



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

**MANIPUR BULLETIN****26th December, 2017**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 27th to 31st December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th December, 2017) Observed foggy morning hours and fair sky during afternoon hours during last four days with no rainfall. Maximum temperature range of 22.3 to 23.4 ° C and minimum temperature range of 8.7 to 9.8 ° C with mean relative humidity 93.8 % max and 55 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Bishnupur (27th to 31st December, 2017) Likely to have no rains upto Sunday. Morning hours are likely to have moderate to dense fog on 27th and sky may remain mainly clear during afternoon hours. The maximum temp. 23 - 24 ° C & minimum temp. 7 - 8 ° C and relative humidity may reach up to 88 % (max RH) & 46 % (min RH). The average wind speed may be 2 - 4 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Vegetative		- Apply 75 litres per sangam @ 10g urea / 15 litres as foliar application after 30 days of sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. - Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackgram (late variety)/ Field Pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Powdery mildew & Yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done. - Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Post-harvesting		- Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mould and fungus growth in this weather. Hence, treat the seeds with Trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.



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Manipur Centre, Lamphelpat, Imphal - 795 004

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Cucurbits	Seed collection		- Procure good quality seeds from reliable source that is suitable to the location. Preparation for raising nurseries of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Onion	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. • Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul style="list-style-type: none"> • Shearing for wool 	<ul style="list-style-type: none"> • Sheep should be sheared during this month.
Pig	All age groups except the young ones	<ul style="list-style-type: none"> • Coccidial infection 	<ul style="list-style-type: none"> • Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • De-worm with Albendazole @7.5 mg/kg b.wt.
		<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • Vaccinate against FMD.
		<ul style="list-style-type: none"> • Skin disease 	<ul style="list-style-type: none"> • Sprayer of Anti-<i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Deworming 	<ul style="list-style-type: none"> • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none"> • Care & Management 	<ul style="list-style-type: none"> • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		<ul style="list-style-type: none"> Mastitis 	<ul style="list-style-type: none"> • Adequate care must be ensured for prevention of mastitis for the milch animals.

• Fodder cultivation: Oat crop may be sown immediately.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul style="list-style-type: none"> - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	<ul style="list-style-type: none"> - As per market demand harvesting may be started.
		Feeding	<ul style="list-style-type: none"> - Feeds should be provided 2 times a day.

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



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MANIPUR BULLETIN

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Chandel

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<p>Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th December, 2017) Observed foggy morning hours and fair sky during afternoon hours during last four days with no rainfall. Maximum temperature range of 22.3 to 23.4 ° C and minimum temperature range of 8.7 to 9.8 ° C with mean relative humidity 93.8 % max and 55 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Chandel (27th to 31st December, 2017) Likely to have no rains upto Sunday. Morning hours are likely to have moderate to dense fog on 27th and sky may remain mainly clear during afternoon hours. The maximum temp. 21 - 22 ° C & minimum temp. 6 - 7 ° C and relative humidity may reach up to 85 % (max RH) & 46 % (min RH). The average wind speed may be 3 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Vegetative		- Apply 75 litres per sangam @ 10g urea / 15 litres as foliar application after 30 days of sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. - Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackgram (late variety)/ Field Pea	Vegetative	Aphid	- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Powdery mildew & Yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done. - Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Post-harvesting		- Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mould and fungus growth in this weather. Hence, treat the seeds with Trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.



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Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Onion	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
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Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
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Fishery:

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Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

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Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
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• Fodder cultivation: Oat crop may be sown immediately.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul style="list-style-type: none"> - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
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Imphal East

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Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done. - Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Post-harvesting		- Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mould and fungus growth in this weather. Hence, treat the seeds with Trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Cucurbits	Seed collection		- Procure good quality seeds from reliable source that is suitable to the location. Preparation for raising nurseries of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Onion	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. • Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul style="list-style-type: none"> • Shearing for wool 	<ul style="list-style-type: none"> • Sheep should be sheared during this month.
Pig	All age groups except the young ones	<ul style="list-style-type: none"> • Coccidial infection 	<ul style="list-style-type: none"> • Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • De-worm with Albendazole @7.5 mg/kg b.wt.
		<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • Vaccinate against FMD.
		<ul style="list-style-type: none"> • Skin disease 	<ul style="list-style-type: none"> • Sprayer of Anti-<i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Deworming 	<ul style="list-style-type: none"> • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none"> • Care & Management 	<ul style="list-style-type: none"> • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		<ul style="list-style-type: none"> Mastitis 	<ul style="list-style-type: none"> • Adequate care must be ensured for prevention of mastitis for the milch animals.

