

Weekly Crop Situation Report

05.12.2020 to 11.12.2020

Sr#	Institute	Crop	Sowing Area	Pest/Disease/Weeds Infestation	Overall condition of crop	Rainfall mm	Temp. °C	Advisory to farmers	Additional remarks
1	Cotton Research Institute, Multan	Cotton	3.822	No moth catches of Pink Boll Worm have been observed in pheromone traps during the week under report.	Not satisfactory	1.0mm	12-24.7°C	<ul style="list-style-type: none"> ● Rotavate cotton sticks after final picking. ● Removal of leftover bolls from the cotton sticks before storage for fuel purposes ● Keep small bundles of cotton sticks in vertical position. ● Disposal and safe destruction of debris from ginning factories 	
2	Sugarcane Research Institute, Faisalabad	Sugarcane	643 (000) ha (Crop reporting services 2019-20)	Stem borer, Whip Smut in plant crop and weed infestation in neglected fields.	Normal	0.0mm	11.6-24.1°C	<ul style="list-style-type: none"> ● Regularly visit the crop so that if any problem about insect/pest and disease diagnosed that will be solved timely ● Stop irrigation one month before harvesting ● Harvest the crop at ground level/one inch below to avoid Larvae attack ● Cover the harvested crop and supply it to Sugar Mills as early as possible to minimize the staling losses ● Irrigate the September planted sugarcane according to crop requirement and weather forecast ● Chemical and cultural weed control practices should be adopted ● Use light traps, Trichogramma 	Frequent feedback received from the farmers

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								<p>cards and Chrysoperla to control borer and white fly</p> <ul style="list-style-type: none"> ● Use Zinc Phosphide as bait to check rodents attack in lodged crop ● Spray of bifenthrin or lamada @ 250 ml or 400 ml respectively should be applied in case of attack of black bugs especially on ratoon crop 	
3	Vegetable Research Institute, Faisalabad	Spinach		Alternaria Leaf Blight, Army worm, leaf minor and cutworm				<ul style="list-style-type: none"> ● Judicious use of fertilizers for better seed production as well as better production of fresh crop. ● Irrigate the field as per atmospheric condition for better fresh production. ● Spray against insects, pests and diseases. ● Weeds must be eradicated to minimize plant weed competition. 	
		Bittergourd		Myrothecium, girding weevil and fruit fly				<ul style="list-style-type: none"> ● Judicious use of fertilizers for better production and continue fertilizer application after every picking. ● Irrigate the field as per atmospheric condition for better fresh production. ● Weeds eradication to minimize plant weed competition. ● Train the plants on net for insurance of quality of fruit and reducing the chances of disease 	

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								spread. ● Spray against insects, pests and diseases.	
		Radish						<ul style="list-style-type: none"> ● Proper utilization of fertilizers to better production. ● Spray against insects and pests. ● Irrigate the field according to climatic conditions. ● Spray against pre and post emergence weeds. 	Early production from Punjab is in the market
		Turnip						<ul style="list-style-type: none"> ● Proper utilization of fertilizers to better production. ● Spray against insects and pests. ● Irrigate the field according to climatic conditions. ● Spray against pre and post emergence weeds. 	
		Cauliflower						<ul style="list-style-type: none"> ● Meticulous seed bed preparation. ● Use of certified seed with recommended seed rate. ● Treatment of seed with fungicide for eradication of soil borne diseases. ● Proper utilization of fertilizers to better production. ● Spray against insects and pests. ● Irrigate the field according to climatic conditions. ● Spray against pre and post emergence weeds. 	
		Cabbage		Cabbage butterfly				<ul style="list-style-type: none"> ● Meticulous seed bed preparation ● Use of certified seed with 	

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								<p>recommended seed rate.</p> <ul style="list-style-type: none"> ● Treatment of seed with fungicide for eradication of soil borne diseases. ● Proper utilization of fertilizers to better production. ● Spray against insects and pests. ● Irrigate the field according to climatic conditions. ● Spray against pre and post emergence weeds. 	
		Carrot						<ul style="list-style-type: none"> ● Judicious use of fertilizers for uniform and significantly higher root yield. ● Irrigation according to climatic conditions. ● Spray against pre emergence as well as post emergence weeds. ● Spray against insect pests and diseases. 	
		Coriander						<ul style="list-style-type: none"> ● Complete thinning of the off type plants in crop sowing. ● Complete the sowing of crop with no more delay. ● Keep the field weed free. ● Irrigate the field according to climatic conditions. ● Spray against pests and diseases if any. 	
4	Oilseed Research Institute, Faisalabad	Brassica			Satisfactory			<ul style="list-style-type: none"> ● Second irrigation should be applied at flowering ● Sulphur @ 6 Kg/acre with irrigation at flowering for significant increase in yield. 	

