



Weather and Agromet advisory bulletin for North Karnataka

01 November 2022



Issued by

**North Karnataka Agrometeorological Forecasting and Research Centre (NKAFC),
India Meteorological Department, Dharwad**

In collaboration with

**Karnataka State Natural Disaster Monitoring Centre (KSNDMC), Bengaluru,
State Agriculture Department, Govt. of Karnataka**

And

**Department of Agricultural Meteorology,
University of Agricultural Sciences, Dharwad**

Summary

Observed Weather (25th October to 31st October 2022)

- Tmax: 26- 32⁰C T min: 18– 24⁰C
- Max. Relative Humidity: 90 -100% Min. Relative Humidity: 70 – 80%
- Wind Speed: 1-14 kmph Cloud Cover: 3 – 8 Okta

Weather Forecast (01st October to 05th October 2022)

- During next five days light to moderate rainfall likely over some districts of North Karnataka.
- Partly cloudy to cloudy sky likely to prevail in most districts during next 5 days

Weather Based Crop Advisory

- As per the forecast given by the India Meteorological Department clear sky condition with no rainfall condition prevailing at many places during the next five days.
- Maximum temperature will 30.0o C and Minimum temperature will be 15.0-20.0 oC,
- By looking into local weather conditions take up Sowing of different rabi crops.
- By looking into local weather conditions spray of micronutrients, plant protection chemicals.
- Harvest matured Kharif crops and dry the grains under bright sunlight then store them at proper place. and prepare land for sowing of Rabi crops.
- Care should be taken to remove excess moisture from vermicompost pits.
- By adapting Drip irrigation along with crop residue mulch in sugarcane crop will helps to save 40-50 % water.
- Preparation of bunds and water retention structures should be taken up.
- By spreading of granules/husk around the stem will help to conserve soil moisture in vegetables and fruit crops.

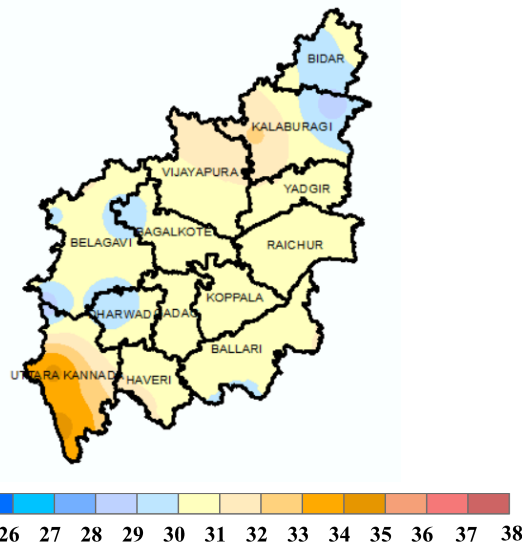
1. Observed Rainfall during past 7 days

Sl. No.	District	Last 7 Days Rainfall Pattern (25.11.2022 to 31.11.2022)		
		Normal (mm)	Actual (mm)	%DEP
1	Ballari	16	0	-100
2	Vijayanagara	15	0	-100
3	Koppala	14	0	-100
4	Raichur	13	0	-99
5	Kalaburagi	14	0	-99
6	Yadgir	16	0	-99
7	Bidar	11	0	-98
8	Belagavi	11	0	-99
9	Bagalkote	13	0	-100
10	Vijayapura	13	0	-100
11	Gadag	12	0	-99
12	Haveri	13	0	-98
13	Dharwad	13	0	-98
14	Uttara Kannada	19	0	-99

