Documentation of Plot Summary Files (H, D Schedules Combined) for the ICRISAT VLS-Villages from 1975-76 to 1977-78

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In the initial stage of our VLS program the information regarding soil type, ownership status, area, bunding, crop suitability, and the details of inputs and outputs of crops on operated plots were recorded separately in two schedules D and H. Details of the schedules are contained in "Manual of Instructions for Economic Investigators in ICRISAT's Village Level Studies" (H.P. Binswanger and N.S. Jodha, 1978). This practice was followed for about three years and later both schedules (D and H) were merged into one schedule called H-D which was recently modified as the 'Y' schedule in order to have all plot characteristics and details of inputs and outputs of crops on one sheet. All this information is now separately available in PLOT SUMMARY FILE (the details of information available in 'plot summary file' are given in Appendices 1-3). The ICRISAT computer CRISP file structure can accommodate a maximum of 100 variables in each file. Since the 'plot summary file' has about 190 variable it was decided to put it into three separate files. For any specific type of analysis one can use either one or more files depending upon the variables required. These files are named 'PLOT S1', 'PLOT S2', and 'PLOT S3' (for details of variables see Appendices 1-3).

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In the present PLOT SUMMARY FILES all the alpha characters coded in the original files (VLS-H, D schedules) have been changed into numerical codes. Letters used from A to Z have been numbered in the sequence 65 to 90 and are referred to as ASCII values in Computer Basic plus language. For example A is entered as 65, B as 66, C as 67, and so on. The crop code CC is entered as 6767, BA as 6665, and so on. The numerical value 27 stands for 'blanks' in the original schedule (e.g. no crop is denoted by 2727; and no sub-plotting is coded as 27). In brief the information available in all the three files PLOT S1, PLOT S2, and PLOT S3 are given below:

PLOT S1 - This file includes all the plot identification and plot-specific characteristics such as area, ownership status[1], soil type, irrigation, crops grown; quantities and values of seed, main product and byproducts.

PLOT S2 - Plot identification, human labor hours (family and hired), bullock labor hours (owned and hired), use of machine hours, total man-equivalent labor use (hours) according to different operations, and bullock labor use (hours) by operation.

PLOT S3 - Plot identification, types, quantities and value of fertilizer used, organic manures (quantity and value), total nutrients in

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[1] In case of ownership status only three codes have been used:
A for owned land as 65 in ownership column,
B for leased-in land as 66,
C for share cropped-in land as 67.

terms of N, P_2O_5 and K_2O from both organic and inorganic manures, type of pesticides/insecticides used (quantity and value), and other miscellaneous items such as land revenue, taxes etc.

In the first stage of processing, VLS-H and VLS-D schedules are combined together by years for all villages. Then input/output data for operations done before sowing are all apportioned according to the area of sub-plots. All information has been transfered to plot summary files on a seasonal basis separately for all villages and all three years (presently it is for three years, subsequently it will be prepared for other years also). Information for the whole year will be available after merging all the seasonwise information.

The naming of the file has six digits. The first letter indicates the name of the village (A-Aurepalle, B-Dokur, C-Shirapur, D-Kalman, E-Kanzara, F-Kinkheda). The second and third letters show the year (1975-76 as 75, 1976-77 as 76 and so on). Last three letters identify the PLOT file (PS1 for PLOT S1, PS2 for PLOT S2 and PS3 for PLOT S3). For example 'plot summary file one' for Aurepalle village for year 1975-76 will be written as: A75PS1.DAT.

The 'plot summary files' having information in physical units are available in the Economics Library Account from H-D merged and apportioned files. This can be obtained by running the PLTSUM programme. The values of all inputs and outputs are based on valuations, which may differ according to the user. In some cases one may be interested in

estimating these values on the basis of average prices in the village or in neighbouring places. In other cases one may like to estimate on the basis of a base year price to measure the changes in real crop income and expenses. Depending upon the type of analysis one can use his own price and obtain inputs/outputs values from this file. With our income analysis we will use the weighted average annual prices of all inputs and outputs. To separate prices by account codes and by months or years, a separate program is being prepared.[2]

Valuation of Inputs and Outputs

In computing crop income and expenses the imputation will be made as follows:

1. Seed - The seed will be valued (both home produced and purchased) on the basis of annual weighted average price.
2. Human labor - The cost of human labor (both family and hired) will be estimated on the basis of average village hourly wage rates for males, females, and children (Asokan, 1980).
3. Bullock labor - The cost of bullock labor (both owned and hired) will also be estimated on the basis of prevailing rental charges in the village (Asokan, 1980).

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[2]See "Documentation of Computer Programmes" in Economics Program, ICRISAT, Patancheru, A.P., India.

4. Machinery - The charge for machines used on a hire basis will be done as per average rental charges for the whole farm rather than for each plot. For owned machines used, the cost of fuel, gasoline, electricity charges, etc., for the whole farm rather than for each plot will be taken as the cost of owned machine used. Electricity charges are calculated in the following way, for different villages: Most farmers have 5 H.P. motors in Aurepalle, Dokur, and Shirapur. In those villages average electricity expenses per hour of use are Rs. 1.50. In the villages of Kalman, Kanzara, and Kinkheda farmers mostly have 3 H.P. motors, for which the electricity cost is about Rs. 0.90 per hour. However, the minimum use of electric motor cost per annum is assumed to be Rs. 144. For an oil engine the assumed cost is Rs. 2.00 per hour of use. For threshers, 4% of the main product value is used.

5. Manures, fertilizers, and pesticides/insecticides - The weighted average price of manures, fertilizers, and pesticides/insecticides are extracted from the VLS-L schedule and multiplied by the quantities of manures, fertilizers, and pesticides/insecticides used for each plot to obtain the cost of these inputs.

6. Miscellaneous expenses - These expenses such as land revenue, land taxes, irrigation charges, electricity charges, rent paid for leased-in land, fuels etc. will be obtained from VLS-L, D, and D-supplement schedules for the whole farm rather than for each plot. This will be taken as a total for the whole year as the miscellaneous expenses for crop cultivation.

7. Main and byproduct - The value of main and byproduct will be estimated on the basis of villagewise weighted average prices for the whole year from VLS-L.

Weighted average prices for the whole year are presented in Appendix 4 for all the villages, for all items.

8. Revenue - For Aurepalle, Dokur, Kanzara and Kinkheda villages, the revenue paid is taken only for the kharif season. Whereas in Shirapur and Kalman it is for Rabi season.

