

PEST SITUATION ON COTTON CROP IN PUNJAB DURING 2ND WEEK OF AUGUST, 2020

Pest Situation of Cotton Pests								
Sr. No.	Pest Name	%age of spots						Remarks
		Current Week		Previous week		Corresponding week of Last Year		
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Whitefly	31.44	67.91	30.31	67.72	17.68	79.02	Sustaining
2	Jassid	13.56	82.52	16.67	78.65	11.67	82.00	Decreasing
3	Thrips	17.26	81.04	13.00	84.85	6.97	85.15	Increasing
4	Mealy Bug	12.44	-	9.86	-	11.26	-	Increasing
5	Mites	0.00	4.42	0.00	4.91	0.00	0.26	Stable
6	Dusky Cotton Bug	0.11	16.97	0.04	14.85	0.00	7.09	Stable
7	Pink Bollworm	0.83	16.50	0.87	11.00	0.99	12.34	Stable
8	American Bollworm	0.00	0.87	0.00	0.49	0.03	0.03	Stable
9	Spotted Bollworm	0.00	0.44	0.00	0.49	0.00	0.06	Stable
10	Armyworm	2.76	-	2.12	-	2.28	-	Sustaining
11	CLCuV	8.56	-	5.14	-	12.20	-	Increasing

Tehsil wise percentage of hot spots of Whitefly

Sr#	TEHSIL	%AGE	Sr#	TEHSIL	%AGE
1	JALAL PUR P.W	65.1	33	LIAQUAT PUR	25.5
2	VEHARI	58.0	34	SHORKOT	25.0
3	LODHRAN	56.1	35	TANDLIANWALA	24.2
4	MULTAN	55.4	36	PIPLAN	24.1
5	HASILPUR	52.8	37	BAHAWAL NAGAR	24.0
6	MAILSI	52.0	38	SADIQ ABAD	24.0
7	MANKERA	50.0	39	MUZUFAR GARH	24.0
8	KOT CHUTTA	48.1	40	PAK PATTAN	23.9
9	D.G.KHAN	48.0	41	MINCHAN ABAD	23.4
10	KEHROR PACCA	46.6	42	ROJHAN	23.1
11	A.P.EAST	43.1	43	KHAN PUR	22.9
12	BAHAWAL PUR	41.8	44	MIANWALI	22.2
13	JAM PUR	40.0	45	KAROR L.E.	22.0
14	JATOI	37.5	46	TAUNSA	21.7
15	CHICHA WATNI	36.7	47	YAZMAN	20.4
16	DUYAPUR	36.0	48	ARIF WALA	20.4
17	KHANEWAL	35.2	49	BHAKKAR	20.0
18	SHUJABAD	34.6	50	RENALA KHURD	19.5
19	PIR MAHAL	34.3	51	CHOBARA	18.9
20	BURE WALA	34.0	52	KALLOR KOT	18.8
21	MIAN CHANNU	33.3	53	GOJRA	18.4
22	ALI PUR	32.7	54	FAISALABAD	18.2
23	SAHIWAL	32.3	55	JAHANIAN	17.4
24	T.T.SINGH	30.9	56	LAYYAH	17.0
25	KABIR WALA	30.4	57	JARANWALA	16.7
26	HAROON ABAD	30.0	58	R.Y.KHAN	16.0
27	FORT ABBAS	30.0	59	SUMUNDRI	15.4
28	CHISHTIAN	30.0	60	DARYA KHAN	15.4
29	ISA KHEL	30.0	61	18-HAZARI	13.3
30	RAJAN PUR	28.8	62	JHANG	12.5
31	OKARA	28.3	63	DEPALPUR	9.1
32	KOT ADDU	27.8	64	A.P SIAL	7.7

