101) in northern zone. The data given in Table 2.13 shows that total wages paid to a permanent worker for various agricultural operations worked out to Rs. 21826 annually. Besides, this permanent worker was also given meals, tea, tobacco etc. The wages system must be unique in all zones of the State.

2.14 Operated area per plough under various types of holdings

The operated area per plough (Bullocks, Camels and Tractors) 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).

Item	(Area in hectares)				
	Northern	Central	Western	Southern	Total
1	2	3	4	5	6
A Totally Irrigated holdings					
(i) Area	251.85	132.80	196.75	144.50	725.90
(ii) No. of plough	335	138	159	209	841
(iii) Operated area per plough	0.75	0.96	1.23	0.69	0.86
B Partly irrigated holdings					
(i) Area	3.10	23.95	32.00	17.20	76.25
(ii) No. of plough	1	16	12	22	51
(iii) Operated area per plough	3.10	1.50	2.67	0.78	1.50
C Unirrigated holdings					
(i) Area	-	-	-	21.40	21.40
(ii) No. of plough	-	-	-	17	17
(iii) Operated area per plough	-	-	-	1.26	1.26
All holdings					
(i) Area	254.95	156.75	228.75	183.10	823.55
(ii) No. of plough	336	154	171	248	909
(iii) Operated area per plough	0.76	1.02	1.34	0.74	0.91

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 taking into account both animal and tractor power worked out to 0.91 hectares. The operated area per plough was highest (1.50 hectares) in case of Partly irrigated holdings.

The area per plough in western zone was found to be maximum (1.34 hectares) where as it was minimum (0.74 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.

Type of holdings	Northern	Central	Western	Southern	Total
1	2	3	4	5	6
A Totally Irrigated holdings					
(i) No. of working days	16415	7038	8268	11286	43007
(ii) No. of plough	335	138	159	209	841
(ii) No. of working days per plough	49	51	52	54	51
B Partly irrigated holdings					
(i) No. of working days	41	800	636	1144	2621
(ii) No. of plough	1	16	12	22	51
(iii) No. of working days per plough	41	50	53	52	51
C Unirrigated holdings					
(i) No. of working days	-	-	-	663	663
(ii) No. of plough	-	-	-	17	17
(iv) No. of working days per plough	-	-	-	39	39
D Total (A+B+C)					
(i) No. of working days	16456	7838	8904	13093	46291
(ii) No. of plough	336	154	171	248	909
(iii) No. of working days per plough	49	51	52	53	51

The above table reveals that on an average, a cultivator worked with his plough for 51 days. Number of working days per plough in totally irrigated holdings was 51 where as it was found to be 39 only in case of unirrigated holdings. Number of working days per plough should increase to get more yield per hectares from irrigated and 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.

		(In Rs.)				
Sr.No.	Item	Northern	Central	Western	Southern	Overall average
1	2	3	4	5	6	7
1	Fodder	4423 (38.14)	4468 (36.88)	3869 (42.97)	5645 (44.65)	4601 (40.58)
2	Concentrates	1532 (13.21)	1906 (15.73)	1403 (15.58)	700 (5.54)	1385 (12.21)
3.	Upkeep labour	4167 (35.93)	4487 (37.04)	2801 (31.11)	5000 (39.55)	4114 (36.28)
4.	Interest & depreciation on capital cost	303 (2.62)	251 (2.07)	275 (3.05)	428 (3.38)	314 (2.77)
5.	Housing (Cattleshed)	891 (7.68)	968 (7.99)	558 (6.20)	720 (5.69)	784 (6.92)
6.	Medical care & miscellaneous	281 (2.42)	35 (0.29)	98 (1.09)	150 (1.19)	141 (1.24)
	Total	11597 (100.00)	12115 (100.00)	9004 (100.00)	12643 (100.00)	11339 (100.00)

Note : Figures in brackets indicate percentages to total

The expenditure on housing (cattleshed) and medical care was merely 6.92% and 1.24%, of the maintenance cost respectively. It may be observed from Table 2.16 that average maintenance cost per pair of bullocks was Rs. 11339 The expenditure on fodder and concentrates taken together formed 52.79% of the total maintenance cost. The percentage of upkeep labour and interest on capital investment on bullocks was 36.28 and 2.77, respectively. It was found to be maximum of Rs. 12643 in southern zone and minimum of Rs. 9004 in western zone.

CHAPTER-III

ECONOMIC ANALYSIS OF SELECTED HOLDINGS

3.0 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 all the farm holding's production whether it consumed at home, stocked for sale, 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 production 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.

		(In Rs.)				
Sr.No.	Crops	Northern	Central	Western	Southern	Overall average
1	2	3	4	5	6	7
1.	Paddy	41485	47874	51037	33960	43783
2.	Wheat (Grain)	31615	33607	35730	30032	32880
3.	Wheat (Bhusa)	5130	5354	5740	5308	5373
4.	Barley (Grain)	-	-	15297	14438	15029
5.	Barley (Bhusa)	-	-	5742	4643	5400
6.	Bajra (Grain)	-	11115	10094	9051	9794
7.	Maize (Grain)	16591	-	-	-	16591
8.	Jawar (grain)	-	-	-	4568	4568
9.	Gram (Grain)	41000	-	24778	27500	29235
10.	Gram (Bhusa)	-	-	-	-	-
11.	Other pulses (Grain)	15000	-	-	-	15000
12.	Cotton (Desi)	-	30762	32000	15875	29989
13.	Cotton (American)	-	-	37455	9400	37305
14.	Sugarcane	77035	87718	-	-	78700
15.	Oilseeds (Rape & Mustard)	22244	35132	26942	21005	24767
16.	Green fodder	26030	21444	25320	13828	22710
17.	Stalks of Paddy, Jawar, Bajra, Maize & sugarcane	1449	801	1744	1407	1362
18.	Other crops	46192	47633	17132	20820	28639

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

		(In Rs.)				
Sr.No.	Crops	Northern	Central	Western	Southern	Overall average
1	2	3	4	5	6	7
1.	Paddy	-	-	-	-	-
2.	Wheat (Grain)	-	22050	-	28125	23786
3.	Wheat (Bhusa)	-	4250	-	4375	4286
4.	Barley (Grain)	-	4687	8750	14000	9519
5.	Barley (Bhusa)	-	-	-	-	-
6.	Bajra (Grain)	-	4583	5250	13218	7739
7.	Maize (Grain)	-	-	-	-	-
8.	Jawar (grain)	-	-	-	-	-
9.	Gram (Grain)	-	-	14907	17500	15500
10.	Gram (Bhusa)	-	-	-	-	-
11.	Other pulses (Grain)	-	-	-	-	-
12.	Cotton (Desi)	-	-	-	-	-
13.	Cotton (American)	-	-	-	-	-
14.	Sugarcane	-	-	-	-	-
15.	Oilseeds (Rape & Mustard)	-	19375	27500	22750	24111
16.	Green fodder	-	-	-	-	-
17.	Stalks of Jawar, Bajra, Maize & sugarcane	-	-	-	-	-
18.	Other crops	-	-	7500	-	7500

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. 78700, Rs. 43783, Rs. 32880, Rs. 24767 and Rs. 22710, respectively. In case of unirrigated holdings, the gross return per hectare of Wheat, Barley, Bajra, Gram and Oilseeds was worked out as Rs. 23786, Rs. 9519, Rs. 7739, Rs. 15500 and Rs. 24111 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.

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	64026	24741	39285	66020	30934	35086
2.0-4.0	64595	25102	39493	88684	34090	54594
4.0-7.5	64913	26542	38371	71302	41673	29629
7.5-10.0	42168	21623	20545	50586	29018	21568
10.0 & above	39503	14766	24737	75671	48015	27656
Average	61591	24845	36746	74319	38738	35581
Unirrigated						
Below 2.0	39928	7145	32783	-	-	-
2.0-4.0	37021	13856	23165	-	-	-
4.0-7.5	35733	9049	26684	-	-	-
7.5-10.0	22464	4570	17894	-	-	-
10.0 & above	-	-	-	-	-	-
Average	31290	7850	23440	-	-	-
Overall average	60494	24230	36264	74319	38738	35581

The figures indicated in Table 3.1(c) show that gross income per hectare under peasant-proprietorship was highest (Rs. 64913) in the size group of 4.0-7.5 hectares in the irrigated holdings whereas it was minimum Rs. 39503) in the size group of 10.0 hectares & above. In case of unirrigated holdings, the maximum (Rs. 39928) gross income was recorded in the size group of below 2.0 hectares followed by size group of 2.0-4.0 hectares (Rs.37021).

The irrigated peasant proprietorship-cum-tenancy holdings recorded the highest (Rs. 88684) gross income per hectare is the size group of 2.0-4.0 hectares & above where as it was found to be the lowest (Rs. 50586) in the size group of 7.5 –10.0 hectares.

