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

E-mail: agromet_mnp@yahoo.co.uk



MANIPUR BULLETIN 15th July, 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 July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12 th to 14 th July, 2016)	Weather forecast for next five days of Bishnupur (16 th to 20 th July, 2016)
The sky remained mainly to overcast. Rainfall of 23.3 mm was recorded	Likely to have light to moderate rain and heavy rain at isolated places upto
during past three days. Maximum temperature range observed was 31.6 to	Sunday. Sky will remain mainly cloudy to overcast, with maximum temp.
32.8 °C, range of minimum temperature observed was 22.1 to 24.2 °C,	30- 32 ° C & minimum temp. 25.0 ° C. Relative humidity may reach upto
mean relative humidity observed in morning and afternoon were 88.33 %	100 % (max RH) & 89 % (min RH). The average wind speed may be 2
and 65.33 % respectively. The average wind speed range was 3.4 to 5.1	km/hr. Wind direction may be South-Westerly to Westerly during the next
km/hr.	five days.

Weather warning for next five days *
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
Kharif maize	Cob formation to maturity		 Weeding may be done on sunny days to control weeds/ insect-pest. Maintain proper drainage system to avoid water logging.
Soybean	Sowing to vegetative		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is JS-335 at a spacing of 30x15 sq cm. Maintain proper drainage system to avoid water logging If not sown early, sowing must be done during July. Keep the plot clean to avoid hairy caterpillars. Hand weeding should be done before 30-35 days after sowing.
Storage (seed)			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			
Cauliflower	Nursery		Raise nursery of cauliflower in raised nursery beds (18-20 cm height) under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14 days interval.
		Rhizome rot	To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.





Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Turmeric/ Coriander	Intercropping		 Coriander variety Green Wonder or local one may be sown as intercrop plants in Turmeric field. High density sowing at a spacing of 5 cm x 10 cm may also be done.
Colocassia	Leaf spot/ Leaf blight		Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @ 2gm/lit water 14 days interval at least twice.
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Vegetative/harvest		 Avoid water stagnation in the root zone, harvest the mature ones. Avoid the fruits to touch the ground by staking or with the support of dried twigs.
Chilli	Seed Collection/Harvest		 Seed collection should be done preferably on bright sunshine hours. After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15 days interval.
Passion Fruit	Flowering to	Fruit rot	Spray Metalxyl+Mancozeb @ 2 g/litr water at 7 days interval
	fruiting) Fruit fly	Apply poison baiting with Jaggary+ fruit juice+Malathion (20:20:1) @ 40-50 baits/ha.
		Brown Spot	Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
) Termite) Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
) Collar rot) Drench the soil of collar region with 1% Bordeaux mixture

Animal Science Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal			
Do not let anima	-		of sudden growth in fodder after long submergence presence of cyanide has been found.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wl.
ex	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation Enteric disease Diarrhoea & Dysentry Deworming	 Spray with Skin Heal Spray in sufficient quantity. Use Livocin @ 7.5 mg per kg b.wt. 3-5 days. Prompt treatment with Antibiotics Sulpha drugs. Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia etc.

ICAR Research Complex for N.E.H. Region

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



		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	If the animals do not have access to green fodders, vitamin E injection/ supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Do not let animals graze in irrigated fodder fields/meadows
			After the birth of the self the new born must be fed with Colostrum within the first two hours.
			Give Calmore Forte @100ml orally once daily
		Milk Fever	 Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Deviable of the state of the
			Partial harvesting of marketable size fishes are also recommended
		Fish	Feed should be provided @ 3-5 % body weight per day
			Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	Water depth of the field can be increase by pumping or draining if water is available to continue the culture.
			> 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
			1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
			Feeding should be done @ 2% body weigh5t per day.