• Fodder cultivation: Oat crop may be sown immediately.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul style="list-style-type: none"> - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	<ul style="list-style-type: none"> - As per market demand harvesting may be started.
		Feeding	<ul style="list-style-type: none"> - Feeds should be provided 2 times a day.

(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

26th December, 2017

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 27th to 31st December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th December, 2017) Observed foggy morning hours and fair sky during afternoon hours during last four days with no rainfall. Maximum temperature range of 22.3 to 23.4 ° C and minimum temperature range of 8.7 to 9.8 ° C with mean relative humidity 93.8 % max and 55 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Imphal West (27th to 31st December, 2017) Likely to have no rains upto Sunday. Morning hours are likely to have moderate to dense fog on 27th and sky may remain mainly clear during afternoon hours. The maximum temp. 23 - 24 ° C & minimum temp. 6 - 8 ° C and relative humidity may reach up to 88 % (max RH) & 46 % (min RH). The average wind speed may be 2 - 4 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Vegetative		- Apply 75 litres per sangam @ 10g urea / 15 litres as foliar application after 30 days of sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. - Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackgram (late variety)/ Field Pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Powdery mildew & Yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done. - Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Post-harvesting		- Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mould and fungus growth in this weather. Hence, treat the seeds with Trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Cucurbits	Seed collection		- Procure good quality seeds from reliable source that is suitable to the location. Preparation for raising nurseries of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Onion	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. • Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul style="list-style-type: none"> • Shearing for wool 	<ul style="list-style-type: none"> • Sheep should be sheared during this month.
Pig	All age groups except the young ones	<ul style="list-style-type: none"> • Coccidial infection 	<ul style="list-style-type: none"> • Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • De-worm with Albendazole @7.5 mg/kg b.wt.
		<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • Vaccinate against FMD.
		<ul style="list-style-type: none"> • Skin disease 	<ul style="list-style-type: none"> • Sprayer of Anti-<i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Deworming 	<ul style="list-style-type: none"> • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none"> • Care & Management 	<ul style="list-style-type: none"> • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		<ul style="list-style-type: none"> Mastitis 	<ul style="list-style-type: none"> • Adequate care must be ensured for prevention of mastitis for the milch animals.

• Fodder cultivation: Oat crop may be sown immediately.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul style="list-style-type: none"> - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	<ul style="list-style-type: none"> - As per market demand harvesting may be started.
		Feeding	<ul style="list-style-type: none"> - Feeds should be provided 2 times a day.

(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****26th December, 2017**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 27th to 31st December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th December, 2017) Observed foggy morning hours and fair sky during afternoon hours during last four days with no rainfall. Maximum temperature range of 22.3 to 23.4 ° C and minimum temperature range of 8.7 to 9.8 ° C with mean relative humidity 93.8 % max and 55 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Senapati (27th to 31st December, 2017) Likely to have no rains upto Sunday. Morning hours are likely to have moderate to dense fog on 27th and sky may remain mainly clear during afternoon hours. The maximum temp. 19 - 21 ° C & minimum temp. 5 - 6 ° C and relative humidity may reach up to 88 % (max RH) & 30 % (min RH). The average wind speed may be 3-6 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Vegetative		- Apply 75 litres per sangam @ 10g urea / 15 litres as foliar application after 30 days of sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. - Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackgram (late variety)/ Field Pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Powdery mildew & Yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done. - Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Post-harvesting		- Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mould and fungus growth in this weather. Hence, treat the seeds with Trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Cabbage/ Cauliflower	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		- Nursery for late crops may be raised.



