

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 5th 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 6nd to 10th July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(1^{st} \ to \ 4^{th} \ July, 2016)$

The sky remained variable to overcast. Rainfall of 69.2 mm was recorded during past four days. Maximum temperature range observed was 30.5 to 32.1 $^{\circ}$ C, range of minimum temperature observed was 21.6 to 22.3 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 92.75 % and 87.25 % respectively. The average wind speed range was 3.9 to 4.9 km/hr.

Weather forecast for next five days of Imphal East

(6nd to 10th July, 2016)Likely to have light to moderate rains upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp. 27 to 28 °C & minimum temp. 22.0 to 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 54 % (min RH). The average wind speed may be 0-2 km/hr. Wind direction may be South East-Easterly to North North-Westerly during the next five days.

Weather outlook for subsequence 2 days from 10th to 12th July, 2016

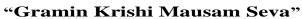
Rainfall at most places very likely over northeastern states

Weather warning for next five days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			8- 0
Pre kharif rice	Maturity to Harvesting		 Drain the water in the field about 10-15 days before expected date of harvesting Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crops are ready to harvest, then harvest it in sunny days.
Main kharif rice	Nursery for transplanting		 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. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting Uproot the seedling of about 18-25 days old for line Planting Maximum of 2-3 seedling/hill; 20-25 cm row to row & 10 cm plant to plant spacing should be given for line transplanting. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
Groundnut	Seedling to vegetative		 Earthing-up & weeding should be done before rain to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging. If not sown early, sowing may be done before 1st fortnight of July.
Ginger/ Turmeric	Vegetative		 Weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP at 2-3 months. Avoid water logging in and around the crop field.
Soybean	Sowing		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is J.S.335 at seed spacing of 30x15 sq cm. If not sown early, sowing must be done before 1st fortnight of July 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 and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Early Cauliflower	Nursery		➤ Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Pineapple	Fruiting		> Spray Zineb @ 2g/lit of water.



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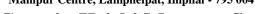




Ornge/ Lemon	Vegetative		➤ Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5
			g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/
			10 lit of water.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular
			trench around the trunk.
Tree bean	Transplanting/		> One year or more than a year old quality seedling may be transplanted in
2100 8000	Fertilizer		the pit.
	application		Recommended spacing is 10x10 m from plant to plant and row to row
	аррпсаноп		➤ 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		> Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @
	blight		2gm/ltr water 14 days interval at least twice.
Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
~ · · · · ·	G 1		dried twigs.
Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
cow pea	Trai vesting		tender stage.
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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
			and weather at 10-13 days interval. ➤ Seed rate: 840 steps/sangam
	1		> Seed rate. 640 steps/sangain

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal









	except the	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	young ones	Enteric disease	➤ Use Livocin @ 7.5 mg per kg b.wt. 3-5 days.
		Diarrhoea & Dysentry	Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups	B.Q./ H.S/FMD	For If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia
	young ones		etc.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	Mix enough quantity salts in feed and water
			> If the animals do not have access to green fodders, vitamin A injection/
			supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Care should be taken to protect yoke gall/bursitis.
			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
Fishery:			
Type of	Stage	Management	Agro-metrological advisories
Farming	77' 1	D. I. I.	N. W I. d. I. III
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.
			 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	water	 Water depth of the field can be increase by pumping or draining if water is
	culture		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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Imphal West

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(6^{nd} to 10^{th} July, 2016)Likely to have light rain upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp. 27 to 29 ° C & minimum temp. 21.0 to 22.0 ° C. Relative humidity may reach upto 100 % (max RH) & 54 % (min RH). The average wind speed may be 0-2 km/hr. Wind direction may be South Easterly to Westerly during the next five days.