Tehsil wise percentage of hot spots of Jassid

Sr#	TEHSIL	%AGE	Sr#	TEHSIL	%AGE
1	KOT CHUTTA	34.6	33	ROJHAN	12.8
2	HASILPUR	30.2	34	KALLOR KOT	12.5
3	D.G.KHAN	28.0	35	TANDLIANWALA	12.1
4	BAHAWAL PUR	27.3	36	SUMUNDRI	11.5
5	CHISHTIAN	26.0	37	JATOI	10.7
6	MANKERA	25.0	38	PIPLAN	10.3
7	FORT ABBAS	24.0	39	KAROR L.E.	10.0
8	A.P.EAST	22.4	40	DEPALPUR	9.1
9	LODHRAN	21.1	41	T.T.SINGH	9.1
10	KEHROR PACCA	20.7	42	FAISALABAD	9.1
11	HAROON ABAD	20.0	43	PIR MAHAL	8.6
12	ISA KHEL	20.0	44	JHANG	8.3
13	SHUJABAD	19.2	45	JARANWALA	8.3
14	JALAL PUR P.W	18.6	46	SAHIWAL	8.1
15	MAILSI	18.0	47	VEHARI	8.0
16	LIAQUAT PUR	17.6	48	DUYAPUR	8.0
17	YAZMAN	16.3	49	GOJRA	7.9
18	ALI PUR	16.3	50	MULTAN	7.7
19	SADIQ ABAD	16.0	51	A.P SIAL	7.7
20	DARYA KHAN	15.4	52	RAJAN PUR	6.8
21	PAK PATTAN	15.2	53	18-HAZARI	6.7
22	LAYYAH	15.1	54	KABIR WALA	6.5
23	TAUNSA	15.0	55	KHANEWAL	5.6
24	MINCHAN ABAD	14.9	56	ARIF WALA	5.6
25	MIANWALI	14.8	57	KOT ADDU	5.6
26	KHAN PUR	14.6	58	RENALA KHURD	4.9
27	BAHAWAL NAGAR	14.0	59	MIAN CHANNU	4.4
28	R.Y.KHAN	14.0	60	JAHANIAN	4.3
29	JAM PUR	14.0	61	BURE WALA	4.3
30	BHAKKAR	13.3	62	MUZUFAR GARH	4.0
31	CHOBARA	13.2	63	CHICHA WATNI	3.3
32	OKARA	13.0			

Tehsil wise percentage of hot spots of Thrips

Sr#	TEHSIL	%AGE	Sr#	TEHSIL	%AGE
1	JATOI	46.4	28	ROJHAN	17.9
2	JALAL PUR P.W	44.2	29	SADIQ ABAD	16.0
3	MULTAN	38.5	30	MINCHAN ABAD	14.9
4	D.G.KHAN	38.0	31	FORT ABBAS	14.0
5	KOT CHUTTA	36.5	32	KHAN PUR	12.5
6	LODHRAN	35.1	33	KHANEWAL	11.1
7	SHUJABAD	34.6	34	JAHANIAN	10.9
8	BAHAWAL PUR	34.5	35	KABIR WALA	10.9
9	TAUNSA	30.0	36	CHISHTIAN	10.0
10	ISA KHEL	30.0	37	LIAQUAT PUR	9.8
11	MIANWALI	29.6	38	DEPALPUR	9.1
12	YAZMAN	28.6	39	FAISALABAD	9.1
13	ALI PUR	28.6	40	BURE WALA	8.5
14	A.P.EAST	27.6	41	JHANG	8.3
15	JAM PUR	26.0	42	KAROR L.E.	8.0
16	KOT ADDU	25.9	43	DARYA KHAN	7.7
17	DUYAPUR	24.0	44	MIAN CHANNU	6.7
18	MUZUFAR GARH	24.0	45	OKARA	6.5
19	RAJAN PUR	23.7	46	KALLOR KOT	6.3
20	KEHROR PACCA	22.4	47	A.P SIAL	3.8
21	VEHARI	22.0	48	SUMUNDRI	3.8
22	BAHAWAL NAGAR	22.0	49	LAYYAH	3.8

