

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Tamenglong

# Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

**0.1 mm** rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of  $18^{th}$  July, 19. Maximum temperature ranged from 30.0-35.0 °C and minimum of 20.2-22.0 °C. Mean relative humidity of 85.7 % max & 56.0 % min was recorded in the past three days & average wind speed was 1.8-3.4 km/hr.

# Weather forecast for Tamenglong (20<sup>th</sup> to 24<sup>th</sup> July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-32 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 79 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 19th July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		<ul> <li>Choose medium or late variety of rice.</li> <li>Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.</li> </ul>
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
			<ul><li>- Prune the disease infected twigs and burn them outside the farm area.</li><li>- Spray Copper oxychloride @ 3ml/lit to control fungal disease.</li></ul>
Early Cauliflower	Nursery to transplanting		<ul> <li>For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.</li> <li>Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot
			disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



E-mail: agromet\_mnp@yahoo.co.uk

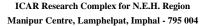
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



#### "Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit		
			of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk infection			
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		Management	- Provide wholesome water. Protection from high temp may be ensured.		
			- Electrolytes in the form of powder/ liquid may be given. Increase salt		
			level in feed.		
			- Protect animals from PICA (depraved appetite) by providing essential		
			body salts (mineral forte powder) 25g/day.		
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	months or	F 1 /	vitamins like Livozyme @ 50ml twice daily.		
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:			caused by mosquitoes/ tieks, etc.		
	Caadaaadaadiaa	Dand and Water	1 Western density about the amountained at 2.0 mg		
Carp culture	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
		reeu	splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery	1. Use only		eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
CIIIt		of water capacity)	5 in the factoring pools (1.0 1.2 infinitions of 0555/1.1 diameter, 0.70 in height and		
			aving optimum dissolved oxygen and PH level for hatching.		
5. Supply only good water quanty having optimum dissolved oxygen and 111 level for natening.					





"Gramin Krishi Mausam Seva"



## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Thoubal

# Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

0.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of 18th July, 19. Maximum temperature ranged from 30.0 - 35.0 °C and minimum of 20.2 - 22.0 °C. Mean relative humidity of 85.7 % max & 56.0 % min was recorded in the past three days & average wind speed was 1.8 - 3.4 km/ hr.

# Weather forecast for Thoubal (20<sup>th</sup> to 24<sup>th</sup> July, 2019):

E-mail: agromet\_mnp@yahoo.co.uk

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 30-34 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 72 % (min). The average wind speed may be 4-7 km/hr.

Date of issue: 19th July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		<ul> <li>Choose medium or late variety of rice.</li> <li>Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.</li> </ul>
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ 2g/kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			<u> </u>
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Litchi/ Tree bean			<ul><li>- Prune the disease infected twigs and burn them outside the farm area.</li><li>- Spray Copper oxychloride @ 3ml/lit to control fungal disease.</li></ul>
Early Cauliflower	Nursery to transplanting		<ul> <li>For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.</li> <li>Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Turmeric + French Bean	Rhizome formation in turmeric		<ul> <li>Sow short duration crop like Pant Anupam as intercrop with turmeric.</li> <li>Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.</li> </ul>
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



E-mail: agromet\_mnp@yahoo.co.uk

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



#### "Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit		
			of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk infection			
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		Management	- Provide wholesome water. Protection from high temp may be ensured.		
			- Electrolytes in the form of powder/ liquid may be given. Increase salt		
			level in feed.		
			- Protect animals from PICA (depraved appetite) by providing essential		
			body salts (mineral forte powder) 25g/day.		
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	months or	F 1 /	vitamins like Livozyme @ 50ml twice daily.		
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:			caused by mosquitoes/ tieks, etc.		
	Caadaaadaadiaa	Dand and Water	1 Western density about the amountained at 2.0 mg		
Carp culture	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
		reeu	splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery	1. Use only		eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
CIIIt		of water capacity)	5 in the factoring pools (1.0 1.2 initions of 0555/1.1 diameter, 0.70 in height and		
			aving optimum dissolved oxygen and PH level for hatching.		
5. Supply only good water quanty having optimum dissolved oxygen and 111 level for natening.					