9. Depreciation - Depreciation is calculated only for the livestocks and farm implements, and apportioned for each plot according to its area.

10. Total rent paid - In this column, net income received from the land/ sharecropped in plot is recorded.(i.e. adjusted for the share/rent paid and/or inputs received from the landlord).

11. Net income = Total output value - (total input value + land revenue + depreciation).

12. Net returns = Net income + imputed value of family labor + imputed value of owned bullock charges.

Nutrients from Organic and Inorganic Manures

The nutrient content of organic and inorganic manures in terms of N, P_2O_5, and K_2O separately and in total have been estimated with the

help of the data presented in Appendix 5. These values for each plot are available in the plot summary file.

The nutrients received from sheep and goat penning have been estimated taking into consideration the time and size of herds kept on the field. It has been estimated that on an average day dung available from one sheep or goat is about 1.92 kg (Fertilizer Association of India, 1975). Generally, they are kept in the field at night so about half of the dung i.e. 0.96 kg per head per night can be obtained. Therefore the total dung available from sheep and goat kept in the field for a number of days can be obtained which will be then converted into N, P_2O_5 and K_2O to measure the nutrients added to the field because of sheep and goat penning.

REFERENCES

Asokan, M. Rural labor wages and bullock rental rates for various agricultural operations in the SAT of South India, 1975-76 to 1979-80. ICRISAT, Economics Program, Progress Report-18, Patancheru, A.P., India.

Binswanger, H.P., and Jodha, N.S. Manual of instructions for economic investigators in ICRISAT's village level studies. Volume II, Economics Program, ICRISAT, Patancheru, A.P., India.

The Fertilizer Association of India. 1975. Evolving a national strategy on intensive use of fertilizers. In Proceedings of Group Discussion, 25-26 August 1975, New Delhi.

The Fertilizer Association of India. 1978. Fertilizer statistics 1977-78. New Delhi, November.

Appendix 1. PLOT S1 FILE

Variable #	Name	Abbreviation
1	Village code	VILLCODE
2	Landholding class	LANDCLAS
3	Household number	HOUSENUM
4	Year code	YEARCODE
5	Season identifier	SEASIDNT
6	Main plot code	MAINPLOT
7	Subplot code	SUBPLOT
8	Sub-subplot code	SSPLOCOD
9	Total area in acres	TOTAREA*
10	Cropped area in acres	CROPAREA
11	Soil type	SOILTYPE
12	Ownership status code	PLOTSTAT
13	Irrigated area in acres	IRRIAREA
14	Irrigation source code	IRISOURC
15	Main crop code	CROPONE
16	Second crop code	CROPTWO
17	Third crop code	CROP3
18	Fourth crop code	CROPFOUR
19	Fifth crop code	CROPFIVE
20	To put 1 if > 5 crops	MORE5CR
21	Code of first seed type	SEED ONE
22	Qty of first seed type	SEED1QTY
23	Value of first seed type	SEED1VAL
24	Code of second seed type	SEEDTWO
25	Qty of second seed type	SEED2QTY
26	Value of second seed type	SEED2VAL
27	Code of third seed type	SEED3
28	Qty of third seed type	SEED3QTY
29	Value of third seed type	SEED3VAL
30	Code of fourth seed type	SEEDFOUR
31	Qty of fourth seed type	SEED4QTY
32	Value of fourth seed type	SEED4VAL
33	Code of fifth seed type	SEEDFIVE
34	Qty of fifth seed type	SEED5QTY
35	Value of fifth seed type	SEED5VAL
36	Value of all remaining seed type	SEEDOVAL
37	Value of total seed input	SEEDCOST
38	Daynumber of first sowing	DAYSOWN1
39	Daynumber of first harvesting	DAY1HARV
40	Daynumber of last harvesting	DLASTHAR
41	First main product code	PRODONE
42	First main product qty	PROD1QTY
43	First main product value	PROD1VAL
44	Second main product code	PRODTWO
45	Second main product qty	PROD1QTY

*Not transfered in plot summary files.

Appendix 1. Contd.

Variable #	Name	Abbreviation
46	Second main product value	PROD2VAL
47	Third main product code	PROD3
48	Third main product qty	PROD3QTY
49	Third main product value	PROD3VAL
50	Fourth main product code	PRODFOUR
51	Fourth main product qty	PROD4QTY
52	Fourth main product value	PROD4VAL
53	Fifth main product code	PRODFIVE
54	Fifth main product qty	PROD5QTY
55	Fifth main product value	PROD5VAL
56	Value of other products	OPRODVAL
57	Total value of main products	TPRODVAL
58	Byproduct code one	BYPROD1
59	Byproduct one qty	BYPR1QTY
60	Byproduct one value	BYPR1VAL
61	Byproduct two code	BYPROD2
62	Byproduct two quantity	BYPR2QTY
63	Byproduct two value	BYPR2VAL
64	Byproduct three code	BYPROD3
65	Byproduct three quantity	BYPR3QTY
66	Byproduct three value	BYPR3VAL
67	Total value of byproducts	TBYPRVAL
68	Total value of output	OUTPUTVA
69	Total value of all inputs	INPUTVA
70	Net income	NETINC
71	Net returns	NETRET

Appendix 2. PLOT S2 FILE

Variable #	Name	Abbreviation
1	Village code	VILLCODE
2	Landholding class	LANDCLAS
3	Household number	HOUSENUM
4	Year code	YEARCODE
5	Season identifier	SEASIDNT
6	Main plot code	MAINPLOT
7	Subplot code	SUBPLOT
8	Sub-subplot code	SSPLOCOD
9	Total family male labor hours	FAMALAB
10	Total family female labor hours	FAFELAB
11	Total family child labor hours	FACHLAB
12	Total hired male labor hours	HIMALAB
13	Total hired female labor hours	HIFELAB
14	Total hired child labor hours	HICHLAB
15	Total owned bullock labor hours	OWNBULOK
16	Total hired bullock labor hours	HIRBULOK
17	Family male labor imputed value	IVFMALAB
18	Fly female labor imputed value	IVFFELAB
19	Fly child labor imputed value	IVFCHLAB
20	Value of wages for family labor	TOVFALAB
21	Total hired male labor cost	HIMACOST
22	Total hired female iabor cost	HIFECOST
23	Total hired child labor cost	HICHCOST
24	Total hired human labor cost	HILABCOS
25	Total labor cost	TOLABCOS
26	Owned bull hrs imputed value	IVOBLAB
27	Hired bullock labor cost	HBULABCO
28	Total bullock labor use cost	TOVABLAB
29	Owned machine 1 type code	OMACH1
30	Owned machine one use hours	OMACH1HR
31	Owned machine 1 op. cost	OMCH1OC
32	Owned machine 2 type code	OMACH2
33	Owned machine 2 use hours	OMACH2HR
34	Owned machine 2 op. cost	OMACH2OC
35	Hired machine 1 type code	HMACH1
36	Hired machine 1 use hours	HMCAH1HR
37	Hired machine 1 op. cost	HMACH1OC
38	Hired machine 2 type code	HMACH2
39	Hired machine 2 use hours	HMACH2HR
40	Hired machine 2 op. cost	HMACH2OC
41	Hired machine 3 type code	HMACH3
42	Hired machine 3 use hours	HMACH3HR
43	Hired machine 3 op. cost	HMACH3OC
44	Total machinery charges	TOMACHOC
45	Man hrs. for operation A&B	ABMANHRS