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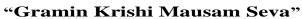
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Weather warning for next five days *

Name of the crop	Stage	Pest and disease	laces over Manipur on 8 th to 9 th July, 2016 Agro-meteorological advisories
Field Crops	L		
Pre kharif rice	Maturity to Harvesting		 Drain the water in the field about 10-15 days before expected date of harvesting Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crops are ready to harvest, then harvest it in sunny days.
Main kharif rice	Nursery for transplanting		 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. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting Uproot the seedling of about 18-25 days old for line Planting Maximum of 2-3 seedling/hill; 20-25 cm row to row & 10 cm plant to plant spacing should be given for line transplanting. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
Groundnut	Seedling to vegetative		 Earthing-up & weeding should be done before rain to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging. If not sown early, sowing may be done before 1st fortnight of July.
Ginger/ Turmeric	Vegetative		 Weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP at 2-3 months. Avoid water logging in and around the crop field.
Soybean	Sowing		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is J.S.335 at seed spacing of 30x15 sq cm. If not sown early, sowing must be done before 1st fortnight of July 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 and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			•
Early Cauliflower	Nursery		➤ Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Pineapple	Fruiting		> Spray Zineb @ 2g/lit of water.



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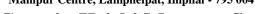




Ornge/ Lemon	Vegetative		➤ Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5
			g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/
			10 lit of water.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular
			trench around the trunk.
Tree bean	Transplanting/		> One year or more than a year old quality seedling may be transplanted in
2100 8000	Fertilizer		the pit.
	application		Recommended spacing is 10x10 m from plant to plant and row to row
	аррпсаноп		➤ 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		> Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @
	blight		2gm/ltr water 14 days interval at least twice.
Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
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Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
cow pea	Trai vesting		tender stage.
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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
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Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal









	except the	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	young ones	Enteric disease	➤ Use Livocin @ 7.5 mg per kg b.wt. 3-5 days.
		Diarrhoea & Dysentry	Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups	B.Q./ H.S/FMD	For If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia
	young ones		etc.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	Mix enough quantity salts in feed and water
			> If the animals do not have access to green fodders, vitamin A injection/
			supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Care should be taken to protect yoke gall/bursitis.
			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
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			➤ Give Calmore Forte @100ml orally once daily
Fishery:			
Type of	Stage	Management	Agro-metrological advisories
Farming	77' 1	D. I. I.	N. W I. d. I. III
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.
			 Partial harvesting of marketable size fishes are also recommended
		Fish	Feed should be provided @ 3-5 % body weight per day
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	Paddy cum fish	water	 Water depth of the field can be increase by pumping or draining if water is
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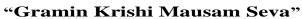
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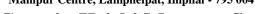




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	application		Recommended spacing is 10x10 m from plant to plant and row to row
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Turmeric/ Coriander	Intercropping		Coriander variety Green Wonder or local one may be sown as intercrop
			plants in Turmeric field.
			➤ High density sowing at a spacing of 5 cm x 10 cm may also be done.
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Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
~ · · · · ·	G 1		dried twigs.
Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
cow pea	Trai vesting		tender stage.
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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
			and weather at 10-13 days interval. ➤ Seed rate: 840 steps/sangam
	1		> Seed rate. 640 steps/sangain

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal









	except the	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	young ones	Enteric disease	➤ Use Livocin @ 7.5 mg per kg b.wt. 3-5 days.
		Diarrhoea & Dysentry	Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups	B.Q./ H.S/FMD	For If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia
	young ones		etc.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	Mix enough quantity salts in feed and water
			> If the animals do not have access to green fodders, vitamin A injection/
			supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Care should be taken to protect yoke gall/bursitis.
			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
Fishery:			
Type of	Stage	Management	Agro-metrological advisories
Farming	77' 1	D. I. I.	N. W I. d. I. III
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.
			 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	water	 Water depth of the field can be increase by pumping or draining if water is
	culture		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 Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 5th 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 6nd to 10th July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(1^{st} \ to \ 4^{th} \ July, 2016)$

The sky remained variable to overcast. Rainfall of 69.2 mm was recorded during past four days. Maximum temperature range observed was 30.5 to 32.1 $^{\circ}$ C, range of minimum temperature observed was 21.6 to 22.3 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 92.75 % and 87.25 % respectively. The average wind speed range was 3.9 to 4.9 km/hr.

