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



MANIPUR BULLETIN 18th 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 19th to 23rd November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th November, 2016) The sky remain foggy during morning and clear during afternoon hours. No rainfall was recorded during past three days. Maximum temperature range observed was 26.2 to 26.6 ° C, range of minimum temperature observed was 10.7 to 12.3 ° C, mean relative humidity observed in morning and afternoon were 90.7 % and 53.0 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.

Weather forecast for next five days of Senapati (19th to 23rd November, 2016)

Likely to have no rain upto Sunday. Moderate to dense fog is very likely at isolated places during morning hours of 19^{th} Nov and mainly clear to partly cloudy during day time with maximum temp. 20 - 23 ° C & minimum temp. 5 - 8 °C. Relative humidity may reach upto 99 % (max RH) & 34 % (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.

curling, development of purple coloured vein due to absence of micronutrient. If

E-mail: agromet mnp@yahoo.co.uk

Weather Warning during next 5 days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			J
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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		 Sow seeds after the harvesting rice for economic utilization of available soil moisture where there is impression of finger on the soil when pressed. 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		 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 at 80:20. 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	g morning hours is adv	ised.	
			r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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	opot	 Transplanting of 26-30 days old seedlings may be done. Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf



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			required repeat it after 10 days. * Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	riander Land preparation & sowing		 Select area with full sunshine rich in organic matter 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 t improve soil fertility. Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation sowing	ı &	 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
PoultryAll age groups(Chicken/Turkey/ Duck)		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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	excepts the young ones	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 Mastitis	Oat/Bersum seeds must be sown from the middle of this month. Adequate care must be taken to prevent occurrence of Masitis.
Fishery:		1914511115	Aucquait care must be taken to prevent occurrence of Mastus.
	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	magement	 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.

SMS:



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



Phone: 2414654, 2414260, 2414749 ; Fax : (0385) 2414654, 2414749

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



MANIPUR BULLETIN 18th 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 19th to 23rd November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th November, 2016) The sky remain foggy during morning and clear during afternoon hours. No rainfall was recorded during past three days. Maximum temperature range observed was 26.2 to 26.6 ° C, range of minimum temperature observed was 10.7 to 12.3 ° C, mean relative humidity observed in morning and afternoon were 90.7 % and 53.0 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.

Weather forecast for next five days of Tamenglong (19th to 23rd November, 2016)

Likely to have no rain upto Sunday. Moderate to dense fog is very likely at isolated places during morning hours of 19^{th} Nov and mainly clear to partly cloudy during day time with maximum temp. 26 - 28 ° C & minimum temp. 10 - 12 ° C. Relative humidity may reach upto 97 % (max RH) & 37 % (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 *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			J
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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/	Seed collection to		Sow seeds after the harvesting rice for economic utilization of available soil
Mustard	sowing		 moisture where there is impression of finger on the soil when pressed. 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		Procure good quality seeds from reliable sources for sowing as relay
	sowing		cropping or at zero/ minimum tillage. Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		 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 at 80:20. 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 durin * In fruit crops and per the soil temperature.			r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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	2200	 Transplanting of 26-30 days old seedlings may be done. Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If



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			required repeat it after 10 days. * Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	boriander Land preparation & sowing		 Select area with full sunshine rich in organic matter 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.
Spinach (Palak) Land preparation sowing		ı &	 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Animal Science		T	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All age groups (Chicken/ Turkey/ Duck)		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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	excepts the young ones	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.
Einle anne		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
Fishery:	Store	Managamart	A and motival advisation
Type of Farming Carp/ Catfish culture	Stage Harvesting and stock	Management	 Agro-metrological advisories 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.
	maintenance		 Well balanced feed fortified with vitamins and minerals should be provided. Apply Lime @ 30-35 kg/ha at 30days interval.

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Thoubal

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Weather forecast for next five days of Thoubal (19th to 23rd November, 2016)

Likely to have no rain upto Sunday. Moderate to dense fog is very likely at isolated places during morning hours of 19^{th} Nov and mainly clear to partly cloudy during day time with maximum temp. 25 - 27 ° C & minimum temp. 9 - 11 °C. Relative humidity may reach upto 99 % (max RH) & 43 % (min RH). The average wind speed may be 2 km/hr. Wind direction may be North Easterly during next five days.

curling, development of purple coloured vein due to absence of micronutrient. If

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Weather Warning during next 5 days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			J
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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		 Sow seeds after the harvesting rice for economic utilization of available soil moisture where there is impression of finger on the soil when pressed. 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		 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 at 80:20. 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 * In fruit crops and per the soil temperature.			r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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 Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf



"Gramin Krishi Mausam Seva"



			required repeat it after 10 days. * Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	iander Land preparation & sowing		 Select area with full sunshine rich in organic matter 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.
Spinach (Palak) Land preparation sowing		ı &	 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Animal Science	5		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All age groups (Chicken/ Turkey/ Duck)		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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	excepts the young ones	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.
Fial ame		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
Fishery: Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Stage Management 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.

