

Contents

pegs

INTRODUCTION

REVIEW OF LITERATURE	2
1. Inherited Sterility Induced by Substerilizing Doses	2
2. Insecticidal Activity of Natural Occurring Plant Extracts	7
2.1. Effect of plant extracts on: fecundity and hatchability of eggs	14
3. Combined Effect of Gamma Irradiation and Plant Extracts...	17
4. Effect of Irradiation on Reproductive Organs Tissues of Lepidopterous Insects	18
4.1. Effect of plant extract on reproductive organs tissues of lepidopterous insects	23

MATERIALS AND METHODS

1. Laboratory Rearing of the Black Cutworm	25
<i>Agrotis ipsilott(Hufn.)</i>	25
2. Irradiation Technique	26
2.1. Experimental procedures	26
2.1.1. Parental generation (PI)	26
2.1.2. Inherited sterility among successive generations	27
3. Plant Materials and Preparation of Extracts	27
3.1. Methods of application	