



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



MANIPUR BULLETIN
14th October, 2016

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016) The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Bishnupur (15th to 19th October, 2016) Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 29 – 31 °C & minimum temp. 20 - 22 °C. Relative humidity may reach upto 99% (max RH) & 79% (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

*Avoid inter-culture operations when the soil is wet. Construct proper drainage system in and around the crop field.

Rabi Vegetable (cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)	Land preparation		➤ Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric	Rhizome formation		➤ In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. ➤ Disease free mulching material may be used when soil moisture reduces.
		Leaf blotch & Leaf Spot	➤ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)			➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.
Pea	Land preparation to sowing		Early sowing of garden pea should be completed at earliest possible.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	➤ Proper ventilation must be provided to protect excessive heat during day time. ➤ Use water sanitizer in drinking water/potassium permanganate (few grains).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.

**ICAR Research Complex for N.E.H. Region**

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal. ➤ Treat drinking water with potassium permanganate/ sanitizer. ➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.
Fishery:			
* Encircle pond with happa net to avoid escape of fishes from the pond.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

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



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MANIPUR BULLETIN
14th October, 2016

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016) The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Chandel (15th to 19th October, 2016) Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 28 – 30 °C & minimum temp. 20 - 21 °C. Relative humidity may reach upto 98% (max RH) & 77% (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

*Avoid inter-culture operations when the soil is wet. Construct proper drainage system in and around the crop field.

Rabi Vegetable (cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)	Land preparation		➤ Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric	Rhizome formation		➤ In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. ➤ Disease free mulching material may be used when soil moisture reduces.
		Leaf blotch & Leaf Spot	➤ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)			➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant).
Pea	Land preparation to sowing		Early sowing of garden pea should be completed at earliest possible.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	➤ Proper ventilation must be provided to protect excessive heat during day time. ➤ Use water sanitizer in drinking water/potassium permanganate (few grains).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.



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Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal. ➤ Treat drinking water with potassium permanganate/ sanitizer. ➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

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



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14th October, 2016

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016) The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Churachandpur (15th to 19th October, 2016) Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 28 – 30 °C & minimum temp. 19 - 21 °C. Relative humidity may reach upto 100% (max RH) & 74% (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

*Avoid inter-culture operations when the soil is wet. Construct proper drainage system in and around the crop field.

Rabi Vegetable (cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)	Land preparation		➤ Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric	Rhizome formation		➤ In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. ➤ Disease free mulching material may be used when soil moisture reduces.
		Leaf blotch & Leaf Spot	➤ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)			➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant).
Pea	Land preparation to sowing		Early sowing of garden pea should be completed at earliest possible.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	➤ Proper ventilation must be provided to protect excessive heat during day time. ➤ Use water sanitizer in drinking water/potassium permanganate (few grains).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.



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Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal. ➤ Treat drinking water with potassium permanganate/ sanitizer. ➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

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



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**MANIPUR BULLETIN****14th October, 2016****Imphal East**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016)</p> <p>The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Imphal East (15th to 19th October, 2016)</p> <p>Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 29 – 32 °C & minimum temp. 21 - 22 °C. Relative humidity may reach upto 100% (max RH) & 81% (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

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Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
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Fishery:			
* Encircle pond with happa net to avoid escape of fishes from the pond.			
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Imphal West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016) The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Imphal West (15th to 19th October, 2016) Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 29 – 31 °C & minimum temp. 20 - 22 °C. Relative humidity may reach upto 99% (max RH) & 74% (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

*Avoid inter-culture operations when the soil is wet. Construct proper drainage system in and around the crop field.

Rabi Vegetable (cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)	Land preparation		➤ Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric	Rhizome formation		➤ In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. ➤ Disease free mulching material may be used when soil moisture reduces.
		Leaf blotch & Leaf Spot	➤ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)			➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant).
Pea	Land preparation to sowing		Early sowing of garden pea should be completed at earliest possible.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	➤ Proper ventilation must be provided to protect excessive heat during day time. ➤ Use water sanitizer in drinking water/potassium permanganate (few grains).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.

**ICAR Research Complex for N.E.H. Region**

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal. ➤ Treat drinking water with potassium permanganate/ sanitizer. ➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.
Fishery:			
* Encircle pond with happa net to avoid escape of fishes from the pond.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(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
14th October, 2016

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016) The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Senapati (15th to 19th October, 2016) Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 28 – 30 °C & minimum temp. 17 - 19 °C. Relative humidity may reach upto 99% (max RH) & 75% (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

*Avoid inter-culture operations when the soil is wet. Construct proper drainage system in and around the crop field.

