



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



MANIPUR BULLETIN

12th 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 13th to 17th December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 11th December, 2017) Observed overcast sky during past four days with 104.8 mm rainfall. Maximum temperature range of 16.7 to 20.5 ° C and minimum temperature range of 10.1 to 16.5 ° C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Bishnupur (13th to 17th December, 2017) Likely to have no rains upto Sunday. Sky may remain mainly clear to partly cloudy. The maximum temp. 23 - 24 ° C & minimum temp. 9 - 10 ° C and relative humidity may reach up to 75 % (max RH) & 64 % (min RH). The average wind speed may be 0-2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)	Vegetative		- Thinning may be done where plant population is high. - Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation. - 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.
Field Pea	Vegetative		- Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
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
 * Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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.
Cauliflower	Curd initiation stage		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer. - At this stage 4 kg DAP + 4 kg K ₂ O for 2000 plants may be applied.
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	• Management	• 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.



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Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• 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.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups except the young ones	• Coccidial infection	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD.
		• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		Mastitis	• 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	- 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	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.

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



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**MANIPUR BULLETIN****12th December, 2017**Chandel

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 13th to 17th December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 11th December, 2017) Observed overcast sky during past four days with 104.8 mm rainfall. Maximum temperature range of 16.7 to 20.5 °C and minimum temperature range of 10.1 to 16.5 °C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Chandel (13th to 17th December, 2017) Likely to have no rains upto Sunday. Sky may remain mainly clear to partly cloudy. The maximum temp. 21 - 22 °C & minimum temp. 7 - 9 °C and relative humidity may reach up to 78 % (max RH) & 61 % (min RH). The average wind speed may be 3 - 4 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)	Vegetative		- Thinning may be done where plant population is high. - Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation. - 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.
Field Pea	Vegetative		- Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
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

* Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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.
Cauliflower	Curd initiation stage		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer. - At this stage 4 kg DAP + 4 kg K ₂ O for 2000 plants may be applied.
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	• Management	• 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.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• 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.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups except the young ones	• Coccidial infection	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD.
		• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		Mastitis	• 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	- 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	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.

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**MANIPUR BULLETIN****12th December, 2017**Churachandpur

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 13th to 17th December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 11th December, 2017) Observed overcast sky during past four days with 104.8 mm rainfall. Maximum temperature range of 16.7 to 20.5 °C and minimum temperature range of 10.1 to 16.5 °C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Churachandpur (13th to 17th December, 2017) Likely to have no rains upto Sunday. Sky may remain mainly clear to partly cloudy. The maximum temp. 23 - 24 °C & minimum temp. 9-10 °C and relative humidity may reach up to 78 % (max RH) & 61 % (min RH). The average wind speed may be 0 - 2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)	Vegetative		- Thinning may be done where plant population is high. - Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation. - 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.
Field Pea	Vegetative		- Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
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

* Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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.
Cauliflower	Curd initiation stage		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer. - At this stage 4 kg DAP + 4 kg K ₂ O for 2000 plants may be applied.
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	• Management	• 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.



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Sheep/ Goat	All age groups	• Vaccination	• 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.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups except the young ones	• Coccidial infection	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD.
		• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		Mastitis	• 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	- 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	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.

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MANIPUR BULLETIN

12th December, 2017

Imphal East

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 13th to 17th December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 11th December, 2017) Observed overcast sky during past four days with 104.8 mm rainfall. Maximum temperature range of 16.7 to 20.5 ° C and minimum temperature range of 10.1 to 16.5 ° C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Imphal East (13th to 17th December, 2017) Likely to have no rains upto Sunday. Sky may remain mainly clear to partly cloudy. The maximum temp. 23 - 24 ° C & minimum temp. 9 - 10 ° C and relative humidity may reach up to 75 % (max RH) & 64 % (min RH). The average wind speed may be 0-2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)	Vegetative		- Thinning may be done where plant population is high. - Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation. - 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.
Field Pea	Vegetative		- Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
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

* Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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.
Cauliflower	Curd initiation stage		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer. - At this stage 4 kg DAP + 4 kg K ₂ O for 2000 plants may be applied.
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	• 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.



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“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• 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.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups except the young ones	• Coccidial infection	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
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Fishery:

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Observed overcast sky during past four days with **104.8 mm** rainfall. Maximum temperature range of 16.7 to 20.5 °C and minimum temperature range of 10.1 to 16.5 °C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.

