

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019*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 °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 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.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative	Stem Borer	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains. - Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites Management	<ul style="list-style-type: none"> - Provide clean drinking water during rainy days. - De-worm using Levamisole 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019

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 °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 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.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative		<ul style="list-style-type: none"> - Weeding may be done before rains.
		Stem Borer	<ul style="list-style-type: none"> - Before rains , apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting		<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains.
		Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Provide clean drinking water during rainy days.
		Endoparasites	<ul style="list-style-type: none"> - De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	<ul style="list-style-type: none"> - 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019**District: Bishnupur****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 Bishnupur (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) & 81 % (min). The average wind speed may be 2-6 km/hr.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative		<ul style="list-style-type: none"> - Weeding may be done before rains.
		Stem Borer	<ul style="list-style-type: none"> - Before rains , apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting		<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains.
		Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Provide clean drinking water during rainy days.
		Endoparasites	<ul style="list-style-type: none"> - De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	<ul style="list-style-type: none"> - 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019*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.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative	Stem Borer	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains. - Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites Management	<ul style="list-style-type: none"> - Provide clean drinking water during rainy days. - De-worm using Levamisole 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019*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):

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.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative		<ul style="list-style-type: none"> - Weeding may be done before rains.
		Stem Borer	<ul style="list-style-type: none"> - Before rains , apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting		<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains.
		Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Provide clean drinking water during rainy days.
		Endoparasites	<ul style="list-style-type: none"> - De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	<ul style="list-style-type: none"> - 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019*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):

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.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative		<ul style="list-style-type: none"> - Weeding may be done before rains.
		Stem Borer	<ul style="list-style-type: none"> - Before rains , apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting		<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains.
		Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Provide clean drinking water during rainy days.
		Endoparasites	<ul style="list-style-type: none"> - De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	<ul style="list-style-type: none"> - 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019

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.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative		<ul style="list-style-type: none"> - Weeding may be done before rains.
		Stem Borer	<ul style="list-style-type: none"> - Before rains , apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting		<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains.
		Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Provide clean drinking water during rainy days.
		Endoparasites	<ul style="list-style-type: none"> - De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	<ul style="list-style-type: none"> - 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019*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):

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.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative		<ul style="list-style-type: none"> - Weeding may be done before rains.
		Stem Borer	<ul style="list-style-type: none"> - Before rains , apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting		<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains.
		Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Provide clean drinking water during rainy days.
		Endoparasites	<ul style="list-style-type: none"> - De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	<ul style="list-style-type: none"> - 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th June, 2019*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.

General Advisory:

- Provisions may be made to harvest rain water in the fields for rice nursery/ sowing.
- 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 main field preparation and transplanting		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Harvest mature crops before rains.
Summer maize	Vegetative		<ul style="list-style-type: none"> - Weeding may be done before rains.
		Stem Borer	<ul style="list-style-type: none"> - Before rains , apply few granules of Carbofuran 3G in whorl of plant against stem borer.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		<ul style="list-style-type: none"> - Weeding and thinning may be done before rains. - Avoid leaf eating caterpillars.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval against Alternaria leaf spot before rains.
Turmeric	Vegetative	Leaf Spot	<ul style="list-style-type: none"> - Apply Bordeaux mixture (5:5:50) or Captan @ 1.5 g/l of water against Leaf Spot before rains.
Tomato	Fruiting to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. Avoid fruits from touching soil. - Avoid water logging.
Cucurbits	Flowering to fruiting and harvesting		<ul style="list-style-type: none"> - Construct proper staking system to avoid fruits from touching soil. - Harvest mature crops before rains.
		Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> - 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	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Provide clean drinking water during rainy days.
		Endoparasites	<ul style="list-style-type: none"> - De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	<ul style="list-style-type: none"> - 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.



Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- De-worm with Albomac suspension@60-90ml for 300kg body weight 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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice 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			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Water management	Maintain minimum depth of 1.5 m. 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 circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS