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## Catalogue of Crop Pests of Gujarat State

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CATALOGUE OF CROP PESTS

OF

GUJARAT STATE

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## FOREWARD

Agricultural Entomology is closely associated not only with the crop production but also with the safe preservation of food grains and other household belonging of the farmers and public at large. Until the formation of the state of Gujarat in May, 1960, much attention was not devoted to the study of various pests of this region of the then Bombay Province. Nevertheless it has now been realised that the first essential necessity is to determine the identity of the insect pests responsible for damaging the crops grown in the state. Accordingly the authors started collecting the pests of different crops and got the species determined. The information thus obtained has resulted in the catalogue of pests.

The authors' efforts in compiling a complete list of pest species whose identity has been confirmed by the Commonwealth Institute of Entomology, London, is commendable. The list can by no means said to be complete, but it is up-to-date as far as the species of the pests are concerned. It will serve as a handy reference for Research Workers, District Agriculture Officers, Farmers and also the students in Agriculture Colleges.

It is hoped that the catalogue with all its inevitable defects should serve as a basic reference for pests of crops grown in the state and may help those who are interested in the subject.

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## CATALOGUE OF CROP PESTS OF GUJARAT STATE

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### INTRODUCTION :

Never before has Agricultural Entomology had to play such a great role in India as it had to do in the present decade, when our country is in short supply of food both for man and animals. This is more true for our state which is always deficient in food grains. The problems of pests has become more acute with the introduction of hybrid varieties of certain food crops at the same time with intensive and extensive crop production due to increased irrigation facilities. At least 10 per cent of food grains produced is destroyed by the ravages of insect pests both in the fields and under storage. Major proportion of such losses can be prevented if the cultivators, District Agricultural Officers, Entomological Research Workers and students of Agriculture have a working knowledge of the crop pests and practical methods of controlling them. The first essential in this context is to have a complete list of pests attacking respective crops grown in the state. Such list was prepared for the state of the then Bombay Province by Trehan and Pingale 1946, and Veval and Talgeri 1949, but it was by no means complete especially for this region of the Province which is now the region of the Gujarat state. A more perfect list was published by Patel et al. in 1950 as an appendix to the book "Crop Pests and How to Fight Them" published by the then Government of Bombay. Thus it is quite evident that such a list does not exist for the state of Gujarat. The necessity of having such a list was felt by many but merely compiling a list from the published literature will be of no value for the state .

Accordingly the authors took up the work by collecting, rearing and getting the species identified by the experts since 1963 to make the list as complete, comprehensive and authentic as possible. The information thus collected provided the matter for this catalogue.

The catalogue is prepared with the idea of providing as complete and comprehensive information about the insect pests that are found damaging various crops in the state. This would serve as a handy and up-to-date reference list for all those interested in the Agricultural Entomology and more so to the Research Workers, District Agriculture Officers, Advanced Cultivators and above all the Students in Agriculture Colleges. Its value has been enhanced especially because the specimens mentioned in this catalogue are all identified by the Commonwealth Institute of Entomology, London. For convenience in use, the arrangement of pests as well as crops is done alphabetically.

Another list of insect pests according to their natural orders and families arranged alphabetically, mentioning their host plants with cross-references in the main list has also been given for ease in searching.

We take this opportunity of thanking Dr. G. A. Patel, Director of Agriculture, Department of Agriculture, Government of Gujarat for help and permission in publishing the catalogue as a technical bulletin of the Department of Agriculture to Dr. M. D. Patel, Director, Institute of Agriculture, Anand and Dr. R. M. Patel, Principal, B. A. College of Agriculture, Anand for providing necessary facilities during the work. We are indebted to the Director, Commonwealth Institute of Entomology, London

for the proper identification of the insect pests. We are also thankful to Mr. F.B.Saiyad for help in the rearing, pinning and preserving insects without him this would not have been possible. Thanks are also due to the staff members of the department for help as and when needed.

## CONTENTS

Page No.

FOREWARD	...	...
INTRODUCTION	...	...
CATALOGUE OF CROP PESTS OF GUJARAT STATE = Part I.		
A: CEREALS.	...	...
BAJRI	...	...
JOWAR	...	...
MAIZE	...	...
PADDY	...	...
WHEAT	...	...
BAVTO	...	...
BANEI	... 6	...
RAJAGIRA...		...
B: SUGAR CROPS	...	...
SUGARCANE..		...
SUGARBET..		...
C: PULSES	...	...
CHOLA	...	...
GRAM	...	...
GREEN GRAM.		...
GUAR	...	...
KULTHI	...	...
MATH	...	...
PEAS	...	...
SOYABEAN...		...
TUR	...	...

