

# Weekly Crop Situation Report

12.12.2020 to 18.12.2020

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	3.821	No moth catches of Pink Boll Worm have been observed in pheromone traps during the week under report.	Not Satisfactory	0.0mm	11-23.4°C	<ul style="list-style-type: none"> <li>● Ensure rotavation of cotton sticks after final picking</li> <li>● Removal of leftover bolls from the cotton sticks before storing them for fuel purposes</li> <li>● Keeping small bundles of cotton sticks in vertical position</li> <li>● Avoid stacking of cotton stick heaps on to each other</li> <li>● Disposal and safe destruction of ginning waste and debris from ginning factories</li> </ul>	
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	2.3mm	6.1-15.9°C	<ul style="list-style-type: none"> <li>● Regularly visit the crop so that in case of any crop related problem, a timely solution may be applied and insect/pest, and disease will be controlled</li> <li>● Stop irrigation one month before harvesting</li> <li>● Harvest the crop at ground level/one inch below to avoid Larvae attack</li> <li>● Cover the harvested crop and supply it to Sugar Mills as early as possible to minimize the staling losses</li> <li>● Irrigate the September planted sugarcane according to crop requirements and weather forecast</li> </ul>	Frequent feedback received from the farmers

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

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								diseases.	
		Radish			Satisfactory			<ul style="list-style-type: none"> <li>• Proper utilization of fertilizers for better production.</li> <li>• Spray against insects and pests.</li> <li>• Irrigate the field according to climatic conditions.</li> <li>• Spray against pre and post emergence weeds.</li> <li>• No more delay in steckling for better seed production.</li> </ul>	Early production from Punjab is in market
		Turnip			Satisfactory			<ul style="list-style-type: none"> <li>• Proper utilization of fertilizers for better production</li> <li>• Spray against insects and pests.</li> <li>• Irrigate the field according to climatic conditions.</li> <li>• Spray against pre and post emergence weeds.</li> <li>• No more delay in steckling for better seed production.</li> </ul>	Early production from Punjab is in market
		Cauliflower		Cabbage butterfly	Satisfactory			<ul style="list-style-type: none"> <li>• Meticulous seed bed preparation.</li> <li>• Use of certified seed with recommended seed rate.</li> <li>• Treatment of seed with fungicide for eradication of soil borne diseases.</li> <li>• Proper utilization of fertilizers to better production.</li> <li>• Spray against insects and pests.</li> <li>• Spray against pre and post emergence weeds.</li> </ul>	Early production from Punjab is in market
		Cabbage		Cabbage butterfly	Satisfactory			<ul style="list-style-type: none"> <li>• Proper utilization of fertilizers to better production.</li> </ul>	Early production

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								<ul style="list-style-type: none"> <li>● Irrigate the field according to climatic conditions.</li> <li>● Spray against insects and pests.</li> <li>● Spray against pre and post emergence weeds.</li> </ul>	n from Punjab is in market
		Carrot			Satisfactory			<ul style="list-style-type: none"> <li>● Judicious use of fertilizers for uniform and significantly higher root yield.</li> <li>● Irrigation according to climatic conditions.</li> <li>● Spray against pre emergence as well as post emergence weeds.</li> <li>● Spray against insect pests and diseases.</li> <li>● No more delay in steckling for better seed production.</li> </ul>	
		Coriander		Jassid, leaf minor and cutworm	Satisfactory			<ul style="list-style-type: none"> <li>● Complete thinning of the off type plants in crop sowing.</li> <li>● Complete the sowing of crop with no more delay.</li> <li>● Keep the field weed free.</li> <li>● Irrigate the field according to climatic conditions.</li> <li>● Spray against pests and diseases if any.</li> </ul>	
4	Oilseed Research Institute, Faisalabad	Brassica	-					<ul style="list-style-type: none"> <li>● Second irrigation should be provided at flowering.</li> <li>● Sulphur @ 6 Kg/acre with irrigation at flowering for significant increase in yield.</li> <li>● Spray Lambda cyhalothrin 2.5 EC @ 330 ml/acre against Mustard Sawfly and Painted bug.</li> </ul>	