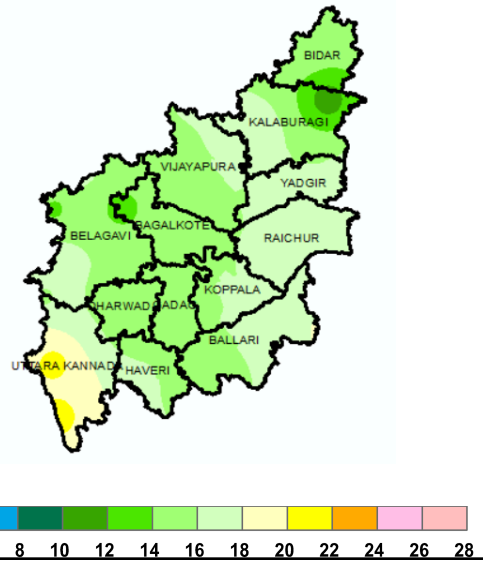
Large Excess	+60% and above
Excess	+20 to +59%
Normal	+19% to -19%
Deficit	-20 to -59%
Large Deficit	-60 or less %
No Rainfall	(-100 %)

Spatial distribution of weather parameters for the week from 25.10.2022 to 31.10.2022

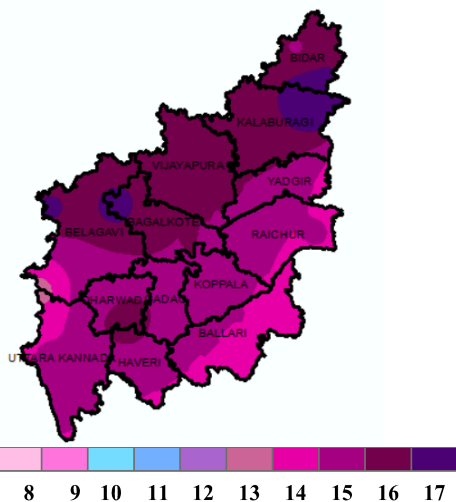
Mean Maximum Temperature (°C) for the week ending on 31.10.2022



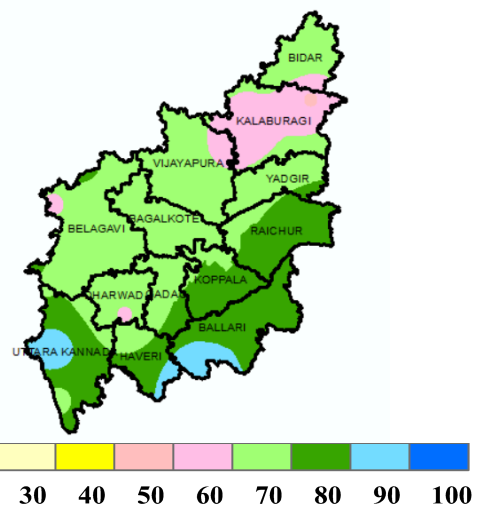
Mean Minimum Temperature (°C) for the week ending on 31.10.2022



