



"Gramin Krishi Mausam Seva"

MANIPUR AGROMET ADVISORY BULLETIN

District: Thoubal

Past weather for the of Imphal West (7th to 10th June, 19):

30.6 mm rainfall was observed during the past four days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from $28.0-32.0~^{\circ}\text{C}$ and minimum of $21.9-22.1~^{\circ}\text{C}$. Mean relative humidity of $87.5~^{\circ}\text{max}$ & $69.3~^{\circ}\text{min}$ was recorded in the past four days & average wind speed was $1.8-3.6~^{\circ}\text{km/hr}$.

Weather forecast for Thoubal (12th to 16th June, 2019):

Likely to have moderate rains at isolated places from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-32 °C & mini. temp. 21-22 °C. Relative humidity may reach upto 99 % (max) & 90 % (min). The average wind speed may be 4-6 km/hr.

Date of issue: 11th June, 2019

- 1. Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 2. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned may be done before rains.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to m field prepara and transplan	tion		 Maintain water level just to submerge the soil surface and expose the green aerial sprouts in nursery plot. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started.
				Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Maturity to harvesting			- Harvest mature crops before rains.
Summer maize	Vegetative			- Weeding may be done before rains.
			Stem Borer	- Before rains, apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative			Weeding and thinning may be done before rains.Avoid leaf eating caterpillars.
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
Colocasia	Vegetative			- Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative		Leaf Spot	- Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting			- Harvest mature crops before rains. Avoid fruits from touching soil.- Avoid water logging.
Cucurbits	Flowering to fruiting and			Construct proper staking system to avoid fruits from touching soil.Harvest mature crops before rains.
	harvesting		Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean/ Bhindi	Flowering ar fruiting to harvesting	ıd		 Weeding may be done before rains to avoid insect pest infestation. Harvest mature crops and retain healthy disease free fruits for seeds.
Animal Sciences				
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All			- Provide clean drinking water during rainy days.
Duck)	susceptible age groups	Endopa		- De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Manag	ement	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



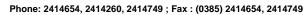
E-mail: agromet_mnp@yahoo.co.uk

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



"Gramin Krishi Mausam Seva"

Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
~	age	251	
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight
	age		or 20-30ml for 100 kg body weight.
			- 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
	except three		vitamins like Livozyme @ 50ml twice daily.
	months or	Management	- Fly repellent must be used. Disinfection of farm and primises are to be
	below		carried out strictly. Due care need to be taken to prevent spread of
			disease caused by flies/ mosquitoes/ ticks, etc.
Fisherv			
Type of Farming	Stage	Field	Agro-metrological advisories
	Stage Nurseries/	Field Water management	Maintain minimum depth of 1.5 m.
Type of Farming		Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
Type of Farming	Nurseries/		Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day.
Type of Farming	Nurseries/	Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and
Type of Farming	Nurseries/	Water management Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water.
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Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
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Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
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MANIPUR AGROMET ADVISORY BULLETIN

District: Ukhrul

Past weather for the of Imphal West (7th to 10th June, 19):

30.6 mm rainfall was observed during the past four days. The skies

remained partly cloudy to mainly cloudy. Maximum temperature ranged from $28.0-32.0~^{\circ}\text{C}$ and minimum of $21.9-22.1~^{\circ}\text{C}$. Mean relative humidity of $87.5~^{\circ}\text{max}$ & $69.3~^{\circ}\text{min}$ was recorded in the past four days & average wind speed was $1.8-3.6~^{\circ}\text{km/hr}$.

Weather forecast for Ukhrul (12th to 16th June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-32 °C & mini. temp. 21-22 °C. Relative humidity may reach upto 99 % (max) & 86 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 11th June, 2019

- 1. Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 2. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned may be done before rains.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to m field prepara and transplar	tion		 Maintain water level just to submerge the soil surface and expose the green aerial sprouts in nursery plot. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Maturity to harvesting			- Harvest mature crops before rains.
Summer maize	Vegetative		Stem Borer	 - Weeding may be done before rains. - Before rains , apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative			Weeding and thinning may be done before rains.Avoid leaf eating caterpillars.
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
Colocasia	Vegetative			- Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative		Leaf Spot	- Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting			 Harvest mature crops before rains. Avoid fruits from touching soil. Avoid water logging.
Cucurbits	Flowering to fruiting and			Construct proper staking system to avoid fruits from touching soil.Harvest mature crops before rains.
	harvesting		Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean/ Bhindi	Flowering and fruiting to harvesting			 Weeding may be done before rains to avoid insect pest infestation. Harvest mature crops and retain healthy disease free fruits for seeds.
Animal Sciences				
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All			- Provide clean drinking water during rainy days.
	susceptible age groups	Endopa	arasites	- De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
	•	Manag	ement	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