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		Linseed		Pests: Nil Disease: Nil Weeds: Nil		2.3mm	6.1-15.9°C	<ul style="list-style-type: none"> <li>● Irrigate the field after one month of germination</li> <li>● Remove excess plants before first irrigation.</li> <li>● Apply 1 bag of urea with first irrigation</li> </ul>	
5	Pulses Research Institute, Faisalabad	Gram		Attack of termite, surface weevil and Fusarium wilt may damage plant population at seedling stage in gram.	Satisfactory	2.3mm	1.5-20.5°C	<ul style="list-style-type: none"> <li>● Sowing of gram and lentil on farmer's field has completed.</li> </ul> <p>Rabi Crop: (Chickpea &amp; lentil)</p> <ul style="list-style-type: none"> <li>● Eradicate the weeds from fields at an early stage. Use of rotary in is suitable method in Thall region to eradicate weeds.</li> <li>● Apply 1st irrigation to gram and lentil crops after 50-60 days of sowing in irrigated areas.</li> <li>● Termite infested soils may be treated with proper insecticides in irrigated areas.</li> <li>● Appearance of early smog may delay germination</li> </ul>	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
		Masoor			Normal				

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									area sown 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		Infestation of weeds were recorded	Satisfactory			<ul style="list-style-type: none"> <li>● Apply completely decomposed farmyard manure</li> <li>● Continue regular cultural practices</li> </ul>	
		Date Palm						<ul style="list-style-type: none"> <li>● Spray chlopyriphos around the stems which are exposed to red palm weevil and do earthen up</li> <li>● Control red palm weevil by insertion of Phostoxin tablets in holes made by red palm weevil and mud the holes with chlori mix paste</li> <li>● Burn remains of infected stems</li> <li>● Eradicate weeds from field manually or by hoeing</li> <li>● Irrigate newly planted field</li> </ul>	

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								<ul style="list-style-type: none"> <li>every week</li> <li>● Cover newly planted offshoots with rice straw or date palm fronds and tie them firmly from top</li> </ul>	
		Ber						<ul style="list-style-type: none"> <li>● Apply preventive fungicide against diseases of Ber</li> <li>● Eradicate weeds from field</li> <li>● Apply light irrigation during and fruit setting</li> <li>● Apply fertilizer if not applied yet</li> <li>● Remove polythene sheet from sprouted scions</li> <li>● Cover grafted plants with polythene sheet</li> </ul>	
7	Agronomic Research Institute, Faisalabad	Sugarcane	-	-	Satisfactory	15.9/6.1°C (Faisalabad) 18.71/8.29°C (Farooqabad) 15.92/6.4°C (Khanewal) 17.4/8.1°C (Karor, Layyah) 18.0/9.0°C (Bahawalpur)	2.3 mm (Faisalabad) 0.0 mm (Farooqabad, S.Pura) 16.0 mm (Khanewal) 0.0 mm (Karor, Layyah) 03.0 mm (Bahawalpur)	<ul style="list-style-type: none"> <li>● Irrigate the crop as per the need.</li> <li>● Rogue out diseased plants from the field</li> <li>● Beware of the rodents as well.</li> <li>● Use appropriate insecticide for the control of root borer.</li> <li>● Do not irrigate the crop which is to be harvested.</li> </ul>	
		Wheat	-	-	Satisfactory			<ul style="list-style-type: none"> <li>● Increase seed rate per acre for late sowing.</li> <li>● Sow only the area wise recommended wheat varieties.</li> <li>● Use appropriate herbicides for weed control.</li> </ul>	
8	Entomological Research Institute,	Sugarcane		Borers Complex 0-0.3% Pyrilla 0-0.12 per leaf	Fruit borer and fruit fly are present			<ul style="list-style-type: none"> <li>● Creating awareness among farmers about major insect pests problem and suggested</li> </ul>	

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	Faisalabad			Mealybug Nil Whitefly Nil Black bug 0-1.0	on guava			Integrated approach for controlling insect pests	
		Cotton		Whitefly Nil Thrips NiL Jassid NiL American Bollworm Pink Bollworm 0-1 Dusky Cotton Bug Nil					
		Mango		Mango Fruit Fly Nil Mango Hopper 0-0.1 nymph or adult/ branch					
		Citrus		Fruit Fly 0-2.05 % Psylla 0-0.25 per Leafminer 0-2.0% Black Fly 0.2 per leaf					
		Guava		Fruit Fly 0-6.0% infestation 0-6/trap/week Fruit Borer 0-0.2 %					
		Vegetables		Brinjal fruit borer 0-5.0% Thrips Below ETL Mites Above ETL Armyworm In patches Cucurbit sucking insects Below ETL Fruit Fly 0-5.05% Jassid 0-0.10 per leaf					