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Ukhrul

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Weather forecast for next five days of Ukhrul (19th to 23rd November, 2016) Likely to have no rain upto Sunday. Moderate to dense fog is very likely at

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curling, development of purple coloured vein due to absence of micronutrient. If

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Weather Warning during next 5 days *

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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		 Sow seeds after the harvesting rice for economic utilization of available soil moisture where there is impression of finger on the soil when pressed. 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		 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 at 80:20. 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 * In fruit crops and per the soil temperature.			r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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 Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf



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				required repeat it after 10 days. * Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander Land preparative sowing Spinach (Palak) Land preparation sowing				 Select area with full sunshine rich in organic matter 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.
		aration &		 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Animal Science				
Name of the animal	Growth	stage Disea	ase/ infestation	Agro-meteorological advisories
Poultry All age groups (Chicken/ Turkey/ Duck)		roups 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.
		Dew	orming	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.
		Cocc	idiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age g	roups Vacc	ination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	excepts the young on		vorming	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 g except th young on	e	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
			sinfestation	Spray with Skin Heal Spray in sufficient quantity.
			orming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle All age groups excepts the young ones		he 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.
			parasites	Butox@ 2ml/lit of water at forth night.
			& management	Oat/Bersum seeds must be sown from the middle of this month.
Fial ame		Mast	ius	Adequate care must be taken to prevent occurrence of Masitis.
<i>Fishery:</i> Type of Farming	Stage	Mon	gement	Agro-metrological advisories
Carp/ Catfish culture	Harvesting stock maintenanc	and	genien	 - 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:



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



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



MANIPUR BULLETIN 18th 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 19th to 23rd November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th November, 2016) The sky remain foggy during morning and clear during afternoon hours. No rainfall was recorded during past three days. Maximum temperature range observed was 26.2 to 26.6 ° C, range of minimum temperature observed was 10.7 to 12.3 ° C, mean relative humidity observed in morning and afternoon were 90.7 % and 53.0 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.

Weather forecast for next five days of Bishnupur (19th to 23rd November, 2016) Likely to have no rain upto Sunday. Moderate to dense fog is very likely at

isolated places during morning hours of 19^{th} Nov and mainly clear to partly cloudy during day time with maximum temp. 25 - 27 ° C & minimum temp. 10 - 11 °C. Relative humidity may reach upto 98 % (max RH) & 41 % (min RH). The average wind speed may be 2 km/hr. Wind direction may be North Easterly during next five days.

E-mail: agromet_mnp@yahoo.co.uk

Weather Warning during next 5 days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			J
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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/	Seed collection to		Sow seeds after the harvesting rice for economic utilization of available soil
Mustard	sowing		 moisture where there is impression of finger on the soil when pressed. 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		Procure good quality seeds from reliable sources for sowing as relay
	sowing		cropping or at zero/ minimum tillage. Seed rate is 40kg/ha.
Field pea	Land preparation & seed collection		 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 at 80:20. 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 durin * In fruit crops and per the soil temperature.	rennial vegetables, appl		r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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	2200	 Transplanting of 26-30 days old seedlings may be done. Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If



"Gramin Krishi Mausam Seva"