Appendix 2. Contd.

Variable #	Name	Abbreviation
46	Man hrs. for operation C&D	CDMANHRS
47	Man hrs. for operation E&F	EFMANHRS
48	Man hrs. for operation G&S	GSMANHRS
49	Man hrs. for operation H	H-MANHRS
50	Man hrs. for operation J	J-MANHRS
51	Man hrs. for operation K	K-MANHRS
52	Man hrs. for operation L	L-MANHRS
53	Man hrs. for operation M	M-MANHRS
54	Man hrs. for operation N, P&Q	NPQMANHR
55	Man hrs. for operation R	R-MANHRS
56	Man hrs. for operations T&U	TUMANHRS
57	Man hrs. for operations X&Z	XZMANHRS
58	Man hrs. for all operations	ALLMANHR
59	Bullock hrs. for operation A&B	ABBULHRS
60	Bullock hrs. for operation C&D	CDBULHRS
61	Bullock hrs. for operation E&F	EFBULHRS
62	Bullock hrs. for operation G&S	GSBULHRS
63	Bullock hrs. for operation H	H-BULHRS
64	Bullock hrs. for operation J	J-BULHRS
65	Bullock hrs. for operation K	K-BULHRS
66	Bullock hrs. for operation L	L-BULHRS
67	Bullock hrs. for operation N, P&Q	NPQBULHR
68	Bullock hrs. for operation R	R-BULHRS
69	Bullock hrs. for operation T&U	TUBULHRS
70	Bullock hrs. for operation X&Z	XZBULHRS
71	Bullock hrs. for all operations	ALLBULHR

Appendix 3. PLOT S3

Variable #	Name	Abbreviation
1	Village code	VILLCODE
2	Landholding class	LANDCLAS
3	Household number	HOUSENUM
4	Year code	YEARCODE
5	Season identifier	SEASIDNT
6	Main plot code	MAINPLOT
7	Subplot code	SUBPLOT
8	Sub-subplot code	SSPLOCOD
9	Code of first fertilizer type	FERTONE
10	Qty of first fertilizer type	FERT1QTY
11	Value of first fertilizer type	FERT1VAL
12	Code of second fertilizer type	FERTTWO
13	Qty of second fertilizer type	FERT2QTY
14	Value of second fertilizer type	FERT2VAL
15	Code of third fertilizer type	FERT3
16	Qty of third fertilizer type	FERT3QTY
17	Value of third fertilizer type	FERT3VAL
18	Code of fourth fertilizer type	FERTFOUR
19	Qty of fourth fertilizer type	FERT4QTY
20	Value of fourth fertilizer type	FERT4VAL
21	Total value of fertilizers	FERTVALU
22	Micronutrients added or not	MICONUT
23	Qty of farm yard manure	FYMQTY
24	Value of farm yard manure	FYMVALUE
25	Qty of sheep penning	SHEEPQTY
26	Value of sheep penning	SHEEPPV
27	Qty of tank silt/soil adding	SILTQTY
28	Value of tank silt/soil adding	SILTVALU
29	Remain organic manure value	OORGVALU
30	Total value of all org. manure	TOTORGVA
31	Kgs of nitrogen (inorganic)	INORGN
32	Kgs of phosphorus (P205 - inorg)	INORP205
33	Kgs of potash (K20 - inorganic)	INORGK20
34	Kgs of NPK (Total) - inorganic	INORGNPK
35	Total Kgs of N (org + inorg)	ALL-N
36	Total kgs of P205 (org + inorg)	ALL-P205
37	Total kgs of K20 (org + inorg)	ALL-K20
38	Kgs of total plant nutrients	NUTRIENT
39	Code of first pesticide type	PESTONE
40	Qty of first pesticide type	PEST1QTY
41	Value of first pesticide type	PEST1VAL
42	Code of second pesticide type	PESTTWO
43	Qty of second pesticide type	PEST2QTY
44	Value of second pesticide type	PEST2VAL
45	Code of third pesticide type	PEST3

Appendix 3. Contd.

Variable #	Name	Abbreviation
46	Qty of third pesticide type	PEST3QTY
47	Value of third pesticide type	PEST3VAL
48	Qty of other pesticides	PESTOQTY
49	Value of other pesticides	PESTOVAL
50	Total value of all pesticides	PESTCOST
51	No. of irrigations given	#OFIRRIG*
52	Total irrigation charges	IRRICOST*
53	Miscellaneous expenses	MISCEEXP*
54	Total value of the plot	PLOTVALU
55	Revenue for the plot	REVENUE
56	Other taxes, cess, etc.	OTHERTAX*
57	Total land revenue + other taxes	TLR+OTAX*
58	Value of rent paid in cash	CASHRENT*
59	Value of rent paid in kind	KINDRENT*
60	Total rent paid (cash + kind)	TOTRENT
61	Working capital interest	WORKCAPI*
62	Fixed asset depreciation charges	FASETDEP
63	Fixed asset imputed interest	FAIMPINT*