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								<ul style="list-style-type: none"> ● Spray Lambda cyhalothrin 2.5 EC @ 330 ml/acre against Mustard Sawfly and Painted bug. 	
		Linseed			Satisfactory			<ul style="list-style-type: none"> ● Irrigate the field after one month of germination ● Remove excess plants before first irrigation. ● Give 1 bag urea with first irrigation 	
5	Pulses Research Institute, Faisalabad	Gram		Attack of termite, surface weevil and <i>Fusarium</i> wilt may damage plant population at seedling stage in gram.				<p>Rabi Crop: (Chickpea & lentil)</p> <ul style="list-style-type: none"> ● Eradicate the weeds from fields at an early stage. ● Apply 1st irrigation to gram and lentil crops after 45-60 days of sowing in irrigated areas. ● Termite infested soils may be treated with proper insecticides in irrigated areas. ● Appearance of early smog may delay germination. <p>Mung & Mash:</p> <ul style="list-style-type: none"> ● Harvesting of Kharif pulses is completed. ● Cleaning and drying process be completed before storage. ● Store harvested mung and mash after proper drying and fumigate the produce. Use Phostoxin pills to keep the store free from grain store pests 	During 2019-20, area under gram crop in Punjab decreased by 0.7 % however its production was recorded 14 percent higher in comparison to its previous year statistics (2018-19). While in Lentil crop both area sown
		Masoor							

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									and production were decreased by 31.6% and 29.6 % respectively as compared to the area and production during 2018-19.
6	Horticulture Research Institute, Faisalabad	Guava	0.139	Weed infestation	Satisfactory	-	8-27°C	<ul style="list-style-type: none"> ● Weed population must be under control ● Apply completely decomposed farmyard manure ● Continue regular cultural practices 	
		Date Palm	0.0148	Spray chlropyriphos around the stems which are exposed to red palm weevil and do earthen up				<ul style="list-style-type: none"> ● Control red palm weevil by insertion of Phostoxin tablets in holes made by red palm weevil and mud the holes with chlori mix paste ● Burn remains of infected stems ● Eradicate weeds from field manually or by hoeing ● Irrigate newly planted field every 4th day ● Cover newly planted offshoots with rice straw or date plam 	

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		Ber	0.0135	Apply preventive fungicide against diseases of Ber Eradicate weeds from field				fronds and tie them firmly from top <ul style="list-style-type: none"> ● Apply light irrigation during and fruit setting ● Apply fertilizer if not applied yet ● Remove polythene sheet from sprouted scions ● Do hoeing around grafted plants and irrigate them and Cover with polythene sheet 	
7	Agronomic Research Institute, Faisalabad	Sugarcane			Satisfactory	0.0 mm (Faisalabad) 0.0 mm (Farooqabad, S.Pura)	24.1/11.6°C (Faisalabad) 21.42/9.85°C (Farooqabad) 23.18/9.61°C (Khanewal) 23.2/8.6°C (Karor, Layyah)	<ul style="list-style-type: none"> ● Irrigate the crop as per the need. Rouge out the diseased plants from the field. Beware of the rodents as well. Use appropriate insecticide for the control of root borer. 	
		Wheat			Satisfactory	01.0 mm (Khanewal) 0.0 mm (Karor, Layyah) 02.0 mm (Bahawalpur)	20.0/9.0°C (Bahawalpur)	<ul style="list-style-type: none"> ● Do not delay the wheat sowing at all. Increase seed rate per acre for late sowing. Sow only the area wise recommended wheat varieties. Use happy seeder for sowing in rice fields. 	
8	Entomological Research Institute, Faisalabad	Sugarcane		Borers Complex 0-0.35% Pyrilla 0-0.15 per leaf Mealybug Nil Whitefly Nil Black bug 0-1.0					Creating awareness among farmers about

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		Cotton		Whitefly Negligible Thrips Negligible Jassid Negligible American Bollworm Nil Pink Bollworm 0-1.00% Dusky Cotton Bug Negligible					major insect pests problem and suggested Integrated approach for controlling insect pests
		Wheat		Aphid Incidence found					
		Mango		Mango Fruit Fly Nil Mango Hopper 0-0.10 nymph or adult/ branch					
		Citrus		Fruit Fly 0-2.15 % Psylla 0-0.35 per Leafminer 0-2.0% Black Fly 0- 0.20 per leaf					
		Guava		Fruit Fly 0-6.80 % infestation 0-7/trap/week Fruit Borer 0-0.20 %					
		Vegetables		Brinjal fruit borer 0-5.15% Thrips Below ETL Mites Below ETL Armyworm In patches Cucurbit sucking insects Below ETL Fruit Fly 0-5.35% Jassid					