Mean Diurnal Temperature Variation (°C) for the week ending on 31.10.2022

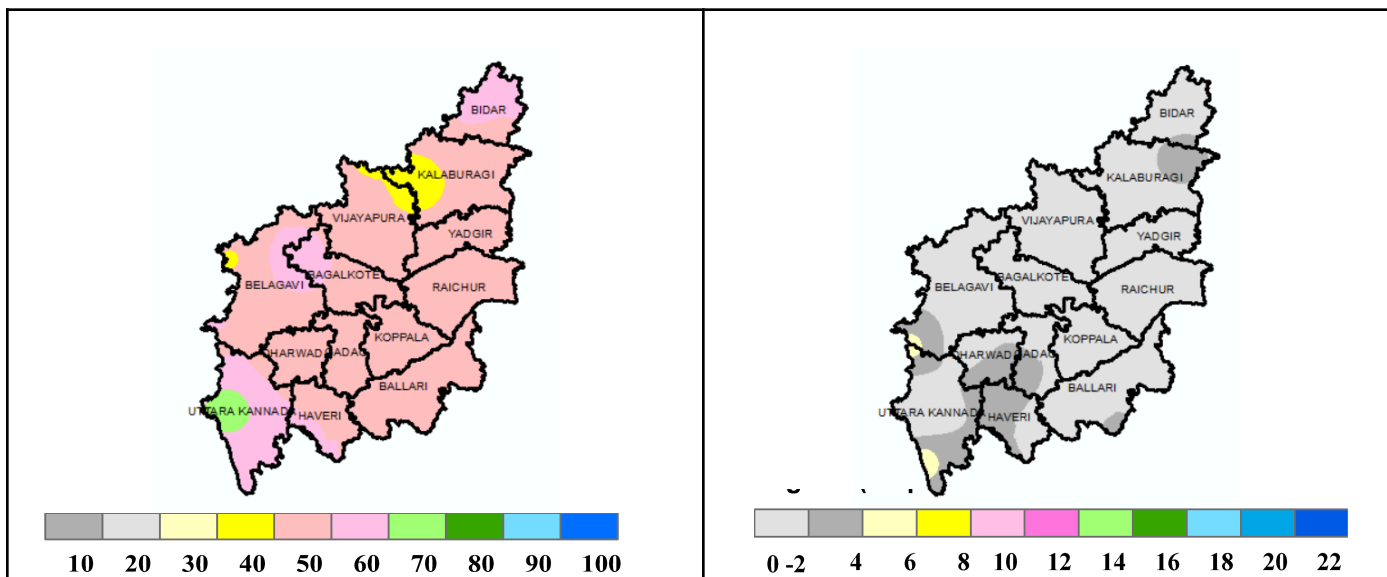


Mean Maximum Relative Humidity (%) for the week ending on 31.10.2022

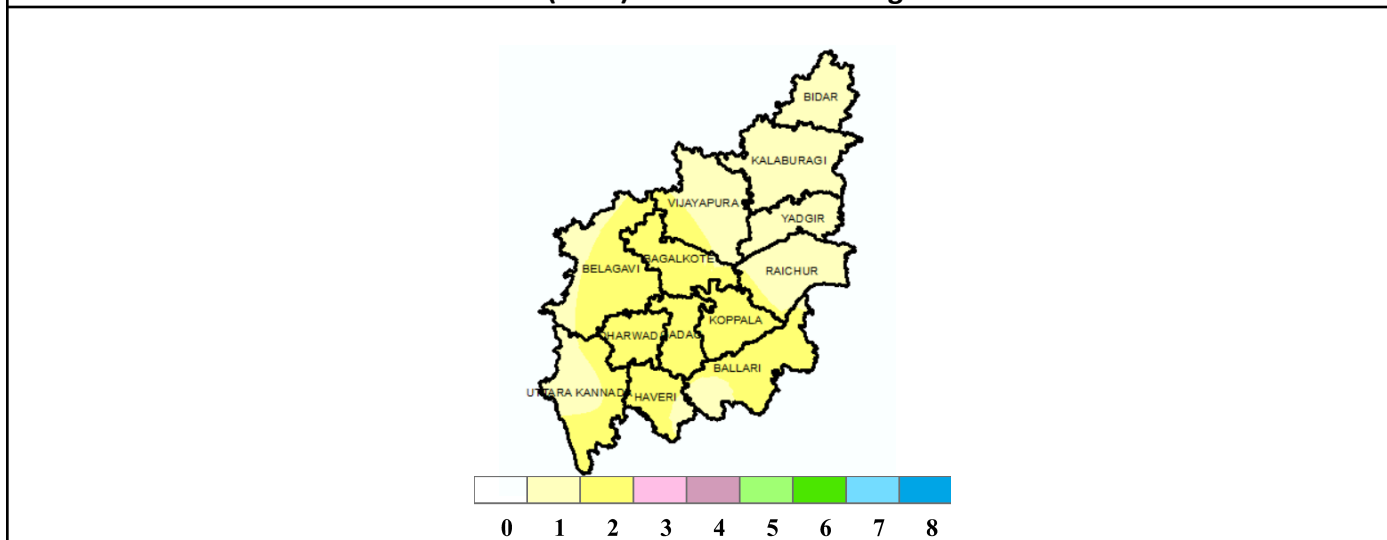


Mean Minimum Relative Humidity (%) for the week ending on 31.10.2022

Mean Wind Speed (km/hr) for the week ending on 31.10.2022



Mean Cloud Cover (Okta) for the week ending on 31.10.2022



* The maps have been prepared using available station data and interpolation techniques

WeatherForecast

Medium Range Weather forecast for Northern Karnataka districts issued on 01st November 2022, valid till 8.30 am of mentioned date.