The peasant proprietors of irrigated holdings incurred an expenditure of Rs. 24845 per hectare where as it was Rs. 38738 for peasant proprietor-cum-tenants. The corresponding figures for unirrigated **peasant- Proprietorship** holdings were worked out to be Rs. 7850, an overall average of Rs. 24230 for **peasant-proprietorship-cum-tenancy** and 38738 for **peasant-proprietorship-cum-tenancy** respectively. It was seen that there is 28% increase in net income during this year i.e. Rs. 36264 as compared to last year net income of is (Rs. 28248) of peasant proprietorship.

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 sale, 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.

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	79276	36028	43248	79410	45206	34204
Central	69855	22509	47346	108869	36311	72558
Western	57434	21585	35849	69160	32439	36721
Southern	38509	19391	19118	40533	29060	11473
Average	61591	24845	36746	74319	38738	35581
Unirrigated						
Northern	-	-	-	-	-	-
Central	-	-	-	-	-	-
Western	-	-	-	-	-	-
Southern	31290	7850	23440	-	-	-
Average	31290	7850	23440	-	-	-
Overall average	60494	24230	36264	74319	38738	35581

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. 60494 , Rs. 24230 and Rs. 36264, respectively. Where as for holdings under peasant proprietorship-cum-tenancy it was worked out to be Rs. 74319, Rs. 38738 and Rs. 35581, respectively in irrigated areas. The table further shows that gross income per hectare in irrigated areas under peasant proprietorship systems was the highest (Rs. 79276) in northern zone whereas the lowest (Rs. 38509) income was recorded in southern zone. It is observed that net income increase by 35.10% under peasant proprietorship & peasant-proprietorship-cum-tenancy as compared to last year net income In case of holdings under peasant proprietorship-cum-tenancy system the highest (Rs. 108869) per hectare gross income was observed in central zone where as it was the lowest of Rs. 40533 in the southern zone. After comparative study between net income per hectare of peasant proprietorship & peasant-proprietorship-cum-tenant under irrigated and unirrigated holdings, it is concluding that net income of peasant proprietorship Rs. 683 (2%) more than the net income of peasant-proprietorship-cum-tenancy.

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	39285	35086
2.0-4.0	39493	54594
4.0-7.5	38371	29629
7.5-10.0	20545	21568
10 & above	24737	27656
Average	36746	35581
Unirrigated		
Below 2.0	32783	-
2.0-4.0	23165	-
4.0-7.5	26684	-
7.5-10.0	17894	-
10 & above	-	-
Average	23440	-
Overall average	36264	35581
B- Zone wise		
Irrigated		
Northern	43248	34204
Central	47346	72558
Western	35849	36721
Southern	19118	- 11473
Average	36746	- 35581
Unirrigated		
Northern	-	-
Central	-	-
Western	-	-
Southern	23440	-
Average	23440	-
Overall average	36264	35581

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. 36264 and Rs. 35581, respectively under different size groups as well as in zone.

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 236 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 236 selected holdings under this study was 823.55 hectares. Out of which, the area under peasant proprietorship and peasant proprietorship-cum-tenancy was 591.40 hectares and 232.15 hectares respectively. The average size of holdings was 3.49 hectares.
2. Out of total 236 selected holdings, 212 holdings (89.83%) were irrigated and 5 holdings (2.12%) were unirrigated. The remaining 19 holdings (8.05%) were partly irrigated. The analysis has further revealed that 94.17% 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 178.69% and 79.58%, respectively. The overall intensity was 172.92% workout.
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 67.76, 0.30 and 18.68 as against 39.26, 36.65 and 18.85 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 265.70 kgs., and 162.98 kgs., respectively.
5. The total capital investment per hectare was found to be Rs.10337, out of which 86.41% was utilised for agricultural machinery & tubewell/pumping sets and remaining 13.59% on farm building, cattlesheds and drought animals.
6. The average operated area per permanent agricultural worker was 1.21 hectares. A permanent hired agricultural worker was paid Rs. 21826 per annum inclusive of meals, tea & tobacco charges while a casual daily wage worker was given Rs. 104 per day exclusive of meal, tea & tobacco charges.
7. Average yield per hectare of paddy, wheat, bajra, maize, barley, gram, oilseeds & sugarcane was 5190 kgs., 3823 kgs., 1564 kgs., 2052 kgs., 3588 kgs., 1265 kgs., 1533 kgs., and 64968 kgs., respectively on irrigated land as compared to 2643 kgs. yield of wheat, 1250 kgs. bajra, 771 kgs. of gram and 1056 kgs. of oilseeds under unirrigated land.

8. The gross income per hectare of different crops like wheat, gram, sugarcane & oilseeds was Rs. 32880, Rs. 29235, Rs. 78700 and Rs. 24767 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. 23786, Rs. 9519, Rs. 7739, Rs. 15500 and Rs. 24111 respectively.
9. The average gross income of a peasant proprietor per hectare worked out to Rs. 61591 on irrigated areas as against Rs. 31290 on unirrigated areas. The average net income per hectare was calculated at Rs. 36746 from irrigated areas as compared to Rs. 23440 from unirrigated areas. In case of peasant proprietorship-cum-tenancy holdings, the average gross income per hectare was found to be Rs. 74319 on irrigated areas.
10. The gross income per hectare of operated area under peasant proprietorship & peasant proprietorship-cum-tenancy system of holdings was Rs. 60494 & Rs. 74319 respectively
11. The study further concluded that per hectare expenditure incurred by the sampled cultivators from farm cultivation was Rs. 24230 & Rs. 38738 respectively under peasant proprietorship & peasant proprietorship-cum-tenancy system of holdings .
12. The net income per hectare of operated area came out to Rs. 36264 for peasant proprietors whereas it was found to be Rs. 35581 for peasant proprietor-cum-tenants.

APPENDIX-I

List of Selected Holdings (2006-2007)

(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	2.75	-	2.75	
		Keso Pur	2.80	-	2.80	
		Jahangirpur	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	6.80	-	6.80	
		Barara	8.60	-	8.60	
		Panchkula	Madna	0.60	-	0.60
			Tibbi majra	1.05	-	1.05
	Morni		1.30	-	1.30	
	Bharoli		2.40	-	2.40	
	Kiratpur		3.20	-	3.20	
	Surajpur		3.20	-	3.20	
	Garhi Kotaha		3.20	-	3.20	
	Barwala		3.80	-	3.80	
	Karnal		Bazidpur	1.50	-	1.50
			Bijna	1.70	-	1.70
			Phusgarh	2.20	-	2.20
			Bazidpur	2.20	-	2.20
			Bijna	2.60	-	2.60
			Uplana	2.80	-	2.80
		Dadupur Roran	3.00	-	3.00	
		Dadupur Roran	3.00	-	3.00	
		Padhana	2.40	-	2.40	
		Padhana	4.80	-	4.80	
		Phusgarh	5.40	-	5.40	
		Uplana	4.20	-	4.20	
		Kurukshetra	Sandholi	2.10	-	2.10
			Bint	2.40	-	2.40
	Dhantori		3.20	-	3.20	
	Khanpur Kolian		3.90	-	3.90	
	Jandhera		4.00	-	4.00	
	Kamoda		4.60	-	4.60	
	Bakana		4.00	-	4.00	
	Berhan		5.80	-	5.80	
	Phalsanda Rangran		6.20	-	6.20	
	Sarsa		4.15	-	4.15	
	Panipat		Hathwala	1.60	-	1.60
			Diwana	2.00	-	2.00
			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	1.60	-	1.60	
		Hathwala	4.00	-	4.00	
		Kurana	4.00	-	4.00	
		Adiyana	6.40	-	6.40	

(Area in hectares)							
Zone	District	Holdings	Irrigated	Unirrigated	Total		
1	2	3	4	5	6		
Northern	Yamuna Nagar	Sabepur	2.60	-	2.60		
		Bheel Chhappar	2.90	0.20	3.10		
		Jubbal	3.30	-	3.30		
		Sarawan	3.40	-	3.40		
		Radauri	4.80	-	4.80		
		Leda khash	6.20	-	6.20		
		Sadik Pura	6.40	-	6.40		
		Gundiana	7.20	-	7.20		
		Damla	7.30	-	7.30		
		Dariyapur	10.80	-	10.80		
		Bhogpur	8.80	-	8.80		
		Balachaur	20.00	-	20.00		
		Total			254.75	0.20	254.95

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	3.60	-	3.60	
		Uchana Khurd	1.60	-	1.60	
		Kalwa	2.40	-	2.40	
		Bambhewa	4.80	-	4.80	
		Karsindhu	4.40	-	4.40	
		Ujhana	3.20	-	3.20	
		Ujhana	3.60	-	3.60	
		Kilazafargarh	3.80	-	3.80	
		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		2.00	-	2.00	
	Harigarh Kingan		4.00	-	4.00	
	Mohna		2.80	-	2.80	
	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	1.60	-	1.60	
		Lakhan Majra	1.60	0.40	2.00	
		Lakhan Majra	1.60	0.40	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		1.40	-	1.40	
	Salhawas		2.00	-	2.00	
	Salhawas		2.00	-	2.00	
Hasanpur	2.80		-	2.80		
Dulhera	3.20		-	3.20		
Dulhera	3.50		-	3.50		
Hasanpur	2.80		-	2.80		