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				0-0.10 per leaf					
		Rice		Plant Hopper Nil					
		Maize		Stem borer Nil					
9	Fodder Research Institute, Sargodha	Khariief Fodder		Minor attack of armyworm was observed on berseem.	Good			<ul style="list-style-type: none"> After 1st cut, ½ bag of urea per acre should be applied to berseem crop along with light irrigation In case of army worm attack on berseem fodder crops, early cut should be taken 	
10	Mango Research Institute, Multan	Mango		No significant signs of any insect infestation were recorded in visited mango orchards during the period under report. However die back symptoms were prominent in some of the orchards having sick soils & mismanagement.	Satisfactory			<ul style="list-style-type: none"> It was strongly recommended to cover the young mango plants in field with polyethylene sheets / wrapping of paddy straw around the tree trunks. However light irrigation may also be considered the best tool for mango orchards against frost. Well rotten farm yard manure @80 to 100 kg was suggested to apply in mango orchards during the month of December. Further, phosphatic fertilizer like SSP or TSP may also be used if it was not applied after harvest of the crop. 	The gradual decrease in nocturnal temperature during the said period might have the positive impact on mango crop.
11	Citrus Research Institute, Sargodha	Citrus	0.45	<u>Plant Pathology Division</u> Symptoms of citrus scab, canker,	Satisfactory	-	10.14-19.29°C	<ul style="list-style-type: none"> Install pheromone traps (5/acre) for mating disruption in fruit flies. Dropped fruit should be buried 	

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				<p>melanose and stem end rot were observed on citrus fruits.</p> <p>Stem Gummosis was observed on most of the citrus varieties.</p> <p><u>Entomology Division</u></p> <p>The infestation of citrus major pests has been reduced greatly due to onset of winter season. However, only miner infestation of citrus red scales was observed on fruits.</p> <p><u>Weed Condition</u></p> <p>Weeding was done in Sq. No. 13, 15, 10/7,10/8,10/13 and 10/14.</p> <p>Irrigation was applied in Sq No. 9/3, 19/F VII, VIII and 13.</p>				<p>deep in the soil to prevent fruit fly re-infestation</p> <ul style="list-style-type: none"> ● Apply spray of imidacloprid + bifenthrin for the control of citrus leaf miner, red scale and lemon butter fly larva and fruit washing in detergent mixed water followed by waxing is good option. ● Spray of Nativo or Top guard was recommended for the control of citrus scab, melanose and stem end rot. ● Spray of copper based fungicide like copper hydroxide @ 2.5 gm/ liter of water is recommended for the control of citrus canker. ● Stem pasting of fungicides success along with lime @ 1 : 10. 	
12	PPRI, Faisalabad	Bitter gourd		Myrothecium leaf spot 5%				<p>Spray the crop thoroughly with</p> <ul style="list-style-type: none"> ● Antracol @ 3gm/liter of water. 	

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								<ul style="list-style-type: none"> ● Mencozeb @ 3gm/liter of water. ● Nativo @ 1gm/liter of water. 	
		Spinach		Cercospora leaf spot 10%				Spray the crop with <ul style="list-style-type: none"> ● Amistar-Top @ 2 ml / lit of water ● Score @ 1 ml / lit. of water ● Topsin-M @ 2gm / lit of water 	
13	BARI, Chakwal	Groundnut		Hairy caterpillar attack was observed in some areas, which was controlled by spraying insecticides. Weeds infestation was also a serious problem, which was eradicated manually and by spraying weedicides.	Satisfactory			<ul style="list-style-type: none"> ● Harvesting of the crop has been completed. After harvest spread the pods on clean floor to sun dry for 3-4 days. Then dried pods should be separated from immature, empty and damaged pods to keep quality produce. Store the pods in cloth or gunny bags for longer storage. 	Agricultural Experts should be consulted for the control of insects & diseases. Farmers can contact on Mobile phone No. 03345622 125 (Fida Hassan Shah) for the production technology and problems of Groundnut crop.

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		Olive		No serious attack of insects or diseases.	Satisfactory			<ul style="list-style-type: none"> ● Control the attack of Woolly Aphid by spraying Biphenthrine @4ml/ L of water ● Control Termites attacks in new planted olive plants by applying Chlorpyrifos @ 7ml/L of water ● Bring your olive fruit having black color to BARI Chakwal for oil extraction ● Apply well-rotted farm yard manure, all phosphorus and Potash dose and first dose of nitrogen to orchards in order to fetch good fruit next year ● Remove weeds from the plant basin. 	
15	Arid Zone Research Institute, Bhakkar	Wheat	-	-	-	-	8-19°C	<ul style="list-style-type: none"> ● Complete 1st irrigation 30 days after sowing ● Weedicides application must be completed after 1st irrigation. ● Fertilizer application must be completed up to 3rd irrigation. 	
		Chickpea	-	-	-			<ul style="list-style-type: none"> ● Hoeing should be completed up to the end of December, 2020. ● Regularly visit field regarding pod borer infestation because November and December are the periods of 1st Flush infestations ● 1st irrigation to the irrigated crop must be applied 40 Days after sowing 	