

CONTENT

	Page
Foreword	1
1. Formulations and Assay Techniques	
1.1 Pesticides formulation : A Broad perspective	3
1.2 Standards on pesticides and pest Control Equipment	4
1.3 Bioassay of different insecticides on the important insect pests and predators of agricultural importance	5
1.4 A new design of insecticide testing chamber : Results of some preliminary experiments	7
1.5 A New method for evaluation of timber preservatives against termites	8
1.6 Some physico-chemical aspects of concentrate sprays applied through low-volume techniques	8
1.7 Choice of fungicides for low-volume sprays	9
1.8 Fumigants as sterilants	9
1.9 Relative efficacy of different types of jute cloth bags against penetration of stored grain pests and insecticides	10
1.10 Selection of suitable disinfestants for studies on nematode pathogenicity	11
2. Halogenated and Phosphatic Pesticides	
2.1 Fungicidal and insecticidal activity of some new organo-fluorine compounds	12
2.2 Phosphatic insecticides (phorate) and soil health	12
2.3 A comparative trial of BHC and some organic phosphate insecticides for the control of 'shaft Louse' of fowls (<i>Menopon gallinae</i> L.)	13
2.4 Comparative efficacy of some chlorinated and phosphatic insecticides against <i>Chrotogonus trachypterus</i> Blanchard	14
2.5 Effect of temperature and humidity on the susceptibility of insects to insecticides	15
2.6 Effect of repeated spraying with DDT on the Rice Weevil (<i>Sitophilus oryzae</i> L.) with a brief note on a probable explanation for the variation in the susceptibility of some adult Coleoptera to DDT	15
2.7 The role of three important hydrocarbon chemicals as insecticides in Madras State	16
2.8 Toxicity of cyclodiene compounds at intermittent and continuous exposures to house fly (<i>Musca domestica</i> nebulosa)	17
2.9 Sex susceptibility of the house fly (<i>Musca domestica</i> nebulosa) to different insecticides	17
2.10 Studies on methods for selecting materials as fumigation sheets – I Permeability of liquid fumigants through polyethylene	18
2.11 Antifeeding compounds	19
2.12 Susceptibility of Pulse Beetle (<i>Callosobruchus chinensis</i> Linn) to Telodrin, Endrin, Aldrin and Malathion	20
2.13 Manufacture of Malathion	21
3. Specific and non toxic insecticides	
3.1 A preliminary report on the natural occurrence of microbial pathogens of insect pests of crop plants in Madras State	22
3.2 Susceptibility of some common caterpillar pests of crops to infection by <i>Bacillus thuringiensis</i> Berliner	23
3.3 A bacterial disease of <i>Athalia proxima</i> Klug (Mustard Saw Fly)	24
3.4 Production of bacterial lepidoptericide	25
3.5 Viruses for the insect control	25
3.6 Tricalciumphosphate as an insecticide	27
3.7 Trial on some modern rodenticides	28
3.8 Comparative toxicity of shoxin to different test animals	28
3.9 Pesticidal minerals	29
3.10 Active mineral in insecticidal clays	30

3.11	Pest control by sex attractants	30
4.	Residues, toxicology and health hazards	
4.1	Pesticides and public health	31
4.2	A brief review of the properties and insecticidal action of Parathion and its analogues together with notes on its toxicology and pharmacology	32
4.3	Possible impact of Wiesner and Cook committees' reports on the future trend of pesticide research	33
4.4	A rapid method for the determination of micro-amounts of phosphorus in phosphatic pesticides	33
4.5	A rapid method for the determination of DDT, Endrin and other chlorinated Pesticides	34
4.6	Micro determination of residues of chlorinated pesticides	34
4.7	Determination of active substance in zinc ethylene bis dithiocarbamate formulations : a modified method	35
4.8	Study on the behaviour of phosphine in different food products during fumigation	36
4.9	DDT, BHC and Aldrin deposits and residues on tomatoes – lycopersicon esculentum Mill	37
4.10	Studies on the residues of solbar sprayed on bhendi and tomato	38
4.11	Persistence of Malathion residues on treated foodgrains under different conditions of storage and processing	39
4.12	Toxicity of Malathion and Parathion to fish	39
4.13	Nutrition vs. pesticide toxicity	40
4.14	Comparative acute oral toxicity of some mineral pesticides to albino rats	40
4.15	Loss and reversion of DDT-resistance in <i>Musca domestica</i> nebulosa Fabr	41
4.16	Action of DDT on insects	41
4.17	Role of food on the toxicity of insecticides to house fly (<i>Musca domestica</i> nebulosa)	41