none: 2414654, 2414260, 2414749 ; Fax : (038 ICAR Res

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Ukhrul

Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

**0.1 mm** rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of  $18^{th}$  July, 19. Maximum temperature ranged from  $30.0-35.0\ ^{o}\text{C}$  and minimum of  $20.2-22.0\ ^{o}\text{C}$ . Mean relative humidity of  $85.7\ \%$  max &  $56.0\ \%$  min was recorded in the past three days & average wind speed was  $1.8-3.4\ \text{km/hr}$ .

# Weather forecast for Ukhrul (20<sup>th</sup> to 24<sup>th</sup> July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-32  $^{\circ}$ C & mini. temp. 20-21  $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 85 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 19th July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field		- Choose medium or late variety of rice.
	preparation and		- Uproot the seedlings at 16-21 days after sowing. Transplant at a
	transplanting		spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @
		•	1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with	8	- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and
	drum seeder		level it. Drain out water 24 hrs before sowing. Use just pre-germinated
	0.0		seeds.
Kharif maize	Vegetative/ cob	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre
	initiation	Tun rumy wom	water.
Soybean/ Groundnut/	Sowing to		- Sowing may be done in upland fields. Treat seeds with Carbendazim @
Blackgram/ Rice Bean	Vegetative		2g/ kg seeds before sowing.
	, egetati ve		- For crops in vegetative stage, second hand weeding may be done nearly
			at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.
			- Avoid earthing up after 40 days of sowing in <i>groundnut</i> .
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing	nany caterpinars	- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Williet	Downing		- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
Seed Storage	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
	Wanagement		Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			Check for moisture content of weight of charcoar and dry if required.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with
Lemon/Papaya/	C		Bordeaux paste or Benlate.
Litchi/ Tree bean			- Prune the disease infected twigs and burn them outside the farm area.
			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to		- For nursery raising of early cauliflower in 10-15cm high beds under
	transplanting		temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery
	transpranting		bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early
			varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg
			DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric +	Rhizome formation		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
French Bean	in turmeric		- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot
Trenen Dean	III turmeric		disease.
Chilli	Fruiting to	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7
Cililii	harvesting	Andiraciose	to 10 days interval twice or thrice depending upon the incidence.
	nai vesting		to 10 days interval twice of tillice depending upon the incidence.



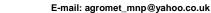
E-mail: agromet\_mnp@yahoo.co.uk

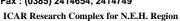
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



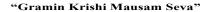
#### "Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit		
			of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk infection			
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		Management	- Provide wholesome water. Protection from high temp may be ensured.		
			- Electrolytes in the form of powder/ liquid may be given. Increase salt		
			level in feed.		
			- Protect animals from PICA (depraved appetite) by providing essential		
			body salts (mineral forte powder) 25g/day.		
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	months or	F 1 /	vitamins like Livozyme @ 50ml twice daily.		
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:			caused by mosquitoes/ tieks, etc.		
	Caadaaadaadiaa	Dand and Water	1 Western density about the amountained at 2.0 mg		
Carp culture	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
		reeu	splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery	1. Use only		eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
CIIIt		of water capacity)	5 in the factoring pools (1.0 1.2 initions of 0555/1.1 diameter, 0.70 in height and		
			aving optimum dissolved oxygen and PH level for hatching.		
5. Supply only good water quanty having optimum dissolved oxygen and 111 level for natening.					





Manipur Centre, Lamphelpat, Imphal - 795 004





### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Bishnupur

# Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

**0.1 mm** rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of  $18^{th}$  July, 19. Maximum temperature ranged from 30.0-35.0 °C and minimum of 20.2-22.0 °C. Mean relative humidity of 85.7 % max & 56.0 % min was recorded in the past three days & average wind speed was 1.8-3.4 km/hr.

