



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****18th May, 2018****Bishnupur**

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19th to 23rd May, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th May, 2018) Observed 0.8 mm rainfall with partly cloudy to mainly cloudy sky during past three days. Maximum temperature recorded ranged from 28.0 to 28.9 °C and minimum of 18.0 to 19.4 °C with mean relative humidity 86.33 % max and 58.0 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Bishnupur (19th to 23rd May, 2018) Very likely to have fairly widespread rains on Saturday and Sunday and mainly cloudy to overcast sky with maximum temp. 30-31 °C & minimum temp. 21-22 °C. Relative humidity may reach up to 100 % (max RH) & 66 % (min RH). The average wind speed may be 0-2 km/hr.</p>
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*** Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains on Saturday and Sunday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds/ animals may be well constructed/ repaired to protect from rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Drain out excess water if accumulated due to rain in crop field. - Weeding may be done. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Seed collection and nursery (Kharif rice)		- Land preparation for raising kharif rice nursery may be started after rains. - Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Soak and incubate seeds before sowing.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. Drainage may be constructed well to avoid water logging in and around the crop field.
	<i>Kharif maize</i>		- Sowing may be done after rains.
Soybean	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		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. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.



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Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Tomato/ Chilli	Flowering & fruiting to harvesting		<ul style="list-style-type: none"> - Maintain optimum soil moisture by draining out excess water in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none"> - Drain out excess water in low lying fields. - Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Management	<ul style="list-style-type: none"> • Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @ 7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

Fishery

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	breeding	Pond and water	<ul style="list-style-type: none"> - Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	<ul style="list-style-type: none"> - Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @ 300kg/ha to maintain optimum p^H. - Apply a mixture of raw cow dung @ 5000kg/ha + 75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
	Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.	
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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**MANIPUR BULLETIN****18th May, 2018**Chandel

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<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Drain out excess water if accumulated due to rain in crop field. - Weeding may be done. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Seed collection and nursery (Kharif rice)		- Land preparation for raising kharif rice nursery may be started after rains. - Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Soak and incubate seeds before sowing.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. Drainage may be constructed well to avoid water logging in and around the crop field.
	<i>Kharif maize</i>		- Sowing may be done after rains.
Soybean	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		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. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
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Animal Sciences

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		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Management	<ul style="list-style-type: none"> • Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @ 7.5 mg/kg b.wt.
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		• Deworming	• De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

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Fishery

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		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.
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**MANIPUR BULLETIN****18th May, 2018**Churachandpur

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Fishery

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Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. Drainage may be constructed well to avoid water logging in and around the crop field.
	<i>Kharif maize</i>		- Sowing may be done after rains.
Soybean	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		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. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Tomato/ Chilli	Flowering & fruiting to harvesting		<ul style="list-style-type: none"> - Maintain optimum soil moisture by draining out excess water in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none"> - Drain out excess water in low lying fields. - Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Management	<ul style="list-style-type: none"> • Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @ 7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

Fishery

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	breeding	Pond and water	<ul style="list-style-type: none"> - Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme.
		nurseries	Pond and water
	Feed		Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
	Fish		20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

(I. Meghachandra Singh)
Scientist i/c, GKMS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****18th May, 2018**Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19th to 23rd May, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th May, 2018) Observed 0.8 mm rainfall with partly cloudy to mainly cloudy sky during past three days. Maximum temperature recorded ranged from 28.0 to 28.9 °C and minimum of 18.0 to 19.4 °C with mean relative humidity 86.33 % max and 58.0 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Imphal West (19th to 23rd May, 2018) Very likely to have fairly widespread rains on Saturday and Sunday and mainly cloudy to overcast sky with maximum temp. 30-31 °C & minimum temp. 20-22 °C. Relative humidity may reach up to 100 % (max RH) & 70 % (min RH). The average wind speed may be 2-3 km/hr.</p>
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*** Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains on Saturday and Sunday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds/ animals may be well constructed/ repaired to protect from rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Drain out excess water if accumulated due to rain in crop field. - Weeding may be done. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Seed collection and nursery (Kharif rice)		- Land preparation for raising kharif rice nursery may be started after rains. - Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Soak and incubate seeds before sowing.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. Drainage may be constructed well to avoid water logging in and around the crop field.
	<i>Kharif maize</i>		- Sowing may be done after rains.
Soybean	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		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. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Tomato/ Chilli	Flowering & fruiting to harvesting		<ul style="list-style-type: none"> - Maintain optimum soil moisture by draining out excess water in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none"> - Drain out excess water in low lying fields. - Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Management	<ul style="list-style-type: none"> • Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @ 7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