Weather forecast for next five days of Tamenglong

(6nd to 10th July, 2016)Likely to have light to moderate rains upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp. 28 to 29 °C & minimum temp. 20.0 to 21.0 °C. Relative humidity may reach upto 100 % (max RH) & 58 % (min RH). The average wind speed may be 0-2 km/hr. Wind direction may be South Easterly to South Westerly during the next five days.

Weather outlook for subsequence 2 days from 10th to 12th July, 2016

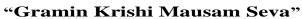
Rainfall at most places very likely over northeastern states

Weather warning for next five days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	.	l .	
Pre kharif rice	Maturity to Harvesting		 Drain the water in the field about 10-15 days before expected date of harvesting Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crops are ready to harvest, then harvest it in sunny days.
Main kharif rice	Nursery for transplanting		 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. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting Uproot the seedling of about 18-25 days old for line Planting Maximum of 2-3 seedling/hill; 20-25 cm row to row & 10 cm plant to plant spacing should be given for line transplanting. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
Groundnut	Seedling to vegetative		 Earthing-up & weeding should be done before rain to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging. If not sown early, sowing may be done before 1st fortnight of July.
Ginger/ Turmeric	Vegetative		 Weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP at 2-3 months. Avoid water logging in and around the crop field.
Soybean	Sowing		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is J.S.335 at seed spacing of 30x15 sq cm. If not sown early, sowing must be done before 1st fortnight of July 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 and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Early Cauliflower	Nursery		> Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Pineapple	Fruiting		> Spray Zineb @ 2g/lit of water.



Manipur Centre, Lamphelpat, Imphal - 795 004

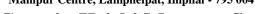




Ornge/ Lemon	Vegetative		➤ Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5
			g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/
			10 lit of water.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular
			trench around the trunk.
Tree bean	Transplanting/		➤ One year or more than a year old quality seedling may be transplanted in
2100 8000	Fertilizer		the pit.
	application		Recommended spacing is 10x10 m from plant to plant and row to row
	аррпсаноп		➤ 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		> Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @
	blight		2gm/ltr water 14 days interval at least twice.
Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
~ · · · · ·	G 1		dried twigs.
Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
cow pea	Trai vesting		tender stage.
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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
			and weather at 10-13 days interval. ➤ Seed rate: 840 steps/sangam
	1		> Seed rate. 640 steps/sangain

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal









	except the	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	young ones	Enteric disease	➤ Use Livocin @ 7.5 mg per kg b.wt. 3-5 days.
		Diarrhoea & Dysentry	Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups	B.Q./ H.S/FMD	For If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia
	young ones		etc.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	Mix enough quantity salts in feed and water
			> If the animals do not have access to green fodders, vitamin A injection/
			supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Care should be taken to protect yoke gall/bursitis.
			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
Fishery:			
Type of	Stage	Management	Agro-metrological advisories
Farming	77' 1	D. I. I.	N. W I. d. I. III
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.
			 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	water	 Water depth of the field can be increase by pumping or draining if water is
	culture		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 Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 5th 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 6nd to 10th July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(1^{st}\ to\ 4^{th}\ July,\ 2016)$

The sky remained variable to overcast. Rainfall of 69.2 mm was recorded during past four days. Maximum temperature range observed was 30.5 to 32.1 $^{\circ}$ C, range of minimum temperature observed was 21.6 to 22.3 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 92.75 % and 87.25 % respectively. The average wind speed range was 3.9 to 4.9 km/hr.

Weather forecast for next five days of Thoubal

(6^{nd} to 10^{th} July, 2016)Likely to have light to moderate rains upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp. 26 to 28 °C & minimum temp. 21.0 to 22.0 °C. Relative humidity may reach upto 100 % (max RH) & 69 % (min RH). The average wind speed may be 0-4 km/hr. Wind direction may be South East Easterly to North Westerly during the next five days.

