Annexure III Pests and diseases of Crops

District	t: Una								
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	Maize Stem Borer	Chilo partellus	Tane ki sundi	 larvae first feed on the leaves, making a few shot holes. Central shoot withers and leading to dead heart. 	July	 Remove the deadhearts and infested plants. Apply 2 g phorate (Thimmet 10G) per meter of row length. 	-	-	-
	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%.	-	-	-
	Blister beetle	Mylabris spp.	Ghodi	• Feed on tessels	September	• Collect and destroy beetle Spray 625 ml methyl parathion 50 EC in 625 L water/ha at the tasselling stage, if required.	-	-	-
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
	Stem borer	Scirpophaga		Damage is caused by	Occasional	Apply carbofuran			Local

		innotata		feeding of the larvae within the stem. The damaged plants result in `dead heart' and `white head' formation	at vegetative stage	(Furadan 3 G) by broadcasting in 3-4 cm deep standing water @ 1 kg/ha (a.i.) 10 days after transplanting, if necessary. • Spray 500 ml methyl parathion (Metacid 50 EC) in 500 L water/ha. Repeat after 45 days.		people
Whea t	Termite	Odontotermis obesus, Microtermis obesi	Deemak	Infest crop at germination stage. Cause yellowing and patchy growth of wheat visible from seedlings to maturity	Regular	 Remove stubbles of previous crop before sowing. Termite mound should be destroyed in vicinity of crop Seed treatment with chlorpyriphos 20 EC (4ml/kg seed) Soil application of 2lt.chlorpyriphos 20 EC mixed in 25 kg sand per ha at the time of sowing 		
	Aphid	Sitobion spp.	Tela	Suck sap from soft leaves, stem and developing grains from December till crop maturity and ultimately inhibiting grain formation	Regular	 Follow common cultural, mechanical and biological practices Spray 750 ml methyl demeton 25 EC or dimethoate 30EC in 750 l water/ ha Generally, natural 	Dusting of wood ash	Local people

						enemies present in the field help in controlling the population of this pest			
Gram (Chic kpea)	Gram pod borer	Helicoverpa armigera	Falli ki sundi	The larvae feed on leaves and bore into pods.	March	 early sown crop escapes the infestations intercrop with wheat, mustard and linseed Apply HaNPV @ 250LE/ ha Spray the crop with lambdacyhalothrin 5% EC @ 400-500ml/400-600 L/ ha 	-	-	-
	Black cutworm	Agrotis ipsilon	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 	-	-	-
Mash	Blister beetle	Mylabris pustulata	Ghodi	Adults feed voraciously on flowers	August- September	 Collect and destroy beetle Spray 625 ml methyl parathion 50 EC in 625 L water/ha. 	Collect and destroy beetles		Local people
	Black bean bug	Chauliops spp.	-	Leaf sap feeder	May- September	-	-	-	-
	Whitefly	Bemisia tabaci	Chiti makhi	Leaf sap feeder	May- September	-	-	-	-
Rapes eed- musta	Cabbage aphid	Brevicoryne brassicae	Tela			Spray methyl demeton 25EC or			

rd						dimethoate 30EC @1ml/l. If crop is meant for 'Sag' purpose, then spray malathion 50EC @ 1ml/l and observe 1 week waiting period			
	Mustard aphid	Lipaphis erysimi	Tela		-do-	• -do-			
	Green peach aphid	Myzus persicae	Tela		-do-	• -do-			
	Mustard saw fly	Athalia lugens proxima	-		-do-	• Spray malathion 50EC @ 1ml/l			
	Cabbage butterfly	Pieris brasscae	-		-do-	• -do-			
	Pea leaf miner	Chromatomyia horticola	-		-do-	• Spray methyl demeton 25EC or dimethoate 30EC @1ml/l. in crop meant for seed			
	Painted bug	Bagrada hilaris	-		-do-	• -do-			
	Flea beetle	Phyllotreta cruciferae	-		-do-	• -do-			
Til	Hairy caterpillar	Spilosoma obliqua		Feed on leaves and growing shoots	Vegetative stage	 Collect and destroy the gregarious caterpillars Spraying cypermethrin @ 0.01% when the caterpillars are small in size (less than 2mm) 	-	-	-
	Leaf roller	Antigastra catalaunalis		Young larvae roll the leaves and feed inside	-do-	• Spray quinalphos @0.05%	-	-	-
Potat o	Greasy cutworm	Agrotis ipsilon	Katua Keet/ Toka	• Found during day time hiding in soil close to stems	April-June & Oct-Nov	• Forking the soil exposes the larvae to avian predators			

			•Newly hatched larvae first feed on haulms and then drop from plants and feed underground on stems and tubers		• Apply chlorpyriphos 20 EC @ 2 liters/ ha after mixing with 20-25 kg of sand		
Tobacco caterpillar	Spodoptera litura	Kali Sundi	 The caterpillars hide during day in crevices and feed at night. Defoliation of foliage 	June-Oct	 Collect and destroy eggs and larvae mechanically Ploughing to expose and kill pupae in the soil Flood irrigation may drown the hibernating caterpillars and pupae Spray Cypermethrin 25 EC or Lamba cyhalothrin 5 EC 600 ml/750L of water 		