	maintenance	1	- Well balanced feed fortified with vitamins and minerals should be provided.
culture	stock		- Feeds should be provided @ 3 % body weight per day.
Carp/ Catfish	Harvesting and		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha.
Type of Farming	Stage	Management	Agro-metrological advisories - Stocking of fish for next year may be done in ponds having 1.5m water depth @
Fishery:		[
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Care & management	Oat/Bersum seeds must be sown from the middle of this month.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
			solution of Potassium Permanganate.
			The mouth, hooves and udders of diseased animals must be cleaned with 1%
			affects heart and cause even death of the calves.
	young ones		 Calves should not be allowed to drink milk from mothers if affected by FMD, it
	young ones	р.б. цтэ\сыр	 Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure.
Cattle	All age groups excepts the	B.Q./ H.S/FMD	If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc.
Cattle		Deworming	 Give Piperazine liquid @ 10-15ml orally once only. If not vaccinated give vaccing for Black Overtor new Hapmorrhagie contingentia
		Mites infestation	 Spray with Skin Heal Spray in sufficient quantity. Give Piperszine liquid @ 10, 15ml erelly once only.
	young ones	M:4:	Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
	except the		Treat drinking water with potassium permanganate/ sanitizer.
Pig	All age groups	Care and management	Mineral mixture be added in feed @10-20 g/adult animal.
	young ones		mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	excepts the	De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5
Sheep/ Goat	All age groups	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	4 11	T7 • .•	for 7 days.
		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water
			half the dose at regular interval of 3 weeks.
		Deworming	➢ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
			Litter must be kept dry.
Turkey/ Duck)			the shed.
(Chicken/			cloth during night. Proper ventilation must be provided to protect from moisture inside
Poultry	All age groups	Care & management	Protect from sudden drop in temperature. Keep the shed wall covered with hessian
animal	or on the stuge	Discuse, micsuiton	
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
Animal Science	<u>s</u>		j 1 1
			dose is required.
	6		- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the
	sowing		Spacing may be maintained at 10cm x 20-25cm apart.
	preparation	n &	- Avoid damping off by adding Captan 50WP in the soil of bed.
Spinach (Palak) Land		- Well drained soil is best for growing spinach beet.
			- Seed rate is 100g seeds for 100 sq. m.
			improve soil fertility.
			- Apply 200-250 kg of FYM (@ ¹ / ₂ cart load) in 100 sq. m and mix thoroughly to
	& sowing		soli using Dichlorovos @ Tmi/ Intre of water 2-3 days before sowing to protect seeds from ant and other insects.
Coriander	Land prepar & sowing	auon	soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect
Comiondon	I and proper	ation	infested by cut-worms. - Select area with full sunshine rich in organic matter for preparing beds. Treat
			* Apply <i>Chloropyriphos</i> (1.5%) dust @25 kg /ha to the cauliflower/ cabbage
			required repeat it after 10 days.

SMS:



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



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



MANIPUR BULLETIN 18th November, 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 19th to 23rd November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th November, 2016) The sky remain foggy during morning and clear during afternoon hours. No rainfall was recorded during past three days. Maximum temperature range observed was 26.2 to 26.6 ° C, range of minimum temperature observed was 10.7 to 12.3 ° C, mean relative humidity observed in morning and afternoon were 90.7 % and 53.0 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.

Weather forecast for next five days of Chandel (19th to 23rd November, 2016)

Likely to have no rain upto Sunday. Moderate to dense fog is very likely at isolated places during morning hours of 19^{th} Nov and mainly clear to partly cloudy during day time with maximum temp. $25 - 26^{\circ}$ C & minimum temp. $9 - 10^{\circ}$ C. Relative humidity may reach upto 97 % (max RH) & 48 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North Easterly during next five days.

E-mail: agromet_mnp@yahoo.co.uk

Weather Warning during next 5 days *

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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		 Sow seeds after the harvesting rice for economic utilization of available soil moisture where there is impression of finger on the soil when pressed. 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		 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 at 80:20. 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 * In fruit crops and per the soil temperature.	rennial vegetables, appl		r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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 Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If



"Gramin Krishi Mausam Seva"



			required repeat it after 10 days. * Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander Land preparation & sowing		ation	 Select area with full sunshine rich in organic matter 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.
Spinach (Palak) Land preparation sowing	n &	 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Animal Science	s	Y	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All age groups (Chicken/ Turkey/Duck)		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.
Сос		Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All age groups	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	excepts the young ones	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.
excepts the	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:



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



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



MANIPUR BULLETIN 18th 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 19th to 23rd November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th November, 2016) The sky remain foggy during morning and clear during afternoon hours. No rainfall was recorded during past three days. Maximum temperature range observed was 26.2 to 26.6 ° C, range of minimum temperature observed was 10.7 to 12.3 ° C, mean relative humidity observed in morning and afternoon were 90.7 % and 53.0 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.

Weather forecast for next five days of Churachandpur (19th to 23rd November, 2016)

E-mail: agromet mnp@yahoo.co.uk

Likely to have no rain upto Sunday. Moderate to dense fog is very likely at isolated places during morning hours of 19^{th} Nov and mainly clear to partly cloudy during day time with maximum temp. 25 - 27 ° C & minimum temp. 8 - 10 °C. Relative humidity may reach upto 96 % (max RH) & 41 % (min RH). The average wind speed may be 3 km/hr. Wind direction may be North Easterly during next five days.

curling, development of purple coloured vein due to absence of micronutrient. If

Weather Warning during next 5 days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			J
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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		 Sow seeds after the harvesting rice for economic utilization of available soil moisture where there is impression of finger on the soil when pressed. 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		 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 at 80:20. 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			r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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 Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf



"Gramin Krishi Mausam Seva"



			required repeat it after 10 days. * Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander	Land prepar & sowing	ation	 Select area with full sunshine rich in organic matter for preparing beds. Treat soil using Dichlorovos @ 1 ml/ 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.
Spinach (Palak) Land preparation sowing	ı &	 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Animal Science	<i>s</i>		
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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	excepts the young ones	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.
Einh and		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
Fishery:	GL	Nr	
Type of Farming Carp/ Catfish culture	Stage Harvesting and stock	Management	Agro-metrological advisories - 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. Wall belanged feed fortified with vitaming and minorals should be provided
	maintenance		 Well balanced feed fortified with vitamins and minerals should be provided. Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:



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



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



MANIPUR BULLETIN 18th November, 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 19th to 23rd November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th November, 2016) The sky remain foggy during morning and clear during afternoon hours. No rainfall was recorded during past three days. Maximum temperature range observed was 26.2 to 26.6 ° C, range of minimum temperature observed was 10.7 to 12.3 ° C, mean relative humidity observed in morning and afternoon were 90.7 % and 53.0 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.