District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Yadgiri	Rainfall (mm)	0	1	1	0	0
	Max. Temp (° c)	33	33	34	34	34
	Min. Temp (° c)	18	20	20	19	18
	RH Max (%)	51	53	53	53	53
	RH Min (%)	33	35	35	35	35
	Wind Speed(KMPH)	2	1	1	2	3
	Wind Dir (deg)	32	90	77	68	69
	Cloud cover (octa)	1	5	5	5	3
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Kalburgi	Rainfall (mm)	0	0	1	0	0
	Max. Temp (° c)	33	33	34	34	34
	Min. Temp (° c)	18	20	20	19	18
	RH Max (%)	51	53	53	53	53
	RH Min (%)	33	35	35	35	35

	Wind Speed(KMPH)	2	1	1	2	3
	Wind Dir (deg)	58	68	72	68	68
	Cloud cover (octa)	1	5	5	5	3
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Ballary	Rainfall (mm)	0	0	4	3	3
	Max. Temp (° c)	28	27	28	29	29
	Min. Temp (° c)	21	21	21	21	21
	RH Max (%)	90	92	92	92	92
	RH Min (%)	77	79	79	79	79
	Wind Speed(KMPH)	1	2	2	2	2
	Wind Dir (deg)	68	103	77	69	77
	Cloud cover (octa)	3	5	5	5	5
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Haveri	Rainfall (mm)	0	0	1	1	1
	Max. Temp (° c)	28	27	28	29	28
	Min. Temp (° c)	19	20	21	21	21
	RH Max (%)	73	75	75	75	75
	RH Min (%)	54	55	55	55	55
	Wind Speed (KMPH)	6	7	8	9	10
	Wind Dir (deg)	68	103	69	68	72
	Cloud cover (octa)	3	5	5	5	3
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Uttara Kannada	Rainfall (mm)	0	0	5	4	4
	Max. Temp (° c)	34	32	33	33	32
	Min. Temp (° c)	23	24	24	24	24
	RH Max (%)	89	89	91	91	91
	RH Min (%)	70	70	72	72	72
	Wind Speed (KMPH)	2	1	2	2	2
	Wind Dir (deg)	69	75	73	77	81
	Cloud cover (octa)	3	5	5	5	5

District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Dharwad	Rainfall (mm)	0	0	1	1	1
	Max. Temp (° c)	29	28	28	28	29
	Min. Temp (° c)	17	18	18	19	20
	RH Max (%)	66	68	68	68	68
	RH Min (%)	35	37	37	37	37
	Wind Speed(KMPH)	2	1	2	2	3
	Wind Dir (deg)	63	108	69	68	72
	Cloud cover (octa)	3	5	5	5	5
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Gadag	Rainfall (mm)	0	0	1	1	1
	Max. Temp (° c)	30	29	29	30	29
	Min. Temp (° c)	18	19	20	20	20
	RH Max (%)	59	61	61	61	61
	RH Min (%)	47	49	49	49	49

	Wind Speed(KMPH)	5	6	7	7	7
	Wind Dir (deg)	58	103	72	68	77
	Cloud cover (octa)	3	5	5	5	3
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Koppal	Rainfall (mm)	0	0	1	1	1
	Max. Temp (° c)	30	29	29	30	29
	Min. Temp (° c)	22	23	24	24	24
	RH Max (%)	63	65	65	65	65
	RH Min (%)	43	45	45	45	45
	Wind Speed(KMPH)	5	6	7	7	7
	Wind Dir (deg)	56	101	77	69	77
	Cloud cover (octa)	3	5	5	5	3
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Raichur	Rainfall (mm)	0	1	0	1	1
	Max. Temp (° c)	29	29	30	30	30
	Min. Temp (° c)	18	20	20	20	20
	RH Max (%)	62	64	64	64	64
	RH Min (%)	41	43	43	43	43
	Wind Speed (KMPH)	2	2	2	3	3
	Wind Dir (deg)	63	79	73	72	90
	Cloud cover (octa)	2	5	5	5	5
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Bidar	Rainfall (mm)	0	1	0	0	0
	Max. Temp (° c)	29	29	30	30	30
	Min. Temp (° c)	13	16	17	17	17
	RH Max (%)	50	52	52	52	52
	RH Min (%)	35	37	37	37	37
	Wind Speed (KMPH)	4	3	3	4	4
	Wind Dir (deg)	58	68	68	68	90
	Cloud cover (octa)	1	3	5	3	3

