

**Agromet Advisory Bulletin for Virudhunagar, Tirunelveli & Thoothukudi district****Bulletin No. 57/2021 Issued on 16.07.2021****(From 17th July 2021 to 21th July 2021)**(Issued jointly by AAS Unit, Agricultural Research Station, Kovilpatti, Tamil Nadu
Agricultural University & India Meteorological Department)

Past week summary (09.07.2021 to 12.07.2021)

**Weather Summary for the period since the issue of last bulletin 56 (13.07.2021) for Tamil Nadu.**

Maximum temperature ranged from 29°C to 38°C and minimum temperature ranged from 21°C to 28°C, over the State. Kodaikanal and Uthagamandalam recorded maximum temperature ranged from 14°C to 15°C and minimum temperature ranged from 9°C to 12°C during this period widespread rainfall (very light) was recorded in Tamil Nadu.

Past week weather Summary			Weather parameters	Ensemble weather forecast valid until 08:30 hrs of 21.07.2021				
13.07.21	14.07.21	15.07.21		Day 1 17.07.2021	Day 2 18.07.2021	Day 3 19.07.2021	Day 4 20.07.2021	Day 5 21.07.2021
Virudhunagar district								
0.0	0.0	0.4	Rainfall (mm)	6	0	4	0	0
36	36	36	Max. Temperature (oC)	35	35	35	36	36
26	25	27	Min. Temperature (oC)	25	25	25	26	26
5	5	7	Cloud cover (Octa)	7	7	7	7	7
62-54	60-52	70-57	Relative humidity I-II (%)	90-50	90-50	90-50	85-50	85-50
7/W	15/W	7/W	Wind (kmph) (dd)	8/W	8/W	8/W	10/W	10/W
Tirunelveli district								
0.0	0.0	0.6	Rainfall (mm)	4	2	4	2	0
35	35	35	Max. Temperature (oC)	35	35	35	35	35
25	24	24	Min. Temperature (oC)	25	25	25	26	26
3	3	6	Cloud cover (Octa)	7	7	7	7	7
64-43	61-44	66-42	Relative humidity I-II (%)	90-55	90-55	90-55	90-55	90-55
3/NW	0/NW	2/NW	Wind (kmph) (dd)	10/W	10/W	10/W	15/W	15/W
Thoothukudi district								
0.0	0.0	0.1	Rainfall (mm)	10	2	5	0	0
36	37	36	Max. Temperature (oC)	36	36	36	36	36
27	27	27	Min. Temperature (oC)	26	27	26	27	27
6	6	7	Cloud cover (Octa)	7	7	7	7	7
74-62	71-82	83-59	Relative humidity I-II (%)	90-55	90-55	90-55	90-55	90-55
17/W	12/W	12/Ws	Wind (kmph) (dd)	10/W	10/W	20/W	20/W	20/W

Weather forecast for next five days: 17.07.2021 to 21.07.2021

According to district forecast issued by the India Meteorological Department for Virudhunagar, Tirunelveli & Thoothukudi district, very high cloud cover. Light rainfall is predicted on Day 1 (17.07.2021) and Day 3 (19.07.2021) for Virudhunagar district, light to moderate rainfall is predicted for the period of 17.07.2021 to 20.07.2021 to Tirunelveli district and very light to moderate rainfall is predicted on 17.07.2021 to 19.07.2021 for Thoothukudi district (8:30hrs.). Maximum temperature is expected to be around 35°C to 36°C. Minimum temperature is expected to be around 25°C to 27°C. Morning relative humidity is expected to be around 85-90 percent and evening relative humidity is expected to be around 50-55 per cent. 24-hour wind speed is expected to be around 8-20 km per hour and the wind direction will be from West direction.

Virudhunagar District

Crop/ Ecosystem	Stage / Activities	Advisories
Weather		<input type="checkbox"/> Light to moderate rain is likely to occur at a few places on Day 3 (18.07.2021). <input type="checkbox"/> 8-22 km/hr. of wind speed is predicted for block level.
Irrigated crops	Water management	Rainfall is expected for next three days, postponed the irrigation. However, if the crop is under stress condition, irrigate the crop.
Plant protection		As the relative humidity is predicted to be high, disease incidence may emergence. So, farmers are advised to go for plant protection measures according to the crop after consulting with the Agricultural scientist.
Dry land cultivation	Crop residue recycling	In order to improve the soil quality recycles the residues of harvested crops of maize, sorghum and pulses. Use rotovator or rotoslasher for cutting the residues into small pieces and incorporate them into the soil.

