

List of Figures

Figure 1 <i>S. litura</i> on cotton leaf.....	3
Figure 2 <i>S. litura</i> on cabbage	3
Figure 3 <i>S. litura</i> on capsicum	3
Figure 4 Global distribution of <i>Spodoptera litura</i>	6
Figure 5 Distribution of <i>Spodoptera litura</i> in Asia	6
Figure 6 Distribution of <i>Spodoptera litura</i> in India	7
Figure 7 <i>S. litura</i> damaging cotton leaf	7
Figure 8 <i>S. litura</i> damaging banana.....	8
Figure 9 <i>S. litura</i> damaging tomato	8
Figure10 <i>S. litura</i> damaging cotton	9
Figure 11 Egg mass of <i>S. litura</i> covered with scales.....	18
Figure 12 Larval stage of <i>S. litura</i>	23
Figure 13 Pupal stage of <i>S. litura</i>	26
Figure 14 Male & female adults of <i>S. litura</i>	28
Figure 15 Life cycle of <i>Spodoptera litura</i>	31
Figure 16 Egg mass of <i>S. litura</i>	35
Figure 17 Spines at the posterior end of pupal stage in <i>S. litura</i>	36
Figure 18 Morphometrics of <i>S. litura</i>	37
Figure 19 Tomato plant.....	44
Figure 20 Cabbage plant	46
Figure 21 Chili plant.....	48
Figure 22 Cotton plant	51
Figure 23 Castor field showing damage of the insect pest	60
Figure 24 Collection site of <i>S. litura</i> at Padra,.....	61
Figure 25 Insect pests observed at castor field.....	61
Figure 26 1 st instar larva on artificial diet	61
Figure 27 Transferring of neonates on artificial diet.....	62
Figure 28 2 nd instar larva	62
Figure 29 3 rd instar larva	62

Figure 30 4 th instar larva	63
Figure 31 Different stages of <i>S. litura</i> larva	64
Figure 32 Weighing of ingredients for diet preparation	68
Figure 33 Experimental design	70
Figure 34 Interaction showing insect population dynamics	86
Figure 35 Interaction between abiotic factors and population size	89