

## CHAPTER - VIII

### AGRO - ECONOMY

Four different crops namely ragi, green gram, paddy and roselle were cultivated successively using 6 different treatments namely chemical fertilizers, panchakavya, panchakavya + plants, panchakavya + animal waste, panchakavya + neem cake and vermicompost. The cost of purchase of seeds, preparation of the treatments, cost of fertilizer and the labour charges were calculated. The yield and the selling price of the produce were calculated and tabulated.

#### **Profit Rate of Ragi**

In ragi crop, the highest profit (Table 14) was obtained from panchakavya + animal waste treatment which was Rs.1, 678/Ht. In control and chemical treatment the profit was much lesser. With panchakavya the profit was Rs.1380/Ht and panchakavya+plants was Rs.1, 540/Ht and panchakavya +neem cake was Rs.1, 550/Ht. In vermicompost the profit was less due to the fact that vermicompost was purchased rather than prepared. The yield in vermicompost was higher than that of chemical treatment but lesser than panchakavya.

**Table: 14AGRO-ECONOMY in Ragi Plant**

<b>S.No</b>	<b>Treatments</b>	<b>Area(hectares)</b>	<b>Cost of seeds cultivation period (Rs)</b>	<b>Labour Charges (Rs)</b>	<b>Cost of fertilizers (Rs)</b>	<b>Total Yield rate of Ragi (kg/h)</b>	<b>Selling price per kg rate</b>	<b>Selling prices (Rs)</b>	<b>Profit (Rs)</b>
1	Control	0.0086	12	800	-	14	23	322/812	-490
2	Chemical	„	12	800	1,221	28	23	644/2033	-1389
3	Panchakavya	„	12	800	360	58	44	2,552/1172	1380
4	Panchakavya+plants	„	12	800	156	57	44	2,508/968	1,540
5	Panchakavya+animal waste	„	12	800	150	60	44	2,640/962	1,678
6	Panchakavya +neem cake	„	12	800	102	56	44	2,464/914	1,550
7	Vermicompost	„	12	800	900	44	44	1,936/1712	-224

### **Profit Rate of Green Gram**

In Green gram, the panchakavya +animal waste gave highest profit which was Rs.8, 248/Ht (Table 15). The second highest profit was obtained in panchakavya + neem cake which was Rs.8,056.58/Ht and followed by panchakavya which was Rs. 8,008/Ht, panchakavya +plants was 8,002.58/Ht and vermicompost was Rs.6, 658.58. When compared to the panchakavya the profit rate was much lesser in chemical treatment which was Rs. 2,228.58/Ht, whereas the least yield and profit was obtained from control plot compared to other 6 treatments.

**Table: 15 AGRO – ECONOMY in Green Gram Plant**

<b>S.No</b>	<b>Treatments</b>	<b>Area (hectares)</b>	<b>Cost of seeds cultivation period (Rs)</b>	<b>Labour Charges(Rs)</b>	<b>Cost of fertilizers (Rs)</b>	<b>Total Yield rate of Green gram (kg/h)</b>	<b>Selling price per kg rate</b>	<b>Selling prices (Rs)</b>	<b>Profit (Rs)</b>
1	Control	0.0086	152	289.42	-	37	50	400/441.42	-41.42
2	Chemical	„	152	289.42	1,130	76	50	3,800/1,571.42	2,228.58
3	Panchakavya	„	152	289.42	360	88.1	100	8,810/801.42	8,008.58
4	Panchakavya + plants	„	152	289.42	156	86	100	8600/597.42	8,002.58
5	Panchakavya +animal waste	„	152	289.42	150	88.4	100	8,840/591.42	8,248.58
6	Panchakavya + neem cake	„	152	289.42	102	86	100	8,600/543.42	8,056.58
7	Vermicompost	„	152	289.42	900	80	100	8,000/1,341.42	6,658.58

**Profit rate of Paddy**

In paddy (Table 16) panchakavya +animal waste showed the highest profit which was Rs.5,650.51/Ht and also other adjuvants namely panchakavya had Rs 4,785.01/Ht, panchakavya +plants obtained Rs. 4,667.01/Ht, panchakavya +neem cake gave a profit of Rs. 4,123.01/Ht and with vermicompost the profit rate was Rs.2, 865.01/Ht. Profit rate in control was Rs.225.01/Ht and whereas in chemical treatment the profit was least.

**Table: 16 AGRO – ECONOMY in Paddy Plant**

<b>S.No</b>	<b>Treatments</b>	<b>Area (hectares)</b>	<b>Cost of seeds cultivation period (Rs)</b>	<b>Labour Charges (Rs)</b>	<b>Cost of fertilizers (Rs)</b>	<b>Total Yield rate of Paddy (kg/h)</b>	<b>Selling price per kg rate</b>	<b>Selling prices (Rs)</b>	<b>Profit (Rs)</b>
1	Control	0.0086	85.71	289.28	-	12	50	600/374.99	225.01
2	Chemical	„	85.71	289.28	1,246	30	50	1,500/1,620.99	-120.99
3	Panchakavya	„	85.71	289.28	360	48	115	5,520/734.99	4,785.01
4	Panchakavya + plants	„	85.71	289.28	156	45.2	155	5,198/530.99	4,667.01
5	Panchakavya + animal waste	„	85.71	289.28	150	53.7	155	6,175.5/524.99	5,650.51
6	Panchakavya + neem cake	„	85.71	289.28	102	42.3	115	4,600/476.99	4,123.01
7	Vermicompost	„	85.71	289.28	900	36	115	4,140/1,274.99	2,865.01

### **Profit Rate of Roselle**

In Roselle plant (Table 17) panchakavya +animal waste was more profitable yielding Rs.972/Ht panchakavya + plants raised Rs. 322/Ht, panchakavya +neem cake got Rs.326/Ht and followed by other treatment namely panchakavya was Rs. 152/Ht and vermicompost shows slightly lesser than the other treatments. Control and chemical treatment did not give any profit.

**Table: 17AGRO-ECONOMY in Roselle Plant**

<b>S.No</b>	<b>Treatments</b>	<b>Area (hectares)</b>	<b>Cost of seeds cultivation period (Rs)</b>	<b>Labour Charges (Rs)</b>	<b>Cost of fertilizers (Rs)</b>	<b>Total Yield rate of Roselle (kg/h)</b>	<b>Selling price per kg rate</b>	<b>Selling prices (Rs)</b>	<b>Profit (Rs)</b>
1	Control	0.0086	200	200	-	18	6	108/400	-292
2	Chemical	„	200	200	1,065	54	6	324/1,465	-1141
3	Panchakavya	„	200	200	360	76	12	912/760	152
4	Panchakavya +plants	„	200	200	156	74	12	888/556	332
5	Panchakavya + animal waste	„	200	200	150	81	12	972/550	422
6	Panchakavya + neem cake	„	200	200	102	69	12	828/502	326
7	Vermicompost	„	200	200	450	66	12	792/850	-58