# Weather forecast for Bishnupur (20<sup>th</sup> to 24<sup>th</sup> July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 33-35  $^{\circ}$ C & mini. temp. 20-21  $^{\circ}$ C. Relative humidity may reach upto 100 % (max) & 67 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 19th July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field		- Choose medium or late variety of rice.
	preparation and		- Uproot the seedlings at 16-21 days after sowing. Transplant at a
	transplanting		spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @
		•	1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with	8	- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and
	drum seeder		level it. Drain out water 24 hrs before sowing. Use just pre-germinated
	0.0		seeds.
Kharif maize	Vegetative/ cob	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre
	initiation	Tun rumy wom	water.
Soybean/ Groundnut/	Sowing to		- Sowing may be done in upland fields. Treat seeds with Carbendazim @
Blackgram/ Rice Bean	Vegetative		2g/ kg seeds before sowing.
	, egetati ve		- For crops in vegetative stage, second hand weeding may be done nearly
			at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.
			- Avoid earthing up after 40 days of sowing in <i>groundnut</i> .
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing	nany caterpinars	- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Williet	Downing		- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
Seed Storage	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
	Wanagement		Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			Check for moisture content of weight of charcoar and dry if required.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with
Lemon/Papaya/	C		Bordeaux paste or Benlate.
Litchi/ Tree bean			- Prune the disease infected twigs and burn them outside the farm area.
			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to		- For nursery raising of early cauliflower in 10-15cm high beds under
	transplanting		temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery
	transpranting		bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early
			varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg
			DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric +	Rhizome formation		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
French Bean	in turmeric		- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot
Trenen Dean	III turmeric		disease.
Chilli	Fruiting to	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7
Cililii	harvesting	Andiraciose	to 10 days interval twice or thrice depending upon the incidence.
	nai vesting		to 10 days interval twice of tillice depending upon the incidence.



E-mail: agromet\_mnp@yahoo.co.uk

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



#### "Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit		
			of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk infection			
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		Management	- Provide wholesome water. Protection from high temp may be ensured.		
			- Electrolytes in the form of powder/ liquid may be given. Increase salt		
			level in feed.		
			- Protect animals from PICA (depraved appetite) by providing essential		
			body salts (mineral forte powder) 25g/day.		
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	months or	F 1 /	vitamins like Livozyme @ 50ml twice daily.		
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:			caused by mosquitoes/ tieks, etc.		
	Caadaaadaadiaa	Dand and Water	1 Western density about the amountained at 2.0 mg		
Carp culture	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
		reeu	splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery	1. Use only		eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
CIIIt		of water capacity)	5 in the factoring pools (1.0 1.2 initions of 0555/1.1 diameter, 0.70 in height and		
			aving optimum dissolved oxygen and PH level for hatching.		
5. Supply only good water quanty having optimum dissolved oxygen and 111 level for natening.					



E-mail: agromet\_mnp@yahoo.co.uk



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Chandel

Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

**0.1 mm** rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of  $18^{th}$  July, 19. Maximum temperature ranged from  $30.0-35.0\ ^{o}\text{C}$  and minimum of  $20.2-22.0\ ^{o}\text{C}$ . Mean relative humidity of  $85.7\ \%$  max &  $56.0\ \%$  min was recorded in the past three days & average wind speed was  $1.8-3.4\ \text{km/hr}$ .

# Weather forecast for Chandel (20<sup>th</sup> to 24<sup>th</sup> July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 30-34  $^{\circ}$ C & mini. temp. 20-21  $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 64 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 19th July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		<ul> <li>Choose medium or late variety of rice.</li> <li>Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.</li> </ul>
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing	,	- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			· · · · · · · · · · · · · · · · · · ·
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	<ul><li>If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.</li><li>Prune the disease infected twigs and burn them outside the farm area.</li></ul>
Early Cauliflower	Nursery to transplanting		<ul> <li>Spray Copper oxychloride @ 3ml/lit to control fungal disease.</li> <li>For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.</li> <li>Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Turmeric + French Bean	Rhizome formation in turmeric		<ul> <li>Sow short duration crop like Pant Anupam as intercrop with turmeric.</li> <li>Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.</li> </ul>
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