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



<i>Animal Sciences</i>			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. • Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul style="list-style-type: none"> • Shearing for wool 	<ul style="list-style-type: none"> • Sheep should be sheared during this month.
Pig	All age groups except the young ones	<ul style="list-style-type: none"> • Coccidial infection 	<ul style="list-style-type: none"> • Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • De-worm with Albendazole @7.5 mg/kg b.wt.
		<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • Vaccinate against FMD.
		<ul style="list-style-type: none"> • Skin disease 	<ul style="list-style-type: none"> • Sprayer of Anti-<i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Deworming 	<ul style="list-style-type: none"> • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none"> • Care & Management 	<ul style="list-style-type: none"> • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		<ul style="list-style-type: none"> Mastitis 	<ul style="list-style-type: none"> • Adequate care must be ensured for prevention of mastitis for the milch animals.
<ul style="list-style-type: none"> • Fodder cultivation: Oat crop may be sown immediately. 			
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul style="list-style-type: none"> - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	<ul style="list-style-type: none"> - As per market demand harvesting may be started.
		Feeding	<ul style="list-style-type: none"> - Feeds should be provided 2 times a day.

(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****26th December, 2017**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 27th to 31st December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th December, 2017) Observed foggy morning hours and fair sky during afternoon hours during last four days with no rainfall. Maximum temperature range of 22.3 to 23.4 ° C and minimum temperature range of 8.7 to 9.8 ° C with mean relative humidity 93.8 % max and 55 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Tamenglong (27th to 31st December, 2017) Likely to have no rains upto Sunday. Morning hours are likely to have moderate to dense fog on 27th and sky may remain mainly clear during afternoon hours. The maximum temp. 19 - 21 ° C & minimum temp. 5 - 6 ° C and relative humidity may reach up to 88 % (max RH) & 30 % (min RH). The average wind speed may be 3-6 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Vegetative		- Apply 75 litres per sangam @ 10g urea / 15 litres as foliar application after 30 days of sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. - Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackgram (late variety)/ Field Pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Powdery mildew & Yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done. - Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Post-harvesting		- Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mould and fungus growth in this weather. Hence, treat the seeds with Trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Cucurbits	Seed collection		- Procure good quality seeds from reliable source that is suitable to the location. Preparation for raising nurseries of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Onion	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. • Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul style="list-style-type: none"> • Shearing for wool 	<ul style="list-style-type: none"> • Sheep should be sheared during this month.
Pig	All age groups except the young ones	<ul style="list-style-type: none"> • Coccidial infection 	<ul style="list-style-type: none"> • Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • De-worm with Albendazole @7.5 mg/kg b.wt.
		<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • Vaccinate against FMD.
		<ul style="list-style-type: none"> • Skin disease 	<ul style="list-style-type: none"> • Sprayer of Anti-<i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Deworming 	<ul style="list-style-type: none"> • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none"> • Care & Management 	<ul style="list-style-type: none"> • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		<ul style="list-style-type: none"> Mastitis 	<ul style="list-style-type: none"> • Adequate care must be ensured for prevention of mastitis for the milch animals.

• Fodder cultivation: Oat crop may be sown immediately.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul style="list-style-type: none"> - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	<ul style="list-style-type: none"> - As per market demand harvesting may be started.
		Feeding	<ul style="list-style-type: none"> - Feeds should be provided 2 times a day.

(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****26th December, 2017**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 27th to 31st December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th December, 2017) Observed foggy morning hours and fair sky during afternoon hours during last four days with no rainfall. Maximum temperature range of 22.3 to 23.4 ° C and minimum temperature range of 8.7 to 9.8 ° C with mean relative humidity 93.8 % max and 55 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Thoubal (27th to 31st December, 2017) Likely to have no rains upto Sunday. Morning hours are likely to have moderate to dense fog on 27th and sky may remain mainly clear during afternoon hours. The maximum temp. 23 - 24 ° C & minimum temp. 7 - 8 ° C and relative humidity may reach up to 88 % (max RH) & 46 % (min RH). The average wind speed may be 2 - 4 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Vegetative		- Apply 75 litres per sangam @ 10g urea / 15 litres as foliar application after 30 days of sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. - Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackgram (late variety)/ Field Pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Powdery mildew & Yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done. - Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Post-harvesting		- Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mould and fungus growth in this weather. Hence, treat the seeds with Trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.



