

Annexure III Pests and diseases of Crops

District: Kinnaur									
1	2	3	4	5	6	7	8	9	10
Host	Insect/ animal	Scientific name	Local name	Habitat	Time/ season of attack	Management mechanism	Associated TK	Other details	Community knowledge holder
Wheat	Armyworm	<i>Pseudaletia separata</i>	Sena keet	Damage leaves and ear heads at grain development stage	Occasional / near harvesting stage	<ul style="list-style-type: none"> Damage is near harvest, so only mechanical control 			
	White grub	<i>Melolomtha</i> sp.	Safed gidar	Feed on roots	occasional				
Barley	Armyworm	<i>Pseudaletia separata</i>	Sena keet	Damage leaves and ear heads at grain development stage	Occasional / near harvesting stage	<ul style="list-style-type: none"> Damage is near harvest, so only mechanical control 	-	-	-
Buck wheat	Greasy cutworm	<i>Agrotis</i> sp.	Katua Keet/ Toka	Found during day time hiding in soil close to stems	April-June & Oct-Nov	<ul style="list-style-type: none"> Forking the soil exposes the larvae to avian predators Apply chlorpyrifos 20 EC @ 2 liters/ ha after mixing with 20-25 kg of sand 			
	Leaf eating weevil	<i>Strophosomoides kumaoensis</i>		Leaf feeder	-	-	-	-	-
Rajmash	Blister beetle	<i>Mylabris</i> spp.	Ghodi	Adults feed voraciously on flowers	Regular/ at flowering and pod bearing stage	<ul style="list-style-type: none"> Collect and destroy beetle Spray 625 ml methyl parathion 50 EC in 625 L water/ha. 	Collect and destroy beetles		Local people
	White grub	<i>Melolomtha</i> spp.	Safed gidar	Feed on roots	occasional	-	-	-	-
	Leaf eating weevil	<i>Strophosomoides kumaoensis</i>		Leaf feeder	-	-	-	-	-
	Cabbage semilooper	<i>Plusia orichalcea</i>	Kubad keet	Leaf feeder	occasional	-	-	-	-
	Weevil	<i>Hypurus</i> spp.							

Potato	Greasy cutworm	<i>Agrotis ipsilon</i>	Katua Keet/ Toka	Found during day time hiding in soil close to stems <ul style="list-style-type: none"> Newly hatched larvae first feed on haulms and then drop from plants and feed underground on stems and tubers 	April-June & Oct-Nov	<ul style="list-style-type: none"> Forking the soil exposes the larvae to avian predators Apply chlorpyrifos 20 EC @ 2 liters/ ha after mixing with 20-25 kg of sand 			
	White grubs	<i>Brahmina coriacea</i> <i>Holotrichia longipennis</i> <i>Anomala dimidiata</i> <i>Melolontha</i> spp.	Safed Gidar	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Ploughing to expose grubs, pupa and newly formed adults to birds Beetle collection at night and killing in water mixed with kerosene Chlorpyrifos 20 EC @ 2 litres/ ha after mixing with 20-25 kg of sand Insecticide application should occur soon after adult emergence, and should coincide with egg laying or egg hatching 			
Amaranthus	Greasy cutworm	<i>Agrotis</i> sp.	Katua Keet/ Toka	Found during day time hiding in soil close to stems	April-June & Oct-Nov	<ul style="list-style-type: none"> Forking the soil exposes the larvae to avian predators Apply chlorpyrifos 20 EC @ 2 liters/ ha after mixing with 20-25 kg of sand 			
	Leaf eating weevil	<i>Strophosomoides kumaoensis</i>		Leaf feeder	-	-	-	-	-

Mustard	Cabbage aphid	<i>Brevicoryne brassicae</i>	<i>Tela</i>	Sap suckers		<ul style="list-style-type: none"> • Spray methyl demeton 25EC or dimethoate 30EC @ 1ml/l. • If crop is meant for 'Sag' purpose, then spray malathion 50EC @ 1ml/l and observe 1 week waiting period 			
	Green peach aphid	<i>Myzus persicae</i>	<i>Tela</i>	Sap suckers					
	Cabbage butterfly	<i>Pieris brassicae</i>	-	Leaf feeder					
	Painted bug	<i>Bagrada hilaris</i>	-	Sap suckers					
Kalazera	White grub	<i>Melolontha</i> spp.	Safed gidar	Feed on roots	occasional	-	-	-	-
	Weevil	<i>Hypurus</i> spp.							
	Cabbage semilooper	<i>Plusia orichalcea</i>	Kubad keet	Leaf feeder	occasional	-	-	-	-
	Gram pod borer	<i>Helicoverpa armigera</i>	Falli ki sundi	The larvae feed on leaves and umbels	March	<ul style="list-style-type: none"> • Apply HaNPV @ 250LE/ ha 	-	-	-
	Butterfly	<i>Papilio</i> spp.		Leaf feeder					