	UDID	...	...
	WAL	...	...
D:	FODDER CROPS	...	...
	LUCERNE	...	...
E:	VEGETABLES	...	...
	BHENDI	...	...
	BRINJAL	...	...
	FENUGREEK	...	...
	LUNI	...	...
	POTATO	...	...
	SWEET POTATO	...	...
	TANDULJA	...	...
F:	CRUCIFEROUS VEGETABLES	...	...
	CABBAGE		
	CAULIFLOWER		
	MUSTARD		
	RADISH		
	KNOL - KHOL		
	TURNIP		
G:	CUCUREITS	...	...
	PUMPKINS		
	CUCUMBERS		
	GOURDS		



(3)

H: OILSEED CROPS	...	...
CASTOR	...	...
GROUNDNUT	...	...
SAFFLOWER	...	...
SESAMUM	...	...
I: FIBRE CROPS	...	...
COTTON	...	...
SANN HEMP	...	...
J: NARCOTICS	...	...
CHICORY	...	...
TOBACCO	...	...
K: FRUIT CROPS	...	...
AMLA	...	...
BANANA	...	...
BER	...	...
CHIKU	...	...
FALSA	...	...
FIG	...	...
GRAPE VINE...	...	...
GUAVA	...	...
JAMBU	...	...
CITRUS	...	...
MANGO	...	...
MULBERRY	...	...
POMEGRANATE..	...	...
COCONUT	...	...

L: SHADE TREES	...	...
CASSIA		
CORK TREE		
GOLD MOHOR		
PELTOPHORUM		
RAIN TREE		
M: GARDEN PLANTS	...	...
ASTER	...	...
ALLYSUM	...	...
BALSAM	...	...
CAGTUS	...	...
CANDY TUFT..		...
COCK'S COMB..		...
DAHLIAS	...	...
GALLARDIA	...	...
HELICHRYSUM..		...
IXORA	...	...
JASUNDI	...	...
LILLY	...	...
MADHUMALTI...		...
OLEANDER	...	...
ORNAMENTAL POMEGRANATE..		...
ROSE	...	...
STOCK	...	...
ZINNIA	...	...
N: MEDICINAL PLANTS	...	...
DAMRO	...	...
NEEM	...	...

	SERPAGANDHA	...	...
	SOAP - NUT	...	...
	TULSI	...	...
O: SPICES and	CONDIMENTS	...	...
	CHILLIES	...	...
	CUMIN	...	...
	FENNEL	...	...
	GINGER	...	...
	MITHI - LIMDI	...	...
	ONION	...	...
	TURMERIC	...	...
P: WEEDS	...	...	...
	AKADO	...	...
	ARDUSO	...	...
	ARO - TARO...	...	...
	BAVCHI	...	...
	BHANGADO	...	...
	BHOI - PATHARI	...	...
	BODIG KALHAR.	...	...
	CHIL	...	...
	CHIDO	...	...
	DHARO	...	...
	DUDHELI	...	...
	DO DI	...	...
	HADIA - KARSAN	...	...
	KANAJARO	...	...
	KANTA - SERIA	...	...
	KHAKHARO	...	...

	KUNWADIA	...	...
	LUNI	...	...
	PILUDI	...	...
	SATODI	...	...
	STARBUR	...	...
	ZEPFI	...	...
	ZINZHU	...	...
Q :	MISCELLANEOUS	...	...
	SHEVARI	...	...

R: STORED GRAIN PESTS ... ..

PESTS ARRANGED ACCORDING TO THE NATURAL  
ORDERS AND FAMILIES WITH THEIR FOOD

PLANTS ... .. Part - II

ORDER :	ACARINA	...	...
	COLEOPTERA...	...	...
	DIPTERA	...	...
	HEMIPTERA	...	...
	HYMENOPTERA..	...	...
	ISOPTERA	...	...
	LEPIDOPTERA..	...	...
	ORTHOPTERA...	...	...
	THYSANOPTERA.	...	...

S: NON-INSECT PESTS

	CRABS	...	...
	RATS	...	...

PESTS ARRANGED ALPHABETICALLY GIVING CROSS  
REFERENCE OF CROP NUMBER WITH PEST NUMBER

IN PART - I. Part - III

REFERENCES :	...	...
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