Weather outlook for subsequence 2 days from 10th to 12th July, 2016

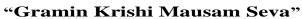
Rainfall at most places very likely over northeastern states

Weather warning for next five days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		I	
Pre kharif rice	Maturity to Harvesting		 Drain the water in the field about 10-15 days before expected date of harvesting Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crops are ready to harvest, then harvest it in sunny days.
Main kharif rice	Nursery for transplanting		 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. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting Uproot the seedling of about 18-25 days old for line Planting Maximum of 2-3 seedling/hill; 20-25 cm row to row & 10 cm plant to plant spacing should be given for line transplanting. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
Groundnut	Seedling to vegetative		 Earthing-up & weeding should be done before rain to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging. If not sown early, sowing may be done before 1st fortnight of July.
Ginger/ Turmeric	Vegetative		 Weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP at 2-3 months. Avoid water logging in and around the crop field.
Soybean	Sowing		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is J.S.335 at seed spacing of 30x15 sq cm. If not sown early, sowing must be done before 1st fortnight of July 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 and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Early Cauliflower	Nursery		➤ Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Pineapple	Fruiting		> Spray Zineb @ 2g/lit of water.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ornge/ Lemon	Vegetative		➤ Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5
			g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/
			10 lit of water.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular
			trench around the trunk.
Tree bean	Transplanting/		➤ One year or more than a year old quality seedling may be transplanted in
2100 8000	Fertilizer		the pit.
	application		Recommended spacing is 10x10 m from plant to plant and row to row
	аррпсаноп		➤ 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		> Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @
	blight		2gm/ltr water 14 days interval at least twice.
Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
~ · · · · ·	G 1		dried twigs.
Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
cow pea	Trai vesting		tender stage.
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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
			and weather at 10-13 days interval. ➤ Seed rate: 840 steps/sangam
	1		> Seed rate. 640 steps/sangain

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal







	except the	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	young ones	Enteric disease	➤ Use Livocin @ 7.5 mg per kg b.wt. 3-5 days.
		Diarrhoea & Dysentry	Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups	B.Q./ H.S/FMD	➤ If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia
	young ones		etc.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	 Mix enough quantity salts in feed and water
			If the animals do not have access to green fodders, vitamin A injection/
			supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Care should be taken to protect yoke gall/bursitis.
			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
Fishery:	1	1	
Type of	Stage	Management	Agro-metrological advisories
Farming			
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.
			 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	water	 Water depth of the field can be increase by pumping or draining if water is
	culture		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.
			recuing should be dolle & 270 body weightst per day.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 5th 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 6nd to 10th July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(1^{st}$ to 4^{th} July, 2016)

The sky remained variable to overcast. Rainfall of 69.2 mm was recorded during past four days. Maximum temperature range observed was 30.5 to 32.1 $^{\circ}$ C, range of minimum temperature observed was 21.6 to 22.3 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 92.75 % and 87.25 % respectively. The average wind speed range was 3.9 to 4.9 km/hr.

Weather forecast for next five days of Ukhrul

(6^{nd} to 10^{th} July, 2016)Likely to have light to moderate rains upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp. 28 to 29 °C & minimum temp. 21.0 to 22.0 °C. Relative humidity may reach upto 99 % (max RH) & 68 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be Easterly to South Westerly during the next five days.

Weather outlook for subsequence 2 days from 10th to 12th July, 2016

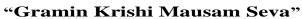
Rainfall at most places very likely over northeastern states