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		Rice		Plant Hopper Nil					
		Maize		Stem borer Nil					
9	Fodder Research Institute, Sargodha	Khariet Fodder		Minor attack of armyworm was observed on berseem.	Good			<ul style="list-style-type: none"> <li>• After 1st cut ½ bag of urea per acre should be applied to berseem crop along with light irrigation</li> <li>• In case of army worm attack on berseem fodder crops early cut should be taken.</li> </ul>	
10	Mango Research Institute, Multan	Mango		Shoot wilting with signs of chlorosis and necrosis was observed in some of the orchards having sick soils during the period under repost.	Overall condition of the mango crop was good as no biotic and abiotic challenge was noticed in mango orchards			<ul style="list-style-type: none"> <li>• Growers were advocated to irrigate mango orchards as well as covering of young mango plants in field with tree looping / polyethylene sheets to avoid cold waves effects.</li> <li>• Application of Bordeaux paste @ 1:1:10 or the fungicidal paste @ 1:20 on the main tree trunk was recommended to complete. Similarly phosphatic fertilizer like SSP / TSP was advised to apply with FYM if it not applied after harvest of the crop.</li> </ul>	As there is gradual decrease in nocturnal temperature in mango region and the metrological department was forecasting in next few days of December, this decrease might cause the

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									frost occurrence leaving negative impact on mango crop.
11	Citrus Research Institute, Sargodha	Citrus		<p><b><u>Plant Pathology Division</u></b> Symptoms of citrus scab, canker, melanose and stem end rot were observed on citrus fruits.</p> <p><b><u>Entomology Division</u></b> 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>	Satisfactory			<ul style="list-style-type: none"> <li>● Install pheromone traps (5/acre) for mating disruption in fruit flies.</li> <li>● Dropped fruit should be buried deep in the soil to prevent fruit fly re-infestation</li> <li>● 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.</li> <li>● Spray of Nativo or Top guard was recommended for the control of citrus scab, melanose and stem end rot.</li> <li>● Spray of copper based fungicide like copper hydroxide @ 2.5 gm/ liter of water is recommended for the control of citrus canker.</li> <li>● Stem pasting of fungicides success along with lime @ 1 : 10.</li> </ul>	

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12	PPRI, Faisalabad	Sorghum		Red leaf spot & Leaf Blight 09 %				Spray the crop with <ul style="list-style-type: none"> <li>● Topsin-M @ 2.5 gm / lit of water</li> <li>● Score @ 1 ml / lit. of water</li> <li>● Mancozeb @ 3gm / lit of water</li> </ul>	
		Spinach		Cercospora leaf spot 8%				Spray the crop with <ul style="list-style-type: none"> <li>● Amistar-Top @ 2 ml / lit of water</li> <li>● Score @ 1 ml / lit. of water</li> <li>● Topsin-M @ 2gm / lit of water</li> </ul>	
		Bell pepper		Collar rot 6%				Spray the collar potation of plants along with adjacent soil with <ul style="list-style-type: none"> <li>● Aleitte @ 2 gm / lit of water</li> <li>● Acrobat-MZ @ 3 gm / lit. of water</li> <li>● Ridomil gold @ 2.5 gm / lit of water</li> </ul>	
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"> <li>● 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.</li> </ul>	Agricultural Experts should be consulted for the control of insects & diseases. Farmers can contact on Mobile phone No.

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									03345622125 (Fida Hassan Shah) for the production technology and problems of Groundnut crop.
		Olive		No serious attack of insects or diseases.	Satisfactory			<ul style="list-style-type: none"> <li>• Control the attack of Woolly Aphid by spraying Biphenthrine @4ml/ L of water</li> <li>• Control Termites attacks in new planted olive plants by applying Chlorpyrifos @ 7ml/L of water</li> <li>• Bring consideration of your activities for next year fruiting orchard</li> <li>• Prepare your olive orchard for next year by pruning</li> <li>• Apply rotted farm yard manure, first dose of Nitrogen, all Phosphorus and All Potash after pruning during December-January.</li> </ul>	Advisory services are being provided to the farmers at the institute as well as on the farms.
14	Arid Zone Research Institute, Bhakkar	Wheat	-			-	9-21°C	<ul style="list-style-type: none"> <li>• Complete 1st irrigation 30 days after sowing</li> <li>• Weedicides application must be completed after 1st irrigation.</li> </ul>	

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		Chickpea	-					<ul style="list-style-type: none"> <li>● Recommended varieties i.e. Fakhar-e-Bhakkar, Akbar-2019 and Ghazi-2019 should be used for cultivation.</li> <li>● Hoeing should be completed up to the end of December, 2020.</li> <li>● Regular visit field regarding pod borer infestation because November and December are the periods of 1st Flush infestations.</li> <li>● Sowing of the rainfed chickpea crop should be performed by soaking the seed in water 2 hours before sowing for good germination.</li> <li>● 1st irrigation to the irrigated crop must be applied 40 Days after sowing.</li> </ul>	