



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



MANIPUR BULLETIN
15th November, 2016

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 16th to 20th November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th November, 2016) The sky remain mainly clear to but cloudy during morning of 11 th and clear to variable during afternoon. 1.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 25.9 to 28.1 °C, range of minimum temperature observed was 11.6 to 17.6 °C, mean relative humidity observed in morning and afternoon were 92.5 % and 58.2 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.	Weather forecast for next five days of Thoubal (16th to 20th November, 2016) Likely to have no rain upto Sunday. Dense fog is very likely at isolated places during morning hours of 16 th & 17 th Nov and mainly clear to partly cloudy during day time with maximum temp. 25 – 26 °C & minimum temp. 11 - 13 °C. Relative humidity may reach upto 100 % (max RH) & 49 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.
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Weather Warning during next 5 days *
Dense fog very likely at isolated places over Manipur

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Harvesting to post-harvesting		- Stacking of the harvested panicles for 2-3 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Groundnut/ Soybean	Harvesting to post-harvesting		- Make bundles and dry the crops under roof/ in shade for 2-3 days for curing. - Remove pods from plant and keep the pods free from debris/ damage. - Remove the soil attached to the pods of groundnut. - Dry it for 4-5 days in sun to attain optimum moisture content before storage. - Select good quality pods for seeds.
Blackgram	Harvesting to post-harvesting		➤ Dry it for 4-5 days in sun to attain optimum moisture content before storage. Select disease free seeds for storage as seeds.
Potato	Land preparation and selection of seed tuber		➤ Prepare land and plant seed tubers when the soil is relatively dry. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. ➤ Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing after the harvesting of rice for economic utilization of available soil moisture. ➤ It may be sown as relay cropping (sowing seeds before 2-3 days of harvesting mature crop) or at zero tillage (preferably sandy loam soil with adequate soil moisture). ➤ Seed rate is 10 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey Mildew at early growth stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose per hectare before sowing. Recommended variety – M-27.
Lentil	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing as relay cropping or at zero/ minimum tillage. ➤ Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		➤ Land preparation for sowing field pea may be started just after harvest. ➤ Procure good quality seeds from reliable sources for sowing. Treat seed using Bavistin @ 2.5 mg/ lit of water before sowing. ➤ Seed rate is 80-100kg/ ha.
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. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops			
* Light watering during morning hours is advised.			
* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Rabi Vegetable (cole crops/ onion/	Land preparation for transplanting		➤ For raised seedlings, prepare land for transplanting (26-30 days old seedlings) may be done. Apply 50 kg DAP, 25kg MOP and 10 cart loads of



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Garlic)	of raised seedlings		FYM/ sangam as basal dose followed by 25 kg Urea. - Transplant 26-30 days old seedlings (4 leaves stage) of cole crops when soil moisture is optimum for transplanting. - 45-60 days old onion seedlings may be transplanted. - Garlic bulblets may be planted.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	➤ Apply of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Cauliflower	Transplanting		- Transplanting of 26-30 days old seedlings may be done. - Apply Tracer @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from sudden drop in temperature. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotoxaemia.
		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.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. - Feeds should be provided @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:

Lakliba Nongmaijing faobadi nong chudaba yai. Phou khaobibagi matungda hectare amada 12-15kg rapeseed M-27 gi maru hunbiyu amadi hawai masuri na 40kg gi changda hunbiyu. Lainadagi ngakthoknaba hundringeida maru kg amada 2g gi changda Mancozeb totpiyu. Sha-uchekki makol ningthina loisandiduna ayingbadagi ngakpiyu.

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15th November, 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 16th to 20th November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th November, 2016) The sky remain mainly clear to but cloudy during morning of 11 th and clear to variable during afternoon. 1.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 25.9 to 28.1 °C, range of minimum temperature observed was 11.6 to 17.6 °C, mean relative humidity observed in morning and afternoon were 92.5 % and 58.2 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.	Weather forecast for next five days of Ukhrul (16th to 20th November, 2016) Likely to have no rain upto Sunday. Dense fog is very likely at isolated places during morning hours of 16 th & 17 th Nov and mainly clear to partly cloudy during day time with maximum temp. 22 – 24 °C & minimum temp. 9 - 11 °C. Relative humidity may reach upto 99 % (max RH) & 51 % (min RH). The average wind speed may be 3 km/hr. Wind direction may be North Easterly during next five days.
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Weather Warning during next 5 days *
Dense fog very likely at isolated places over Manipur