Onion		Larval damage in onion: Spray chlorpyrifos 20EC @ 1.5 ml/ Lt of water.
Livestock protection	Cattle	<p>Foot and Mouth Disease: Highly contagious viral disease of cattle, sheep, goat and pigs. Affected animals may exhibit the following symptoms. 1.Fever,2. Loss of appetite, 3. Drop in milk Yield 4. Blisters in foot & mouth, 5. Excessive salivation 6. Lameness.</p> <p>Treatment:</p> <ol style="list-style-type: none"> 1. Isolation of affected animals 2. Antibiotic therapy to counteract secondary bacterial infections. 3. Rice gruel can be given to the affected animals. 4. The wounds should be washed with 1% KMNO₄. <p>Solution followed by the application of Boric acid and glycerin paste.</p> <p>Prevention:</p> <ol style="list-style-type: none"> 1. Regular vaccination can protect the animals from the disease. 2. Strict Bio-security measures should be followed.
	Poultry	<p>Ranikhet Disease: viral disease of poultry affecting all ages of domestic fowl characterized by the rapid onset, respiratory signs, nervous signs and high mortality. The virus spread mainly through aerosol route and by Ingestion of contaminated feed and water.</p> <p>Prevention: Periodical vaccination should be followed. Poultry farmers can vaccinate their birds at nearby veterinary Dispensary where vaccination programme for Rainkhet disease in being carried out on every Saturday.</p>
	Goat	<p>PPR - Peste - des - petits Ruminants.</p> <ol style="list-style-type: none"> i. Highly contagious viral disease of goats causes high mortality. ii. Affected animals will have high fever, loss of appetite, foul smelling diarrhoea and discharge from eyes & Nose. <p>Prevention & control measures:</p> <ol style="list-style-type: none"> i. Regular vaccination can prevent the occurrence of the disease. ii. vaccination should be done to the kids above 3 months and should be repeated every year. iii. Affected animals should be treated separately. iv. wash the oral lesions with 1% KMNO₄ solution V. Give soft feeds like Rice or Ragi gruel to the affected animals. Vi. Strict bio- security measure should be followed. vii. Animal's shed should be regularly disinfected with bleaching powder.

SMS: Rain: 17 & 19.07.2021 - 6 & 4 mm. Based on the receipt of rainfall on particular location, Postpone the Irrigate. Onion - Larval damage: Spray chlorpyrifos 20EC @ 1.5 ml/ Lt of water.

Tirunelveli District

Crop/ Ecosystem	Stage / Activities	Advisories
Weather		<ul style="list-style-type: none"> <input type="checkbox"/> Thunderstorm with light to moderate rain is likely to occur at a few places on Day 1 (16.07.2021) and Day 2 (17.07.2021). <input type="checkbox"/> Thunderstorm with Heavy rain is likely to occur at isolated places on Day 3 (18.07.2021). <input type="checkbox"/> Light to moderate rain is likely to occur at isolated places on Day 4 (19.07.2021) and Day 5 (20.07.2021). <input type="checkbox"/> 14-30 km/hr. of wind speed is predicted for block level.
Irrigated crops	Water management	Rainfall is expected for next three days, postponed the irrigation. However, if the crop is under stress condition, irrigate the crop.
Plant protection		As the relative humidity is predicted to be high, disease incidence may emergence. So farmers are advised to go for plant protection measures according to the crop after consulting with the Agricultural scientist.
Rice	Tillering stage	<input type="checkbox"/> Prevailed weather is conducive for Leaf folder. So farmers are advised to spray Azadirachtin 0.03% 1000ml/ha. (or) Chlorotriniptrole 18.5%SC @ 150g/ha. (or) Thiamethoxam 25%

		WG @ 100g/ha. <input type="checkbox"/> In the prevailing weather condition sucking pest - Thrips occurrence is noticed. Symptoms- Leaf shows discoloration and rolling. Yellow (or) silvery streaks on the leaves of young seedlings. Terminal rolling and drying of leaves from tip to base. Spray Azadirachtin 0.15% W/W @1500-2500 g/ha. (or) Thiamethoxam 25% WG 100 g/ha.
Cotton	Vegetative stage	Prevailing weather is conducive for Apsids. To control spray Dimethoate 30 EC 500ml/ha (or) Azadirachtin 0.03% EC 500 ml/ha
Banana	Bunch development and harvest stage	High wind speed may damage the crop; hence farmers are requested to provide support to bunch (propping).
Dry land cultivation	Crop residue recycling	In order to improve the soil quality recycles the residues of harvested crops of maize, sorghum and pulses. Use rotovator or rotoslasher for cutting the residues into small pieces and incorporate them into the soil.