E-mail: agromet\_mnp@yahoo.co.uk

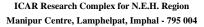
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



#### "Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit		
			of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk infection			
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		Management	- Provide wholesome water. Protection from high temp may be ensured.		
			- Electrolytes in the form of powder/ liquid may be given. Increase salt		
			level in feed.		
			- Protect animals from PICA (depraved appetite) by providing essential		
			body salts (mineral forte powder) 25g/day.		
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	months or	F 1 /	vitamins like Livozyme @ 50ml twice daily.		
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:			caused by mosquitoes/ tieks, etc.		
	Caadaaadaadiaa	Dand and Water	1 Western density about the amountained at 2.0 mg		
Carp culture	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
		reeu	splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery	1. Use only		eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
CIIIt		of water capacity)	5 in the factoring pools (1.0 1.2 initions of 0555/1.1 diameter, 0.70 in height and		
			aving optimum dissolved oxygen and PH level for hatching.		
5. Supply only good water quanty having optimum dissolved oxygen and 111 level for natening.					





"Gramin Krishi Mausam Seva"



### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Churachandpur

Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

0.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of 18th July, 19. Maximum temperature ranged from 30.0 - 35.0 °C and minimum of 20.2 - 22.0 °C. Mean relative humidity of 85.7 % max & 56.0 % min was recorded in the past three days & average wind speed was 1.8 - 3.4 km/ hr.

Weather forecast for Churachandpur (20th to 24th July, 2019):

Date of issue: 19th July, 2019

E-mail: agromet\_mnp@yahoo.co.uk

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 33-35 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 73 % (min). The average wind speed may be 3 km/hr.

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		<ul> <li>Choose medium or late variety of rice.</li> <li>Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.</li> </ul>
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing	,	- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			· · · · · · · · · · · · · · · · · · ·
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	<ul><li>If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.</li><li>Prune the disease infected twigs and burn them outside the farm area.</li></ul>
Early Cauliflower	Nursery to transplanting		<ul> <li>Spray Copper oxychloride @ 3ml/lit to control fungal disease.</li> <li>For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.</li> <li>Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Turmeric + French Bean	Rhizome formation in turmeric		<ul> <li>Sow short duration crop like Pant Anupam as intercrop with turmeric.</li> <li>Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.</li> </ul>
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



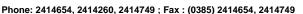
E-mail: agromet\_mnp@yahoo.co.uk

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



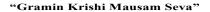
#### "Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit		
			of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk infection			
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		Management	- Provide wholesome water. Protection from high temp may be ensured.		
			- Electrolytes in the form of powder/ liquid may be given. Increase salt		
			level in feed.		
			- Protect animals from PICA (depraved appetite) by providing essential		
			body salts (mineral forte powder) 25g/day.		
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	months or	F 1 /	vitamins like Livozyme @ 50ml twice daily.		
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:			caused by mosquitoes/ tieks, etc.		
	Caadaaadaadiaa	Dand and Water	1 Western density about the amountained at 2.0 mg		
Carp culture	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
		reeu	splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery	1. Use only		eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
CIIIt		of water capacity)	5 in the factoring pools (1.0 1.2 infinitions of 0555/1.1 diameter, 0.70 in field and		
		only good water quality having optimum dissolved oxygen and PH level for hatching.			
5. Supply only good water quanty having optimum dissolved oxygen and 111 level for natening.					





ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal East

Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

**0.1 mm** rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of  $18^{th}$  July, 19. Maximum temperature ranged from 30.0-35.0 °C and minimum of 20.2-22.0 °C. Mean relative humidity of 85.7 % max & 56.0 % min was recorded in the past three days & average wind speed was 1.8-3.4 km/hr.

Weather forecast for Imphal East (20<sup>th</sup> to 24<sup>th</sup> July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 33-35  $^{\circ}$ C & mini. temp. 20-21  $^{\circ}$ C. Relative humidity may reach upto 97 % (max) & 84 % (min). The average wind speed may be 5-6 km/hr.