District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Vijayapura	Rainfall (mm)	0	0	0	0	0
	Max. Temp (° c)	30	29	29	30	30
	Min. Temp (° c)	16	17	17	17	18
	RH Max (%)	51	53	53	53	53
	RH Min (%)	33	35	35	35	35
	Wind Speed (KMPH)	7	6	7	8	8
	Wind Dir (deg)	68	90	77	68	69
	Cloud cover (octa)	1	3	5	5	3
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Bagalokote	Rainfall (mm)	0	0	1	0	0
	Max. Temp (° c)	29	28	28	30	29
	Min. Temp (° c)	15	16	17	17	17
	RH Max (%)	61	63	63	63	63
	RH Min (%)	42	44	44	44	44

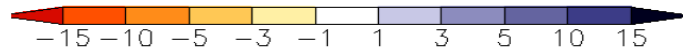
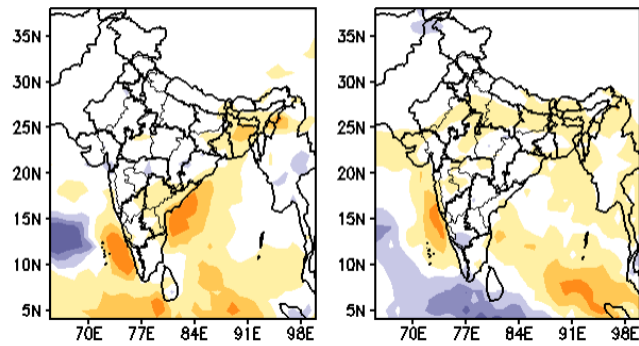
	Wind Speed (KMPH)	2	1	1	2	3
	Wind Dir (deg)	68	103	77	68	77
	Cloud cover (octa)	3	5	5	5	5
District		01.11.2022	02.11.2022	03.11.2022	04.11.2022	05.11.2022
Belagavi	Rainfall (mm)	0	0	0	1	1
	Max. Temp (° c)	29	28	29	29	29
	Min. Temp (° c)	17	18	18	18	19
	RH Max (%)	59	59	61	59	59
	RH Min (%)	35	35	37	35	35
	Wind Speed (KMPH)	10	9	10	11	12
	Wind Dir (deg)	68	108	69	68	69
	Cloud cover (octa)	3	3	5	5	5

Rainfall forecast for the week from 28th October to 10th November

Forecast Rainfall Anomaly (mm/day)