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MANIPUR BULLETIN 15th July, 2016

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Significant past weather for the preceding bi-weekly of Imphal - West (12 th to 14 th July, 2016)	Weather forecast for next five days of Chandel (16 th to 20 th July, 2016)
The sky remained mainly to overcast. Rainfall of 23.3 mm was recorded	Likely to have light to moderate rain and heavy rain at isolated places upto
during past three days. Maximum temperature range observed was 31.6 to	Sunday. Sky will remain mainly cloudy to overcast, with maximum temp.
32.8 °C, range of minimum temperature observed was 22.1 to 24.2 °C,	29 – 30 °C & minimum temp. 24.0 - 25.0 °C. Relative humidity may reach
mean relative humidity observed in morning and afternoon were 88.33 %	upto 99 % (max RH) & 96 % (min RH). The average wind speed may be 3-
and 65.33 % respectively. The average wind speed range was 3.4 to 5.1	5 km/hr. Wind direction may be South-Westerly to Westerly during the
km/hr.	next five days.

Weather warning for next five days *				
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016				

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	4	ł	
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
Kharif maize	Cob formation to maturity		 Weeding may be done on sunny days to control weeds/ insect-pest. Maintain proper drainage system to avoid water logging.
Soybean	Sowing to vegetative		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is JS-335 at a spacing of 30x15 sq cm. Maintain proper drainage system to avoid water logging If not sown early, sowing must be done during July. Keep the plot clean to avoid hairy caterpillars. Hand weeding should be done before 30-35 days after sowing.
Storage (seed)			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			
Cauliflower	Nursery		Raise nursery of cauliflower in raised nursery beds (18-20 cm height) under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14 days interval.
		Rhizome rot	To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.







Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Turmeric/ Coriander	Intercropping		 Coriander variety Green Wonder or local one may be sown as intercrop plants in Turmeric field. High density sowing at a spacing of 5 cm x 10 cm may also be done.
Colocassia	Leaf spot/ Leaf blight		Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @ 2gm/lit water 14 days interval at least twice.
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Vegetative/harvest		 Avoid water stagnation in the root zone, harvest the mature ones. Avoid the fruits to touch the ground by staking or with the support of dried twigs.
Chilli	Seed Collection/Harvest		 Seed collection should be done preferably on bright sunshine hours. After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15 days interval.
Passion Fruit	Flowering to	Fruit rot	Spray Metalxyl+Mancozeb @ 2 g/litr water at 7 days interval
	fruiting	/ Fruit fly	Apply poison baiting with Jaggary+ fruit juice+Malathion (20:20:1) @ 40-50 baits/ha.
		Brown Spot	Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
) Termite) Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
) Collar rot	Drench the soil of collar region with 1% Bordeaux mixture

Animal Science Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
	ls to graze in fodde	r fields now, as at the time	of sudden growth in fodder after long submergence presence of cyanide has been found.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water. Use medicated water for drenching.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wl.
except the	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation Enteric disease Diarrhoea & Dysentry	 Spray with Skin Heal Spray in sufficient quantity. Use Livocin @ 7.5 mg per kg b.wt. 3-5 days. Prompt treatment with Antibiotics Sulpha drugs.
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"Gramin Krishi Mausam Seva"



		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	If the animals do not have access to green fodders, vitamin E injection/ supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Do not let animals graze in irrigated fodder fields/meadows
			After the birth of the self the new born must be fed with Colostrum within the first two hours.
			Give Calmore Forte @100ml orally once daily
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus
			@ 70-100ml.
Fishery:	-	1	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Deviable of the state of the
			Partial harvesting of marketable size fishes are also recommended
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	D 11 C 1		Feed can be fed at 2 times a day.
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			> 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
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km/hr.	five days.

Weather warning for next five days *
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
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Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
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excepts	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
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		Care & management	 If the animals do not have access to green fodders, vitamin E injection/ supplements should be given.
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		Milk Fever	 Protect from milk fever by giving daily a mixture of calcium and phosphorus
		WIIK I OVOI	@ 70-100ml.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Fis	Fish nurseries	Pond and water	➢ Water depth should be maintain at 1.0-1.5m
			 Agri-lime should be applied in ponds
			 Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Encircle the pond with net or bamboo mat as a preventive measure for flood. Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond
		1 1511	 Duration is 25-45 days.
	Grow out	Pond and water	Water depth should be maintain at 1.5-2.0m
			Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	Sampling of fish for growth, disease (if any) should be done by regular netting.
			> Partial harvesting of marketable size fishes are also recommended
		Fish	Feed should be provided @ 3-5 % body weight per day
			Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	Water depth of the field can be increase by pumping or draining if water is available to continue the culture.
			 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
			 1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
			 Feeding should be done @ 2% body weigh5t per day.