Date of issue: 19th July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field	1 est and disease	- Choose medium or late variety of rice.
	preparation and		- Uproot the seedlings at 16-21 days after sowing. Transplant at a
	transplanting		spacing of 20x10cm.
	transplanting	Theins	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @
		Thrips	
		D	1 ml/ litre water against Thrips.
		Bacterial Leaf	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Blight	
	Direct seeding with		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and
	drum seeder		level it. Drain out water 24 hrs before sowing. Use just pre-germinated
			seeds.
Kharif maize	Vegetative/ cob	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre
	initiation		water.
Soybean/ Groundnut/	Sowing to		- Sowing may be done in upland fields. Treat seeds with Carbendazim @
Blackgram/ Rice Bean	Vegetative		2g/ kg seeds before sowing.
	, egetati ve		- For crops in vegetative stage, second hand weeding may be done nearly
			at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.
			- Avoid earthing up after 40 days of sowing in <i>groundnut</i> .
		haims aatamillana	
3/(911.4	a ·	hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest		- For seed purpose store the seeds in RC-Seed Bin after proper drying
	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
			Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with
Lemon/Papaya/			Bordeaux paste or Benlate.
Litchi/ Tree bean			- Prune the disease infected twigs and burn them outside the farm area.
			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to		- For nursery raising of early cauliflower in 10-15cm high beds under
, , , , , , , , , , , , , , , , , , , ,	transplanting		temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery
	- F		bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early
			varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg
			DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
	DI: C .:		- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric +	Rhizome formation		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
French Bean	in turmeric		- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot
			disease.
Chilli	Fruiting to	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7
	harvesting		to 10 days interval twice or thrice depending upon the incidence.



E-mail: agromet\_mnp@yahoo.co.uk

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

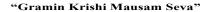


#### "Gramin Krishi Mausam Seva"

Animal Sciences				
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories	
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.	
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit	
			of water.	
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.	
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
	months of age	Endo/ Ecto parasite or sk infection		
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.	
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.	
	age	Ectoparasite		
		Management	- Provide wholesome water. Protection from high temp may be ensured.	
			- Electrolytes in the form of powder/ liquid may be given. Increase salt	
			level in feed.	
			- Protect animals from PICA (depraved appetite) by providing essential	
			body salts (mineral forte powder) 25g/day.	
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with	
	months or	F 1 /	vitamins like Livozyme @ 50ml twice daily.	
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
		Ectoparasite	accompanied with Livozyme @ 50ml daily.	
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease	
			caused by flies/ mosquitoes/ ticks, etc.	
Fishery:			caused by mosquitoes/ tieks, etc.	
	Caadaaadaadiaa	Dand and Water	1 Western density about the amountained at 2.0 mg	
Carp culture	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval	
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two	
		reeu	splits	
		Fish	Select fully matured male and female brood fish for induced breeding	
Hatchery	1. Use only clean hapas (if hapa breeding is done) and incubators			
Unit				
CIIIt		re of water capacity)		
		y only good water quality having optimum dissolved oxygen and PH level for hatching.		
5. Supply only good water quality naving optimum dissolved oxygen and 111 level for natelling.				



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal West

Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

**0.1 mm** rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of  $18^{th}$  July, 19. Maximum temperature ranged from 30.0-35.0 °C and minimum of 20.2-22.0 °C. Mean relative humidity of 85.7 % max & 56.0 % min was recorded in the past three days & average wind speed was 1.8-3.4 km/hr.

Weather forecast for Imphal West (20<sup>th</sup> to 24<sup>th</sup> July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 33-35 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 65 % (min). The average wind speed may be 4-5 km/hr.