Rabi Vegetable (cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)	Land preparation		➤ Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric	Rhizome formation		➤ In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. ➤ Disease free mulching material may be used when soil moisture reduces.
		Leaf blotch & Leaf Spot	➤ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)			➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant).
Pea	Land preparation to sowing		Early sowing of garden pea should be completed at earliest possible.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	➤ Proper ventilation must be provided to protect excessive heat during day time. ➤ Use water sanitizer in drinking water/potassium permanganate (few grains).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.

**ICAR Research Complex for N.E.H. Region**

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“Gramin Krishi Mausam Seva”

Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal. ➤ Treat drinking water with potassium permanganate/ sanitizer. ➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.
Fishery:			
* Encircle pond with happa net to avoid escape of fishes from the pond.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(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****14th October, 2016****Tamenglong**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016) The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Tamenglong (15th to 19th October, 2016) Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 29 – 31 °C & minimum temp. 21 - 22 °C. Relative humidity may reach upto 99% (max RH) & 69% (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be North Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

*Avoid inter-culture operations when the soil is wet. Construct proper drainage system in and around the crop field.

Rabi Vegetable (cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)	Land preparation		➤ Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric	Rhizome formation		➤ In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. ➤ Disease free mulching material may be used when soil moisture reduces.
		Leaf blotch & Leaf Spot	➤ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)			➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant).
Pea	Land preparation to sowing		Early sowing of garden pea should be completed at earliest possible.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	➤ Proper ventilation must be provided to protect excessive heat during day time. ➤ Use water sanitizer in drinking water/potassium permanganate (few grains).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.

**ICAR Research Complex for N.E.H. Region**

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal. ➤ Treat drinking water with potassium permanganate/ sanitizer. ➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

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



ICAR Research Complex for N.E.H. Region
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“Gramin Krishi Mausam Seva”



MANIPUR BULLETIN
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Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016) The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Thoubal (15th to 19th October, 2016) Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 29 – 31 °C & minimum temp. 21 - 22 °C. Relative humidity may reach upto 99% (max RH) & 85% (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

*Avoid inter-culture operations when the soil is wet. Construct proper drainage system in and around the crop field.

Rabi Vegetable (cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)	Land preparation		➤ Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric	Rhizome formation		➤ In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. ➤ Disease free mulching material may be used when soil moisture reduces.
		Leaf blotch & Leaf Spot	➤ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)			➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant).
Pea	Land preparation to sowing		Early sowing of garden pea should be completed at earliest possible.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	➤ Proper ventilation must be provided to protect excessive heat during day time. ➤ Use water sanitizer in drinking water/potassium permanganate (few grains).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.

**ICAR Research Complex for N.E.H. Region**

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal. ➤ Treat drinking water with potassium permanganate/ sanitizer. ➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.
Fishery:			
* Encircle pond with happa net to avoid escape of fishes from the pond.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(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
14th October, 2016

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016) The sky remain partly cloudy to cloudy. 24.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 °C, range of minimum temperature observed was 19.8 to 21.7 °C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.</p>	<p>Weather forecast for next five days of Ukhrul (15th to 19th October, 2016) Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 27 – 29 °C & minimum temp. 17 - 19 °C. Relative humidity may reach upto 98% (max RH) & 71% (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South Easterly during next five days.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Grain filling to maturity stage	Neck Blast/ Sheath blight/ sheath rot/ Smut disease	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid, mealy bugs, Brown Plant Hoppers	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
			➤ Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean	Pod filling to Maturity stage		➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato	Land preparation		➤ Prepare land and plant seed tubers when the soil is relatively dry after rains. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard			➤ Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds	Post harvest management		➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

*Avoid inter-culture operations when the soil is wet. Construct proper drainage system in and around the crop field.

Rabi Vegetable (cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)	Land preparation		➤ Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric	Rhizome formation		➤ In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. ➤ Disease free mulching material may be used when soil moisture reduces.
		Leaf blotch & Leaf Spot	➤ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)			➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant).
Pea	Land preparation to sowing		Early sowing of garden pea should be completed at earliest possible.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	➤ Proper ventilation must be provided to protect excessive heat during day time. ➤ Use water sanitizer in drinking water/potassium permanganate (few grains).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.



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Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal. ➤ Treat drinking water with potassium permanganate/ sanitizer. ➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. ➤ If the animals are afflicted by FMD, keep it in a separate enclosure. ➤ Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. ➤ The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

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