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 Jattan	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	4.10	-	4.10
		Gudha	3.95	1.60	5.55
		Kasanda	6.00	-	6.00
		Total			150.15

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
		Bahal	3.00	-	3.00
		Chang	3.20	-	3.20
		Loharwara	3.20	-	3.20
		Chandeni	3.20	-	3.20
		Bahal	3.60	-	3.60
		Sagwan	4.80	-	4.80
		Sagwan	4.80	-	4.80
		Dhani Hunat	2.00	4.00	6.00
		Dhani Hunat	6.00	6.00	12.00
	Hisar	Litani	3.90	-	3.90
		Majra	1.70	-	1.70
		Pabra	3.20	-	3.20
		Sarsod	2.00	-	2.00
		Chikanwas	2.00	-	2.00
		Data	1.60	-	1.60
		Bhatol Jattan	2.40	-	2.40
		Arya Nagar	2.00	-	2.00
		Ghirai	2.80	-	2.80
		Behabalpur	3.10	-	3.10
		Bhatol Jattan	3.60	-	3.60
		Harikot	3.75	-	3.75
		Dhiranwas	4.30	-	4.30
		Narnaund	6.80	-	6.80
		Agroha	2.00	-	2.00
		Kabrail	8.00	-	8.00
Balawas	9.00	-	9.00		
Moda Khera	12.40	-	12.40		
Fatehabad	Kanheri	1.00	-	1.00	
	Jamalpur Sekha	1.60	-	1.60	
	Chimo	1.60	-	1.60	
	Jhandli khurd	2.00	-	2.00	
	Sakhar pura	2.80	-	2.80	
	Jakhal	2.80	-	2.80	
	Dariya Pur	3.00	-	3.00	
	Nahla	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	1.40	-	1.40
		Abholi	1.00	-	1.00
		Ottu	1.20	-	1.20
		Umed Pura	2.00	-	2.00
		Bhawdin	2.40	-	2.40
		Sanvat khera	2.80	-	2.80
		Panihari	2.80	-	2.80
		Nejjia Khera	2.40	1.60	4.00
		Sahuwala	6.00	-	6.00
		Banwala	6.40	-	6.40
		Odhan	4.80	-	4.80
		Ding	4.80	2.80	7.60
		Thiraj	4.00	-	4.00
		Chhormar Khera	2.00	0.40	2.40
Total			213.95	14.80	228.75

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	
		Nacholi	4.00	-	4.00	
		Nacholi	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
			Bhondsi	2.00	-	2.00
			Khentawas	2.40	-	2.40
			Bhondsi	2.80	-	2.80
	Jasat		4.80	-	4.80	
	Garhi Harshu		3.80	1.00	4.80	
	Jasat		6.00	-	6.00	
	Wazir Pur		7.60	-	7.60	
	Mahendergarh		Uninda	1.40	-	1.40
			Napla	-	1.20	1.20
		God	-	1.60	1.60	
		Bhungarka	1.60	-	1.60	
		Sehlang	1.60	-	1.60	
		Shaharpur	1.70	-	1.70	
		Sigra	3.00	-	3.00	
		Riwasa	3.00	-	3.00	
		Nangal Nunia	6.40	-	6.40	
		Satnali	2.80	2.40	5.20	
	Mewat	Hassanpur	1.60	-	1.60	
		Hassanpur	2.00	-	2.00	
		Mandkola	2.00	0.40	2.40	
		Malab	-	3.60	3.60	
		Mandikhera	3.60	1.20	4.80	
		Mandkola	4.00	-	4.00	
		Pingwan	4.80	-	4.80	
		Malab	-	6.60	6.60	
		Nasir Bas	6.80	-	6.80	
		Bichhor	8.00	-	8.00	
		Mohnmod Bas	8.00	-	8.00	
		Kheri Nuh	-	8.40	8.40	
	Rewari	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		
Khar khara		1.80	-	1.80		
Maheshwari		3.20	-	3.20		
Lukhi		3.60	-	3.60		
Nahara		3.20	-	3.20		
Suthana		6.00	-	6.00		
Total			156.70	26.40	183.10	

APPENDIX – II-A

Cropped area, Yield and its Value of crops sown on Irrigated Land (Kharif) 2006-07								
Zone	District	Holdings	Paddy			Maize		
			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	135	87750	-	-	-
		Samlehri	1.20	20	13200	0.60	12	9600
		Kodwa Kalan	1.60	85	55250	-	-	-
		Bhurewala	2.40	185	120250	-	-	-
		Keso pur	1.00	-	-	-	-	-
		Jahangir pur	1.45	80	52000	-	-	-
		Sullar	3.20	140	93600	-	-	-
		Kapoori	2.00	90	58500	-	-	-
		Khudda Kalan	1.60	50	32500	0.40	5	3500
		Mohra	4.60	213	161050	-	-	-
	Panchkula	Patvi	5.20	300	195000	-	-	-
		Barara	4.60	200	130000	0.40	10	8000
		Madna	0.30	10	15000	0.30	4	3200
		Tibi majra	1.05	58	37700	-	-	-
		Morni	1.30	10	7000	-	-	-
		Bharoli	1.10	40	26000	0.90	20	14400
		Kiratpur	0.40	22	14630	1.00	22	18920
		Surajpur	-	-	-	0.70	9	7200
		Garhi Kotaha	1.20	120	78000	1.40	35	29750
		Barwala	3.20	160	100800	-	-	-
	Karnal	Bazidpur	1.20	82	53560	-	-	-
		Bijna	1.60	73	62065	-	-	-
		Phusgarh	1.40	97	64505	-	-	-
		Bazidpur	2.00	100	66500	-	-	-
		Bijna	2.40	144	96480	-	-	-
		Uplana	2.60	118	93000	-	-	-
		Dadupur Roran	2.80	102	91800	-	-	-
		Dadupur Roran	2.60	117	132210	-	-	-
		Padhana	2.00	96	82560	-	-	-
		Padhana	4.00	238	178500	-	-	-
	Kurukshetra	Phusgarh	2.60	160	105600	-	-	-
		Uplana	4.00	240	156000	-	-	-
		Sandholi	2.00	125	81250	-	-	-
		Bint	2.20	125	81250	-	-	-
		Dhantori	3.00	210	136500	-	-	-
		Khanpur Kolian	3.60	190	123500	-	-	-
		Jandhera	1.40	87	56550	-	-	-
		Kamoda	4.00	240	156000	-	-	-
		Bakana	2.40	144	93600	-	-	-
		Berhan	2.40	180	117000	-	-	-
	Panipat	Phalsanda Rangran	2.40	145	135000	-	-	-
		Sarsa	4.00	248	196500	-	-	-
		Hathwala	1.50	62	62000	-	-	-
		Diwana	2.00	100	110000	-	-	-
		Sanoli Kalan	2.00	100	120000	-	-	-
		Sanoli Kalan	2.40	108	108000	-	-	-
		Didwari	2.20	70	84000	-	-	-
Naya Nara		2.60	91	145600	-	-	-	
Jhati Pur		1.40	68	81600	-	-	-	
Hathwala		3.60	180	216000	-	-	-	
Kurana	Kurana	4.00	180	180000	-	-	-	
	Adiyana	6.20	295	356950	-	-	-	

Zone	District	Holdings	Paddy			Maize		
			Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
1	2	3	4	5	6	7	8	9
Northern	Yamuna Nagar	Sabepur	1.00	48	37375	-	-	-
		Bheel Chhappar	1.20	60	40800	-	-	-
		Jubbal	1.40	45	45000	-	-	-
		Sarawan	2.80	175	113750	-	-	-
		Radauri	2.00	135	93300	-	-	-
		Leda khash	1.60	90	180000	-	-	-
		Sadik pura	2.20	90	58500	-	-	-
		Gundiana	2.20	108	125000	-	-	-
		Damla	2.40	102	102000	-	-	-
		Dariyapur	5.80	364	236600	-	-	-
		Bhogpur	3.20	90	90000	-	-	-
		Balachaur	10.00	610	396500	-	-	-