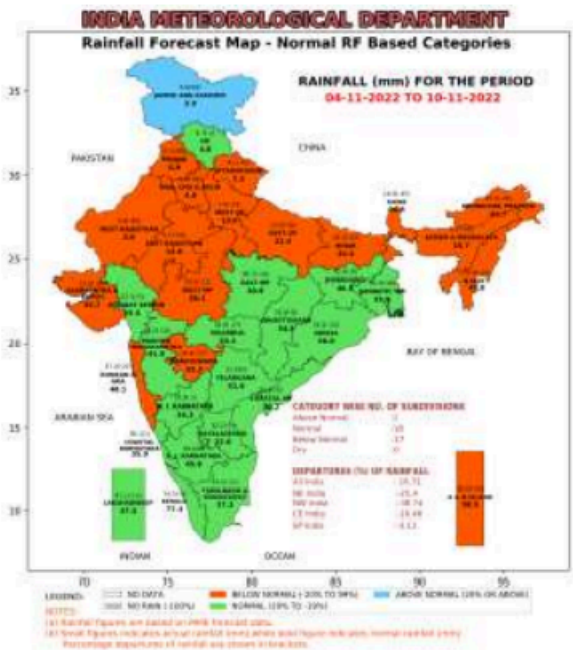
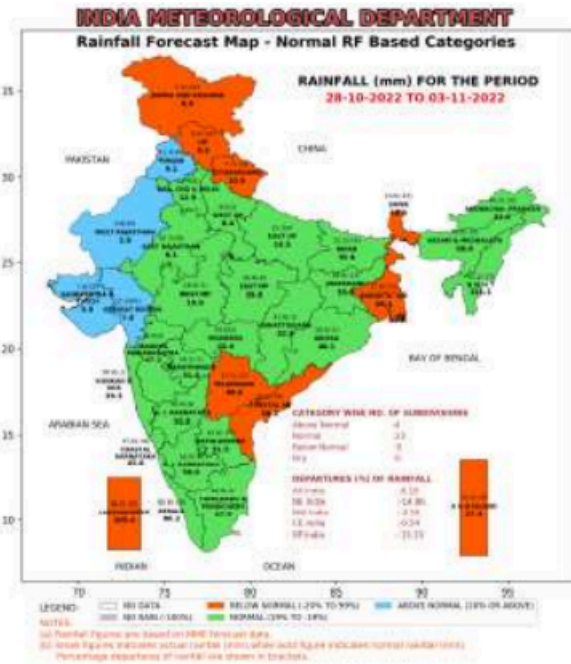
(Week1: 28Oct-03Nov)

(Week2: 04Nov-10Nov)



Extended Range Forecast System

Rainfall forecast map for the next week
(28th October to 10th November)



During Week 1 (28th October to 03rd October 2022): Rainfall anomaly is expected to be slightly below normal over most of the interior parts of North Interior Karnataka.

During Week 2 (04th October 2022 to 10th November 2022): Rainfall is expected to be normal over rest of North Interior Karnataka.

Important advisory for major crops in North Karnataka region

(Compiled from the Agromet advisory bulletins of AMFU and DAMUs of North Karnataka region)

Pigeonpea

- To manage Sterility mosaic virus Rouging out infected plants up to 40 days after sowing Spraying with Fenazaquin @ 1 ml/ litre + 5 g 19 all per litre. soon after appearance of the disease and if necessary repeat the after 15days
- To manage Pod borer insect in pigeon pea,
 - Erect the branched wooden branches in the field so as to facilitate the birds to sit on it.
 - Install 2 pheromone traps per one acre for monitoring. If more than 8-10 moths are found per trap / night or two eggs or one larva/ plant are found on the flowering stage then take up control measures. spraying of ovicidal insecticide Prophenophas 50 EC @2 ml/lit. If more than one larvae are found per plant- shake the plant vigorously- collect the larvae fallen on the ground and kill them. Remove the grown up larvae by handpicking and kill.
 - As second spray, spray the crop with 5 percent neem seed extract or 0.5 per cent chilli extract. Neem based insecticide at the rate of 2 ml/lit.

Cotton

- To reduce the incidence of pink Boll worm, take up spraying of 5 % Neem origin insecticide @ 4-5 ml/lit before flowering. Install pheromone traps/acre. Spray 100 days earlier crop with 2 ml Prophenophos 50 EC or 1 ml Spinotoram 12 SC or 2 ml Quinalphos in one liter of water. If the crop is more than 100 days old, depending on the necessity spray the crop with 0.5 ml Cypermethrin or 0.5 ml decamethrin.
- 5% of neem seed oil or neem based insecticides or 0.3 g plonicamid 50 WDG or 0.3 g/ dinotefuran 20% S. G. or 1 ml acetameprid 20 SP /litre of water (160-200 lit / acre).
- To control dropping of square and flowers take up spraying of Planofix @ 0.25 ml per liter of water. Use 325-400 liter spray solution per acre.

Sugarcane

- Do not burn the trash. Spread the trash in between the rows and apply 20 Kg Urea and 20 Kg Super Phosphate fertilizer per acre on the trash. After this apply 2.5 Kg of trash decomposing bacteria mixed in dung slurry on the trash. This will facilitate early decomposing of trash.