E-mail: agromet_mnp@yahoo.co.uk ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



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

Significant past weather for the preceding bi-weekly of Imphal - West (12 th to 14 th July, 2016)	Weather forecast for next five days of Imphal East (16 th to 20 th July, 2016)
The sky remained mainly to overcast. Rainfall of 23.3 mm was recorded during past three days. Maximum temperature range observed was 31.6 to	Likely to have light to moderate rain and heavy rain at isolated places upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp.
32.8 °C, range of minimum temperature observed was 22.1 to 24.2 °C, mean relative humidity observed in morning and afternoon were 88.33 %	29- 31 °C & minimum temp. 25.0 °C. Relative humidity may reach upto 99 % (max RH) & 89 % (min RH). The average wind speed may be 2 km/hr.
and 65.33 % respectively. The average wind speed range was 3.4 to 5.1 km/hr.	Wind direction may be South-Westerly to Westerly during the next five days.

Weather warning for next five days *
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	H.	1	
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
Kharif maize	Cob formation to maturity		 Weeding may be done on sunny days to control weeds/ insect-pest. Maintain proper drainage system to avoid water logging.
Soybean	Sowing to vegetative		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is JS-335 at a spacing of 30x15 sq cm. Maintain proper drainage system to avoid water logging If not sown early, sowing must be done during July. Keep the plot clean to avoid hairy caterpillars. Hand weeding should be done before 30-35 days after sowing.
Storage (seed)			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			
Cauliflower	Nursery		Raise nursery of cauliflower in raised nursery beds (18-20 cm height) under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14 days interval.
		Rhizome rot	To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.





Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Turmeric/ Coriander	Intercropping		 Coriander variety Green Wonder or local one may be sown as intercrop plants in Turmeric field. High density sowing at a spacing of 5 cm x 10 cm may also be done.
Colocassia	Leaf spot/ Leaf blight		Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @ 2gm/lit water 14 days interval at least twice.
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Vegetative/harvest		 Avoid water stagnation in the root zone, harvest the mature ones. Avoid the fruits to touch the ground by staking or with the support of dried twigs.
Chilli	Seed Collection/Harvest		 Seed collection should be done preferably on bright sunshine hours. After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15 days interval.
Passion Fruit	Flowering to	Fruit rot	Spray Metalxyl+Mancozeb @ 2 g/litr water at 7 days interval
	fruiting) Fruit fly	Apply poison baiting with Jaggary+ fruit juice+Malathion (20:20:1) @ 40-50 baits/ha.
		 Brown Spot 	Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
) Termite) Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
) Collar rot	Drench the soil of collar region with 1% Bordeaux mixture

Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Do not let anima	ls to graze in fodde	r fields now, as at the time	of sudden growth in fodder after long submergence presence of cyanide has been found.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water. Use medicated water for drenching.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wl.
Pig	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation Enteric disease Diarrhoea & Dysentry Deworming	 Spray with Skin Heal Spray in sufficient quantity. Use Livocin @ 7.5 mg per kg b.wt. 3-5 days. Prompt treatment with Antibiotics Sulpha drugs. Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 Give Piperazine inquid @ 10-15im of any once only. If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia etc.

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



		Endoparasites	> De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 If the animals do not have access to green fodders, vitamin E injection/ supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Do not let animals graze in irrigated fodder fields/meadows
			After the birth of the self the new born must be fed with Colostrum within the first two hours.
			Give Calmore Forte @100ml orally once daily
		Milk Fever	 Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:			e /o roomi
Type of Farming	Stage	Management	Agro-metrological advisories
<u> </u>	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Destrict hermosting of monitorial fishes are also measured ad
		Fish	Partial harvesting of marketable size fishes are also recommended Field hered by a marketable size fishes are also recommended
		FISH	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	 Freed can be red at 2 times a day. Water depth of the field can be increase by pumping or draining if water is available to continue the culture.
			 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
			 20-40% of the participant can be made as 1.0-1.5m depin trenches 1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
			 Feeding should be done @ 2% body weigh5t per day.