Sugarcane			Green Fodder		Stalks,of Rice,Jowar, Bajra,Maize & Sugarcane	Other crops	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Rs.)	Value (Rs.)	Area (Hects)	Value (Rs.)
10	11	12	13	14	15	16	17
0.40	393	49518	0.20	3900	3600	-	-
-	-	-	0.60	3200	-	-	-
-	-	-	0.80	16000	-	-	-
-	-	-	0.35	7700	4000	-	-
-	-	-	1.80	25000	-	-	-
1.10	600	78000	0.25	6000	-	-	-
-	-	-	-	-	-	-	-
1.00	800	98400	0.20	4000	6000	-	-
1.20	1100	132000	1.20	6000	-	-	-
-	-	-	-	-	3800	1.00	60000
0.80	600	76800	-	-	6500	-	-
3.00	1500	175500	-	-	4500	0.60	6000
-	-	-	-	-	890	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	1000	-	-
-	-	-	0.40	12000	3000	-	-
-	-	-	1.80	30000	2700	-	-
-	-	-	2.40	62000	1000	-	-
-	-	-	0.20	6000	2000	0.40	13600
-	-	-	0.60	12000	6000	-	-
-	-	-	0.30	8000	-	-	-
-	-	-	0.10	2000	2000	-	-
0.60	400	25600	0.20	4000	-	-	-
-	-	-	0.20	5000	800	-	-
-	-	-	0.20	4000	-	-	-
-	-	-	0.20	5000	3000	-	-
-	-	-	0.20	4000	-	-	-
-	-	-	0.40	7000	4000	-	-
-	-	-	0.40	8000	-	-	-
-	-	-	0.40	8000	3000	0.40	40000
2.60	1850	222000	0.20	4000	-	-	-
-	-	-	0.20	5000	-	-	-
-	-	-	0.10	2000	-	-	-
-	-	-	0.20	5000	1500	-	-
-	-	-	-	-	3500	-	-
-	-	-	0.30	5200	-	-	-
0.40	4000	512000	-	-	1250	-	-
-	-	-	0.60	12000	-	-	-
1.20	900	115200	0.40	30000	6000	-	-
3.20	2800	358400	-	-	2000	-	-
3.40	1500	187500	0.40	18000	1500	-	-
-	-	-	0.10	3000	-	-	-
-	-	-	0.10	1000	1400	-	-
-	-	-	-	-	2000	-	-
-	-	-	-	-	2000	-	-
-	-	-	-	-	2400	-	-
-	-	-	0.20	8400	-	-	-
-	-	-	0.20	4000	2820	-	-
-	-	-	0.20	3500	-	-	-
-	-	-	0.40	15000	-	-	-
-	-	-	-	-	6000	-	-
-	-	-	0.20	4000	6000	-	-

<u>Sugarcane</u>			<u>Green Fodder</u>		<u>Stalks,of Rice,Jowar, Bajra,Maize & Sugarcane</u>	<u>Other crops</u>	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Rs.)	Value (Rs.)	Area (Hects)	Value (Rs.)
10	11	12	13	14	15	16	17
1.00	500	64896	0.60	16000	4700	-	-
1.30	600	72000	0.40	4500	7500	-	-
1.50	600	76800	0.40	6000	6750	-	-
0.40	275	33000	0.20	2500	2500	-	-
2.40	1200	147600	0.40	7500	11800	-	-
4.00	2500	300000	0.60	12500	11660	-	-
2.20	950	114000	2.00	30000	6600	-	-
4.60	2800	333200	0.40	7500	17100	-	-
3.30	2000	256000	1.60	17600	22000	-	-
4.40	2750	302500	0.60	7500	39300	-	-
4.80	2800	352800	0.80	16000	27750	-	-
8.80	4700	507600	1.20	27500	72000	-	-

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	-	-	-	0.70	24	15360
		Naguran	1.00	60	56000	-	-	-
		Palwan	-	-	-	1.40	24	15120
		Khanda	1.20	20	24000	1.40	20	10000
		Uchana Khurd	-	-	-	0.80	8	4400
		Kalwa	1.00	20	32000	-	-	-
		Bambhewa	3.60	180	216000	-	-	-
		Karsindhu	4.00	200	220000	-	-	-
		Ujhana	2.60	56	90000	-	-	-
		Ujhana	3.20	75	120000	-	-	-
		Kilazafargarh	1.60	50	65000	1.00	16	9600
		Desh Khera	-	-	-	1.00	40	24000
		Bhadurgarh	5.40	290	348000	3.20	64	33600
		Barah Kalan	2.50	74	111400	-	-	-
	Kaithal	Rajaund	0.40	16	13600	0.20	4	2520
		Chhot	0.60	40	26000	-	-	-
		Harigarh Kingan	1.80	120	192000	-	-	-
		Kharak Pandwan	1.20	80	56000	0.60	12	7200
		Dhand	2.80	98	156800	-	-	-
		Barot	1.60	140	54800	-	-	-
		Harigarh Kingan	3.60	200	150000	-	-	-
		Mohna	2.40	180	126000	0.80	10	6000
		Kithana	3.60	180	135000	0.80	20	12000
		Kharak Pandwan	6.00	220	154000	-	-	-
	Rohtak	Bhalot	0.40	15	25600	-	-	-
		Bhalot	0.40	17	29070	-	-	-
		Kheri Sampla	-	-	-	0.40	4	2400
		Kheri Sampla	-	-	-	-	-	-
		Bhali Anandpur	-	-	-	-	-	-
		Lakhan Majra	0.20	6	9600	0.60	8	4400
		Lakhan Majra	0.40	10	16000	-	-	-
		Madina	-	-	-	-	-	-
		Madina	-	-	-	-	-	-
		Bhali Anandpur	1.60	100	50000	-	-	-
Jhajjar	Matanhel	1.00	18	30200	-	-	-	
	Dhandhlan	1.00	10	18000	-	-	-	
	Dhandhlan	0.40	12	21600	-	-	-	
	Matanhel	1.00	30	48000	-	-	-	
	Salhawas	-	-	-	1.20	20	12000	
	Salhawas	-	-	-	1.20	15	9000	
	Hasanpur	-	-	-	0.80	18	9900	
	Dulhera	-	-	-	-	-	-	
	Dulhera	-	-	-	-	-	-	
	Hasanpur	1.20	40	40000	1.20	16	8800	

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	-	-	-	-	-	-
		Nirthan	0.80	40	5600	-	-	-
		Ahulana	-	-	-	-	-	-
		Panchi Jattan	1.20	60	84000	-	-	-
		Khewra	1.60	80	96000	-	-	-
		Mudlana	-	-	-	-	-	-
		Rohat	2.00	75	90000	-	-	-
		Bhigan	2.00	100	150000	-	-	-
		Kheri Dhamkan	1.60	80	120000	-	-	-
		Rai	2.00	90	108000	-	-	-
		Mohana	1.40	14	22400	-	-	-
		Chitana	2.10	100	120000	0.60	15	9750
		Gudha	3.20	145	188500	-	-	-
Kasanda	1.20	36	57600	1.20	25	16250		

<u>Cotton (American)</u>			<u>Cotton Sticks</u>	<u>Sugarcane (Cane & Seed)</u>		
Area (Hects)	Yield (Qtls)	Value (Rs.)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
21	22	23	24	25	26	27
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	0.40	250	34500
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	1.20	1200	150000

Green Fodder		Stalks of Rice, Jawar, Bajra, Maize and Sugarcane . Value (Rs.)	Other Crops	
Area (Hects)	Value (Rs.)		Area (Hects)	Value (Rs.)
28	29	30	31	32
0.20	4000	5600	-	-
0.20	3000	-	-	-
0.20	4000	-	-	-
1.00	32000	-	-	-
0.20	4000	-	-	-
0.20	4000	-	-	-
0.20	4000	3000	-	-
0.40	6000	4000	-	-
0.60	12000	-	-	-
0.40	8000	-	-	-
0.80	12000	4500	0.40	7200
-	-	5700	-	-
1.00	20000	10000	-	-
-	-	-	-	-
0.20	1500	400	-	-
0.20	8000	500	-	-
0.20	6000	-	-	-
0.20	4000	-	-	-
0.40	6000	-	-	-
0.40	10000	-	-	-
0.40	5000	-	-	-
0.40	8000	-	-	-
0.40	20000	-	-	-
0.40	18000	-	-	-
0.40	8000	500	-	-
-	-	4500	-	-
0.60	14000	1200	-	-
1.00	14000	-	-	-
0.40	5000	-	-	-
0.80	15000	300	-	-
0.80	16000	-	-	-
0.60	10000	-	0.80	14625
-	-	21000	-	-
1.20	17500	10600	-	-
0.40	15000	3000	-	-
0.20	4000	600	-	-
0.40	8000	300	-	-
0.40	8000	4000	-	-
0.80	15000	-	-	-
0.80	10000	1000	-	-
1.20	10000	2000	-	-
0.80	6500	-	-	-
0.80	10000	1000	1.60	20160
0.40	5000	3000	-	-

Green Fodder		Stalks of Rice, Jawar, Bajra, Maize and Sugarcane	Other Crops	
Area (Hects)	Value (Rs.)		Area (Hects)	Value (Rs.)
28	29	30	31	32
1.00	12500	-	-	-
0.20	3500	-	-	-
1.00	18000	-	-	-
1.20	-	3000	-	-
-	-	2000	-	-
0.60	7600	-	-	-
0.20	3000	-	-	-
0.20	3600	2000	-	-
0.40	10000	-	-	-
0.40	7500	-	0.80	30000
1.20	12000	-	0.80	18000
1.40	20000	1600	-	-
0.70	12000	-	-	-
1.20	15000	-	1.20	36000