23	HAROON ABAD	22.0	50	CHOBARA	3.8
24	R.Y.KHAN	22.0	51	TANDLIANWALA	3.0
25	PIPLAN	20.7	52	PIR MAHAL	2.9
26	HASILPUR	18.9	53	RENALA KHURD	2.4
27	MAILSI	18.0			

Tehsil wise percentage of hot spots of Mealy bug

Sr#	TEHSIL	%AGE	Sr#	TEHSIL	%AGE
1	LODHRAN	45.6	25	JAM PUR	10.0
2	DUYAPUR	38.0	26	ISA KHEL	10.0
3	JALAL PUR P.W	37.2	27	KOT CHUTTA	9.6
4	HASILPUR	30.2	28	PIR MAHAL	8.6
5	SHUJABAD	28.8	29	MAILSI	8.0
6	MULTAN	26.2	30	MUZUFAR GARH	8.0
7	A.P.EAST	25.9	31	CHICHA WATNI	6.7
8	CHISHTIAN	24.0	32	BHAKKAR	6.7
9	R.Y.KHAN	24.0	33	KALLOR KOT	6.3
10	KABIR WALA	23.9	34	VEHARI	6.0
11	KEHROR PACCA	22.4	35	FORT ABBAS	6.0
12	BAHAWAL PUR	21.8	36	D.G.KHAN	6.0
13	JAHANIAN	21.7	37	GOJRA	5.3
14	KHAN PUR	20.8	38	SAHIWAL	4.8
15	SADIQ ABAD	20.0	39	PAK PATTAN	4.3
16	JATOI	19.6	40	MINCHAN ABAD	4.3
17	YAZMAN	18.4	41	JHANG	4.2
18	ALI PUR	18.4	42	BAHAWAL NAGAR	4.0
19	KHANEWAL	16.7	43	KAROR L.E.	4.0
20	LIAQUAT PUR	15.7	44	RENALA KHURD	2.4
21	MIAN CHANNU	15.6	45	LAYYAH	1.9
22	T.T.SINGH	14.5	46	CHOBARA	1.9
23	HAROON ABAD	14.0	47	ARIF WALA	1.9
24	BURE WALA	10.6	48	TAUNSA	1.7

No Hot Spots of Mites in Any Tehsil

Tehsil wise percentage of hot spots of Dusky Cotton Bug

Sr#	TEHSIL	%AGE	Sr#	TEHSIL	%AGE
1	SUMUNDRI	3.8	3	HASILPUR	1.9
2	TANDLIANWALA	3.0			

Tehsil wise percentage of hot spots of army worm

Sr#	TEHSIL	%AGE	Sr#	TEHSIL	%AGE
1	OKARA	10.9	17	CHISHTIAN	4.0
2	MULTAN	10.8	18	D.G.KHAN	4.0
3	A.P.EAST	8.6	19	KOT CHUTTA	3.8
4	JHANG	8.3	20	KHANEWAL	3.7
5	YAZMAN	8.2	21	PIPLAN	3.4
6	SHUJABAD	7.7	22	PIR MAHAL	2.9
7	KOT ADDU	7.4	23	GOJRA	2.6
8	T.T.SINGH	7.3	24	RENALA KHURD	2.4
9	JATOI	7.1	25	JALAL PUR P.W	2.3
10	DUYAPUR	6.0	26	JAHANIAN	2.2
11	BAHAWAL NAGAR	6.0	27	MAILSI	2.0
12	KAROR L.E.	6.0	28	MUZUFAR GARH	2.0
13	BAHAWAL PUR	5.5	29	LODHRAN	1.8

14	DEPALPUR	4.5	30	KEHROR PACCA	1.7
15	MINCHAN ABAD	4.3	31	CHICHA WATNI	1.7
16	FORT ABBAS	4.0	32	TAUNSA	1.7

Tehsil wise percentage of hot spots of Pink Bollworm

Sr#	TEHSIL	%AGE	Sr#	TEHSIL	%AGE
1	ALI PUR	10.2	8	JAHANIAN	2.2
2	KHANEWAL	5.6	9	OKARA	2.2
3	KABIR WALA	4.3	10	VEHARI	2.0
4	PAK PATTAN	4.3	11	HASILPUR	1.9
5	KAROR L.E.	4.0	12	CHICHA WATNI	1.7
6	SAHIWAL	3.2	13	TAUNSA	1.7
7	MIAN CHANNU	2.2			