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"Gramin Krishi Mausam Seva"



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

Significant past weather for the preceding bi-weekly of Imphal - West (12 th to 14 th July, 2016)	Weather forecast for next five days of Imphal West (16 th to 20 th July, 2016)
The sky remained mainly to overcast. Rainfall of 23.3 mm was recorded	Likely to have light to moderate rain and heavy rain at isolated places upto
during past three days. Maximum temperature range observed was 31.6 to	Sunday. Sky will remain mainly cloudy to overcast, with maximum temp.
32.8 °C, range of minimum temperature observed was 22.1 to 24.2 °C,	30- 31 °C & minimum temp. 25.0 °C. Relative humidity may reach upto 99
mean relative humidity observed in morning and afternoon were 88.33 %	% (max RH) & 85 % (min RH). The average wind speed may be 2 km/hr.
and 65.33 % respectively. The average wind speed range was 3.4 to 5.1	Wind direction may be South-Westerly to Westerly during the next five
km/hr.	days.

Weather warning for next five days *
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		I	
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
Kharif maize	Cob formation to maturity		 Weeding may be done on sunny days to control weeds/ insect-pest. Maintain proper drainage system to avoid water logging.
Soybean	Sowing to vegetative		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is JS-335 at a spacing of 30x15 sq cm. Maintain proper drainage system to avoid water logging If not sown early, sowing must be done during July. Keep the plot clean to avoid hairy caterpillars. Hand weeding should be done before 30-35 days after sowing.
Storage (seed)			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			
Cauliflower	Nursery		Raise nursery of cauliflower in raised nursery beds (18-20 cm height) under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14 days interval.
		Rhizome rot	To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.





Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Turmeric/ Coriander	Intercropping		 Coriander variety Green Wonder or local one may be sown as intercrop plants in Turmeric field. High density sowing at a spacing of 5 cm x 10 cm may also be done.
Colocassia	Leaf spot/ Leaf blight		Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @ 2gm/lit water 14 days interval at least twice.
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Vegetative/harvest		 Avoid water stagnation in the root zone, harvest the mature ones. Avoid the fruits to touch the ground by staking or with the support of dried twigs.
Chilli	Seed Collection/Harvest		 Seed collection should be done preferably on bright sunshine hours. After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15 days interval.
Passion Fruit	Flowering to	Fruit rot	Spray Metalxyl+Mancozeb @ 2 g/litr water at 7 days interval
	fruiting) Fruit fly	Apply poison baiting with Jaggary+ fruit juice+Malathion (20:20:1) @ 40-50 baits/ha.
		Brown Spot	Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
) Termite) Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
) Collar rot	Drench the soil of collar region with 1% Bordeaux mixture

Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Do not let anima	ls to graze in fodde	r fields now, as at the time	of sudden growth in fodder after long submergence presence of cyanide has been found.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water. Use medicated water for drenching.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wl.
exce	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation Enteric disease Diarrhoea & Dysentry Deworming	 Spray with Skin Heal Spray in sufficient quantity. Use Livocin @ 7.5 mg per kg b.wt. 3-5 days. Prompt treatment with Antibiotics Sulpha drugs. Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 Give Piperazine inquid @ 10-15im of any once only. If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia etc.

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



		Endoparasites	> De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 If the animals do not have access to green fodders, vitamin E injection/ supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Do not let animals graze in irrigated fodder fields/meadows
			After the birth of the self the new born must be fed with Colostrum within the first two hours.
			Give Calmore Forte @100ml orally once daily
		Milk Fever	 Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:			e /o roomi
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Fish nurseries	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Destrict hermosting of monitorial fishes are also measured ad
		Fish	Partial harvesting of marketable size fishes are also recommended Field hered by a marketable size fishes are also recommended
		FISH	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	 Freed can be red at 2 times a day. Water depth of the field can be increase by pumping or draining if water is available to continue the culture.
			 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
			 20-40% of the participant can be made as 1.0-1.5m depin trenches 1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
			 Feeding should be done @ 2% body weigh5t per day.