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	-	-	-	0.80	12	7800
		Hetam pura	-	-	-	-	-	-
		Hetam pura	-	-	-	-	-	-
		Gignow	-	-	-	0.80	15	9000
		Gignow	-	-	-	0.80	10	6000
		Bhariwas	-	-	-	0.80	10	6000
		Jattu Lohari	-	-	-	0.40	8	5600
		Jattu Lohari	-	-	-	0.80	10	6000
		Chang	-	-	-	0.40	8	4800
		Loharwara	-	-	-	1.60	25	15000
		Bhariwas	-	-	-	1.60	20	12000
		Bahal	-	-	-	3.00	16	9600
		Chang	2.80	80	120000	-	-	-
		Loharwara	-	-	-	2.00	38	22800
		Chandeni	-	-	-	1.60	30	19500
		Bahal	-	-	-	3.60	10	6000
		Sagwan	-	-	-	2.00	30	18000
		Sagwan	-	-	-	2.00	30	18000
		Dhani Hunat	-	-	-	-	-	-
		Dhani Hunat	-	-	-	2.40	30	18000
	Hisar	Litani	-	-	-	1.40	48	28800
		Majra	1.60	88	112640	-	-	-
		Pabra	-	-	-	0.40	10	5500
		Sarsod	-	-	-	0.60	12	7200
		Chikanwas	-	-	-	0.80	20	13700
		Data	-	-	-	0.40	12	7200
		Bhatol Jattan	-	-	-	1.00	9	5400
		Arya Nagar	-	-	-	0.40	6	3600
		Ghirai	-	-	-	1.60	52	31200
		Behabalpur	-	-	-	0.80	20	12000
		Bhatol Jattan	-	-	-	1.00	10	6000
		Harikot	-	-	-	1.00	20	11200
		Dhiranwas	-	-	-	0.80	10	6000
Narnaund	6.40	400	260000	-	-	-		
Agroha	-	-	-	0.40	9	5400		
Kabrail	-	-	-	0.40	16	9600		
Balawas	-	-	-	4.40	80	48000		
Moda Khera	-	-	-	0.40	11	6875		
Fatehabad	Kanheri	0.80	60	39000	-	-	-	
	Jamalpur Sekha	1.40	112	72800	-	-	-	
	Chimo	1.40	112	72800	-	-	-	
	Jhandli khurd	-	-	-	1.60	32	22080	
	Sakhar pura	2.40	180	113400	-	-	-	
	Jakhal	2.40	198	128700	-	-	-	
	Dariya Pur	1.20	270	175500	-	-	-	
	Nahla	-	-	-	0.40	16	9120	
	Dhabi kalan	-	-	-	0.20	4	2520	
	Matana	-	-	-	-	-	-	
Bhattu Kalan	-	-	-	0.40	10	7000		
Aharwan	6.40	448	280000	-	-	-		

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	-	-	-	-	-	-	
		Ottu	-	-	-	-	-	-	
		Umed Pura	-	-	-	-	-	-	
		Bhawdin	1.00	80	44000	-	-	-	
		Sanvat khera	-	-	-	-	-	-	
		Panihari	-	-	-	-	-	-	
		Nejia Khera	-	-	-	-	-	-	
		Sahuwala	-	-	-	-	-	-	
		Banwala	-	-	-	-	-	-	
		Odhan	-	-	-	-	-	-	
		Ding	-	-	-	-	0.40	8	5600
		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
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1.20	12	22800	-	-	-	-
0.80	8	14400	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1.60	28	56000	-	-	-	-
-	-	-	-	-	-	-
0.80	17	34000	-	-	-	-
-	-	-	-	-	-	-
0.80	12	24000	-	-	-	-
-	-	-	-	-	-	-
1.20	24	45600	-	-	-	-
0.60	9	18000	-	-	-	-
1.00	26	52000	-	-	-	-
0.80	10	19000	-	-	-	-
1.40	20	38000	-	-	-	-
1.50	16	28800	-	-	-	-
0.60	6	11400	-	-	-	-
-	-	-	-	-	-	-
0.80	10	20000	-	-	-	-
4.80	72	144000	-	-	-	-
-	-	-	-	-	-	-
6.00	120	252000	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
0.40	8	17360	-	-	-	-
0.20	5	10325	-	-	-	-
0.20	5	9000	-	-	-	-
1.20	24	48000	-	-	-	-
2.80	62	122760	-	-	-	-
2.40	42	94920	-	-	-	-
5.00	124	264120	-	-	-	-
2.80	140	280000	-	-	-	-
-	-	-	-	-	-	-

<u>Cotton (American)</u>			<u>Cotton Sticks</u>	<u>Sugarcane (Cane & Seed)</u>		
Area (Hects)	Yield (Qtls)	Value (Rs.)	Value (Rs.)	Area (Hects)	Yield (Qtls)	Value (Rs.)
21	22	23	24	25	26	27
1.40	21	37800	-	-	-	-
0.90	14	24616	-	-	-	-
1.00	14	25480	-	-	-	-
1.20	9	16560	-	-	-	-
1.20	30	54450	-	-	-	-
1.80	41	75030	-	-	-	-
2.60	18	32580	-	-	-	-
1.60	24	45600	-	-	-	-
5.60	84	142800	-	-	-	-
6.00	125	242500	-	-	-	-
4.80	98	176400	-	-	-	-
2.00	40	74400	-	-	-	-
3.80	76	145920	-	-	-	-
2.00	45	81000	-	-	-	-

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
-	-	1200	0.80	18600
-	-	-	1.60	3200
-	-	-	1.60	3200
-	-	1250	0.80	4800
-	-	2500	0.80	-
0.80	16000	1250	-	-
0.40	4000	2500	-	-
0.20	5000	2600	-	-
0.40	8000	2300	-	-
0.80	9600	2000	-	-
0.80	8000	2500	-	-
-	-	1500	-	-
0.40	13000	-	-	-
1.20	20200	4200	-	-
1.60	31000	1500	-	-
-	-	1600	-	-
-	-	3000	2.00	17000
-	-	3750	2.00	17000
-	-	2500	1.20	6800
-	-	-	2.40	10200
0.20	4000	7200	-	-
0.10	3000	-	-	-
0.20	4550	1050	-	-
0.40	19600	1200	-	-
0.20	8500	450	-	-
1.00	23000	2700	-	-
0.20	4000	1800	-	-
0.20	4000	2200	0.80	12800
0.20	4500	5000	-	-
0.80	12600	4950	-	-
0.20	4000	2900	-	-
0.20	3000	-	-	-
0.20	3500	3300	-	-
0.40	10000	-	-	-
0.20	20000	1100	-	-
0.40	17000	10000	-	-
0.20	4000	10000	1.20	18000
0.40	8200	12800	-	-
0.20	4500	-	-	-
0.20	4000	-	-	-
0.20	3000	-	-	-
-	-	4000	-	-
0.20	3400	1000	-	-
0.20	4600	-	-	-
0.60	15000	1200	-	-
0.40	15000	2000	-	-
0.20	8000	3100	1.60	31500
0.20	7500	8500	-	-
0.40	15000	1600	2.80	71400
0.40	6800	-	-	-

<u>Green Fodder</u>		<u>Stalks of Rice, Jowar, Bajra, Maize & Sugarcane</u>	<u>Other Crops</u>	
Area (Hects)	Value (Rs.)	Value (Rs.)	Area (Hects)	Value (Rs.)
28	29	30	31	32
-	-	-	-	-
0.10	5000	-	-	-
0.20	6000	-	-	-
0.20	6000	-	-	-
0.20	6000	-	-	-
0.20	5000	-	-	-
0.20	7500	-	-	-
0.20	8000	-	-	-
0.40	16000	-	-	-
0.40	7600	-	-	-
-	-	-	-	-
0.20	-	-	2.20	48320
0.20	-	-	-	-
-	-	-	-	-

