

APPENDIX V

Assesment and processing of results : The effect of herbicides on weeds andjute crop was expressed on a 0-5 subjective scoring scale. Scale points were defined as follows :

W E E D C O N T R O L

Pre-plant or pre-emergence application :

- 0 - No effect
- 1 - Population reduced by 10-25 per cent.
- 2 - " " 26-45 per cent.
- 3 - " " 46-65 per cent.
- 4 - " " 66-95 per cent.
- 5 - " " 96-100 per cent.

Post-emergence application :

- 0 - No effect on weeds; weed growth as in control plot.
- 1 - Retardation and yellowing of weeds observed.
- 2 - 1-30 per cent weeds killed or suppressed and rest were left in moribund condition, but recovered partly.
- 3 - 31-70 per cent weeds killed or suppressed, others were in living condition but never looked fresh.
- 4 - 71-99 per cent weeds killed or suppressed others were in living condition but never looked fresh.
- 5 - Weeds completely killed or suppressed, plots were seen clean.

P H Y T O T O X I C I T Y O N C R O P :

Pre-plant or pre-emergence application :

- 0 - No germination.

- 1 - 0-15 per cent germination.
- 2 - 10-40 per cent germination.
- 3 - 41-75 per cent germination.
- 4 - 76-95 per cent germination.
- 5 - Almost normal.

Post-emergence :

- 0 - Growth checked completely or killed.
- 1 - Leaves turned to yellow colour, wrinkled and defoliated; partly killed and remain stunted.
- 2 - Necrosis and burning of leaves or wrinkling observed and finally defoliation; growth remained stunted.
- 3.- Necrosis on the margin of leaves or wrinkling of leaves and also some defoliation of leaves were observed.
- 4 - Yellowing and wrinkling of jute crop observed but resume normal growth.
- 5 - Normal growth of the crop.

N.B. In some trials a wider subjective scoring scale was used to indicate the extent of weed control, where 0 shows least or no effect on weeds and 10 indicates complete kill. Phytotoxicity on crop is indicated by 10 denoting 100 per cent stand and vigour or normal crop and 0 representing death of the crop.