Sunflower

- To manage powdery mildew disease, take up spraying of 1 ml Difenconazole dissolved in one liter of water. Repeat the same spray after 15 days.

Maize

- Spray 1g Carbendazim per litre of water for controlling banded leaf and sheath blight disease in maize.
- For controlling fall army worm, install 10 pheromone traps per hectare and spray 0.3 g Emamectin benzoate 5 SG per litre of water.

HORTICULTURE CROPS

Brinjal

- To manage branch cutting and fruit borer in Brinjal, remove the infested branch along with the larva and burn. spray the crop with Quinalphos 2 ml dissolved in one liter of water. Repeat the same spray at 15 days interval.

Tomato

- To manage leaf curl disease, take up spraying of 1 ml Acetamaprid dissolved in 4 liter of water. Remove and destruction of infected plants.
- To manage sucking pests take up spraying of 1.75 ml Dimethoate dissolved in one liter of water.
- To manage Alternaria leaf spot, take up spraying of 1 ml Hexaconazole or 1 ml Difenconazole. dissolved in one liter of water.

Onion

- To manage purple blotch disease and thrips, take up spraying of 1.0 ml Hexaconazole + 0.25 ml Acetamaprid dissolved in one liter of water.
- To avoid bending of leaf, take up spraying 2 gram Carbendazim + 0.25 gram + Thiamethoxam + 5 gram KNO₃ + micronutrient mixture dissolved in one liter of water.

Chilli

- To manage fruit rot take up spraying Spray Rynaxypyr 20 EC @ 0.25ml/lit or spinosad 45SC @ 0.12 ml/lit or chlorpyrifos 20 EC @2.5ml/lit of water.

Arecanut

- ❑ The strong and better areca nut seedlings from primary seed bed can be transferred to secondary seed bed.
- ❑ As a precautionary measure advised the farmers to take up the spray 1% Bordeaux mixture solution against koleroga.
- ❑ Clear drainage channels to remove excess water.

Grapes

- ❑ cloudy conditions will prevail in most of the areas of the district, one preventive spray of Thiophenate methyl/carbendazim@1g/L should be given for anthracnose control.
- ❑ Trichoderma application through drip should be continued. If in early sprouting stage one spray of copper oxychloride or copper hydroxide may be given @1.5- 2g/l.
- ❑ Spraying of imidacloprid 17.8 SL @ 0.4 ml per litre water will help in controlling mealybug on new growth.
- ❑ Removal of old infected material especially of anthracnose is a must to prevent fresh infection.
- ❑ During fruit bud differentiation stage Provide irrigation through surface drip @ 3000 to 4500 L/acre per day.
- ❑ In majority of the grape vineyard, swelling of nodes, bulging of shoot is observed. To manage this, apply nitrogenous fertilizers and provide sufficient irrigation to encourage the vegetative growth.

Pomegranate

- ❑ To manage Bacterial blight disease pomegranate, spray the crop with Streptomycin Sulphate 0.5 g. + Copper oxy-chloride @ 2 g. in one liter water. Followed by spraying of micro nutrients viz., 1 g. Zinc Sulphate + 1 g. Magnesium Sulphate + 1 g. Barax + 1 g. Calcium dissolved in one liter of water.
- ❑ To manage Anthracnose take up spraying of 2 gram Chlorothalonil or 1 ml difenconazole in one liter of water.
- ❑ To manage sucking pests in pomegranate , take up spraying of 0.3 ml Imidacloprid or 0.25 ml + Thiamethoxam in one liter of water.

Animal Husbandry

Cows/Buffalos

- ❑ Buffalo Vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and aemorrhagic Septcaemia.
- ❑ Lumpy skin disease Vaccinate livestock against lumpy skin disease (Goat pox vaccine)

- Prevent biting insects APPLLY PASTE OF - Neem oil 500ml + tulasi leaves 50gms+ neem leaves 50gms+ turmeric 50gms + 10 pieces garlic + mehandi leaves.

Sheep/Goat

- . Vaccinate (ET vaccine) sheep and goats against Enterotoximia

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