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	10	6500	1.20	8	4800	
		Bhupgarh	0.20	10	7500	0.60	6	3600	
		Prithla	-	-	-	0.40	1	600	
		Prithla	-	-	-	0.40	1	600	
		Nacholi	2.40	108	70200	-	-	-	
		Nacholi	2.40	110	71500	-	-	-	
		Bhupgarh	1.60	90	56700	1.20	12	7200	
		Likhi	-	-	-	0.40	3	1800	
		Sikri	2.20	100	75000	0.80	10	6000	
		Sikri	2.40	120	88800	0.80	12	7200	
	Gurgaon	Jamalpur	-	-	-	0.80	15	9000	
		Bhondsi	-	-	-	1.20	21	12075	
		Khentawas	-	-	-	2.40	42	23100	
		Bhondsi	-	-	-	2.00	40	23000	
		Jasat	-	-	-	1.60	32	16800	
		Garhi Harshu	-	-	-	0.80	16	8800	
		Jasat	-	-	-	2.00	40	21000	
		Wazir Pur	-	-	-	-	-	-	
		Mahendergarh	Uninda	-	-	-	0.80	18	12600
			Napla	-	-	-	-	-	-
	God		-	-	-	-	-	-	
	Bhungarka		-	-	-	1.60	20	12000	
	Sehlang		-	-	-	0.30	8	4400	
	Shaharpur		-	-	-	0.40	6	3900	
	Sigra		-	-	-	0.80	12	7200	
	Riwasa		-	-	-	1.00	5	3500	
	Nangal Nunia		-	-	-	0.80	20	12000	
	Satnali		-	-	-	-	-	-	
	Rewari	Bhandore	-	-	-	0.80	8	4800	
		Suthana	-	-	-	1.40	20	12000	
		Palhawas	-	-	-	0.80	10	6500	
		Mastapur	-	-	-	1.20	40	28800	
		Manethi	-	-	-	1.60	16	8000	
		Khar Khara	-	-	-	1.20	-	-	
		Maheshwari	-	-	-	8.00	-	-	
		Lukhi	-	-	-	1.20	18	10800	
		Nahara	-	-	-	0.40	6	3600	
		Suthana	-	-	-	2.60	50	30000	
	Mewat	Hassanpur	-	-	-	1.60	20	12000	
		Hassanpur	-	-	-	2.00	40	24000	
		Malab	-	-	-	-	-	-	
		Mandikhera	-	-	-	0.80	16	8850	
Malab		-	-	-	-	-	-		
Nasir Bas		-	-	-	-	-	-		
Bichhor		-	-	-	-	-	-		
Mohammad Bas		-	-	-	0.80	15	8250		
Kheri Nuh		-	-	-	-	-	-		
Pingwa		-	-	-	4.80	96	48960		
Mandkola		-	-	-	-	-	-		
Mandkola		-	-	-	-	-	-		
			3.60	200	140000	-	-	-	

<u>Sugarcane (Cane & Seed)</u>			<u>Green Fodder</u>		<u>Stalks of Rice, Jowar, Bajra, Maize and Sugarcane</u>	<u>Other Crops</u>	
Area (Hects)	Yield (Qtls)	Value (Rs.)	Area (Hects)	Value (Rs.)	Value (Rs.)	Area (Hects)	Value (Rs.)
28	29	30	31	32	33	34	35
-	-	-	-	-	1000	1.20	21600
-	-	-	-	-	1500	-	-
-	-	-	-	-	-	0.40	2600
-	-	-	-	-	-	0.40	2750
-	-	-	0.80	4500	2500	-	-
-	-	-	-	-	2000	-	-
-	-	-	0.80	4000	5200	-	-
-	-	-	-	-	3000	-	-
-	-	-	-	-	5000	0.60	7000
-	-	-	-	-	2000	1.60	38400
-	-	-	0.40	7500	1000	-	-
-	-	-	0.80	16000	5000	-	-
-	-	-	-	-	3000	-	-
-	-	-	0.80	17500	5000	-	-
-	-	-	2.40	-	6000	2.40	54000
-	-	-	0.40	9000	2500	-	-
-	-	-	2.00	45000	7500	-	-
-	-	-	3.20	55000	-	2.00	35000
-	-	-	0.60	6520	3000	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	2000	-	-
-	-	-	-	-	2250	-	-
-	-	-	-	-	3500	-	-
-	-	-	0.80	5400	1860	-	-
-	-	-	-	-	1250	-	-
-	-	-	-	-	2000	1.20	8000
-	-	-	-	-	-	-	-
-	-	-	-	-	1000	-	-
-	-	-	-	-	3000	-	-
-	-	-	-	-	2000	-	-
-	-	-	0.40	8000	7000	-	-
-	-	-	-	-	1000	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	1440	-	-
-	-	-	-	-	1000	-	-
-	-	-	-	-	7600	-	-
-	-	-	-	-	2000	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	2000	-	-
-	-	-	-	-	-	-	-
-	-	-	2.00	34000	-	-	-
-	-	-	1.20	21000	-	-	-
-	-	-	1.20	16000	2000	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	7600	-	-
-	-	-	-	-	-	-	-
-	-	-	0.40	2250	-	-	-

APPENDIX – II-B

Cropped area, Yield and its Value of crops sown on Unirrigated land (Kharif) 2006-07

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	Mudlana	-	-	-	1.20	6	3900
		Rohtak	-	-	-	0.40	2	1100
		Bhali Anandpur	-	-	-	0.80	10	6000
Western	Bhiwani	Dhani Hunat	-	-	-	1.60	15	9000
	Sirsa	Chormar khera	-	-	-	-	-	-
		Nejjia Khera	-	-	-	-	-	-
		Odhan	-	-	-	2.40	20	12000
Southern	Mahendergarh	Napla	-	-	-	1.20	40	24000
		God	-	-	-	0.80	12	7800
	Mewat	Mandi Khera	-	-	-	1.20	15	10500

<u>Green Fodder</u>		<u>Stalks of Rice, Jowar, Bajra, Maize & Sugarcane</u>	<u>Other Crops</u>	
Area (Hects)	Value (Rs.)	Value (Rs.)	Area (Hects)	Value (Rs.)
28	29	30	31	32
-	-	800	-	-
-	-	200	-	-
-	-	500	-	-
-	-	1000	-	-
-	-	-	0.40	5000
-	-	-	1.60	10000
-	-	1000	-	-
-	-	1500	-	-
-	-	1000	-	-
-	-	1500	-	-

APPENDIX – III-A

Cropped area, Yield and its Value of crops sown on Irrigated Land (Rabi) 2006-07

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	Kodwa Kalan	1.80	80	68000	60	12000	
		Samlehri	2.30	70	59500	-	-	
		Sain Majra	2.00	75	63750	70	16000	
		Alipur	2.60	106	90100	95	19950	
		Bhurewala	2.40	50	42500	40	10000	
		Kesopur	1.40	63	53550	60	12000	
		ÍSullar	3.10	116	98600	100	20000	
		Kapoori	3.00	130	110500	90	18000	
		Khudda Kalan	1.60	60	51000	60	12000	
		Patvi	2.80	110	93500	80	16000	
		Mohra	3.60	126	107100	120	31500	
		Barara	3.20	130	110500	100	20000	
		Panchkula	Madna	0.60	12	10200	10	2000
	Tibi majra		0.40	20	17000	15	2700	
	Morni		1.30	30	25500	20	3000	
	Bharoli		1.00	35	29750	30	6000	
	Kiratpur		2.00	55	46200	40	6000	
	Surajpur		2.95	110	99000	60	12000	
	Garhi Kotaha		2.30	132	112200	125	15000	
	Barwala		3.20	105	96600	90	16200	
	Karnal		Bijna	1.25	52	44200	50	10000
			Bazidpur	1.50	70	59500	50	10000
		Phusgarh	1.60	72	61200	70	14400	
		Bazidpur	1.80	80	68000	80	16000	
		Bijna	2.20	100	85000	90	19200	
		Uplana	2.60	94	79900	80	10000	
		Dadupur Roran	2.60	110	93500	100	30000	
		Dadupur Roran	2.80	112	95200	20	4000	
		Padhana	1.60	72	61200	50	10000	
		Uplana	2.80	70	59500	60	12000	
	Kurukshetra	Padhana	2.60	120	102000	100	24000	
		Phusgarh	4.00	150	127500	120	15000	
		Sandholi	2.00	75	63750	-	-	
		Bint	1.80	70	59500	-	-	
		Dhantori	3.00	60	51000	60	15000	
		Khanpur Kolian	3.60	90	76500	-	-	
		Jandhera	1.20	50	42500	50	10000	
		Kamoda	4.00	181	153850	180	33400	
		Dadlu	2.40	60	51000	60	10200	
		Berhan	1.20	45	38250	-	-	
		Phalsanda Rangran	3.20	108	91800	18	3600	
		Sarsa	4.00	80	68000	40	8000	
		Panipat	Diwana	1.50	50	42000	40	8000
			Sanoli Kalan	2.00	80	70000	40	8000
	Didwari		2.00	100	85000	50	10800	
	Sanoli Kalan		2.40	85	68000	-	-	
	Hathwala		2.20	80	72250	-	-	
Naya Nara	2.60		120	102000	100	15000		
Jhati Pur	1.40		50	42500	50	8000		
Hathwala	3.60		144	122400	150	30000		
Kurana	4.00		175	166250	150	3000		
Adiyana	5.80		230	195500	100	17920		

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	Tappria	1.60	50	42500	50	9500
		Sabepur	2.30	75	63750	70	14000
		Bheel Chhappar	1.50	64	54400	50	8750
		Jubbal	1.80	76	64600	-	-
		Sarwan	2.00	80	68000	65	11375
		Dorrang	3.90	155	131750	130	26000
		Bhogpur	4.80	200	170000	126	22000
		Radauri	2.80	70	59500	40	7600
		Leda khash	3.90	153	130050	140	24500
		Gundiana	8.20	328	278800	300	48000
		Dariyapur	3.20	40	34000	30	6000
Balachaur	10.00	375	318750	370	65625		