Fishery

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	breeding	Pond and water	<ul style="list-style-type: none"> - Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	<ul style="list-style-type: none"> - Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @ 300kg/ha to maintain optimum p^H. - Apply a mixture of raw cow dung @ 5000kg/ha + 75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

(I. Meghachandra Singh)
Scientist i/c, GKMS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****18th May, 2018**Senapati

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19th to 23rd May, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th May, 2018) Observed 0.8 mm rainfall with partly cloudy to mainly cloudy sky during past three days. Maximum temperature recorded ranged from 28.0 to 28.9 °C and minimum of 18.0 to 19.4 °C with mean relative humidity 86.33 % max and 58.0 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Senapati (19th to 23rd May, 2018) Very likely to have fairly widespread rains on Saturday and Sunday and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 17-18 °C. Relative humidity may reach up to 89 % (max RH) & 68 % (min RH). The average wind speed may be 2 km/hr.</p>
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*** Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains on Saturday and Sunday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds/ animals may be well constructed/ repaired to protect from rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Drain out excess water if accumulated due to rain in crop field. - Weeding may be done. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Seed collection and nursery (Kharif rice)		- Land preparation for raising kharif rice nursery may be started after rains. - Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Soak and incubate seeds before sowing.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. Drainage may be constructed well to avoid water logging in and around the crop field.
	<i>Kharif maize</i>		- Sowing may be done after rains.
Soybean	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		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. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



Animal Sciences				
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.	
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.	
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.	
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).	
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.	
		• Vaccination	• Vaccinate against FMD and Swine Fever.	
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.	
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.	
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.	
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.	
		• Care & Management	• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures	
• Fodder cultivation: Berseem/ oat crop may be sown immediately.				
Fishery				
Type of Farming	Stage	Management	Agro-metrological advisories	
Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.	
		nurseries	Pond and water	- Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p ^H . - Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
	Grow -out	Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day	
		Fish	20-30 million spawn can be stocked in 1 ha pond.	
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.	
	Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

(I. Meghachandra Singh)
 Scientist i/c, GKMS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****18th May, 2018**Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19th to 23rd May, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th May, 2018) Observed 0.8 mm rainfall with partly cloudy to mainly cloudy sky during past three days. Maximum temperature recorded ranged from 28.0 to 28.9 °C and minimum of 18.0 to 19.4 °C with mean relative humidity 86.33 % max and 58.0 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Tamenglong (19th to 23rd May, 2018) Very likely to have fairly widespread rains on Saturday and Sunday and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 18-19 °C. Relative humidity may reach up to 89 % (max RH) & 68 % (min RH). The average wind speed may be 3-4 km/hr.</p>
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*** Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains on Saturday and Sunday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds/ animals may be well constructed/ repaired to protect from rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Drain out excess water if accumulated due to rain in crop field. - Weeding may be done. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Seed collection and nursery (Kharif rice)		- Land preparation for raising kharif rice nursery may be started after rains. - Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Soak and incubate seeds before sowing.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. Drainage may be constructed well to avoid water logging in and around the crop field.
	<i>Kharif maize</i>		- Sowing may be done after rains.
Soybean	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		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. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Tomato/ Chilli	Flowering & fruiting to harvesting		<ul style="list-style-type: none"> - Maintain optimum soil moisture by draining out excess water in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none"> - Drain out excess water in low lying fields. - Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Management	<ul style="list-style-type: none"> • Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @ 7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