*Not transfered in plot summary files

Appendix 4. Weighted average prices of different crops/commodities in the southern SAT Indian villages from 1975-76 to 1977-78.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Mahbubnagar District					
			Aurepalle			Dokur		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
MAIN PRODUCT								
1.	Pearl millet (local)	Kg	1.05	1.31	1.00	--	--	--
2.	Pearl millet (HYV)	Kg	--	--	--	--	--	--
3.	Sorghum (local)	Kg	0.82	1.03	0.91	0.60	1.05	1.17
4.	Sorghum (HYV)	Kg	0.92	0.89	0.85	0.92	1.00	1.30
5.	Maize (local)	Kg	--	--	--	--	--	--
6.	Maize (HYV)	Kg	--	--	--	--	--	--
7.	Ragi	Kg	--	--	--	0.60	1.00	1.00
8.	Other minor millet	Kg	2.30	--	--	0.35	0.57	0.65
9.	Paddy (local)	Kg	0.87	1.00	1.16	0.60	1.02	0.99
10.	Paddy (HYV)	Kg	0.90	0.86	1.03	0.89	0.98	1.03
11.	Wheat (local)	Kg	1.33	1.43	1.55	--	--	--
12.	Wheat (HYV)	Kg	--	1.43	--	--	--	--
13.	Other cereals	Kg	1.00	--	--	0.30	0.40	0.45
14.	Pigeonpea	Kg	1.00	2.50	3.92	1.59	2.25	2.50
15.	Green gram	Kg	1.08	2.50	3.43	--	--	--
16.	Black gram	Kg	--	--	3.50	--	--	--
17.	Chickpea	Kg	--	2.25	--	2.15	2.25	1.69
18.	Other pulses	Kg	0.80	1.52	2.95	0.61	1.08	1.78
19.	Groundnut in shell	Kg	2.46	2.46	2.58	1.64	2.46	2.40
20.	Sesamum	Kg	--	3.00	3.00	--	--	3.00
21.	Castor	Kg	1.46	2.40	2.20	--	--	--
22.	Linseed	Kg	--	--	--	--	--	--
23.	Sunflower	Kg	--	--	--	--	--	--
24.	Safflower	Kg	1.04	1.12	1.20	--	--	--
25.	Other oil seeds	Kg	--	--	--	--	--	--
26.	Cotton (local)	Kg	--	--	--	--	--	--
27.	Cotton (HYV)	Kg	--	--	--	--	--	--
28.	Other fibre crops	Kg	2.57	2.57	--	2.50	2.57	2.50
29.	Sugarcane	Kg	--	--	--	--	--	--
30.	Onion	Kg	0.77	0.40	0.60	1.05	0.73	1.37

-- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Mahbubnagar District					
			Aurepalle			Dokur		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
MAIN PRODUCT								
31.	Chillies	Kg	3.96*	1.76	2.62	1.49	2.02	1.94
32.	Brinjal	Kg	0.48	--	--	1.20	0.78	1.00
33.	Tomato	Kg	0.50	0.90	1.20	1.20	0.60	1.17
34.	Other vegetables	Kg	0.41	1.20	1.37	1.13	1.20	1.37
35.	Other spices	Kg	1.50	--	--	--	--	--
36.	Lemon	100 number	--	--	--	--	--	--
37.	Other fruits	--	--	--	--	--	--	--
SEED								
38.	Pearl millet (local)	Kg	1.15	1.30	1.00	--	--	--
39.	Pearl millet (HYV)	Kg	--	--	--	--	--	--
40.	Sorghum (local)	Kg	1.50	1.50	1.00	1.70	1.44	1.50
41.	Sorghum (HYV)	Kg	3.34	2.50	4.15	10.00	9.75	10.50
42.	Maize (local)	Kg	--	--	--	--	--	--
43.	Maize (HYV)	Kg	--	--	--	--	--	--
44.	Ragi	Kg	--	--	--	1.50	1.00	1.20
45.	Other minor millets	Kg	--	--	--	0.90	0.87	1.00
46.	Paddy (local)	Kg	1.15	1.00	1.40	1.37	0.99	1.00
47.	Paddy (HYV)	Kg	0.90	1.00	1.08	1.46	1.09	1.25
48.	Wheat (local)	Kg	2.00	2.25	2.25	--	--	--
49.	Wheat (HYV)	Kg	--	1.50	--	--	--	--
50.	Other cereals	Kg	1.00	--	--	--	--	--
51.	Pigeonpea	Kg	2.50	2.50	3.83	2.40	2.74	3.00
52.	Green gram	Kg	2.50	2.50	3.43	--	--	--
53.	Black gram	Kg	--	--	4.00	--	--	--
54.	Chickpea	Kg	--	2.25	--	--	--	3.00
55.	Other pulses	Kg	2.00	2.00	2.39	3.00	1.09	2.50
56.	Groundnut in kernals	Kg	4.50	4.50	5.67	5.00	4.50	5.67
57.	Sesamum	Kg	--	3.00	3.00	5.00	5.00	5.00
58.	Castor	Kg	2.50	2.86	2.93	--	--	--
59.	Linseed	Kg	--	--	--	--	--	--
60.	Sunflower	Kg	--	--	--	--	--	--

*Red chillies, -- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Mahbubnagar District					
			Aurepalle			Dokur		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
SEED								
61.	Safflower	Kg	2.00	2.00	2.00	--	--	--
62.	Other oil seeds	Kg	--	--	--	--	--	--
63.	Cotton (local)	Kg	--	--	--	--	--	--
64.	Cotton (HYV)	Kg	--	--	--	--	--	--
65.	Other fibre crops	Kg	2.12	2.12	--	2.00	2.12	2.50
66.	Sugarcane	100 beats	--	--	--	--	--	--
67.	Onion	100 seedlings	--	--	--	--	--	--
68.	Chillies	100 seedlings	13.23*	--	--	--	1.00	--
69.	Brinjal	100 seedlings	1.00	--	--	--	1.00	--
70.	Tomato	100 seedlings	2.00	--	--	2.00	2.00	2.00
71.	Other vegetables	Kg	6.00	--	--	--	--	--
72.	Other spices	--	--	--	--	--	--	--
73.	Other fruits	--	--	--	--	--	--	--
BYPRODUCT								
74.	Rough dry fodder	quintals	7.00	6.60	5.00	12.00	20.00	40.00
75.	Fine dry fodder	quintals	17.00	18.00	20.00	18.00	24.00	20.00
76.	Green fodder	quintals	30.00	30.00	25.00	--	--	--
77.	B.P. not fodder	quintals	10.00	10.00	-	--	--	--
MACHINERY								
78.	Oil pump	hour	--	--	--	3.50	3.50	3.50
79.	Electric pump	hour	--	--	--	4.50	4.50	4.50
FERTILIZER								
80.	Ammo. Sulphate	Kg	0.98	--	--	--	--	--
81.	Cal. Ammo. Nitrate	Kg	1.27	1.27	1.20	--	--	--
82.	Urea	Kg	2.04	1.71	1.72	2.04	1.89	1.70
83.	Single Sup. Phosphate	Kg	--	--	--	--	--	--
84.	Triple Sup. Phosphate	Kg	--	--	--	--	--	--
85.	Muriate of Potash	Kg	--	--	--	--	--	--
86.	Diammo. Phosphate	Kg	2.40	2.37	2.54	--	--	--
87.	Complex 18:18:10	Kg	--	--	--	--	--	--
88.	Complex 15:15:15	Kg	--	--	--	--	--	--