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
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.40	4	11200	-	-

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	9000	-	-
-	-	-	-	-	-	-	-	0.10	5040	-	-
-	-	-	-	-	-	-	-	0.40	18000	-	-
-	-	-	-	-	-	-	-	0.15	8500	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	0.20	12000	-	-
-	-	-	-	-	-	-	-	0.10	4000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	0.60	10	19190	0.20	8000	-	-
-	-	-	-	-	-	-	-	-	-	2.80	163000
-	-	-	-	-	0.40	4	8000	0.60	13000	-	-
-	-	-	-	-	2.00	17	28645	0.40	16000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.25	7	13763	0.40	15000	1.20	20000
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.20	10000	-	-
-	-	-	-	-	0.60	11	22550	0.10	4000	-	-
0.20	2	5000	-	-	-	-	-	0.60	25000	-	-
-	-	-	-	-	-	-	-	0.25	4000	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	-	-	-	0.10	5000	-	-
-	-	-	-	-	-	-	-	0.40	16000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
0.20	1	2000	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	0.40	7000	-	-
-	-	-	-	-	-	-	-	0.40	12000	0.40	60000
-	-	-	-	-	-	-	-	0.40	12000	1.60	63140
-	-	-	-	-	-	-	-	0.20	7000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.10	5000	-	-
-	-	-	-	-	-	-	-	0.20	14000	0.40	15000
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.30	20500	-	-
-	-	-	-	-	1.40	15	24000	-	-	-	-
-	-	-	-	-	-	-	-	0.60	30000	2.00	100000
-	-	-	-	-	-	-	-	0.40	20000	0.80	23760
-	-	-	-	-	-	-	-	-	-	-	-
0.40	2	5000	-	-	-	-	-	0.20	-	-	-
-	-	-	-	-	-	-	-	0.20	-	-	-
-	-	-	-	-	-	-	-	0.10	4000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	7225	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.15	3000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-

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	0.40	16000
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	0.30	3	5400	0.20	4400	0.20	15000
-	-	-	-	-	-	-	-	0.40	30000	0.80	5000
-	-	-	-	-	-	-	-	0.40	12000	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.20	10500	-	-
-	-	-	-	-	-	-	-	0.40	10000	-	-
-	-	-	-	-	0.80	10	19000	-	-	-	-
-	-	-	-	-	-	-	-	0.60	28000	-	-
-	-	-	-	-	0.40	8	9600	-	-	-	-
-	-	-	-	-	-	-	-	1.20	30000	-	-

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	40	34000	40	7000	
		Naguran	1.40	55	46750	50	15000	
		Palwan	1.60	40	34000	-	-	
		Khanda	3.40	1.20	102000	-	-	
		Uchana Khurd	1.40	40	34000	35	7000	
		Kalwa	2.00	50	42500	50	10000	
		Bambhewa	3.60	160	116000	50	10000	
		Karsindhu	4.00	132	112200	100	19800	
		Ujhana	3.00	100	85000	-	-	
		Ujhana	3.40	120	102000	100	20000	
		Kilazafargarh	2.80	104	88400	100	18200	
		Desh Khera	3.80	170	144500	100	20000	
		Bhadurgarh	6.00	185	157250	180	27750	
		Barah Kalan	5.50	196	150000	100	20000	
	Kaithal	Rajaund	0.60	24	20400	20	5000	
		Chhot	0.60	30	25500	25	5000	
		Harigarh Kingan	1.60	72	61200	70	14000	
		Kharak Pandwan	1.60	75	63750	60	12000	
		Dhand	2.80	64	51000	60	12000	
		Barot	1.60	80	70400	70	14000	
		Harigarh Kingan	3.60	105	89250	100	20000	
		Mohna	2.40	100	85000	50	10000	
		Kithana	4.40	176	149600	100	20000	
		Kharak Pandwan	6.40	250	217608	100	20000	
		Rohtak	Bhalot	0.80	30	25500	30	6000
			Bhalot	0.60	25	21250	25	5000
			Kheri Sampla	1.00	38	34200	35	7000
			Kheri Sampla	1.00	40	36000	40	8000
	Bhali Anandpur		0.80	32	28800	30	6400	
	Lakhan Majra		1.40	68	57800	50	10000	
	Lakhan Majra		1.40	56	50400	40	8000	
	Madina		1.40	56	48160	50	10000	
	Madina		2.40	100	85000	-	-	
	Bhali Anandpur		1.80	60	54000	60	12000	
	Jhajjar		Matanhel	1.20	36	30600	36	7200
			Dhandhlan	1.20	12	10200	10	2800
			Dhandhlan	1.20	33	28050	30	6000
			Matanhel	1.00	28	23800	20	4000
		Salhawas	0.80	32	27200	24	4800	
		Salhawas	0.80	32	27200	20	4000	
		Hasanpur	1.20	70	59500	20	3750	
		Dulhera	1.60	80	68000	70	14000	
Dulhera		2.40	60	51000	60	12000		
Hasanpur		2.40	120	105600	80	16000		

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	Chidana	1.00	40	36000	40	8000
		Nirthan	1.00	40	36000	40	6000
		Ahulana	1.00	40	36000	40	7000
		Panchi Jattan	1.20	48	43200	45	7200
		Khewra	1.60	64	57600	60	9000
		Mudlana	0.60	20	18000	15	3000
		Rohat	1.60	70	63000	70	10500
		Bhigan	2.00	80	72000	80	16000
		Kheri Dhamkan	1.60	60	51000	50	10000
		Rai	3.20	130	117000	130	22750
		Mohana	2.60	104	93600	100	19250
		Chitana	3.90	160	144000	160	32000
		Gudha	3.70	170	144500	160	32000
Kasanda	4.00	180	153000	180	27000		

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	3000	-	-
-	-	-	-	-	-	-	-	0.20	10000	-	-
-	-	-	-	-	-	-	-	0.40	10000	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	1.20	32000	-	-
-	-	-	-	-	-	-	-	0.40	10000	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	0.20	7000	-	-
-	-	-	-	-	0.60	10	20000	0.40	16000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.40	16000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	7000	-	-
-	-	-	-	-	-	-	-	0.20	7000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	0.40	18000	-	-
-	-	-	-	-	-	-	-	0.40	17000	-	-
-	-	-	-	-	-	-	-	0.40	20000	-	-
-	-	-	-	-	-	-	-	0.40	8000	-	-
-	-	-	-	-	-	-	-	0.40	16000	-	-
-	-	-	-	-	-	-	-	0.40	20000	-	-
-	-	-	-	-	0.40	8	14400	0.40	18000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	0.20	8500
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	-	-	-	0.20	7000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	5000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1.20	24	42000	-	-	-	-
-	-	-	-	-	1.20	24	42000	-	-	-	-
-	-	-	-	-	1.20	20	36000	-	-	20	10000
-	-	-	-	-	1.60	30	55500	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.40	10	20000	-	-	-	-

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
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	0.60	190000
-	-	-	-	-	-	-	-	0.20	10000	-	-
-	-	-	-	-	0.20	5	9000	0.20	16000	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0.20	10000	-	-
-	-	-	-	-	-	-	-	0.20	8000	-	-
-	-	-	-	-	-	-	-	-	-	0.80	18000

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	0.80	40	34000	10	2000
		Hetam pura	0.80	30	25500	20	3750
		Hetam pura	0.80	30	25500	27	3750
		Gignow	0.80	40	34000	20	4000
		Gignow	0.40	20	17000	10	2000
		Bhariwas	0.80	40	34000	10	2000
		Jattu Lohari	1.20	32	28800	20	4000
		Jattu Lohari	1.00	30	25500	15	3000
		Chang	0.80	25	22500	15	3000
		Loharwara	1.60	32	27200	16	3200
		Bhariwas	0.80	40	34000	20	4000
		Bahal	-	-	-	-	-
		Chang	3.00	1.20	108000	100	20000
		Loharwara	1.20	48	40800	40	8000
		Chandeni	1.20	50	42500	20	4000
		Bahal	-	-	-	-	-
		Sagwan	1.60	40	34000	30	7000
		Sagwan	2.40	60	51000	35	7000
		Dhani Hunat	0.60	15	12750	10	2000
		Dhani Hunat	1.60	50	42500	25	5000
	Hisar	Litani	2.80	152	129200	150	36000
		Majra	1.60	80	68000	70	12000
		Pabra	3.00	120	102000	100	18000
		Sarsod	1.50	75	63750	70	16000
		Chikanwas	1.00	32	27200	30	6000
		Data	1.40	50	42500	40	9000
		Bhatol Jattan	1.40	56	47600	50	9800
		Arya Nagar	0.80	32	36000	20	5000
		Ghirai	2.60	120	102000	100	20000
		Behabalpur	0.70	26	22100	25	7000
		Bhatol Jattan	2.30	92	78200	30	5600
		Harikot	2.80	120	102000	100	15000
		Dhiranwas	1.00	60	51000	50	13500
Narnaund	6.40	260	221000	200	39000		
Agroha	1.40	50	42500	35	7500		
Kavrale	2.80	112	95200	110	28000		
Balawas	4.80	150	127500	100	22500		
Moda Khera	8.00	320	272000	300	80000		
Fatehabad	Kanheri	0.80	48	40800	40	9600	
	Jamalpur Sekha	1.40	62	49600	-	-	
	Chimo	1.40	70	56000	70	10500	
	Jhandli khurd	0.80	32	27200	20	3840	
	Sakhar pura	2.60	112	95200	65	13440	
	Dariya Pur	2.40	120	96000	-	-	
	Nahla	2.80	140	119000	14	2800	
	Dhabi kalan	2.80	126	107100	100	15120	
	Matana	1.80	68	57500	40	8400	
	Bhattu Kalan	5.00	220	187000	100	20000	
Aharwan	4.40	300	261800	300	61600		
			4.70	190	161500	110	13200