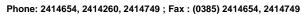
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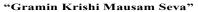
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	months of	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
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Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight
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			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
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District: Bishnupur

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Weather forecast for Bishnupur (12th to 16th June, 2019):

E-mail: agromet_mnp@yahoo.co.uk

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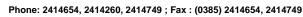
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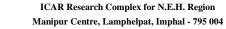
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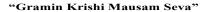


"Gramin Krishi Mausam Seva"

Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
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Type of Farming	Nurseries/	Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and
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Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water.
Type of Farming	Nurseries/	Water management Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg
Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp. Hatching can be done in traditional hapas having outer & inner hapas or
Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.









MANIPUR AGROMET ADVISORY BULLETIN

District: Chandel

Past weather for the of Imphal West (7th to 10th June, 19):

30.6 mm rainfall was observed during the past four days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 28.0 - 32.0 °C and minimum of 21.9-22.1 °C. Mean relative humidity of 87.5 % max & 69.3 % min was recorded in the past four days & average wind speed was 1.8 - 3.6 km/ hr.

Weather forecast for Chandel (12th to 16th June, 2019):

Likely to have moderate rains at isolated places from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-32 °C & mini. temp. 21-22 °C. Relative humidity may reach upto 98 % (max) & 82 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 11th June, 2019

- 1. Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 2. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned may be done before rains.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to m field prepara and transplan	tion		 Maintain water level just to submerge the soil surface and expose the green aerial sprouts in nursery plot. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started.
				Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Maturity to harvesting			- Harvest mature crops before rains.
Summer maize	Vegetative			- Weeding may be done before rains.
			Stem Borer	- Before rains, apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative			Weeding and thinning may be done before rains.Avoid leaf eating caterpillars.
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
Colocasia	Vegetative			- Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative		Leaf Spot	- Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting			- Harvest mature crops before rains. Avoid fruits from touching soil.- Avoid water logging.
Cucurbits	Flowering to fruiting and			Construct proper staking system to avoid fruits from touching soil.Harvest mature crops before rains.
	harvesting		Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean/ Bhindi	Flowering ar fruiting to harvesting	ıd		 Weeding may be done before rains to avoid insect pest infestation. Harvest mature crops and retain healthy disease free fruits for seeds.
Animal Sciences				
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All			- Provide clean drinking water during rainy days.
Duck)	susceptible age groups	Endopa		- De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Manag	ement	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



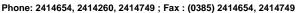
E-mail: agromet_mnp@yahoo.co.uk

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



"Gramin Krishi Mausam Seva"

Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
~	age	251	
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight
	age		or 20-30ml for 100 kg body weight.
			- 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
	except three		vitamins like Livozyme @ 50ml twice daily.
	months or	Management	- Fly repellent must be used. Disinfection of farm and primises are to be
	below		carried out strictly. Due care need to be taken to prevent spread of
			disease caused by flies/ mosquitoes/ ticks, etc.
Fisherv			
Type of Farming	Stage	Field	Agro-metrological advisories
	Stage Nurseries/	Field Water management	Maintain minimum depth of 1.5 m.
Type of Farming		Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
Type of Farming	Nurseries/		Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day.
Type of Farming	Nurseries/	Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and
Type of Farming	Nurseries/	Water management Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water.
Type of Farming	Nurseries/	Water management Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg
Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp. Hatching can be done in traditional hapas having outer & inner hapas or
Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.







MANIPUR AGROMET ADVISORY BULLETIN

District: Churachandpur

Past weather for the of Imphal West (7th to 10th June, 19):

30.6 mm rainfall was observed during the past four days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 28.0 – 32.0 °C and minimum of 21.9-22.1 °C. Mean relative humidity of 87.5 % max & 69.3 % min was recorded in the past four days & average wind speed was 1.8 - 3.6 km/hr.

Weather forecast for Churachandpur (12th to 16th June, 2019):

E-mail: agromet_mnp@yahoo.co.uk

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-32 °C & mini. temp. 21-22 °C. Relative humidity may reach upto 99 % (max) & 81 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 11th June, 2019