No Hot Spots of American Bollworm in Any Tehsil

No Hot Spots of Spotted Bollworm in Any Tehsil

Tehsil wise percentage of hot spots of CLCuV

Sr#	TEHSIL	%AGE	Sr#	TEHSIL	%AGE
1	JALAL PUR P.W	65.1	16	BAHAWAL PUR	9.1
2	JATOI	44.6	17	MIAN CHANNU	8.9
3	VEHARI	32.0	18	JAHANIAN	6.5
4	SHUJABAD	30.8	19	MUZUFAR GARH	6.0
5	MAILSI	30.0	20	KAROR L.E.	6.0
6	ALI PUR	28.6	21	HASILPUR	5.7
7	MULTAN	27.7	22	TAUNSA	5.0
8	KHAN PUR	20.8	23	KABIR WALA	4.3
9	A.P.EAST	20.7	24	JHANG	4.2
10	R.Y.KHAN	20.0	25	DUYAPUR	4.0
11	BURE WALA	19.1	26	KOT CHUTTA	3.8
12	LIAQUAT PUR	17.6	27	KEHROR PACCA	3.4
13	SADIQ ABAD	14.0	28	CHICHA WATNI	3.3
14	D.G.KHAN	10.0	29	LAYYAH	1.9
15	KHANEWAL	9.3	30	CHOBARA	1.9

FORECAST FOR THE NEXT WEEK

Meteorological data of the current week 2019-2020

Districts	2020				2019			
	Temperature °C		R.H%	Rainfall (mm)	Temperature °C		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Multan	38.57	31.14	82.29	0.80	34.50	28.80	75.20	25.00
Khanewal	37.78	30.11	71.22	2.00	34.86	26.71	78.14	19.00
Vehari	40.00	27.29	71.14	4.00	32.20	27.60	75.40	27.00
Lodhran	38.71	31.00	75.36	17.00	36.60	27.00	67.60	10.00
Sahiwal	38.00	28.00	62.00	0.00	37.00	27.00	63.00	0.00
Pakpattan	39.86	27.00	58.00	15.00	42.57	26.57	50.86	0.00
Okara	42.00	26.00	54.00	14.00	41.74	25.35	56.00	0.00
Bahawalpur	36.57	29.24	66.93	0.90	37.41	28.83	67.21	4.30
Bahawalnagar	40.17	26.00	63.42	4.67	40.75	28.17	54.50	0.00
R.Y.Khan	35.86	28.00	62.78	0.00	39.86	29.14	74.86	0.00
D.G. Khan	38.71	30.71	67.79	0.00	37.86	30.14	64.14	0.00
Muzaffar Garh	40.14	29.86	55.50	4.00	37.86	29.80	59.93	0.00
Rajapur	39.6	31.2	58.00	5.00	43.60	29.3	65.20	26.00
Layyah	39.86	29.71	42.00	0.00	35.71	26.57	45.71	32.50
TOT/AVG	38.99	28.95	63.60	67.37	38.04	27.93	64.13	143.80

Weather forecast for next 7 day in cotton zone

Division	Dated	17/8	18/8	19/8	20/8	21/8	22/8	23/8
Multan	Max.Temp.	48	48	46	44	36	38	43
	Min.Temp.	35	36	34	32	27	28	31
	Humidity %	21	21	23	48	65	34	25
Sahiwal	Max.Temp.	44	47	46	43	35	39	39
	Min.Temp.	32	34	34	26	26	27	29
	Humidity %	27	41	25	80	80	36	36
Bahawalpur	Max.Temp.	43	43	41	40	35	36	39
	Min.Temp.	33	34	31	30	28	27	30
	Humidity %	23	22	26	28	65	34	30
D.G. Khan	Max.Temp.	47	48	47	44	36	39	43
	Min.Temp.	36	37	35	32	27	30	32
	Humidity %	21	21	22	37	59	62	25
Average Cotton Region	Max.Temp.	42.04						
	Min.Temp.	31.18						
	Humidity %	37.04						

Source: timeanddate.com

Summary of weather forecast

Overall weather for seven days in cotton zone during next week will remain hot and humid.