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Harvesting to post-harvesting		- Stacking of the harvested panicles for 2-3 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Groundnut/ Soybean	Harvesting to post-harvesting		- Make bundles and dry the crops under roof/ in shade for 2-3 days for curing. - Remove pods from plant and keep the pods free from debris/ damage. - Remove the soil attached to the pods of groundnut. - Dry it for 4-5 days in sun to attain optimum moisture content before storage. - Select good quality pods for seeds.
Blackgram	Harvesting to post-harvesting		➤ Dry it for 4-5 days in sun to attain optimum moisture content before storage. Select disease free seeds for storage as seeds.
Potato	Land preparation and selection of seed tuber		➤ Prepare land and plant seed tubers when the soil is relatively dry. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. ➤ Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing after the harvesting of rice for economic utilization of available soil moisture. ➤ It may be sown as relay cropping (sowing seeds before 2-3 days of harvesting mature crop) or at zero tillage (preferably sandy loam soil with adequate soil moisture). ➤ Seed rate is 10 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey Mildew at early growth stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose per hectare before sowing. Recommended variety – M-27.
Lentil	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing as relay cropping or at zero/ minimum tillage. ➤ Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		➤ Land preparation for sowing field pea may be started just after harvest. ➤ Procure good quality seeds from reliable sources for sowing. Treat seed using Bavistin @ 2.5 mg/ lit of water before sowing. ➤ Seed rate is 80-100kg/ ha.
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. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

* Light watering during morning hours is advised.

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

Rabi Vegetable (cole crops/ onion/	Land preparation for transplanting		➤ For raised seedlings, prepare land for transplanting (26-30 days old seedlings) may be done. Apply 50 kg DAP, 25kg MOP and 10 cart loads of
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Garlic)	of raised seedlings		FYM/ sangam as basal dose followed by 25 kg Urea. - Transplant 26-30 days old seedlings (4 leaves stage) of cole crops when soil moisture is optimum for transplanting. - 45-60 days old onion seedlings may be transplanted. - Garlic bulblets may be planted.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	➤ Apply of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Cauliflower	Transplanting		- Transplanting of 26-30 days old seedlings may be done. - Apply Tracer @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from sudden drop in temperature. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotoxaemia.
		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.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. - Feeds should be provided @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:

Lakliba Nongmaijing faobadi nong chudaba yai. Phou khaobibagi matungda hectare amada 12-15kg rapeseed M-27 gi maru hunbiyu amadi hawai masuri na 40kg gi changda hunbiyu. Lainadagi ngakthoknaba hundringeida maru kg amada 2g gi changda Mancozeb totpiyu. Sha-uchekki makol ningthina loisandiduna ayingbadagi ngakpiyu.

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Imphal East

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Weather Warning during next 5 days *

Dense fog very likely at isolated places over Manipur

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		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
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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 16th to 20th November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th November, 2016) The sky remain mainly clear to but cloudy during morning of 11 th and clear to variable during afternoon. 1.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 25.9 to 28.1 °C, range of minimum temperature observed was 11.6 to 17.6 °C, mean relative humidity observed in morning and afternoon were 92.5 % and 58.2 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.	Weather forecast for next five days of Imphal West (16th to 20th November, 2016) Likely to have no rain upto Sunday. Dense fog is very likely at isolated places during morning hours of 16 th & 17 th Nov and mainly clear to partly cloudy during day time with maximum temp. 25 – 27 °C & minimum temp. 10 - 13 °C. Relative humidity may reach upto 97 % (max RH) & 41 % (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.
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Weather Warning during next 5 days *
Dense fog very likely at isolated places over Manipur

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Harvesting to post-harvesting		- Stacking of the harvested panicles for 2-3 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Groundnut/ Soybean	Harvesting to post-harvesting		- Make bundles and dry the crops under roof/ in shade for 2-3 days for curing. - Remove pods from plant and keep the pods free from debris/ damage. - Remove the soil attached to the pods of groundnut. - Dry it for 4-5 days in sun to attain optimum moisture content before storage. - Select good quality pods for seeds.
Blackgram	Harvesting to post-harvesting		➤ Dry it for 4-5 days in sun to attain optimum moisture content before storage. Select disease free seeds for storage as seeds.
Potato	Land preparation and selection of seed tuber		➤ Prepare land and plant seed tubers when the soil is relatively dry. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. ➤ Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing after the harvesting of rice for economic utilization of available soil moisture. ➤ It may be sown as relay cropping (sowing seeds before 2-3 days of harvesting mature crop) or at zero tillage (preferably sandy loam soil with adequate soil moisture). ➤ Seed rate is 10 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey Mildew at early growth stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose per hectare before sowing. Recommended variety – M-27.
Lentil	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing as relay cropping or at zero/ minimum tillage. ➤ Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		➤ Land preparation for sowing field pea may be started just after harvest. ➤ Procure good quality seeds from reliable sources for sowing. Treat seed using Bavistin @ 2.5 mg/ lit of water before sowing. ➤ Seed rate is 80-100kg/ ha.
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. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

* Light watering during morning hours is advised.