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

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MANIPUR BULLETIN 15th July, 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 July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12 th to 14 th July, 2016)	Weather forecast for next five days of Senapati (16 th to 20 th July, 2016)
The sky remained mainly to overcast. Rainfall of 23.3 mm was recorded	Likely to have light to moderate rain and heavy rain at isolated places upto
during past three days. Maximum temperature range observed was 31.6 to	Sunday. Sky will remain mainly cloudy to overcast, with maximum temp.
32.8 °C, range of minimum temperature observed was 22.1 to 24.2 °C,	29 - 31 °C & minimum temp. 25 °C. Relative humidity may reach upto 99
mean relative humidity observed in morning and afternoon were 88.33 %	% (max RH) & 88 % (min RH). The average wind speed may be 2 km/hr.
and 65.33 % respectively. The average wind speed range was 3.4 to 5.1	Wind direction may be South-Westerly to Westerly during the next five
km/hr.	days.

Weather warning for next five days *
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		I	
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
Kharif maize	Cob formation to maturity		 Weeding may be done on sunny days to control weeds/ insect-pest. Maintain proper drainage system to avoid water logging.
Soybean	Sowing to vegetative		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is JS-335 at a spacing of 30x15 sq cm. Maintain proper drainage system to avoid water logging If not sown early, sowing must be done during July. Keep the plot clean to avoid hairy caterpillars. Hand weeding should be done before 30-35 days after sowing.
Storage (seed)			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			
Cauliflower	Nursery		Raise nursery of cauliflower in raised nursery beds (18-20 cm height) under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14 days interval.
		Rhizome rot	To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.



ICAR Research Complex for N.E.H. Region

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



Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Turmeric/ Coriander	Intercropping		 Coriander variety Green Wonder or local one may be sown as intercrop plants in Turmeric field. High density sowing at a spacing of 5 cm x 10 cm may also be done.
Colocassia	Leaf spot/ Leaf blight		Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @ 2gm/lit water 14 days interval at least twice.
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Vegetative/harvest		 Avoid water stagnation in the root zone, harvest the mature ones. Avoid the fruits to touch the ground by staking or with the support of dried twigs.
Chilli	Seed Collection/Harvest		 Seed collection should be done preferably on bright sunshine hours. After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15 days interval.
Passion Fruit	Flowering to	Fruit rot	Spray Metalxyl+Mancozeb @ 2 g/litr water at 7 days interval
	fruiting) Fruit fly	Apply poison baiting with Jaggary+ fruit juice+Malathion (20:20:1) @ 40-50 baits/ha.
		Brown Spot	Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
) Termite	J Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
) Collar rot	J Drench the soil of collar region with 1% Bordeaux mixture

Animal Science	?S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Do not let anima	ls to graze in fodde	r fields now, as at the time	of sudden growth in fodder after long submergence presence of cyanide has been found.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water. Use medicated water for drenching.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wl.
except the	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation Enteric disease Diarrhoea & Dysentry Deworming	 Spray with Skin Heal Spray in sufficient quantity. Use Livocin @ 7.5 mg per kg b.wt. 3-5 days. Prompt treatment with Antibiotics Sulpha drugs. Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 Give Piperazine inquit @ 10-13in or any once only. If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia etc.

ICAR Research Complex for N.E.H. Region

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



		Endoparasites	> De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 If the animals do not have access to green fodders, vitamin E injection/ supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Do not let animals graze in irrigated fodder fields/meadows
			After the birth of the self the new born must be fed with Colostrum within the first two hours.
			Give Calmore Forte @100ml orally once daily
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus
			@ 70-100ml.
Fishery:		1	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Fish nurseries	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Destrial homeostics of monketable size fishes are also recommended.
		Fish	Partial harvesting of marketable size fishes are also recommended
		FISH	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	 Freed can be red at 2 times a day. Water depth of the field can be increase by pumping or draining if water is available to continue the culture.
			 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
			 1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
			 Feeding should be done @ 2% body weigh5t per day.