Weather warning for next five days *

Name of the crop	Stage	Pest and disease	laces over Manipur on 8 th to 9 th July, 2016 Agro-meteorological advisories
Field Crops	L		
Pre kharif rice	Maturity to Harvesting		 Drain the water in the field about 10-15 days before expected date of harvesting Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crops are ready to harvest, then harvest it in sunny days.
Main kharif rice	Nursery for transplanting		 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. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting Uproot the seedling of about 18-25 days old for line Planting Maximum of 2-3 seedling/hill; 20-25 cm row to row & 10 cm plant to plant spacing should be given for line transplanting. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
Groundnut	Seedling to vegetative		 Earthing-up & weeding should be done before rain to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging. If not sown early, sowing may be done before 1st fortnight of July.
Ginger/ Turmeric	Vegetative		 Weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP at 2-3 months. Avoid water logging in and around the crop field.
Soybean	Sowing		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is J.S.335 at seed spacing of 30x15 sq cm. If not sown early, sowing must be done before 1st fortnight of July 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 and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			•
Early Cauliflower	Nursery		➤ Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Pineapple	Fruiting		> Spray Zineb @ 2g/lit of water.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ornge/ Lemon	Vegetative		➤ Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5
			g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/
			10 lit of water.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular
			trench around the trunk.
Tree bean	Transplanting/		➤ One year or more than a year old quality seedling may be transplanted in
2100 8000	Fertilizer		the pit.
	application		Recommended spacing is 10x10 m from plant to plant and row to row
	аррпсаноп		➤ 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		> Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @
	blight		2gm/ltr water 14 days interval at least twice.
Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
~ · · · · ·	G 1		dried twigs.
Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
cow pea	Trai vesting		tender stage.
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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
			and weather at 10-13 days interval. ➤ Seed rate: 840 steps/sangam
	1		> Seed rate. 640 steps/sangain

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal







	except the	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	young ones	Enteric disease	➤ Use Livocin @ 7.5 mg per kg b.wt. 3-5 days.
		Diarrhoea & Dysentry	Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups	B.Q./ H.S/FMD	➤ If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia
	young ones		etc.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	 Mix enough quantity salts in feed and water
			If the animals do not have access to green fodders, vitamin A injection/
			supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Care should be taken to protect yoke gall/bursitis.
			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
Fishery:	1	1	
Type of	Stage	Management	Agro-metrological advisories
Farming			
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.
			 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	water	 Water depth of the field can be increase by pumping or draining if water is
	culture		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.
			recuing should be dolle & 270 body weightst per day.



Manipur Centre, Lamphelpat, Imphal - 795 004





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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 6nd to 10th July, 2016 as below:

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The sky remained variable to overcast. Rainfall of 69.2 mm was recorded during past four days. Maximum temperature range observed was 30.5 to 32.1 $^{\circ}$ C, range of minimum temperature observed was 21.6 to 22.3 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 92.75 % and 87.25 % respectively. The average wind speed range was 3.9 to 4.9 km/hr.

Weather forecast for next five days of Bishnupur

(6nd to 10th July, 2016)Likely to have light to moderate rains upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp. 27 to 29 °C & minimum temp. 21.0 to 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 67 % (min RH). The average wind speed may be 0-2 km/hr. Wind direction may be South East Easterly to Westerly during the next five days.

Weather outlook for subsequence 2 days from 10th to 12th July, 2016

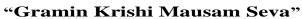
Rainfall at most places very likely over northeastern states

Weather warning for next five days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		I	
Pre kharif rice	Maturity to Harvesting		 Drain the water in the field about 10-15 days before expected date of harvesting Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crops are ready to harvest, then harvest it in sunny days.
Main kharif rice	Nursery for transplanting		 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. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting Uproot the seedling of about 18-25 days old for line Planting Maximum of 2-3 seedling/hill; 20-25 cm row to row & 10 cm plant to plant spacing should be given for line transplanting. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
Groundnut	Seedling to vegetative		 Earthing-up & weeding should be done before rain to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging. If not sown early, sowing may be done before 1st fortnight of July.
Ginger/ Turmeric	Vegetative		 Weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP at 2-3 months. Avoid water logging in and around the crop field.
Soybean	Sowing		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is J.S.335 at seed spacing of 30x15 sq cm. If not sown early, sowing must be done before 1st fortnight of July 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 and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Early Cauliflower	Nursery		➤ Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Pineapple	Fruiting		> Spray Zineb @ 2g/lit of water.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ornge/ Lemon	Vegetative		➤ Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5
			g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/
			10 lit of water.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular
			trench around the trunk.
Tree bean	Transplanting/		➤ One year or more than a year old quality seedling may be transplanted in
2100 8000	Fertilizer		the pit.
	application		Recommended spacing is 10x10 m from plant to plant and row to row
	аррпсаноп		➤ 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		> Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @
	blight		2gm/ltr water 14 days interval at least twice.
Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
~ · · · · ·	G 1		dried twigs.
Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
cow pea	Trai vesting		tender stage.
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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
			and weather at 10-13 days interval. ➤ Seed rate: 840 steps/sangam
	1		> Seed rate. 640 steps/sangain