Weather forecast for next five days of Imphal West (13th to 17th December, 2017)

Likely to have no rains upto Sunday. Sky may remain mainly clear. The maximum temp. 23 - 24 °C & minimum temp. 9 - 10 °C and relative humidity may reach up to 75 % (max RH) & 64 % (min RH). The average wind speed may be 0-2 km/hr.

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		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups except the young ones	• Coccidial infection	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD.
		• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		Mastitis	• 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	- 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	- As per market demand harvesting may be started.
		Feeding	- 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****12th 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 13th to 17th December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 11th December, 2017) Observed overcast sky during past four days with 104.8 mm rainfall. Maximum temperature range of 16.7 to 20.5 °C and minimum temperature range of 10.1 to 16.5 °C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Senapati (13th to 17th December, 2017) Likely to have no rains upto Sunday. Sky may remain mainly clear to partly cloudy. The maximum temp. 19 - 20 °C & minimum temp. 5 - 7 °C and relative humidity may reach up to 71 % (max RH) & 59 % (min RH). The average wind speed may be 3-4 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)	Vegetative		- Thinning may be done where plant population is high. - Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation. - 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.
Field Pea	Vegetative		- Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
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

* Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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.
Cauliflower	Curd initiation stage		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer. - At this stage 4 kg DAP + 4 kg K ₂ O for 2000 plants may be applied.
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	• Management	• 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	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,



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“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> 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
		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****12th 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 13th to 17th December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 11th December, 2017) Observed overcast sky during past four days with 104.8 mm rainfall. Maximum temperature range of 16.7 to 20.5 °C and minimum temperature range of 10.1 to 16.5 °C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Tamenglong (13th to 17th December, 2017) Likely to have no rains upto Sunday. Sky may remain mainly clear to partly cloudy. The maximum temp. 19 - 20 °C & minimum temp. 5 - 7 °C and relative humidity may reach up to 71 % (max RH) & 59 % (min RH). The average wind speed may be 3-4 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)	Vegetative		- Thinning may be done where plant population is high. - Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation. - 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.
Field Pea	Vegetative		- Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
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

* Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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.
Cauliflower	Curd initiation stage		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer. - At this stage 4 kg DAP + 4 kg K ₂ O for 2000 plants may be applied.
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	• Management	• 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.



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Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• 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.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups except the young ones	• Coccidial infection	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD.
		• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		Mastitis	• 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	- 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	- As per market demand harvesting may be started.
		Feeding	- 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****12th 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 13th to 17th December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 11th December, 2017) Observed overcast sky during past four days with 104.8 mm rainfall. Maximum temperature range of 16.7 to 20.5 ° C and minimum temperature range of 10.1 to 16.5 ° C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Thoubal (13th to 17th December, 2017) Likely to have no rains upto Sunday. Sky may remain mainly clear to partly cloudy. The maximum temp. 23 - 24 ° C & minimum temp. 9 – 10 ° C and relative humidity may reach up to 75 % (max RH) & 64 % (min RH). The average wind speed may be 0-2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)	Vegetative		- Thinning may be done where plant population is high. - Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation. - 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.
Field Pea	Vegetative		- Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
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

* Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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.
Cauliflower	Curd initiation stage		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer. - At this stage 4 kg DAP + 4 kg K ₂ O for 2000 plants may be applied.
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	• Management	• 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.



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“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• 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.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups except the young ones	• Coccidial infection	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD.
		• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures
		Mastitis	• 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	- 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	- As per market demand harvesting may be started.
		Feeding	- 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****12th 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 13th to 17th December, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 11th December, 2017) Observed overcast sky during past four days with 104.8 mm rainfall. Maximum temperature range of 16.7 to 20.5 ° C and minimum temperature range of 10.1 to 16.5 ° C with mean relative humidity 97.25 % max and 90.5 % min was recorded in the past four days.</p>	<p>Weather forecast for next five days of Ukhrul (13th to 17th December, 2017) Likely to have no rains upto Sunday. Sky may remain mainly clear to partly cloudy. The maximum temp. 19 - 20 ° C & minimum temp. 5 - 7 ° C and relative humidity may reach up to 71 % (max RH) & 59 % (min RH). The average wind speed may be 3-4 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)	Vegetative		- Thinning may be done where plant population is high. - Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
Rabi Maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation. - 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.
Field Pea	Vegetative		- Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.
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

* Drain out excess water that had been accumulated due to rains during past four days. Regular monitoring may be done for insect pest infestation.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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.
Cauliflower	Curd initiation stage		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer. - At this stage 4 kg DAP + 4 kg K ₂ O for 2000 plants may be applied.
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	• Management	• 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	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,



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“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> 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
		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