E-mail: agromet_mnp@yahoo.co.uk

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 15th July, 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 July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12 th to 14 th July, 2016)	Weather forecast for next five days of Tamenglong (16 th to 20 th July, 2016)
The sky remained mainly to overcast. Rainfall of 23.3 mm was recorded	Likely to have light to moderate rain and heavy rain at isolated places upto
during past three days. Maximum temperature range observed was 31.6 to	Sunday. Sky will remain mainly cloudy to overcast, with maximum temp.
32.8 °C, range of minimum temperature observed was 22.1 to 24.2 °C,	30 - 31 ° C & minimum temp. 25 - 26 ° C. Relative humidity may reach
mean relative humidity observed in morning and afternoon were 88.33 %	upto 99 % (max RH) & 82 % (min RH). The average wind speed may be 2
and 65.33 % respectively. The average wind speed range was 3.4 to 5.1	km/hr. Wind direction may be South-Westerly to Westerly during the next
km/hr.	five days.

Weather warning for next five days *			
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016			

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	I.	I	
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
Kharif maize	Cob formation to maturity		 Weeding may be done on sunny days to control weeds/ insect-pest. Maintain proper drainage system to avoid water logging.
Soybean	Sowing to vegetative		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is JS-335 at a spacing of 30x15 sq cm. Maintain proper drainage system to avoid water logging If not sown early, sowing must be done during July. Keep the plot clean to avoid hairy caterpillars. Hand weeding should be done before 30-35 days after sowing.
Storage (seed)			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			
Cauliflower	Nursery		Raise nursery of cauliflower in raised nursery beds (18-20 cm height) under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14 days interval.
		Rhizome rot	To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.





Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Turmeric/ Coriander	Intercropping		 Coriander variety Green Wonder or local one may be sown as intercrop plants in Turmeric field. High density sowing at a spacing of 5 cm x 10 cm may also be done.
Colocassia	Leaf spot/ Leaf blight		Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @ 2gm/lit water 14 days interval at least twice.
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Vegetative/harvest		 Avoid water stagnation in the root zone, harvest the mature ones. Avoid the fruits to touch the ground by staking or with the support of dried twigs.
Chilli	Seed Collection/Harvest		 Seed collection should be done preferably on bright sunshine hours. After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15 days interval.
Passion Fruit	Flowering to	Fruit rot	Spray Metalxyl+Mancozeb @ 2 g/litr water at 7 days interval
	fruiting	/ Fruit fly	Apply poison baiting with Jaggary+ fruit juice+Malathion (20:20:1) @ 40-50 baits/ha.
		Brown Spot	Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
) Termite) Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
) Collar rot	Drench the soil of collar region with 1% Bordeaux mixture

Animal Science Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
	ls to graze in fodde	r fields now, as at the time	of sudden growth in fodder after long submergence presence of cyanide has been found.
Poultry (Chicken/ Turkey/Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age grou excepts the young ones		Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water. Use medicated water for drenching.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wl.
except the	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation Enteric disease Diarrhoea & Dysentry	 Spray with Skin Heal Spray in sufficient quantity. Use Livocin @ 7.5 mg per kg b.wt. 3-5 days. Prompt treatment with Antibiotics Sulpha drugs.
~		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia etc.

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	If the animals do not have access to green fodders, vitamin E injection/ supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Do not let animals graze in irrigated fodder fields/meadows
			After the birth of the self the new born must be fed with Colostrum within the first two hours.
			Give Calmore Forte @100ml orally once daily
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus
			@ 70-100ml.
Fishery:	-	1	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Fish r	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Deviable of the state of the
			Partial harvesting of marketable size fishes are also recommended
		Fish	Feed should be provided @ 3-5 % body weight per day Feed som he fed et 2 times a day
	D 11 C 1		Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	Water depth of the field can be increase by pumping or draining if water is available to continue the culture.
			> 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
			> 1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
			Feeding should be done @ 2% body weigh5t per day.