- 1. Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 2. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned may be done before rains.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to m			- Maintain water level just to submerge the soil surface and expose the
	field prepara			green aerial sprouts in nursery plot. Drain out excess water if
	and transplan	nting		accumulated due to rains.
				- Land preparation for transplanting of rice seedlings may be started.
				Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
				of final leveling.
				- Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Maturity to			- Harvest mature crops before rains.
	harvesting			
Summer maize	Vegetative			- Weeding may be done before rains.
			Stem Borer	- Before rains, apply few granules of Carbofuran 3G in whorl of plant
				against stem borer.
Soybean/ Groundnut/	Vegetative			- Weeding and thinning may be done before rains.
Blackgram/ Rice Bean				- Avoid leaf eating caterpillars.
Seed storage	Post-harvest			- For seed purpose store the seeds in <i>RC-Seed Bin</i> 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
Colocasia	Vegetative			- Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days
				interval against Alternaria leaf spot before rains.
Turmeric	Vegetative		Leaf Spot	- Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water
				against Leaf Spot before rains.
Tomato	Fruiting to			- Harvest mature crops before rains. Avoid fruits from touching soil.
	harvesting			- Avoid water logging.
Cucurbits	Flowering to			- Construct proper staking system to avoid fruits from touching soil.
	fruiting and			- Harvest mature crops before rains.
	harvesting		Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
				ml / litre of water.
French Bean/	Flowering ar	nd		- Weeding may be done before rains to avoid insect pest infestation.
Bhindi	fruiting to			- Harvest mature crops and retain healthy disease free fruits for seeds.
	harvesting			
Animal Sciences				
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All			- Provide clean drinking water during rainy days.
Duck)	susceptible	Endopa	arasites	- De-worm using Levamizole Hydrochloride. Potash granules may be
	age groups			added in the drinking water of poultry.
		Manage	ement	- To prevent protozoan, bacterial, fungal diseases, litter should be kept
				dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft.
				area in litter material.



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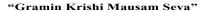
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
~	age	251	
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight
	age		or 20-30ml for 100 kg body weight.
			- 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
	except three		vitamins like Livozyme @ 50ml twice daily.
	months or	Management	- Fly repellent must be used. Disinfection of farm and primises are to be
	below		carried out strictly. Due care need to be taken to prevent spread of
			disease caused by flies/ mosquitoes/ ticks, etc.
Fisherv			
Type of Farming	Stage	Field	Agro-metrological advisories
	Stage Nurseries/	Field Water management	Maintain minimum depth of 1.5 m.
Type of Farming		Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
Type of Farming	Nurseries/		Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day.
Type of Farming	Nurseries/	Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and
Type of Farming	Nurseries/	Water management Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water.
Type of Farming	Nurseries/	Water management Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg
Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp. Hatching can be done in traditional hapas having outer & inner hapas or
Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.







MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal East

Past weather for the of Imphal West (7th to 10th June, 19):

30.6 mm rainfall was observed during the past four days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 28.0 – 32.0 °C and minimum of 21.9-22.1 °C. Mean relative humidity of 87.5 % max & 69.3 % min was recorded in the past four days & average wind speed was 1.8 – 3.6 km/ hr.

Weather forecast for Imphal East (12th to 16th June, 2019):

E-mail: agromet_mnp@yahoo.co.uk

Likely to have moderate rains at isolated places from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-32 °C & mini. temp. 21-22 °C. Relative humidity may reach upto 97 % (max) & 65 % (min). The average wind speed may be 4-6 km/hr.

Date of issue: 11th June, 2019

- 1. Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 2. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned may be done before rains.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to m			- Maintain water level just to submerge the soil surface and expose the
	field prepara			green aerial sprouts in nursery plot. Drain out excess water if
	and transplan	nting		accumulated due to rains.
				- Land preparation for transplanting of rice seedlings may be started.
				Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
				of final leveling.
				- Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Maturity to			- Harvest mature crops before rains.
	harvesting			
Summer maize	Vegetative			- Weeding may be done before rains.
			Stem Borer	- Before rains, apply few granules of Carbofuran 3G in whorl of plant
				against stem borer.
Soybean/ Groundnut/	Vegetative			- Weeding and thinning may be done before rains.
Blackgram/ Rice Bean				- Avoid leaf eating caterpillars.
Seed storage	Post-harvest			- For seed purpose store the seeds in <i>RC-Seed Bin</i> 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
Colocasia	Vegetative			- Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days
				interval against Alternaria leaf spot before rains.
Turmeric	Vegetative		Leaf Spot	- Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water
				against Leaf Spot before rains.
Tomato	Fruiting to			- Harvest mature crops before rains. Avoid fruits from touching soil.
	harvesting			- Avoid water logging.
Cucurbits	Flowering to			- Construct proper staking system to avoid fruits from touching soil.
	fruiting and			- Harvest mature crops before rains.
	harvesting		Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
				ml / litre of water.
French Bean/	Flowering ar	nd		- Weeding may be done before rains to avoid insect pest infestation.
Bhindi	fruiting to			- Harvest mature crops and retain healthy disease free fruits for seeds.
	harvesting			
Animal Sciences				
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All			- Provide clean drinking water during rainy days.
Duck)	susceptible	Endopa	arasites	- De-worm using Levamizole Hydrochloride. Potash granules may be
	age groups			added in the drinking water of poultry.
		Manage	ement	- To prevent protozoan, bacterial, fungal diseases, litter should be kept
				dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft.
				area in litter material.