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

Rabi Vegetable (cole crops/ onion/	Land preparation for transplanting		➤ For raised seedlings, prepare land for transplanting (26-30 days old seedlings) may be done. Apply 50 kg DAP, 25kg MOP and 10 cart loads of
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ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Garlic)	of raised seedlings		FYM/ sangam as basal dose followed by 25 kg Urea. - Transplant 26-30 days old seedlings (4 leaves stage) of cole crops when soil moisture is optimum for transplanting. - 45-60 days old onion seedlings may be transplanted. - Garlic bulblets may be planted.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	➤ Apply of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Cauliflower	Transplanting		- Transplanting of 26-30 days old seedlings may be done. - Apply Tracer @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from sudden drop in temperature. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotoxaemia.
		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.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. - Feeds should be provided @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:

Lakliba Nongmaijing faobadi nong chudaba yai. Phou khaobibagi matungda hectare amada 12-15kg rapeseed M-27 gi maru hunbiyu amadi hawai masuri na 40kg gi changda hunbiyu. Lainadagi ngakthoknaba hundringeida maru kg amada 2g gi changda Mancozeb totpiyu. Sha-uchekki makol ningthina loisandiduna ayingbadagi ngakpiyu.

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Manipur Centre, Lamphelpat, Imphal - 795 004
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MANIPUR BULLETIN
15th November, 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 16th to 20th November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th November, 2016) The sky remain mainly clear to but cloudy during morning of 11 th and clear to variable during afternoon. 1.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 25.9 to 28.1 °C, range of minimum temperature observed was 11.6 to 17.6 °C, mean relative humidity observed in morning and afternoon were 92.5 % and 58.2 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.	Weather forecast for next five days of Bishnupur (16th to 20th November, 2016) Likely to have no rain upto Sunday. Dense fog is very likely at isolated places during morning hours of 16 th & 17 th Nov and mainly clear to partly cloudy during day time with maximum temp. 25 – 26 °C & minimum temp. 11 - 13 °C. Relative humidity may reach upto 99 % (max RH) & 47 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.
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Weather Warning during next 5 days *
Dense fog very likely at isolated places over Manipur

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Harvesting to post-harvesting		- Stacking of the harvested panicles for 2-3 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Groundnut/ Soybean	Harvesting to post-harvesting		- Make bundles and dry the crops under roof/ in shade for 2-3 days for curing. - Remove pods from plant and keep the pods free from debris/ damage. - Remove the soil attached to the pods of groundnut. - Dry it for 4-5 days in sun to attain optimum moisture content before storage. - Select good quality pods for seeds.
Blackgram	Harvesting to post-harvesting		➤ Dry it for 4-5 days in sun to attain optimum moisture content before storage. Select disease free seeds for storage as seeds.
Potato	Land preparation and selection of seed tuber		➤ Prepare land and plant seed tubers when the soil is relatively dry. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. ➤ Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing after the harvesting of rice for economic utilization of available soil moisture. ➤ It may be sown as relay cropping (sowing seeds before 2-3 days of harvesting mature crop) or at zero tillage (preferably sandy loam soil with adequate soil moisture). ➤ Seed rate is 10 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey Mildew at early growth stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose per hectare before sowing. Recommended variety – M-27.
Lentil	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing as relay cropping or at zero/ minimum tillage. ➤ Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		➤ Land preparation for sowing field pea may be started just after harvest. ➤ Procure good quality seeds from reliable sources for sowing. Treat seed using Bavistin @ 2.5 mg/ lit of water before sowing. ➤ Seed rate is 80-100kg/ ha.
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. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops			
* Light watering during morning hours is advised.			
* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Rabi Vegetable (cole crops/ onion/	Land preparation for transplanting		➤ For raised seedlings, prepare land for transplanting (26-30 days old seedlings) may be done. Apply 50 kg DAP, 25kg MOP and 10 cart loads of



