Annexure III Pests and diseases of Crops

District	: Shimla								
1	2	3	4	5	6	7	8	9	10
Host	Insect/ animal	Scientific name	Local name	Habitat	Time/ season of attack	Management mechanism	Associate d TK	Other detail s	Community knowledge holder
Maize	Black cutworm	Agrotis ipsilon A. segetum	Katua Keet/ Toka	 Found during day time hiding in soil close to stems. Larva cut the seedling plants and feed. 	April-June & Oct-Nov	 Hand picking and destruction of larvae. Apply chlorpyriphos 20 EC @ 2 litres/ ha. 	-	-	-
	White grubs	Brahmina coriacea	Safed Gidar	 Soil dwelling grubs are present in soil at a depth of 5-20 cm. Grubs feed on underground stem and roots tubers. 	June-Oct	 Plough the fields to expose grubs to predators. chlorpyriphos 20 EC @ 2 litres/ ha after mixing with 20-25 kg of sand. 	-	-	-
	Corn leaf aphid	Rhopalosiphum maidis	Tela	 Aphids infest leaves, leaf sheaths and inflorescences. Most severe damage occurs to the tassel. 	September	• Foliar spray of imidacloprid 200SL or thiamethoxam 25 WDG @ 0.005%.	-	-	-
Paddy	Leaf folder	Cnaphalocrocis medinalis		Caterpillars infest leaves of young plants by fastening the edges of the leaf together and live inside rolled leaf. Occasionally cause serious damage at vegetative stage	Occasional / at vegetative stage	 Clip-off the affected leaves. Remove weeds especially graminaceous ones Spray 1250 ml chloropyriphos 20 EC (per 500 L water/ha on pest appearance. 	Clip-off the affected leaves		Local people
Whea t	Aphid	Rhopalosiphum maidis, Sitobion avenae	Tela	Suck sap from soft leaves, stem and developing grains	Regular	Follow common cultural, mechanical and	Dusting of wood ash		Local people

				from December till crop maturity and ultimately inhibiting grain formation		biological practices • Spray 750 ml methyl demeton 25 EC or dimethoate 30EC in 750 l water/ ha • Generally, natural enemies present in the field help in controlling the population of this pest		
Potat o	Cutworm	Agrotis ipsilon A. segetum	Katua Keet/ Toka	 Found during day time hiding in soil close to stems Newly hatched larvae first feed on haulms and then drop from plants and feed underground on stems and tubers 	April-June & Oct-Nov	 Forking the soil exposes the larvae to avian predators Apply chlorpyriphos 20 EC @ 2 liters/ ha after mixing with 20-25 kg of sand 		
	White grubs	Brahmina coriacea Holotrichia longipennis Anomala dimidiate Melolontha spp	Safed Gidar	•Soil dwelling grubs are present in soil at a depth of 5-20 cm •Grubs make large, shallow, and circular holes in tubers	June-Oct	 Ploughing to expose grubs, pupa and newly formed adults to birds Beetle collection at night and killing in water mixed with kerosene Chlorpyriphos 20 EC @ 2 litres/ ha after mixing with 20-25 kg of sand Insecticide application should occur soon after adult emergence, and should 		

Green Peach aphid	Myzus persicae (Sulzer)	Tela	• Aphids can injure a potato plant directly by sap feeding and indirectly by transmitting several important potato viruses	Regular	coincide with egg laying or egg hatching • Seed plots must be kept free of aphids • Selection and rouging of plants infected with a virus • Foliar sprays of dimethoate @ 1ml/L of water/ha • Imidacloprid and thiamethoxam also provide effective protection			
Wire worms	Drasterius sp.		 Major damage occurs from time of tuber initiation until harvest Bore into the tubers and make cylindrical holes 	June-Oct	 Rotation with lgume crops Keep fields weed-free Insecticides incorporated into ridges immediately before planting can reduce tuber damage Phorate applied in furrows is approved for the control of wireworms in potatoes 			
Potato cyst nematode	Globodera rostochienesis	Sunehri Sutarkrimi	•Infect roots	April - October	-	-	-	-