Fishery

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	breeding	Pond and water	<ul style="list-style-type: none"> - Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme.
		nurseries	Pond and water
	Feed		Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
	Fish		20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
	Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.	
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

(I. Meghachandra Singh)
Scientist i/c, GKMS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****18th May, 2018**Thoubal

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19th to 23rd May, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th May, 2018) Observed 0.8 mm rainfall with partly cloudy to mainly cloudy sky during past three days. Maximum temperature recorded ranged from 28.0 to 28.9 °C and minimum of 18.0 to 19.4 °C with mean relative humidity 86.33 % max and 58.0 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Thoubal (19th to 23rd May, 2018) Very likely to have fairly widespread rains on Saturday and Sunday and mainly cloudy to overcast sky with maximum temp. 30-31 °C & minimum temp. 21-22 °C. Relative humidity may reach up to 100 % (max RH) & 66 % (min RH). The average wind speed may be 0-2 km/hr.</p>
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*** Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains on Saturday and Sunday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds/ animals may be well constructed/ repaired to protect from rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Drain out excess water if accumulated due to rain in crop field. - Weeding may be done. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Seed collection and nursery (Kharif rice)		- Land preparation for raising kharif rice nursery may be started after rains. - Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Soak and incubate seeds before sowing.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. Drainage may be constructed well to avoid water logging in and around the crop field.
	<i>Kharif maize</i>		- Sowing may be done after rains.
Soybean	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		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. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Tomato/ Chilli	Flowering & fruiting to harvesting		<ul style="list-style-type: none"> - Maintain optimum soil moisture by draining out excess water in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none"> - Drain out excess water in low lying fields. - Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Management	<ul style="list-style-type: none"> • Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @ 7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

Fishery

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	breeding	Pond and water	<ul style="list-style-type: none"> - Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	<ul style="list-style-type: none"> - Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @ 300kg/ha to maintain optimum p^H. - Apply a mixture of raw cow dung @ 5000kg/ha + 75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
	Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.	
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

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**MANIPUR BULLETIN****18th May, 2018**Ukhrul

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19th to 23rd May, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th May, 2018) Observed 0.8 mm rainfall with partly cloudy to mainly cloudy sky during past three days. Maximum temperature recorded ranged from 28.0 to 28.9 °C and minimum of 18.0 to 19.4 °C with mean relative humidity 86.33 % max and 58.0 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Ukhrul (19th to 23rd May, 2018) Very likely to have fairly widespread rains on Saturday and Sunday and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 17-18 °C. Relative humidity may reach up to 89 % (max RH) & 68 % (min RH). The average wind speed may be 2-4 km/hr.</p>
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*** Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains on Saturday and Sunday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds/ animals may be well constructed/ repaired to protect from rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Drain out excess water if accumulated due to rain in crop field. - Weeding may be done. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Seed collection and nursery (Kharif rice)		- Land preparation for raising kharif rice nursery may be started after rains. - Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Soak and incubate seeds before sowing.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. Drainage may be constructed well to avoid water logging in and around the crop field.
	<i>Kharif maize</i>		- Sowing may be done after rains.
Soybean	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		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. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.



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Animal Sciences				
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Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.	
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.	
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.	
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).	
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.	
		• Vaccination	• Vaccinate against FMD and Swine Fever.	
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.	
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.	
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.	
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.	
		• Care & Management	• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures	
• Fodder cultivation: Berseem/ oat crop may be sown immediately.				
Fishery				
Type of Farming	Stage	Management	Agro-metrological advisories	
Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.	
		nurseries	Pond and water	- Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p ^H . - Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
	Grow -out	Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day	
		Fish	20-30 million spawn can be stocked in 1 ha pond.	
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.	
	Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

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