

Besides paid-out cost, the above costs include imputed rental value of owned land, interest on fixed capital and value of family labour.

(c) The procurement price for paddy in 1979-80 marketing season was Rs. 95.00 per quintal for common (long bold/short bold) varieties.

Progress of Biological Control of Pests

5888. SHRIMATI KISHORI SINHA:
Will the Minister of AGRICULTURE be pleased to state:

(a) whether any progress has been achieved in biological control of pests and insects; and

(b) if so, the details thereof?

THE MINISTER OF STATE IN THE
MINISTRY OF AGRICULTURE
(SHRI R. V. SWAMINATHAN):

(a) Yes, Sir.

(b) Details are given in the enclosed statement.

Statement

Statement showing the achievements in biological control of pests and insects.

Name of the pest	Name of the crops generally affected	Name of the predator/parasite introduced/established.	Area in which introduced	Remarks
(1)	(2)	(3)	(4)	(5)
1. Cotton Cushion scale	Citrus	<i>Rodolia cardinalis</i> from South Africa	Southern States:	Found effective
2. Woolly Aphid	Apple	<i>Athelinus mali</i> from N. America	Kulu Valley, Shul-long Area	Found effective
3. San Jose scale	Apple	<i>Prosopitella perniciosi</i> from N. America & Europe	J&K, Himachal Pradesh and U.P. (Kumaon)	Effects are remarkable
4. Prickly Pear (Weed)	All crops	Cochineal insect from Sri Lanka	Southern States	Found effective.
5. Pyrilla	Sugarcane	<i>Tetrastichus pyrillae</i> (egg parasite) and <i>Epipyrops melanoleuca</i> (nymphal & adult parasite) (Indigenous)	Bihar, U.P., Delhi, Haryana, Punjab, Rajasthan (Sri-Banganagar)	Found very effective.
6. Top Borer	Sugarcane	<i>Isotima javensis</i> from Uttar Pradesh (Indigenous)	Tamil Nadu (Tiruchirappalli, South Arcot & Tanjore Districts.)	Found effective
7. Scale Insect	Sugarcane	A number of predators from Australia & Mauritius.	Andhra Pradesh (West Godavari), U.P. (Deoria & Gorakhpur)	Control reported ^d
8. Semilooper	Caster	<i>Telenomus</i> sp. from New Guinea	A.P. (Mehboobnagar)	Effective control reported.
9. Bolloworms	Cotton	Egg and Larval parasites from S. America, Africa and Hawaii.	Haryana (Hissar)	About 1,000 ha. treated which showed control

The Indian Council of Agricultural Research has mounted an All India Coordinated Research Project on Biological Control of crop pests and weeds with 12 Centres in the country. It is in the third year of its operation.