Date of issue: 19th July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		<ul> <li>Choose medium or late variety of rice.</li> <li>Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.</li> </ul>
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	<ul><li>If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.</li><li>Prune the disease infected twigs and burn them outside the farm area.</li></ul>
	N		- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to transplanting		<ul> <li>For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.</li> <li>Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot
Chilli	Fruiting to harvesting	Anthracnose	disease.  - After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



E-mail: agromet\_mnp@yahoo.co.uk

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



#### "Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken/	All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit		
			of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking		
- T-1	11 2	G	purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk infection	, , , , , , , , , , , , , , , , , , ,		
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide		
			ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		Management	- Provide wholesome water. Protection from high temp may be ensured.		
			- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.		
			- Protect animals from PICA (depraved appetite) by providing essential		
			body salts (mineral forte powder) 25g/day.		
Goat All age groups		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
30.00	except three months or below	1 45010110515	vitamins like Livozyme @ 50ml twice daily.		
		Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be		
			carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:	Fishery:				
Carp culture S	eed production	Pond and Water	1.Water depth should be maintained at 2.0 m		
			2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
			splits		
		Fish Select fully matured male and female brood fish for induced breeding			
		clean hapas (if hapa breeding is done) and incubators			
Unit		nly recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and			
		1275 litre of water capacity)  2 Symply only good water quality having entireum dissolved avvisor and PII level for batching			
	<ol><li>Supply or</li></ol>	ly good water quality having optimum dissolved oxygen and PH level for hatching.			



one: 2414654, 2414260, 2414749 ; Fax : ( ICAR

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Senapati

# Past weather for the of Imphal West (16<sup>th</sup> to 18<sup>th</sup> July, 19):

**0.1 mm** rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy but clear during morning hours of  $18^{th}$  July, 19. Maximum temperature ranged from  $30.0-35.0~^{\circ}\text{C}$  and minimum of  $20.2-22.0~^{\circ}\text{C}$ . Mean relative humidity of  $85.7~^{\circ}\text{max}$  &  $56.0~^{\circ}\text{m}$  min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

# Weather forecast for Senapati (20<sup>th</sup> to 24<sup>th</sup> July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-31  $^{\circ}$ C & mini. temp. 20-21  $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 94 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 19th July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		<ul> <li>Choose medium or late variety of rice.</li> <li>Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.</li> </ul>
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1 ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing	,	- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			· · · · · · · · · · · · · · · · · · ·
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	<ul> <li>If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.</li> <li>Prune the disease infected twigs and burn them outside the farm area.</li> </ul>
Early Cauliflower	Nursery to transplanting		<ul> <li>Spray Copper oxychloride @ 3ml/lit to control fungal disease.</li> <li>For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.</li> <li>Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Turmeric + French Bean	Rhizome formation in turmeric		<ul> <li>Sow short duration crop like Pant Anupam as intercrop with turmeric.</li> <li>Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.</li> </ul>
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



E-mail: agromet\_mnp@yahoo.co.uk

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



#### "Gramin Krishi Mausam Seva"

Animal Sciences				
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories	
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.	
Duck)	susceptible		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit	
			of water.	
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.	
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
	months of age	Endo/ Ecto parasite or sk infection		
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.	
	months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.	
	age	Ectoparasite		
		Management	- Provide wholesome water. Protection from high temp may be ensured.	
			- Electrolytes in the form of powder/ liquid may be given. Increase salt	
			level in feed.	
			- Protect animals from PICA (depraved appetite) by providing essential	
			body salts (mineral forte powder) 25g/day.	
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with	
	months or	F 1 /	vitamins like Livozyme @ 50ml twice daily.	
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
		Ectoparasite	accompanied with Livozyme @ 50ml daily.	
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease	
			caused by flies/ mosquitoes/ ticks, etc.	
Fishery:			caused by mosquitoes/ tieks, etc.	
	Caadaaadaadiaa	Dand and Water	1 Western density about the amountained at 2.0 mg	
Carp culture	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval	
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two	
		reeu	splits	
		Fish	Select fully matured male and female brood fish for induced breeding	
Hatchery	1. Use only clean hapas (if hapa breeding is done) and incubators			
Unit				
CIIIt		re of water capacity)		
		y only good water quality having optimum dissolved oxygen and PH level for hatching.		
5. Supply only good water quality naving optimum dissolved oxygen and 111 level for natelling.				