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Garlic)	of raised seedlings		FYM/ sangam as basal dose followed by 25 kg Urea. - Transplant 26-30 days old seedlings (4 leaves stage) of cole crops when soil moisture is optimum for transplanting. - 45-60 days old onion seedlings may be transplanted. - Garlic bulblets may be planted.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	➤ Apply of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Cauliflower	Transplanting		- Transplanting of 26-30 days old seedlings may be done. - Apply Tracer @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from sudden drop in temperature. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotoxaemia.
		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.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. - Feeds should be provided @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:

Lakliba Nongmaijing faobadi nong chudaba yai. Phou khaobibagi matungda hectare amada 12-15kg rapeseed M-27 gi maru hunbiyu amadi hawai masuri na 40kg gi changda hunbiyu. Lainadagi ngakthoknaba hundringeida maru kg amada 2g gi changda Mancozeb totpiyu. Sha-uchekki makol ningthina loisanbiduna ayingbadagi ngakpiyu.

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MANIPUR BULLETIN
15th November, 2016

Chandel

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Weather Warning during next 5 days *
Dense fog very likely at isolated places over Manipur

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Harvesting to post-harvesting		- Stacking of the harvested panicles for 2-3 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Groundnut/ Soybean	Harvesting to post-harvesting		- Make bundles and dry the crops under roof/ in shade for 2-3 days for curing. - Remove pods from plant and keep the pods free from debris/ damage. - Remove the soil attached to the pods of groundnut. - Dry it for 4-5 days in sun to attain optimum moisture content before storage. - Select good quality pods for seeds.
Blackgram	Harvesting to post-harvesting		➤ Dry it for 4-5 days in sun to attain optimum moisture content before storage. Select disease free seeds for storage as seeds.
Potato	Land preparation and selection of seed tuber		➤ Prepare land and plant seed tubers when the soil is relatively dry. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. ➤ Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing after the harvesting of rice for economic utilization of available soil moisture. ➤ It may be sown as relay cropping (sowing seeds before 2-3 days of harvesting mature crop) or at zero tillage (preferably sandy loam soil with adequate soil moisture). ➤ Seed rate is 10 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey Mildew at early growth stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose per hectare before sowing. Recommended variety – M-27.
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Horticulture Crops			
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Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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		Ectoparasites	Butox@ 2ml/lit of water at forth night.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. - Feeds should be provided @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:

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MANIPUR BULLETIN

15th November, 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 16th to 20th November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th November, 2016) The sky remain mainly clear to but cloudy during morning of 11 th and clear to variable during afternoon. 1.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 25.9 to 28.1 °C, range of minimum temperature observed was 11.6 to 17.6 °C, mean relative humidity observed in morning and afternoon were 92.5 % and 58.2 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.	Weather forecast for next five days of Churachandpur (16th to 20th November, 2016) Likely to have no rain upto Sunday. Dense fog is very likely at isolated places during morning hours of 16 th & 17 th Nov and mainly clear to partly cloudy during day time with maximum temp. 25 – 27 °C & minimum temp. 10 - 12 °C. Relative humidity may reach upto 98 % (max RH) & 48 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.
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Weather Warning during next 5 days *

Dense fog very likely at isolated places over Manipur

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Harvesting to post-harvesting		- Stacking of the harvested panicles for 2-3 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Groundnut/ Soybean	Harvesting to post-harvesting		- Make bundles and dry the crops under roof/ in shade for 2-3 days for curing. - Remove pods from plant and keep the pods free from debris/ damage. - Remove the soil attached to the pods of groundnut. - Dry it for 4-5 days in sun to attain optimum moisture content before storage. - Select good quality pods for seeds.
Blackgram	Harvesting to post-harvesting		➤ Dry it for 4-5 days in sun to attain optimum moisture content before storage. Select disease free seeds for storage as seeds.
Potato	Land preparation and selection of seed tuber		➤ Prepare land and plant seed tubers when the soil is relatively dry. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. ➤ Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing after the harvesting of rice for economic utilization of available soil moisture. ➤ It may be sown as relay cropping (sowing seeds before 2-3 days of harvesting mature crop) or at zero tillage (preferably sandy loam soil with adequate soil moisture). ➤ Seed rate is 10 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey Mildew at early growth stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose per hectare before sowing. Recommended variety – M-27.
Lentil	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing as relay cropping or at zero/ minimum tillage. ➤ Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		➤ Land preparation for sowing field pea may be started just after harvest. ➤ Procure good quality seeds from reliable sources for sowing. Treat seed using Bavistin @ 2.5 mg/ lit of water before sowing. ➤ Seed rate is 80-100kg/ ha.
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. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

* Light watering during morning hours is advised.