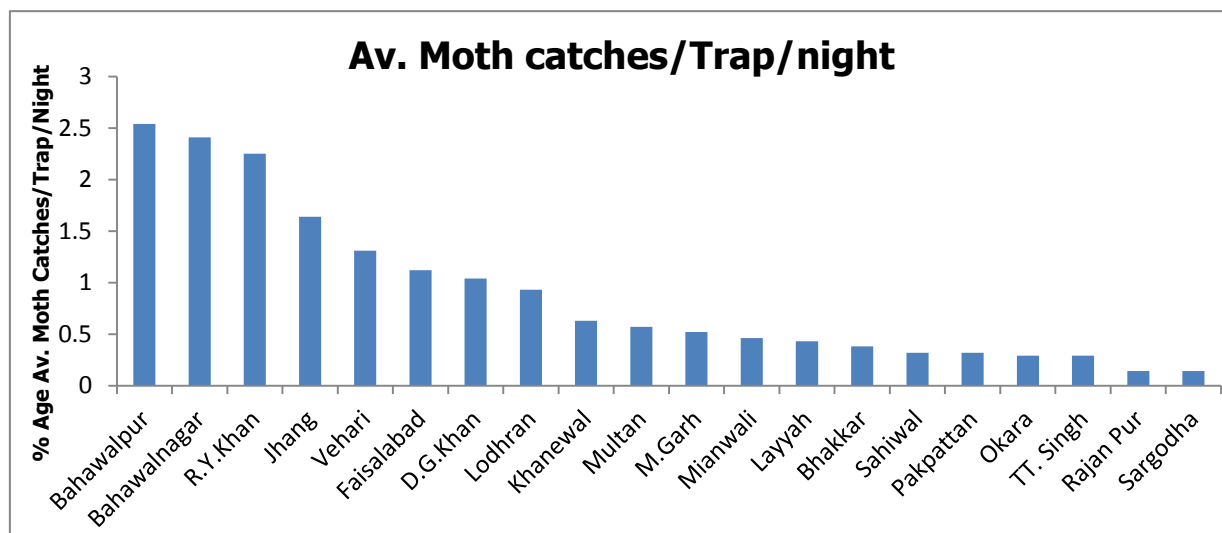
Pest Forecast for Next 15 days				
Avg. Temperature for next 15 days = 32.7				
Avg. Relative Humidity for next 15 days= 38.87%				
Sr. No.	Pest Name	Opt. Temperature	Relative Humidity	Pest Prediction
1	Whitefly	35-42 °C	<50%	Sustaining
2	Jassid	35-40 °C	>70%	May Decrease
3	Thrips	35-40 °C	<60%	May Increase
4	Mealy Bug	35-40 °C	<60-80%	May Increase
5	Mites	28-40 °C	<40-50%	Stable
6	Dusky Cotton Bug	28-40 °C	<50-80%	Stable
7	Pink Bollworm	32-40 °C	<60-80%	Stable
8	American Bollworm	32-40 °C	<50-70%	Stable
9	Spotted Bollworm	30-40 °C	<60-100%	Stable
10	Armyworm	30-40 °C	>70-100%	Sustaining
11	CLCuV	-	-	May Increase

Forecast of Sucking Pests:

Moth Catches in Pheromone Traps during 2nd Week of August, 2020

Moth Catches in Pheromone Traps During 2nd Week of August, 2020			
District	Traps Installed	Moth catches/Trap/week	Av. Moth catches/Trap/night
Multan	6	24	0.57
Khanewal	8	35	0.63
Vehari	6	55	1.31
Lodhran	6	39	0.93
Sahiwal	4	9	0.32
Pakpattan	4	9	0.32
Okara	4	8	0.29
Bahawalpur	8	142	2.54
Bahawalnagar	10	169	2.41
R.Y.Khan	8	126	2.25
D.G.Khan	4	29	1.04
M.Garh	8	29	0.52
Rajan Pur	6	6	0.14
Layyah	6	18	0.43
Sargodha	2	2	0.14
Mianwali	4	13	0.46
Bhakkar	8	21	0.38
Faisalabad	6	47	1.12
TT. Singh	6	12	0.29
Jhang	4	46	1.64

Note. 3 moth catches on 3 consecutive nights in a trap is considered as ETL



Moth catches on light traps during 2nd Week of August, 2020

Moth Catches on Light Traps/Trap/week During 2 nd Week of August, 2020				
District	Traps Installed	A.B.W	S.B.W	Armyworm
Multan	3	0	0	8
Khanewal	4	0	0	32
Vehari	3	1	0	7
Lodhran	3	1	0	20
Sahiwal	2	2	0	9
Pakpattan	2	3	0	10
Okara	3	3	0	8
Bahawalpur	4	5	3	9
Bahawalnagar	5	7	3	12
R.Y.Khan	4	8	6	8
D.G.Khan	3	9	10	8
M.Garh	4	8	1	7
Rajan Pur	3	5	0	0
Layyah	3	9	0	3

Note. 3 moth catches of a pest on 3 consecutive nights in a trap is considered as ETL

RECOMMENDATIONS

WHITEFLY MANAGEMENT

1. Conduct regular pest scouting of Whitefly.
2. Control the pest without delay when population reaches ETL i.e. nymphs or adults or both 5 per leaf.
3. Control weeds in and outside the field especially near water channels and fallow lands.

Alternate host plants of whitefly

Crops	Vegetables	Orchards	Weeds/ Ornamentals	Trees
Sunflower	Okra	Citrus	Gardenia	Shisham
Tobacco	Brinjal	Litchi	Mako	Shareen
	Cucurbits	Pomegranate	Maina	
	Tomato	Ber (<i>Zizyphus</i>)	Karund	
	Cabbage	Guava	Lehli	
	Cauliflower	Mulberry		
	Peas	Papaya		
	Potato			
	Onion			
	Spinach			

JASSID MANAGEMENT

1. Eradicate weeds.
2. Conduct Pest Scouting at least twice a week.
3. Use *Chrysoperla* Cards @ 80-90 cards per acre having 20-25 eggs on each card which are available at AARI Faisalabad, Sahiwal, Okara and Vehari. (Repeat this process after every two weeks).

THRIPS MANAGEMENT

1. Conduct Pest Scouting regularly at least twice a week.
2. Avoid intercropping of cotton crop with vegetables.
3. Control weeds in and outside the field.

MEALY BUG MANAGEMENT

1. Visit the fields daily to detect the infestation for effective management of mealy bug well in time.
2. Keep field and water courses etc. free from weeds especially Itsit & Hazaardani.
3. To avoid its shifting from one place to another, keep the horticultural nurseries free from its infestation. Spray such infested nurseries before shifting the plants.
4. Uproot and keep the infested plants gently in plastic bags and bury in the soil outside the field.
5. Avoid water stress to the plants.
6. Avoid repeated visits of workers from infested fields to healthy fields.

Alternate host plants of cotton mealy bug

Crops	Vegetables	Ornamentals	Weeds	Orchards
Sunflower	Okra	China Rose	Hazar Dani	Citrus
Tobacco	Brinjal	Huddle	Amarantus	Mulberry
Jantar	Tomato	Cotton Rose	Bhakra	Ficus
Sesame	Chillies	Gulchain	Mako	Ber
	Pumpkin	Lantana	Sueda	
		Din Ka Raja	Itsit	
		Rat Ki Rani	Karund	
		Anthorium	Aksen	
		Gul-e-Daudi	Bathu	
		Gainda	Puth Kanda	
			Kanghi	

MANAGEMENT OF DUSKY COTTON BUG

1. Eradicate weeds.
2. Conduct Pest Scouting at least twice a week.
3. Remove alternate host plants

MANAGEMENT OF ARMY WORM

1. Keep the fields clean from weeds especially Its it which is a preferred host of armyworm.
2. Avoid sowing of Jantar near cotton fields.
3. Regular pest scouting at least twice a week.
4. Hand picking and destruction of egg masses at initial stage as initially its attack starts in patches and is clearly visible.