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“Gramin Krishi Mausam Seva”



Cucurbits	Seed collection		- Procure good quality seeds from reliable source that is suitable to the location. Preparation for raising nurseries of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Onion	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. • Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul style="list-style-type: none"> • Shearing for wool 	<ul style="list-style-type: none"> • Sheep should be sheared during this month.
Pig	All age groups except the young ones	<ul style="list-style-type: none"> • Coccidial infection 	<ul style="list-style-type: none"> • Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • De-worm with Albendazole @7.5 mg/kg b.wt.
		<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • Vaccinate against FMD.
		<ul style="list-style-type: none"> • Skin disease 	<ul style="list-style-type: none"> • Sprayer of Anti-<i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Deworming 	<ul style="list-style-type: none"> • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none"> • Care & Management 	<ul style="list-style-type: none"> • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		<ul style="list-style-type: none"> Mastitis 	<ul style="list-style-type: none"> • Adequate care must be ensured for prevention of mastitis for the milch animals.

• Fodder cultivation: Oat crop may be sown immediately.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul style="list-style-type: none"> - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	<ul style="list-style-type: none"> - As per market demand harvesting may be started.
		Feeding	<ul style="list-style-type: none"> - Feeds should be provided 2 times a day.

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



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**MANIPUR BULLETIN****26th December, 2017**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 27th to 31st December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th December, 2017) Observed foggy morning hours and fair sky during afternoon hours during last four days with no rainfall. Maximum temperature range of 22.3 to 23.4 ° C and minimum temperature range of 8.7 to 9.8 ° C with mean relative humidity 93.8 % max and 55 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Ukhrul (27th to 31st December, 2017) Likely to have no rains upto Sunday. Morning hours are likely to have moderate to dense fog on 27th and sky may remain mainly clear during afternoon hours. The maximum temp. 19 - 21 ° C & minimum temp. 5 - 6 ° C and relative humidity may reach up to 88 % (max RH) & 30 % (min RH). The average wind speed may be 3-6 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Vegetative		- Apply 75 litres per sangam @ 10g urea / 15 litres as foliar application after 30 days of sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. - Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackgram (late variety)/ Field Pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Powdery mildew & Yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done. - Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Post-harvesting		- Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mould and fungus growth in this weather. Hence, treat the seeds with Trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Cabbage/ Cauliflower	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		- Nursery for late crops may be raised.



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“Gramin Krishi Mausam Seva”



<i>Animal Sciences</i>			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. • Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul style="list-style-type: none"> • Shearing for wool 	<ul style="list-style-type: none"> • Sheep should be sheared during this month.
Pig	All age groups except the young ones	<ul style="list-style-type: none"> • Coccidial infection 	<ul style="list-style-type: none"> • Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		<ul style="list-style-type: none"> • De-worming 	<ul style="list-style-type: none"> • De-worm with Albendazole @7.5 mg/kg b.wt.
		<ul style="list-style-type: none"> • Vaccination 	<ul style="list-style-type: none"> • Vaccinate against FMD.
		<ul style="list-style-type: none"> • Skin disease 	<ul style="list-style-type: none"> • Sprayer of Anti-<i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Deworming 	<ul style="list-style-type: none"> • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none"> • Care & Management 	<ul style="list-style-type: none"> • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		<ul style="list-style-type: none"> Mastitis 	<ul style="list-style-type: none"> • Adequate care must be ensured for prevention of mastitis for the milch animals.
<ul style="list-style-type: none"> • Fodder cultivation: Oat crop may be sown immediately. 			
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul style="list-style-type: none"> - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	<ul style="list-style-type: none"> - As per market demand harvesting may be started.
		Feeding	<ul style="list-style-type: none"> - Feeds should be provided 2 times a day.

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