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

Rabi Vegetable (cole crops/ onion/	Land preparation for transplanting		➤ For raised seedlings, prepare land for transplanting (26-30 days old seedlings) may be done. Apply 50 kg DAP, 25kg MOP and 10 cart loads of
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ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Garlic)	of raised seedlings		FYM/ sangam as basal dose followed by 25 kg Urea. - Transplant 26-30 days old seedlings (4 leaves stage) of cole crops when soil moisture is optimum for transplanting. - 45-60 days old onion seedlings may be transplanted. - Garlic bulblets may be planted.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	➤ Apply of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Cauliflower	Transplanting		- Transplanting of 26-30 days old seedlings may be done. - Apply Tracer @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from sudden drop in temperature. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotoxaemia.
		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.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. - Feeds should be provided @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:

Lakliba Nongmaijing faobadi nong chudaba yai. Phou khaobibagi matungda hectare amada 12-15kg rapeseed M-27 gi maru hunbiyu amadi hawai masuri na 40kg gi changda hunbiyu. Lainadagi ngakthoknaba hundringeida maru kg amada 2g gi changda Mancozeb totpiyu. Sha-uchekki makol ningthina loisanbiduna ayingbadagi ngakpiyu.

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



MANIPUR BULLETIN
15th November, 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 16th to 20th November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th November, 2016) The sky remain mainly clear to but cloudy during morning of 11 th and clear to variable during afternoon. 1.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 25.9 to 28.1 °C, range of minimum temperature observed was 11.6 to 17.6 °C, mean relative humidity observed in morning and afternoon were 92.5 % and 58.2 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.	Weather forecast for next five days of Senapati (16th to 20th November, 2016) Likely to have no rain upto Sunday. Dense fog is very likely at isolated places during morning hours of 16 th & 17 th Nov and mainly clear to partly cloudy during day time with maximum temp. 22 – 24 °C & minimum temp. 9 - 11 °C. Relative humidity may reach upto 100 % (max RH) & 41 % (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.
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Weather Warning during next 5 days *
 Dense fog very likely at isolated places over Manipur

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Harvesting to post-harvesting		- Stacking of the harvested panicles for 2-3 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Groundnut/ Soybean	Harvesting to post-harvesting		- Make bundles and dry the crops under roof/ in shade for 2-3 days for curing. - Remove pods from plant and keep the pods free from debris/ damage. - Remove the soil attached to the pods of groundnut. - Dry it for 4-5 days in sun to attain optimum moisture content before storage. - Select good quality pods for seeds.
Blackgram	Harvesting to post-harvesting		➤ Dry it for 4-5 days in sun to attain optimum moisture content before storage. Select disease free seeds for storage as seeds.
Potato	Land preparation and selection of seed tuber		➤ Prepare land and plant seed tubers when the soil is relatively dry. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. ➤ Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing after the harvesting of rice for economic utilization of available soil moisture. ➤ It may be sown as relay cropping (sowing seeds before 2-3 days of harvesting mature crop) or at zero tillage (preferably sandy loam soil with adequate soil moisture). ➤ Seed rate is 10 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey Mildew at early growth stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose per hectare before sowing. Recommended variety – M-27.
Lentil	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing as relay cropping or at zero/ minimum tillage. ➤ Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		➤ Land preparation for sowing field pea may be started just after harvest. ➤ Procure good quality seeds from reliable sources for sowing. Treat seed using Bavistin @ 2.5 mg/ lit of water before sowing. ➤ Seed rate is 80-100kg/ ha.
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. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

* Light watering during morning hours is advised.