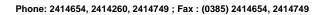
E-mail: agromet_mnp@yahoo.co.uk

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

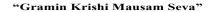


"Gramin Krishi Mausam Seva"

Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
~	age	251	
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight
	age		or 20-30ml for 100 kg body weight.
			- 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
	except three		vitamins like Livozyme @ 50ml twice daily.
	months or	Management	- Fly repellent must be used. Disinfection of farm and primises are to be
	below		carried out strictly. Due care need to be taken to prevent spread of
			disease caused by flies/ mosquitoes/ ticks, etc.
Fisherv			
Type of Farming	Stage	Field	Agro-metrological advisories
	Stage Nurseries/	Field Water management	Maintain minimum depth of 1.5 m.
Type of Farming		Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
Type of Farming	Nurseries/		Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day.
Type of Farming	Nurseries/	Water management	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and
Type of Farming	Nurseries/	Water management Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water.
Type of Farming	Nurseries/	Water management Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg
Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
Type of Farming	Nurseries/ grow-out	Water management Feed Fish Pond water and feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp. Hatching can be done in traditional hapas having outer & inner hapas or
Type of Farming	Nurseries/ grow-out Brooder Breeding	Water management Feed Fish Pond water and feed Hormone	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Stock 20-30 lakhs spawns in one hectare water. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.



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 (7th to 10th June, 19):

30.6 mm rainfall was observed during the past four days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 28.0 - 32.0 °C and minimum of 21.9-22.1 °C. Mean relative humidity of 87.5 % max & 69.3 % min was recorded in the past four days & average wind speed was 1.8 - 3.6 km/ hr.

Weather forecast for Imphal West (12th to 16th June, 2019):

Likely to have moderate rains at isolated places from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-32 °C & mini. temp. 21-22 °C. Relative humidity may reach upto 99 % (max) & 67 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 11th June, 2019

- 1. Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 2. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned may be done before rains.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to mai field preparatio and transplantin			 Maintain water level just to submerge the soil surface and expose the green aerial sprouts in nursery plot. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
				- Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Maturity to harvesting			- Harvest mature crops before rains.
Summer maize	Vegetative			- Weeding may be done before rains.
			Stem Borer	- Before rains, apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bear				Weeding and thinning may be done before rains.Avoid leaf eating caterpillars.
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
Colocasia	Vegetative			- Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative		Leaf Spot	- Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting			 Harvest mature crops before rains. Avoid fruits from touching soil. Avoid water logging.
Cucurbits	Flowering to fruiting and			Construct proper staking system to avoid fruits from touching soil.Harvest mature crops before rains.
	harvesting		Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean/ Bhindi	Flowering ar fruiting to harvesting	ıd		 Weeding may be done before rains to avoid insect pest infestation. Harvest mature crops and retain healthy disease free fruits for seeds.
Animal Sciences				
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All			- Provide clean drinking water during rainy days.
Duck)	susceptible age groups	Endoparasites		- De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
				- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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



"Gramin Krishi Mausam Seva"

Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	age		
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight
	age		or 20-30ml for 100 kg body weight.
			- 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
	except three		vitamins like Livozyme @ 50ml twice daily.
	months or	Management	- Fly repellent must be used. Disinfection of farm and primises are to be
	below		carried out strictly. Due care need to be taken to prevent spread of
			disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Water management	Maintain minimum depth of 1.5 m.
	grow-out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and
			mineral.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg
			for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or
	Tratementes		
	Traterieries		circular hatcheries. A mild current with fine shower is needed for



"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Senapati

Past weather for the of Imphal West (7th to 10th June, 19):

30.6 mm rainfall was observed during the past four days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 28.0 – 32.0 °C and minimum of 21.9-22.1 °C. Mean relative humidity of 87.5 % max & 69.3 % min was recorded in the past four days & average wind speed was 1.8 – 3.6 km/ hr.