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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 15th July, 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 July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12 th to 14 th July, 2016)	Weather forecast for next five days of Thoubal (16 th to 20 th July, 2016)
The sky remained mainly to overcast. Rainfall of 23.3 mm was recorded	Likely to have light to moderate rain and heavy rain at isolated places upto
during past three days. Maximum temperature range observed was 31.6 to	Sunday. Sky will remain mainly cloudy to overcast, with maximum temp.
32.8 °C, range of minimum temperature observed was 22.1 to 24.2 °C,	30- 31 ° C & minimum temp. 25.0 ° C. Relative humidity may reach upto
mean relative humidity observed in morning and afternoon were 88.33 %	100 % (max RH) & 93 % (min RH). The average wind speed may be 2-4
and 65.33 % respectively. The average wind speed range was 3.4 to 5.1	km/hr. Wind direction may be South-Westerly to Westerly during the next
km/hr.	five days.

Weather warning for next five days *
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	I.	L	
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
Kharif maize	Cob formation to maturity		 Weeding may be done on sunny days to control weeds/ insect-pest. Maintain proper drainage system to avoid water logging.
Soybean	Sowing to vegetative		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is JS-335 at a spacing of 30x15 sq cm. Maintain proper drainage system to avoid water logging If not sown early, sowing must be done during July. Keep the plot clean to avoid hairy caterpillars. Hand weeding should be done before 30-35 days after sowing.
Storage (seed)			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			
Cauliflower	Nursery		Raise nursery of cauliflower in raised nursery beds (18-20 cm height) under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14 days interval.
		Rhizome rot	To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.







Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Turmeric/ Coriander	Intercropping		 Coriander variety Green Wonder or local one may be sown as intercrop plants in Turmeric field. High density sowing at a spacing of 5 cm x 10 cm may also be done.
Colocassia	Leaf spot/ Leaf blight		Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @ 2gm/lit water 14 days interval at least twice.
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Vegetative/harvest		 Avoid water stagnation in the root zone, harvest the mature ones. Avoid the fruits to touch the ground by staking or with the support of dried twigs.
Chilli	Seed Collection/Harvest		 Seed collection should be done preferably on bright sunshine hours. After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15 days interval.
Passion Fruit	Flowering to	Fruit rot	Spray Metalxyl+Mancozeb @ 2 g/litr water at 7 days interval
	fruiting) Fruit fly	Apply poison baiting with Jaggary+ fruit juice+Malathion (20:20:1) @ 40-50 baits/ha.
		 Brown Spot 	Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
) Termite	J Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
) Collar rot	J Drench the soil of collar region with 1% Bordeaux mixture

Animal Science Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal			
Do not let anima	-		of sudden growth in fodder after long submergence presence of cyanide has been found.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wl.
exce	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation Enteric disease Diarrhoea & Dysentry Deworming	 Spray with Skin Heal Spray in sufficient quantity. Use Livocin @ 7.5 mg per kg b.wt. 3-5 days. Prompt treatment with Antibiotics Sulpha drugs. Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 Give riperazine inquit @ 10-15ini of any once only. If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia etc.

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



		Endoparasites	> De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	If the animals do not have access to green fodders, vitamin E injection/ supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Do not let animals graze in irrigated fodder fields/meadows
			After the birth of the self the new born must be fed with Colostrum within the first two hours.
			Give Calmore Forte @100ml orally once daily
		Milk Fever	 Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:			e /o room.
Type of Farming	Stage	Management	Agro-metrological advisories
0	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Deviable of the black of the
			Partial harvesting of marketable size fishes are also recommended
		Fish	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	 Feed can be fed at 2 times a day. Water depth of the field can be increase by pumping or draining if water is available to continue the culture.
			 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
			1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
			Feeding should be done @ 2% body weigh5t per day.

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"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th July, 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 July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12 th to 14 th July, 2016)	Weather forecast for next five days of Ukhrul (16 th to 20 th July, 2016)
The sky remained mainly to overcast. Rainfall of 23.3 mm was recorded	Likely to have light to moderate rain and heavy rain at isolated places upto
during past three days. Maximum temperature range observed was 31.6 to	Sunday. Sky will remain mainly cloudy to overcast, with maximum temp.
32.8 °C, range of minimum temperature observed was 22.1 to 24.2 °C,	29 - 31 ° C & minimum temp. 24 - 25 ° C. Relative humidity may reach
mean relative humidity observed in morning and afternoon were 88.33 %	upto 99 % (max RH) & 94 % (min RH). The average wind speed may be 3-
and 65.33 % respectively. The average wind speed range was 3.4 to 5.1	4 km/hr. Wind direction may be South-Westerly to Westerly during the
km/hr.	next five days.