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	1.40	68	57800	-	-
		Abholi	0.90	46	39100	-	-
		Ottu	1.00	50	42500	40	8000
		Umed Pura	1.20	54	45900	-	-
		Bhawdin	2.20	110	93500	70	14000
		Sanvat khera	2.60	106	81620	90	18000
		Panihari	2.60	130	110500	100	20000
		Nejia Khera	1.60	40	34000	30	6000
		Sahuwala	4.40	187	158950	150	30000
		Banwala	6.00	220	187000	150	30000
		Odhan	4.40	176	149600	100	20000
		Ding	3.20	160	136000	130	26000
		Thiraj	3.80	152	129200	-	-
Chhormar Khera	2.00	73	62050	60	12000		

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
-	-	-	-	-	0.80	16	28000	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.80	12	21000	-	-	-	-
-	-	-	-	-	0.40	6	10500	-	-	-	-
-	-	-	-	-	0.80	12	21000	-	-	-	-
-	-	-	-	-	0.60	6	10800	0.20	4000	-	-
-	-	-	-	-	0.80	8	14000	0.20	4000	-	-
-	-	-	-	-	0.80	10	17000	-	-	-	-
-	-	-	-	-	0.80	16	28000	-	-	-	-
-	-	-	-	-	1.60	80	140000	-	-	-	-
-	-	-	-	-	3.00	20	36000	-	-	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	2.00	40	70000	-	-	-	-
-	-	-	-	-	2.00	40	69000	-	-	-	-
-	-	-	-	-	3.60	27	48600	-	-	-	-
-	-	-	-	-	3.20	32	57600	-	-	-	-
-	-	-	-	-	1.60	12	22800	-	-	-	-
-	-	-	-	-	0.20	2	3800	-	-	-	-
-	-	-	-	-	2.00	20	38000	-	-	-	-
-	-	-	-	-	0.60	12	20400	0.20	3900	-	-
-	-	-	-	-	-	-	-	0.10	4000	-	-
-	-	-	-	-	-	-	-	0.20	3000	-	-
-	-	-	-	-	0.40	8	13800	0.10	4100	-	-
-	-	-	-	-	0.80	16	32000	0.20	5500	-	-
-	-	-	-	-	-	-	-	0.20	6000	-	-
-	-	-	-	-	0.80	16	30000	0.20	4200	-	-
-	-	-	-	-	0.80	10	17000	0.40	12000	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	0.20	3	5100	0.20	3800	0.70	52500
-	-	-	-	-	1.20	18	30600	0.10	2200	-	-
-	-	-	-	-	0.40	6	10200	0.15	3000	-	-
-	-	-	-	-	1.60	28	47600	0.20	4200	-	20000
-	-	-	-	-	-	-	-	0.40	15000	-	-
-	-	-	-	-	0.40	8	13600	0.20	6000	-	-
-	-	-	-	-	2.40	48	81600	0.20	4000	-	-
-	-	-	-	-	4.00	60	108000	0.20	3000	-	-
-	-	-	-	-	4.00	70	119000	0.40	6200	-	-
-	-	-	-	-	-	-	-	0.20	4800	-	-
-	-	-	-	-	-	-	-	0.20	4800	-	-
-	-	-	-	-	-	-	-	0.20	4800	-	-
-	-	-	-	-	-	-	-	0.20	4600	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	-	-	-	0.40	16000	-	-
-	-	-	-	-	-	-	-	0.20	4000	-	-
-	-	-	-	-	-	-	-	0.40	15000	-	-
-	-	-	-	-	0.80	14	25480	0.10	2000	-	-
-	-	-	-	-	-	-	-	0.20	6300	-	-
-	-	-	-	-	1.60	24	43200	0.40	16000	-	-
-	-	-	-	-	-	-	-	0.30	6500	1.80	81000

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	4.80	168	142800	100	25000	
		Bhupgarh	1.60	80	64000	70	15000	
		Prithla	2.40	100	85000	90	18000	
		Prithla	2.40	110	93500	90	19600	
		Nacholi	4.00	158	134300	130	39500	
		Nacholi	4.00	160	136000	150	30000	
		Bhupgarh	4.80	200	170000	150	30000	
		Likhi	1.20	40	32000	40	10000	
		Sikri	6.60	200	170000	120	25000	
		Sikri	6.40	200	170000	150	32000	
	Gurgaon	Jamalpur	0.80	32	26400	20	4000	
		Bhondsi	1.60	60	49500	20	2400	
		Khentawas	1.60	28	23800	10	2400	
		Bhondsi	2.40	84	69300	20	3600	
		Jasat	3.20	128	108800	20	4000	
		Garhi Harshu	1.60	60	51000	10	2000	
		Jasat	4.40	176	149600	100	20000	
		Wazir Pur	3.20	120	102000	50	10000	
		Mahendergarh	Uninda	0.60	20	1900	20	5000
			Bhungarka	0.40	8	8000	3	500
	Sehlang		1.00	30	30000	25	3000	
	Shaharpur		0.60	25	22500	20	10000	
	Singra		1.20	36	30600	20	10000	
	Riwasa		1.00	40	40000	40	10000	
	Nangal Nunia		0.30	8	7200	6	1000	
	Satnali		2.40	40	36000	30	6000	
	Rewari		Bhandore	0.80	28	23800	25	6000
			Suthana	0.60	24	20400	30	6000
		Pahlawas	0.80	40	34000	40	10000	
		Mastapur	0.80	20	17000	20	5250	
		Manethi	0.80	20	20000	20	5000	
		Khar Khara	1.20	54	45900	50	13000	
		Mahesheari	1.20	21	17850	20	5250	
		Lukhi	0.40	50	42500	10	2500	
		Nahara	0.80	30	25500	20	5000	
		Surhana	2.40	100	85000	80	20000	
	Mewat	Hassanpur	1.60	60	51000	40	8000	
		Hassanpur	2.00	80	68000	60	12000	
		Malab	-	-	-	-	-	
		Mandikhera	2.40	66	46200	50	10000	
Malab		-	-	-	-	-		
Nasir Bas		4.80	100	85000	80	16000		
Bichhor		1.20	30	25500	20	4000		
Mohammad Bas		4.40	165	140250	100	16500		
Kheri Nuh		-	-	-	-	-		
Pingwa		1.20	48	40800	20	4800		
Mandkola	-	-	-	-	-			
Mandkola	-	-	-	-	-			

APPENDIX – III-B

Cropped area, Yield and Value of crops sown on Unirrigated land (Rabi) 2006-07

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	Mudlana	1.20	35	31500	30	6000
		Gudha	-	-	-	-	-
	Rohtak	Lakhan Majra	0.40	8	7200	6	1500
		Lakhan Majra	0.40	6	5400	5	1000
		Bhali Annandpur	-	-	-	-	-
Westren	Bhiwani	Dhani Hunat	-	-	-	-	-
		Dhani Hunat	-	-	-	-	-
	Sirsa	Chormar Khere	-	-	-	-	-
		Nejjia Khera	-	-	-	-	-
		Odhan	-	-	-	-	-
Southern	Gurgaon	Garhi Harshu	-	-	-	-	-
	Mahendergarh	Napla	-	-	-	-	-
		God	0.80	25	22500	20	3500
		Satnali	-	-	-	-	-
	Mewat	Mandi Khera	-	-	-	-	-

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
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
0.80	5	3750	-	-	-	-	-	-	-
-	-	-	-	-	4.00	30	60000	-	-
-	-	-	-	-	6.00	40	80000	-	-
-	-	-	-	-	-	-	-	-	-
0.80	10	7000	-	-	6.80	10	21000	-	-
-	-	-	-	-	-	-	-	-	-
1.00	20	14000	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.80	13	26000	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	2.40	15	30000	-	-

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
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1.60	10	31000	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.40	2	4000	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	2.80	40	84000	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	0.40	4	8400	-	-	-	-
-	-	-	-	-	0.80	10	21000	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1.20	12	25200	-	-	-	-