-- Not available; *Per kg

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Mahbubnagar District					
			Aurepalle			Dokur		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
89.	Complex 14:28:14	Kg	--	2.64	--	3.40	3.50	3.60
90.	Complex 17:17:17	Kg	2.90	2.53	2.16	2.52	2.50	2.50
91.	Complex 14:35:14	Kg	2.69	2.60	2.65	2.50	2.39	2.33
92.	Complex 28:28:0	Kg	1.36	2.48	2.30	3.40	2.90	2.40
93.	Micro Nutrient	Kg	--	--	--	--	--	--
94.	Other fertilizer	Kg	2.28	3.00	2.66	2.80	--	--
ORGANIC MANURE								
95.	Farm yard manure	quintals	3.00	4.00	5.00	5.00	5.00	5.00
96.	Groundnut cake	Kg	--	--	--	--	--	--
97.	Sheep penning	100 animal days	5.00	--	--	5.00	20.00	20.00
98.	Other manures	quintals	50.00	--	--	--	--	--
PESTICIDES/INSECTICIDES								
99.	BHC 10%	Kg	--	1.65	--	1.60	1.65	1.16
100.	BHC	Kg	--	--	--	--	--	--
101.	DDT 50%	Kg	--	--	--	--	--	--
102.	Sultaph/Sulphur	Kg	8.00	--	--	--	--	--
103.	Heliotox	lt	--	--	--	--	--	--
104.	Sumithion	lt	--	--	--	--	--	--
105.	Thiodon/Endosulfan	lt	--	--	--	--	--	36.00
106.	Endrin	lt	78.4	20.43	38.00	50.00	46.00	54.00
107.	Cythion/Malathion	lt	65.00	--	--	--	--	--
108.	Carbaryl 50%, Seven 50%	Kg	--	--	--	--	--	--
109.	Dimiecron	lt	--	--	--	--	--	--
110.	Rogor	lt	--	--	--	--	--	--
111.	Parathion	lt	--	3.00*	--	33.33	--	--
112.	Zolone	lt	--	--	--	--	--	--
113.	Nuvacron	lt	--	--	--	--	--	--
114.	Thimet	lt	--	--	--	--	--	--
115.	Metacipcomby	lt	200.00	--	--	--	--	--
116.	Dithane Z-78	lt	--	--	--	--	--	--
117.	Brassicol 75 WP	Kg	--	--	--	--	--	--
118.	Copper Oxychloride/ Blitox 50/Cuprex	lt	--	--	--	--	--	--

-- Not available, *Dust

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Sholapur District					
			Shirapur			Kalman		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
MAIN PRODUCT								
1.	Pearl millet (local)	Kg	1.20	1.50	1.00	1.14	0.96	0.97
2.	Pearl millet (HYV)	Kg	--	--	--	1.15	--	--
3.	Sorghum (local)	Kg	1.52	1.25	1.18	1.38	1.23	1.10
4.	Sorghum (HYV)	Kg	--	--	--	1.14	1.14	1.14
5.	Maize (local)	Kg	1.00	1.10	1.01	0.87	0.99	1.00
6.	Maize (HYV)	Kg	1.00	1.09	1.11	0.97	0.97	0.97
7.	Ragi	Kg	--	--	--	--	--	--
8.	Other minor millets	Kg	1.50	1.50	1.67	1.88	0.66	1.00
9.	Paddy (local)	Kg	1.00	1.09	2.29	1.39	1.49	1.28
10.	Paddy (HYV)	Kg	1.39	--	--	2.00	1.57	2.29
11.	Wheat (local)	Kg	1.90	1.55	1.51	1.53	1.47	1.95
12.	Wheat (HYV)	Kg	--	2.00	--	2.00	--	2.00
13.	Other cereals	Kg	1.10	0.92	1.20	1.23	1.09	1.50
14.	Pigeonpea	Kg	0.95	2.61	3.10	0.93	1.46	2.50
15.	Green gram	Kg	2.00	2.00	2.50	2.71	2.09	3.00
16.	Black gram	Kg	--	1.50	1.75	2.67	1.58	1.75
17.	Chickpea	Kg	1.48	1.56	1.97	1.40	1.37	1.68
18.	Other pulses	Kg	1.62	1.15	2.00	1.73	1.18	0.63
19.	Groundnut in shell	Kg	2.28	1.99	2.90	1.99	1.64	2.49
20.	Sesamum	Kg	5.00	4.00	6.00	--	5.00	6.00
21.	Castor	Kg	--	--	--	2.00	--	--
22.	Linseed	Kg	1.37	2.50	2.00	1.60	1.47	2.12
23.	Sunflower	Kg	1.31	1.43	2.00	1.45	2.25	2.00
24.	Safflower	Kg	1.24	1.49	2.21	1.05	2.31	2.55
25.	Other oil seeds	Kg	1.30	--	--	--	--	--
26.	Cotton (local)	Kg	1.00	--	--	--	--	--
27.	Cotton (HYV)	Kg	--	--	--	--	--	--
28.	Other fibre crops	Kg	1.50	1.50	2.00	2.00	1.43	2.00
29.	Sugarcane	Kg	0.12	0.13	0.20	0.12	0.13	0.20
30.	Onion	Kg	0.49	0.81	0.49	0.42	0.39	0.54

-- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Sholapur District					
			Shirapur			Kalman		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
31.	Chillies	Kg	1.83	1.84	1.60	2.03	1.29	1.53
32.	Brinjal	Kg	1.00	1.17	0.88	1.00	0.40	0.30
33.	Tomato	Kg	--	--	--	0.33	--	--
34.	Other vegetables	Kg	1.50	1.30	1.49	1.50	1.01	1.20
35.	Other spices	Kg	--	--	--	--	4.79	4.79
36.	Lemon	100 number	5.00	6.00	8.00	4.00	9.00	9.00
37.	Other fruits	--	3.47	--	--	1.00	1.00	--
SEED								
38.	Pearl millet (local)	Kg	1.50	1.50	1.50	2.84	1.53	1.53
39.	Pearl millet (HYV)	Kg	--	--	--	5.00	--	--
40.	Sorghum (local)	Kg	1.65	1.61	1.36	1.83	1.65	1.65
41.	Sorghum (HYV)	Kg	--	--	5.86	4.50	4.62	4.75
42.	Maize (local)	Kg	1.14	1.23	1.43	1.59	1.75	1.00
43.	Maize (HYV)	Kg	5.00	--	--	5.11	4.50	4.60
44.	Ragi	Kg	--	--	--	--	--	--
45.	Other minor millets	Kg	--	--	1.87	1.77	1.75	1.98
46.	Paddy (local)	Kg	1.78	1.68	2.37	2.29	1.94	2.32
47.	Paddy (HYV)	Kg	--	--	--	--	--	--
48.	Wheat (local)	Kg	1.92	1.58	1.75	1.80	1.56	1.94
49.	Wheat (HYV)	Kg	--	1.70	--	1.50	1.59	1.67
50.	Other cereals	Kg	2.38	1.82	2.11	2.00	1.59	1.42
51.	Pigeonpea	Kg	2.07	1.76	3.52	1.74	1.89	3.52
52.	Green gram	Kg	2.94	2.00	3.60	2.67	2.45	3.60
53.	Chickpea	Kg	--	2.50	2.78	2.61	2.08	2.78
54.	Bengal gram	Kg	2.12	1.83	2.06	2.22	1.27	1.71
55.	Other pulses	Kg	1.32	1.66	2.57	1.62	1.54	1.66
56.	Groundnut in kernals	Kg	4.85	6.00	4.25	4.03	4.96	5.61
57.	Sesamum	Kg	6.00	4.00	--	5.00	3.89	4.00
58.	Castor	Kg	--	--	--	--	--	--
59.	Linseed	Kg	2.20	2.40	1.97	1.85	1.50	2.22
60.	Sunflower	Kg	3.00	3.00	--	2.57	2.00	2.28

-- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Sholapur District					
			Shirapur			Kalman		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
61.	Safflower	Kg	1.55	1.99	2.45	1.06	1.95	2.84
62.	Other oil seeds	Kg	2.23	--	--	--	--	--
63.	Cotton (local)	Kg	1.92	--	--	--	--	--
64.	Cotton (HYV)	Kg	--	--	--	--	--	--
65.	Other fibre crops	Kg	0.67	2.00	1.50	1.64	1.39	1.50
66.	Sugarcane	100 beats	1.64	1.64	1.64	1.64	1.64	1.64
67.	Onion	100 seedlings	0.50	0.50	0.50	0.50	0.50	0.50
68.	Chillies	100 seedlings	1.00	1.00	1.00	1.00	1.00	1.00
69.	Brinjal	100 seedlings	1.00	1.00	1.00	1.00	1.00	1.00
70.	Tomato	100 seedlings	--	--	--	--	--	--
71.	Other vegetables	--	--	18.57	3.35	16.90	16.90	6.00
72.	Other spices	--	--	--	--	--	9.09	6.40
73.	Other fruits	--	--	--	--	--	--	75.00
BYPRODUCT								
74.	Rough dry fodder	quintals	25.00	28.00	24.00	21.00	27.00	15.00
75.	Fine dry fodder	quintals	15.00	14.00	13.00	27.00	26.00	25.00
76.	Green fodder	quintals	6.00	30.00	25.00	6.00	6.00	6.00
77.	B.P. not fodder	quintals	10.00	10.00	10.00	10.00	10.00	10.00
MACHINERY								
78.	Oil pump	hour	4.00	4.00	4.50	4.00	4.00	4.50
79.	Electric pump	hour	3.00	3.00	3.50	3.00	3.00	3.50
FERTILIZER								
80.	Ammo. Sulphate	Kg	2.50	--	--	--	--	--
81.	Cal. Ammo. Nitrate	Kg	--	--	--	--	--	--
82.	Urea	Kg	1.77	1.78	1.75	1.92	1.78	1.71
83.	Single Sup. Phosphate	Kg	0.80	0.60	0.70	1.04	0.62	0.60
84.	Triple Sup. Phosphate	Kg	--	--	--	--	1.60	1.60
85.	Muriate of Potash	Kg	--	--	--	--	--	1.00
86.	Diammo. Phosphate	Kg	--	--	--	--	--	--
87.	Complex 18:18:10	Kg	--	1.25	--	--	--	--
88.	Complex 15:15:15	Kg	1.42	1.50	1.65	1.81	1.73	1.64
89.	Complex 14:28:14	Kg	--	--	--	--	--	--
90.	Complex 17:17:17	Kg	--	2.15	2.00	--	2.15	1.90

-- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Sholapur District					
			Shirapur			Kalman		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
91.	Complex 14:35:14	Kg	--	--	--	--	--	--
92.	Complex 28:28:0	Kg	2.50	2.50	2.50	2.50	2.50	2.50
93.	Micro Nutrient	Kg	-	--	--	--	--	--
94.	Other fertilizer	Kg	1.60	1.51	--	1.60	1.51	1.38
ORGANIC MANURE								
95.	Farm yard manure	quintals	2.00	3.00	3.50	2.00	3.00	3.50
96.	Groundnut cake	Kg	1.57	1.56	1.55	1.57	1.60	1.55
97.	Sheep penning	100 animal days	7.00	--	--	--	--	--
98.	Other manures	quintals	--	--	16.00	--	--	--
PESTICIDES/INSECTICIDES								
99.	BHC 10%	Kg	--	--	--	1.62	1.25	2.00
100.	BHC	Kg	1.65	1.25	2.00	--	7.50	7.50
101.	DDT 50%	Kg	--	--	--	--	--	--
102.	Sultaph/Sulphur	Kg	--	--	--	--	--	--
103.	Heliotox	lt	--	--	--	--	--	--
104.	Sumithion	lt	--	--	--	--	--	--
105.	Thiodon/Endosulphon	lt	--	--	--	56.00	56.00	--
106.	Endrin	lt	--	--	--	30.00	30.00	30.00
107.	Cythion/Malathion	lt	--	--	--	--	70.00	--
108.	Carbaryl 50%, Seven 50%	Kg	--	--	--	--	--	--
109.	Dimiecron	lt	--	--	--	173.33	--	--
110.	Rogor	lt	70.00	84.15	75.00	70.00	--	59.00
111.	Parathion	lt	--	--	--	44.00	--	--
112.	Zolone	lt	--	--	--	--	--	120.00
113.	Nuvacron	lt	--	--	--	--	--	--
114.	Thimet	lt	--	--	--	--	--	--
115.	Metacipcomby	lt	--	--	--	--	--	--
116.	Dithane Z-78	lt	--	--	--	30.00	--	--
117.	Brassicol 75 WP	Kg	--	--	--	--	--	--
118.	Copper Oxychloride/ Bliotox 50/Cuprex	lt	--	--	--	--	--	--

-- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Akola District					
			Kanzara			Kinkheda		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
MAIN PRODUCT								
1.	Pearl millet (local)	Kg	2.00	1.24	1.20	0.89	1.16	0.90
2.	Pearl millet (HYV)	Kg	1.15	--	--	--	--	--
3.	Sorghum (local)	Kg	1.19	1.09	1.02	1.18	0.97	1.00
4.	Sorghum (HYV)	Kg	0.95	0.98	0.91	0.87	0.94	0.77
5.	Maize (local)	Kg	--	--	--	--	--	--
6.	Maize (HYV)	Kg	--	--	--	--	--	--
7.	Ragi	Kg	--	--	--	--	--	--
8.	Other minor millets	Kg	--	--	--	--	--	--
9.	Paddy (local)	Kg	1.64	1.34	1.36	1.47	1.20	1.00
10.	Paddy (HYV)	Kg	--	--	--	--	--	--
11.	Wheat (local)	Kg	1.57	1.49	1.68	1.50	1.31	1.45
12.	Wheat (HYV)	Kg	1.33	1.36	1.42	1.26	1.30	1.30
13.	Other cereals	Kg	--	--	--	--	--	--
14.	Pigeonpea	Kg	1.31	1.70	2.87	1.35	1.94	2.76
15.	Green gram	Kg	1.69	1.37	2.03	1.65	1.47	2.14
16.	Black gram	Kg	1.69	1.54	2.40	1.66	1.95	2.35
17.	Chickpea	Kg	1.42	1.34	2.08	1.17	1.31	1.93
18.	Other pulses	Kg	1.40	1.50	1.90	1.40	1.50	1.90
19.	Groundnut in shell	Kg	2.10	3.03	2.88	2.20	3.10	2.32
20.	Sesamum	Kg	4.00	3.00	4.00	4.00	3.00	4.00
21.	Castor	Kg	--	--	--	--	--	--
22.	Linseed	Kg	--	--	2.00	--	--	--
23.	Sunflower	Kg	1.52	--	--	--	--	--
24.	Safflower	Kg	--	--	2.38	--	--	2.38
25.	Other oil seeds	Kg	--	--	--	--	--	--
26.	Cotton (local)	Kg	2.61	2.45	3.87	2.31	2.37	4.32
27.	Cotton (HYV)	Kg	3.24	3.30	4.41	3.41	3.22	4.98
28.	Other fibre crops	Kg	--	--	2.00	--	--	--
29.	Sugarcane	Kg	0.12	0.13	0.20	--	--	--
30.	Onion	Kg	0.34	0.55	0.41	0.43	0.33	0.80

-- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Akola District					
			Kanzara			Kinkheda		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
31.	Chillies	Kg	12.16*	1.36	1.90	2.20	1.69	1.76
32.	Brinjal	Kg	1.00	0.75	0.59	1.00	0.75	0.63
33.	Tomato	Kg	--	--	--	--	--	--
34.	Other vegetables	Kg	0.65	0.90	1.00	0.66	0.94	0.95
35.	Other spices	Kg	--	--	2.11	--	--	--
36.	Lemon	100 number	--	--	--	--	--	--
37.	Other fruits	--	--	--	--	--	--	--
SEED								
38.	Pearl millet (local)	Kg	3.00	1.80	1.90	3.00	1.75	1.93
39.	Pearl millet (HYV)	Kg	9.00	--	--	--	--	--
40.	Sorghum (local)	Kg	1.74	1.49	1.75	2.23	2.02	2.08
41.	Sorghum (HYV)	Kg	3.49	7.47	5.62	4.32	6.91	5.95
42.	Maize (local)	Kg	--	--	--	--	--	--
43.	Maize (HYV)	Kg	--	--	--	--	--	--
44.	Ragi	Kg	--	--	--	--	--	--
45.	Other minor millets	Kg	--	--	--	--	--	--
46.	Paddy (local)	Kg	2.38	2.11	2.11	1.65	1.54	1.50
47.	Paddy (HYV)	Kg	--	--	--	--	--	--
48.	Wheat (local)	Kg	2.24	1.60	1.93	2.26	1.73	1.90
49.	Wheat (HYV)	Kg	2.34	1.97	1.63	2.50	2.50	1.65
50.	Other cereals	Kg	--	--	--	--	--	--
51.	Pigeonpea	Kg	1.57	2.03	3.12	1.97	2.68	3.00
52.	Green gram	Kg	1.89	2.41	2.79	2.41	2.17	3.00
53.	Black gram	Kg	1.89	2.14	2.79	2.17	2.05	2.86
54.	Chickpea	Kg	1.82	1.38	2.28	1.96	1.25	2.25
55.	Other pulses	Kg	1.75	1.80	3.00	1.75	1.50	3.00
56.	Groundnut in kernals	Kg	8.00	4.37	4.14	3.25	5.00	4.40
57.	Sesamum	Kg	4.00	3.98	4.00	4.00	3.98	4.00
58.	Castor	Kg	--	--	--	--	--	--
59.	Linseed	Kg	--	--	2.25	--	--	--
60.	Sunflower	Kg	3.60	--	--	--	--	--