CLCuV MANAGEMENT

1. Keep Cotton fields free from all kinds of weeds.
2. Eradicate other alternate host plants of CLCuV and dispose them off carefully.
3. Thinning out and destruction of Virus affected plants.
4. Remove CLCuV effected plants in less than 60 DAS (Days after sowing) crop.
5. Hoeing after each irrigation or rain at wattar condition till canopies permit.
6. Apply post emergence Glyphosate for both broad and narrow leaved weeds and Glyphosate for grassy weeds with shield and use Flat Fan Nozzle, if needed.

7. Irrigate the fields when needed keeping in view weather conditions e.g. temperature, rainfall, soil water holding capacity and plant need.
8. Balanced use of Fertilizer i.e. N.P.K.
9. Keep transmission vector (whitefly) at the low ebb

Alternate host plants of CLCuV

Crops	Vegetables	Ornamentals	Weeds
Sunflower	Okra	Gurhal	Leh
Melon	Brinjal	Chambeli	Lehli
Tobacco	Chillies		Mako
	Tomato		Maina
	Potato		Karund/Bathu
	Cucumber		Gardenia
			Hazardani
			Rattanjot
			Sun Kukra

Economic threshold levels of cotton pests

Insect pests	Economic threshold levels
Jassid	1 Adult or Nymph per leaf
Whitefly	5 Adults or Nymphs or both per Leaf
Thrips	8-10 Adults or Nymphs per Leaf
Mealy bug	0 (on appearance)
Mites	On damage appearance
Spotted Boll worm	3 Larvae/ 25 plants.
Pink Boll worm	5 Larvae /100 bolls.
American boll worm	5 brown eggs or 3 small larvae or both 5 per 25 plants on non Bt varieties. 2 larvae of 2 nd instar per 25 plants on Bt varieties.
Army worm	0 (On appearance)
Aphid	Spray on visible damage on top terminals.
Dusky Cotton bug	10 per leaf/bud

LIST OF RECOMMENDED PESTICIDES

WHITE FLY MANAGEMENT		
Sr#	CHEMICAL NAME	DOSE (PER ACRES)
1	Spirotetramate	125 ml
2	Pyriproxifen 10.8 EC	500 ml
3	Buprofezin	600 g
4	Flunicamid 50 WG	60-80 g
5	Diafenthuron	200 ml
JASSID MANAGEMENT		
1	Flunicamid 50 WG	60 g
2	Fipronil+Imidacloprid	60 gm
3	Nitenpiram 10 AS	200 ml
4	Dinotefuron 20 SG	100 gm
5	Dimethoate 40 EC	330-400 ml
6	Thiacloprid 480 SC	200 ml
THRIPS MANAGEMENT		
1	Fipronil+Imidacloprid	60 gm
2	Chlorfenpyr	125 ml
MEALY BUG MANAGEMENT		
1	Malathion	500 ml
2	Profenophos 50 EC	800 ml
PINK BOLLWORM MANAGEMENT		
1	Spintoram 120 SC	80 ml
2	Chlorantraniliprole	50 ml
3	Triazophos	1000 ml
4	Bifenthrin	250 ml
5	Gammacyhalothrin	100 ml
6	Lambdacyhalothrin	333 ml
DUSKY COTTON BUG MANAGEMENT		
1	Imidacloprid	250 gm
2	Acetamaprid	125 gm
3	Chlopyrifos	800-1000 ml
ARMYWORM MANAGEMENT		
1	Leufenuron	200 ml
2	Flubendamide	50 ml