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

Rabi Vegetable (cole crops/ onion/	Land preparation for transplanting		➤ For raised seedlings, prepare land for transplanting (26-30 days old seedlings) may be done. Apply 50 kg DAP, 25kg MOP and 10 cart loads of
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**ICAR Research Complex for N.E.H. Region**

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

Garlic)	of raised seedlings		FYM/ sangam as basal dose followed by 25 kg Urea. - Transplant 26-30 days old seedlings (4 leaves stage) of cole crops when soil moisture is optimum for transplanting. - 45-60 days old onion seedlings may be transplanted. - Garlic bulblets may be planted.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	➤ Apply of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Cauliflower	Transplanting		- Transplanting of 26-30 days old seedlings may be done. - Apply Tracer @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from sudden drop in temperature. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotoxaemia.
		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.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. - Feeds should be provided @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:

Lakliba Nongmaijing faobadi nong chudaba yai. Phou khaobibagi matungda hectare amada 12-15kg rapeseed M-27 gi maru hunbiyu amadi hawai masuri na 40kg gi changda hunbiyu. Lainadagi ngakthoknaba hundringeida maru kg amada 2g gi changda Mancozeb totpiyu. Sha-uchekki makol ningthina loisandiduna ayingbadagi ngakpiyu.

(I. Meghachandra Singh)



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MANIPUR BULLETIN

15th November, 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 16th to 20th November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th November, 2016) The sky remain mainly clear to but cloudy during morning of 11 th and clear to variable during afternoon. 1.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 25.9 to 28.1 °C, range of minimum temperature observed was 11.6 to 17.6 °C, mean relative humidity observed in morning and afternoon were 92.5 % and 58.2 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.	Weather forecast for next five days of Tamenglong (16th to 20th November, 2016) Likely to have no rain upto Sunday. Dense fog is very likely at isolated places during morning hours of 16 th & 17 th Nov and mainly clear to partly cloudy during day time with maximum temp. 26 – 27 °C & minimum temp. 12 - 14 °C. Relative humidity may reach upto 96 % (max RH) & 43 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be North Easterly during next five days.
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Weather Warning during next 5 days *

Dense fog very likely at isolated places over Manipur

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Main kharif rice	Harvesting to post-harvesting		- Stacking of the harvested panicles for 2-3 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Groundnut/ Soybean	Harvesting to post-harvesting		- Make bundles and dry the crops under roof/ in shade for 2-3 days for curing. - Remove pods from plant and keep the pods free from debris/ damage. - Remove the soil attached to the pods of groundnut. - Dry it for 4-5 days in sun to attain optimum moisture content before storage. - Select good quality pods for seeds.
Blackgram	Harvesting to post-harvesting		➤ Dry it for 4-5 days in sun to attain optimum moisture content before storage. Select disease free seeds for storage as seeds.
Potato	Land preparation and selection of seed tuber		➤ Prepare land and plant seed tubers when the soil is relatively dry. ➤ Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. ➤ Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing after the harvesting of rice for economic utilization of available soil moisture. ➤ It may be sown as relay cropping (sowing seeds before 2-3 days of harvesting mature crop) or at zero tillage (preferably sandy loam soil with adequate soil moisture). ➤ Seed rate is 10 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey Mildew at early growth stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose per hectare before sowing. Recommended variety – M-27.
Lentil	Seed collection to sowing		➤ Procure good quality seeds from reliable sources for sowing as relay cropping or at zero/ minimum tillage. ➤ Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		➤ Land preparation for sowing field pea may be started just after harvest. ➤ Procure good quality seeds from reliable sources for sowing. Treat seed using Bavistin @ 2.5 mg/ lit of water before sowing. ➤ Seed rate is 80-100kg/ ha.
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. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.

Horticulture Crops

* Light watering during morning hours is advised.

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

Rabi Vegetable (cole crops/ onion/	Land preparation for transplanting		➤ For raised seedlings, prepare land for transplanting (26-30 days old seedlings) may be done. Apply 50 kg DAP, 25kg MOP and 10 cart loads of
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**ICAR Research Complex for N.E.H. Region**

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

Garlic)	of raised seedlings		FYM/ sangam as basal dose followed by 25 kg Urea. - Transplant 26-30 days old seedlings (4 leaves stage) of cole crops when soil moisture is optimum for transplanting. - 45-60 days old onion seedlings may be transplanted. - Garlic bulblets may be planted.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	➤ Apply of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Cauliflower	Transplanting		- Transplanting of 26-30 days old seedlings may be done. - Apply Tracer @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from sudden drop in temperature. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotoxaemia.
		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.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. - Feeds should be provided @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:

Lakliba Nongmaijing faobadi nong chudaba yai. Phou khaobibagi matungda hectare amada 12-15kg rapeseed M-27 gi maru hunbiyu amadi hawai masuri na 40kg gi changda hunbiyu. Lainadagi ngakthoknaba hundringeida maru kg amada 2g gi changda Mancozeb totpiyu. Sha-uchekki makol ningthina loisanbiduna ayingbadagi ngakpiyu.

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