Weather forecast for next five days of Imphal East (19th to 23rd November, 2016)

Likely to have no rain upto Sunday. Moderate to dense fog is very likely at isolated places during morning hours of 19^{th} Nov and mainly clear to partly cloudy during day time with maximum temp. 26 - 27 ° C & minimum temp. 9 - 10 °C. Relative humidity may reach upto 100 % (max RH) & 35 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be North Easterly during next five days.

curling, development of purple coloured vein due to absence of micronutrient. If

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Weather Warning during next 5 days *

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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		 Sow seeds after the harvesting rice for economic utilization of available soil moisture where there is impression of finger on the soil when pressed. 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		 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 at 80:20. 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			r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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 Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf



"Gramin Krishi Mausam Seva"



					required repeat it after 10 days. * Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha to the cauliflower/ cabbage infested by cut-worms.
Coriander		Land prepara & sowing	ation		 Select area with full sunshine rich in organic matter 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.
Spinach (Palak	I s	Land preparation sowing	&		 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Animal Science					
Name of the animal	Gro	wth stage	Diseas	se/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All a	age groups	Care &	k 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.
			Dewo	rming	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.
			Cocci	diosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
Sheep/ Goat	All a	age groups	Vaccia	nation	Vaccinate against sheep/ goat pox and Enterotoxaemia.
		pts the ig ones	De-wo	orming	De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	exce	age groups pt the ng ones	Care a	nd 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
	-	0	Mites	infestation	Spray with Skin Heal Spray in sufficient quantity.
			Dewo	rming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle	exce	age groups pts the ng ones	_	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.
		r		arasites	Butox@ 2ml/lit of water at forth night.
		ŀ	Care & Mastit	k management	Oat/Bersum seeds must be sown from the middle of this month. Adequate care must be taken to prevent occurrence of Masitis.
Fishery:			wiasti	10	
Type of Farming	Stage		Manao	gement	Agro-metrological advisories
Carp/ Catfish culture		sting and enance		,uu	 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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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 18th November, 2016

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 19th to 23rd November, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (15th to 17th November, 2016) The sky remain foggy during morning and clear during afternoon hours. No rainfall was recorded during past three days. Maximum temperature range observed was 26.2 to 26.6 ° C, range of minimum temperature observed was 10.7 to 12.3 ° C, mean relative humidity observed in morning and afternoon were 90.7 % and 53.0 % respectively. The average wind speed range was 2.0 to 3.0 km/hr.

Weather forecast for next five days of Imphal West (19th to 23rd November, 2016)

Likely to have no rain upto Sunday. Moderate to dense fog is very likely at isolated places during morning hours of 19^{th} Nov and mainly clear to partly cloudy during day time with maximum temp. 25 - 27 ° C & minimum temp. 8 - 10 °C. Relative humidity may reach upto 98 % (max RH) & 35 % (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 *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			J
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.
Potato	Land preparation and selection of seed tuber		 Land preparation may be done. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 3 gm/lit of water for ½ hour and let it dry in shade before planting. Planting 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 advisible. Sow seed at about 3 inch depth.
Rapeseed/ Mustard	Seed collection to sowing		 Sow seeds after the harvesting rice for economic utilization of available soil moisture where there is impression of finger on the soil when pressed. 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		 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 at 80:20. 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 durin			r earthing up and weeding to conserve residual soil moisture as well as to maintain
Rabi Vegetable (cole crops/ onion/ Garlic)	Land preparation for transplanting of raised seedlings		 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 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 Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If



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Land prepar & sowing Land preparation sowing owth stage age groups age groups cepts the ang ones		 Select area with full sunshine rich in organic matter 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. Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. Agro-meteorological advisories 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. 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. Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days. Vaccinate against sheep/ goat pox and Enterotoxaemia.
preparation sowing owth stage age groups age groups cepts the	Disease/ infestation Care & management Deworming Coccidiosis Vaccination	 Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. Agro-meteorological advisories 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. ➤ 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. Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days. ➤ Vaccinate against sheep/ goat pox and Enterotoxaemia.
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age groups cept the ing 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.
age groups cepts the ang 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.
•	Management	Agro-metrological advisories
esting and		 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.
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