SMS: Rain: 17.07.2021 to 20.07.2021 - 4, 2, 4 & 2 mm. Postponed the irrigation. Cotton- Thrips - To control spray Dimethoate 30 EC 500ml/ha (or) Azadirachtin 0.03% EC 500 ml/ha.

Thoothukudi District

Crop/ Ecosystem	Stage / Activities	Advisories
Weather		<input type="checkbox"/> Thunderstorm with light to moderate rain is likely to occur at a few places on Day 1 (16.07.2021) and Day 2 (17.07.2021). <input type="checkbox"/> Light to moderate rain is likely to occur at a few places on Day 3 (18.07.2021). <input type="checkbox"/> 11-28 km/hr. of wind speed is predicted for block level.
Irrigated crops	Water management	Rainfall is expected for next three days, postponed the irrigation. However, if the crop is under stress condition, irrigate the crop.
Paddy	Vegetative to Tilling stage	<input type="checkbox"/> Prevailed weather is conducive for Leaf folder. So farmers are advised to spray Azadirachtin 0.03% 1000ml/ha. (or) Chlorontrinirole 18.5%SC @ 150g/ha. (or) Thiamethoxam 25% WG @ 100g/ha. <input type="checkbox"/> The prevailing weather condition is conducive for incidence of Stem borer. Spray Azadirachtin 0.03% 1000 ml/ha (or) Carbofuran% 3 G @25 kg/ha (or) Chlorantraniliprole 18.5% SC 150 ml/ha
Dry land cultivation	Crop residue recycling	In order to improve the soil quality recycles the residues of harvested crops of maize, sorghum and pulses. Use rotovator or rotoslasher for cutting the residues into small pieces and incorporate them into the soil.
Banana	Bunch development and harvest stage	High wind speed may damage the crop; hence farmers are requested to provide support to bunch (propping).

SMS: Rain: 17 to 19.07.2021- 10,2&5 mm. Based on the receipt of rainfall on particular location, irrigation may be provided. Paddy-Leaf folder spray Azadirachtin 0.03% 1000ml/ha. (or) Chlorontrinirole 18.5%SC @ 150g/ha.

Tamil Nadu		
Next five days	Weather Warning	<input type="checkbox"/> Thunderstorm with Heavy rain is likely to occur at isolated places over Theni, Nilgiris, Coimbatore, Salem Dharmapuri and Namakkal districts. Thunderstorm with light to moderate rain is likely to occur at a few places over western Ghat districts, Kanyakumari, some Interior districts and Coastal Tamil Nadu, Puducherry and Karaikal on Day 1 (16.07.2021). <input type="checkbox"/> Thunderstorm with Heavy rain is likely to occur at isolated places over Nilgiris, Coimbatore, Salem Dharmapuri, Namakkal, Perambalur and Ariyalur districts. Thunderstorm with light to moderate rain is likely to occur at a few places over western Ghat districts, Kanyakumari, some Interior districts and Coastal Tamil Nadu, Puducherry and Karaikal on Day 2 (17.07.2021). <input type="checkbox"/> Thunderstorm with Heavy rain is likely to occur at isolated places over Western Ghat districts. Light to moderate rain is

		likely to occur at a few places over rest Tamilnadu, Puducherry & Karaikal area on Day 3 (18.07.2021). □ Light to moderate rain is likely to occur at isolated places over Western Ghat districts and some interior districts. Probably dry weather likely over rest Tamilnadu on Day 4 (19.07.2021) and Day 5 (20.07.2021).
	Heavy Rainfall Warning :	Day 1(16.07.2021): Heavy rain is likely to occur at isolated places over Theni, Nilgiris, Coimbatore, Salem Dharmapuri and Namakkal districts. Day 2 (17.07.2021): Heavy rain is likely to occur at isolated places over Nilgiris, Coimbatore, Salem, Dharmapuri, Namakkal, Perambalur and Ariyalur districts.
	Thunderstorm Warning:	Day 1(16.07.2021) to Day 3(18.07.2021): Thunderstorm with lightning is likely to occur at isolated places over Tamilnadu.
Extended range of forecast		Week 1 (16.07.2021 to 22.07.2021) – rainfall is predicted above normal. Week 2 (23.07.2021 to 29.07.2021) – rainfall is predicted to be below normal.

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