Weather forecast for Senapati (12th to 16th June, 2019):

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Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-32 °C & mini. temp. 21-22 °C. Relative humidity may reach upto 99 % (max) & 86 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 11th June, 2019

- 1. Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 2. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned may be done before rains.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to m			- Maintain water level just to submerge the soil surface and expose the
	field prepara			green aerial sprouts in nursery plot. Drain out excess water if
	and transplar	nting		accumulated due to rains.
				- Land preparation for transplanting of rice seedlings may be started.
				Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
				of final leveling.
				- Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Maturity to			- Harvest mature crops before rains.
	harvesting			
Summer maize	Vegetative			- Weeding may be done before rains.
			Stem Borer	- Before rains, apply few granules of Carbofuran 3G in whorl of plant
				against stem borer.
Soybean/ Groundnut/	Vegetative			- Weeding and thinning may be done before rains.
Blackgram/ Rice Bean				- Avoid leaf eating caterpillars.
Seed storage	Post-harvest			- For seed purpose store the seeds in <i>RC-Seed Bin</i> 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
Colocasia	Vegetative			- Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days
				interval against Alternaria leaf spot before rains.
Turmeric	Vegetative		Leaf Spot	- Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water
				against Leaf Spot before rains.
Tomato	Fruiting to			- Harvest mature crops before rains. Avoid fruits from touching soil.
	harvesting			- Avoid water logging.
Cucurbits	Flowering to			- Construct proper staking system to avoid fruits from touching soil.
	fruiting and			- Harvest mature crops before rains.
	harvesting		Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
				ml / litre of water.
French Bean/	Flowering ar	ıd		- Weeding may be done before rains to avoid insect pest infestation.
Bhindi	fruiting to			- Harvest mature crops and retain healthy disease free fruits for seeds.
	harvesting			
Animal Sciences	Gt.	D'	(24)	
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All			- Provide clean drinking water during rainy days.
Duck)	susceptible	Endopa	arasites	- De-worm using Levamizole Hydrochloride. Potash granules may be
	age groups			added in the drinking water of poultry.
	Ma		ement	- To prevent protozoan, bacterial, fungal diseases, litter should be kept
				dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft.
				area in litter material.



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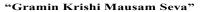
"Gramin Krishi Mausam Seva"

Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	age		
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight
	age		or 20-30ml for 100 kg body weight.
			- 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
	except three		vitamins like Livozyme @ 50ml twice daily.
	months or	Management	- Fly repellent must be used. Disinfection of farm and primises are to be
	below		carried out strictly. Due care need to be taken to prevent spread of
			disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Water management	Maintain minimum depth of 1.5 m.
	grow-out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and
			mineral.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg
			for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or
	Tratementes		
	Traterieries		circular hatcheries. A mild current with fine shower is needed for



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR AGROMET ADVISORY BULLETIN

District: Tamenglong

Past weather for the of Imphal West (7th to 10th June, 19):

30.6 mm rainfall was observed during the past four days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 28.0 – 32.0 °C and minimum of 21.9-22.1 °C. Mean relative humidity of 87.5 % max & 69.3 % min was recorded in the past four days & average wind speed was 1.8 – 3.6 km/ hr.

Weather forecast for Tamenglong (12th to 16th June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-32 °C & mini. temp. 21-22 °C. Relative humidity may reach upto 99 % (max) & 81 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 11th June, 2019

- 1. Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 2. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned may be done before rains.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice				 Maintain water level just to submerge the soil surface and expose the green aerial sprouts in nursery plot. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
				of final leveling Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Maturity to harvesting			- Harvest mature crops before rains.
Summer maize	Vegetative			- Weeding may be done before rains.
			Stem Borer	- Before rains, apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean				Weeding and thinning may be done before rains.Avoid leaf eating caterpillars.
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
Colocasia	Vegetative			- Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative		Leaf Spot	- Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting			Harvest mature crops before rains. Avoid fruits from touching soil.Avoid water logging.
Cucurbits	Flowering to fruiting and			Construct proper staking system to avoid fruits from touching soil.Harvest mature crops before rains.
	harvesting		Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean/ Bhindi	Flowering are fruiting to harvesting	ıd		 Weeding may be done before rains to avoid insect pest infestation. Harvest mature crops and retain healthy disease free fruits for seeds.
Animal Sciences				
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All			- Provide clean drinking water during rainy days.
Duck)	susceptible age groups	Endoparasites		- De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management		- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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"Gramin Krishi Mausam Seva"

Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	age		
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight
	age		or 20-30ml for 100 kg body weight.
			- 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
	except three		vitamins like Livozyme @ 50ml twice daily.
	months or	Management	- Fly repellent must be used. Disinfection of farm and primises are to be
	below		carried out strictly. Due care need to be taken to prevent spread of
			disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Water management	Maintain minimum depth of 1.5 m.
	grow-out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and
			mineral.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg
			for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or
	Tratementes		
	Traterieries		circular hatcheries. A mild current with fine shower is needed for