

CONTENTS

	PAGE
Summary.....	5
Introduction.....	5
Life-histories—General account.....	7
Relative number and importance of species.....	8
Susceptibility of varieties of apple to bud-moth injury.....	8
Average infestation.....	10
Injuries caused by bud-moths.....	10
Injury to buds and set of fruit.....	10
Injury to the set of fruit by bud-moths in spring.....	12
Fall injury to the fruit by the newly hatched larvæ.....	12
Relation between fall and spring injury.....	12
The Control of Bud-moths.....	14
Spraying Experiments.....	14
Former spraying recommendations.....	20
Control measures recommended.....	21
Natural Control.....	23
Insect Parasites.....	23
Other Natural Enemies.....	24
Birds.....	24
Descriptions of the Common Bud-moths.....	25
The Eye-spotted Bud-moth <i>Trioecra ocellana</i> D. & S.....	25
The Oblique-banded leaf-roller <i>Cacoclia rosaceana</i> Harris.....	30
The Lesser Bud-moth <i>Recurvaria naulella</i> , Hb.....	33
The Green Bud-Worm <i>Argyroptere cossangulana</i> Wlsm.....	36
Acknowledgements.....	39

ILLUSTRATIONS

- Fig. 1.—Apple buds showing stage at which bud-moths enter them; in greatest numbers. Arrow indicates webbing from hibernaculum to bud, occasionally found.
- Fig. 2.—Apple blossom cluster attacked by bud-moth, torn open to show (a) larva in the act of feeding, (b) pupa.
- Fig. 3.—Apple blossom cluster; arrow shows opening blossoms damaged by larva.
- Fig. 4.—Apple leaf shoot; arrow indicates where bud-moth larva bored through base.
- Fig. 5.—Young apple injured by bud-moth larva soon after setting.
- Fig. 6.—Apple injured by bud-moth larva soon after setting, after the injury had healed over.
- Fig. 7.—Apple showing leaf tied to it by bud-moth larva.
- Fig. 8.—Apples from which leaf has been removed showing fall injury by the larvæ.
- Fig. 9.—Buds from Ribston apple tree, 100 per cent infested by the larvæ of the Eye-spotted bud-moth, and the blossoms borne on a similar twig from the same tree.
- Fig. 10.—Eggs of the Eye-spotted bud-moth on the underside of the leaf, soon after deposition.
- Fig. 11.—Cluster of eggs of the Eye-spotted bud-moth deposited in confinement, showing larvæ almost ready to emerge.
- Fig. 12.—Apple leaf showing fall feeding of the newly hatched bud-moth larva.
- Fig. 13.—Two apple leaves tied together by bud-moth larva. Larva feeding between the two, off the surface of each.
- Fig. 14.—Adults of (a) Eye-spotted bud-moth; (b) Oblique banded leaf-roller and (c) Green bud-worm.