*Red chillies; -- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Akola District					
			Kanzara			Kinkheda		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
61.	Safflower	Kg	--	--	2.00	--	--	2.76
62.	Other oil seeds	Kg	--	--	--	--	--	--
63.	Cotton (local)	Kg	1.92	2.10	1.93	2.00	2.05	2.50
64.	Cotton (HYV)	Kg	45.00	45.00	90.00	56.25	45.00	90.00
65.	Other fibre crops	Kg	--	--	1.50	--	--	--
66.	Sugarcane	10 beats	1.64	1.64	1.64	--	--	--
67.	Onion	100 seedlings	0.50	0.50	0.50	--	--	--
68.	Chillies	100 seedlings	1.00	1.00	1.00	1.50	--	--
69	Brinjal	100 seedlings	1.00	1.00	1.00	--	--	--
70.	Tomato	100 seedlings	--	--	--	--	--	--
71.	Other vegetables	--	--	--	9.26	6.33	--	--
72.	Other spices	--	--	--	4.12	--	--	--
73.	Other fruits	--	--	--	--	--	--	--
BYPRODUCT								
74.	Rough dry fodder	quintals	9.00	15.00	10.00	7.00	13.00	34.00
75.	Fine dry fodder	quintals	14.00	8.00	25.00	38.00	22.00	49.00
76.	Green fodder	quintals	--	--	--	6.00	30.00	25.00
77.	B.P. not fodder	quintals	10.00	10.00	10.00	10.00	10.00	10.00
MACHINERY								
78.	Oil pump	hour	--	--	--	8.00	8.00	3.00
79.	Electric pump	hour	8.00	8.00	8.00	7.00	7.00	7.00
FERTILIZER								
80.	Ammo. Sulphate	Kg	--	--	--	--	--	--
81.	Cal. Ammo. Nitrate	Kg	--	--	--	--	--	--
82.	Urea	Kg	1.89	1.64	1.59	1.82	1.67	1.44
83.	Single Sup. Phosphate	Kg	0.67	0.71	0.64	0.50	--	--
84.	Triple Sup. Phosphate	Kg	--	--	--	--	--	--
85.	Muriate of Potash	Kg	--	--	--	1.28	--	--
86.	Diammo. Phosphate	Kg	--	--	--	--	--	--
87.	Complex 18:18:10	Kg	1.90	1.89	1.79	2.02	1.66	1.80
88.	Complex 15:15:15	Kg	1.86	1.40	1.40	1.77	1.59	1.59
89.	Complex 14:28:14	Kg	--	--	--	--	--	--
90.	Complex 17:17:17	Kg	2.64	--	--	2.64	1.97	--

-- Not available

Contd.

Appendix 4. Contd.

(Rupees per unit)

Serial number	Crop/commodity	Unit	Akola District					
			Kanzara			Kinkheda		
			1975-76	1976-77	1977-78	1975-76	1976-77	1977-78
91.	Complex 14:35:14	Kg	--	--	--	--	--	--
92.	Complex 28:28:0	Kg	--	--	--	--	--	--
93.	Micro Nutrient	Kg	--	--	18.00	--	--	--
94.	Other fertilizer	Kg	2.21	1.68	1.83	2.18	1.05	--
ORGANIC MANURE								
95.	Farm yard manure	quintals	3.00	3.09	4.00	2.00	4.00	4.00
96.	Groundnut cake	Kg	--	--	--	--	--	--
97.	Sheep penning	100 animal days	--	--	--	2.00	2.00	2.00
98.	Other manures	quintals	--	--	--	--	--	--
PESTICIDES/INSECTICIDES								
99.	BHC 10%	Kg	1.78	2.01	1.65	1.04	1.04	1.65
100.	BHC 50%	Kg	--	--	--	--	14.40	--
101.	DDT 50%	Kg	16.00	21.33	23.17	19.67	15.00	23.17
102.	Sultaph/Sulphur	Kg	--	--	--	--	--	--
103.	Heliotox	lt	--	--	--	39.00	34.00	--
104.	Sumithion	lt	--	--	--	--	--	--
105.	Thiodon/Endosulphon	lt	56.50	58.00	55.00	55.00	55.00	55.00
106.	Endrin	lt	44.85	42.22	45.56	42.75	44.22	41.50
107.	Cythion/Malathion	lt	--	--	--	--	--	--
108.	Carbaryl 50%, Seven 50%	Kg	32.00	34.00	34.00	--	--	--
109.	Dimiecron	lt	173.33	177.89	164.80	177.89	177.89	165.00
110.	Rogor	lt	70.25	73.33	74.74	45.00	59.00	--
111.	Parathion	lt	--	--	--	--	--	--
112.	Zolone	lt	--	--	66.50	--	--	--
113.	Nuvacron	lt	167.25	196.88	168.00	--	164.00	--
114.	Thimet	lt	20.00	20.00	20.00	--	20.00	20.00
115.	Metacipcomby	lt	82.50	90.00	75.00	--	90.00	--
116.	Dithane Z-78	lt	--	--	--	--	--	--
117.	Brassicol 75 WP	Kg	38.00	--	--	--	--	--
118.	Copper Oxychloride/ Blitox 50/Cuprex	lt	31.50	32.00	31.00	--	32.00	31.00

-- Not available

Appendix 5. Nutrient contents of different types of manures and fertilizers.

(In percentages)

Sr. No.	Name of fertilizer and manures	Manure code	Nitrogen	P_2O_5*	K_2O**
1.	Amonium sulphate	65	20.6	-	-
2.	Calcium amonium nitrate	66	25.0	-	-
3.	Amonium sulphate nitrate	67	26.0	-	-
4.	Urea	68	46.0	-	-
5.	Single super phosphate	69	-	16.0	-
6.	Triple super phosphate	70	-	42.5	-
7.	Muriate of potash	71	-	-	58.0
8.	Sulphate of potash	72	-	-	48.0
9.	Diamonium phosphate	74	18.0	46.0	-
10.	Amonium nitrate phosphate	75	20.0	5.4	-
11.	Complex 22:22:11	76	22.0	19.6	11.0
12.	Complex 18:18:10	77	18.0	4.9	9.0
13.	Complex 15:15:15	78	15.0	4.0	15.0
14.	Complex 14:28:14	80	14.0	25.2	14.0
15.	Complex 17:17:17	81	17.0	15.3	17.0
16.	Complex 11:11:11	82	11.0	11.0	11.0
17.	Complex 14:35:14	83	14.0	29.6	14.0
18.	Complex 28:28:0	84	28.0	25.2	-
19.	Complex 6:12:6	85	6.0	12.0	6.0
20.	Farm yard manure	1	1.0	0.6	1.2
21.	Groundnut cakes	2	7.10	1.55	1.35
22.	Castor cakes	3	5.65	1.85	1.05
23.	Other cakes	4	4.71	1.65	1.50
24.	Green manure	5	0.60	0.15	0.70
25.	Tank silt	6	1.0	1.0	1.50
26.	Sheep penning	7	0.95	0.35	1.0
27.	Other manures	8	1.0	0.60	1.20

* Water soluable phosphate
** Water soluable potash

Source: The Fertilizer Association of India, "Fertilizer Statistics 1977-78," New Delhi, November, 1978.