Weather warning for next five days *				
Likely to have heavy rain at isolated places over Manipur on 15 th & 16 th July, 2016				

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre kharif rice	Post Harvesting		Thresh, dry properly on sunny days and clean the grains well before storage.
Main kharif rice	Transplanting to Establishment		 In replanting flooding fields, prepare rice nurseries in raised beds with RC- Maniphou 7. For Wet Seedling, pre-soaked seeds may be seeded in the fields which can be kept moist (wet). The excess water should be drained out before seedling. During final leveling apply fertilizer @ 65kg Urea, 250 kg SSP and 33kg MOP as basal dose before transplanting seedlings. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Release excess water if accumulated due to rain.
Kharif maize	Cob formation to maturity		 Weeding may be done on sunny days to control weeds/ insect-pest. Maintain proper drainage system to avoid water logging.
Soybean	Sowing to vegetative		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is JS-335 at a spacing of 30x15 sq cm. Maintain proper drainage system to avoid water logging If not sown early, sowing must be done during July. Keep the plot clean to avoid hairy caterpillars. Hand weeding should be done before 30-35 days after sowing.
Storage (seed)			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			
Cauliflower	Nursery		Raise nursery of cauliflower in raised nursery beds (18-20 cm height) under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14 days interval.
		Rhizome rot	To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.







Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Turmeric/ Coriander	Intercropping		 Coriander variety Green Wonder or local one may be sown as intercrop plants in Turmeric field. High density sowing at a spacing of 5 cm x 10 cm may also be done.
Colocassia	Leaf spot/ Leaf blight		Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @ 2gm/lit water 14 days interval at least twice.
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Vegetative/harvest		 Avoid water stagnation in the root zone, harvest the mature ones. Avoid the fruits to touch the ground by staking or with the support of dried twigs.
Chilli	Seed Collection/Harvest		 Seed collection should be done preferably on bright sunshine hours. After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15 days interval.
Passion Fruit	Flowering to	Fruit rot	Spray Metalxyl+Mancozeb @ 2 g/litr water at 7 days interval
	fruiting) Fruit fly	Apply poison baiting with Jaggary+ fruit juice+Malathion (20:20:1) @ 40-50 baits/ha.
		 Brown Spot 	Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
) Termite) Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
) Collar rot) Drench the soil of collar region with 1% Bordeaux mixture

Animal Science	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal	Growth stage	Disease/ intestation	Agro-meteorological advisories
Do not let anima	ls to graze in fodde	r fields now, as at the time	of sudden growth in fodder after long submergence presence of cyanide has been found.
Poultry All age gro (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium per magnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/ltr of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wl.
exce	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation Enteric disease Diarrhoea & Dysentry	 Spray with Skin Heal Spray in sufficient quantity. Use Livocin @ 7.5 mg per kg b.wt. 3-5 days. Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups excepts the young ones	Deworming B.Q./ H.S/FMD	 Give Piperazine liquid @ 10-15ml orally once only. If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia etc.

ICAR Research Complex for N.E.H. Region

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



		Endoparasites	> De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
	Care & management	 If the animals do not have access to green fodders, vitamin E injection/ supplements should be given. 	
			Food supplements may be given @20-30 gm/animals.
			Do not let animals graze in irrigated fodder fields/meadows
			After the birth of the self the new born must be fed with Colostrum within the first two hours.
			Give Calmore Forte @100ml orally once daily
		Milk Fever	 Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Fish nurseries Grow out Paddy cum fish culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	 Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Partial harvesting of marketable size fishes are also recommended
		Fish	 Feed should be provided @ 3-5 % body weight per day
		1 1511	 Feed can be fed at 2 times a day.
		water	 Water depth of the field can be increase by pumping or draining if water is available to continue the culture.
			> 20-40% of the paddy plot can be made as 1.0-1.5m depth trenches
			> 1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
			Feeding should be done @ 2% body weigh5t per day.