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal







	except the	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	young ones	Enteric disease	➤ Use Livocin @ 7.5 mg per kg b.wt. 3-5 days.
		Diarrhoea & Dysentry	Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups	B.Q./ H.S/FMD	➤ If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia
	young ones		etc.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	 Mix enough quantity salts in feed and water
			If the animals do not have access to green fodders, vitamin A injection/
			supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Care should be taken to protect yoke gall/bursitis.
			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
Fishery:	1	1	
Type of	Stage	Management	Agro-metrological advisories
Farming			
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.
			 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	water	 Water depth of the field can be increase by pumping or draining if water is
	culture		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.
			recuing should be dolle & 270 body weightst per day.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



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Chandel

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Weather forecast for next five days of Chandel

(6nd to 10th July, 2016)Likely to have light to moderate rains upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp. 26 to 28 °C & minimum temp. 22.0 to 23.0 °C. Relative humidity may reach upto 99 % (max RH) & 75 % (min RH). The average wind speed may be 2-5 km/hr. Wind direction may be South East-Easterly to South west Westerly during the next five days.

Weather outlook for subsequence 2 days from 10th to 12th July, 2016

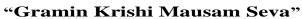
Rainfall at most places very likely over northeastern states

Weather warning for next five days *

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Pre kharif rice	Maturity to Harvesting		 Drain the water in the field about 10-15 days before expected date of harvesting Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crops are ready to harvest, then harvest it in sunny days.
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Groundnut	Seedling to vegetative		 Earthing-up & weeding should be done before rain to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging. If not sown early, sowing may be done before 1st fortnight of July.
Ginger/ Turmeric	Vegetative		 Weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP at 2-3 months. Avoid water logging in and around the crop field.
Soybean	Sowing		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is J.S.335 at seed spacing of 30x15 sq cm. If not sown early, sowing must be done before 1st fortnight of July 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 and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Early Cauliflower	Nursery		➤ Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Pineapple	Fruiting		> Spray Zineb @ 2g/lit of water.



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Ornge/ Lemon	Vegetative		➤ Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5
			g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/
			10 lit of water.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular
			trench around the trunk.
Tree bean	Transplanting/		➤ One year or more than a year old quality seedling may be transplanted in
2100 8000	Fertilizer		the pit.
	application		Recommended spacing is 10x10 m from plant to plant and row to row
	аррпсаноп		➤ 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		> Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @
	blight		2gm/ltr water 14 days interval at least twice.
Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
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Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
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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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
			and weather at 10-13 days interval. ➤ Seed rate: 840 steps/sangam
	1		> Seed rate. 640 steps/sangain

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal







	except the	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	young ones	Enteric disease	➤ Use Livocin @ 7.5 mg per kg b.wt. 3-5 days.
		Diarrhoea & Dysentry	Prompt treatment with Antibiotics Sulpha drugs.
Cattle	All age groups	B.Q./ H.S/FMD	➤ If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia
	young ones		etc.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	 Mix enough quantity salts in feed and water
			If the animals do not have access to green fodders, vitamin A injection/
			supplements should be given.
			Food supplements may be given @20-30 gm/animals.
			Care should be taken to protect yoke gall/bursitis.
			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
Fishery:	1	1	
Type of	Stage	Management	Agro-metrological advisories
Farming			
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.
			 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	water	 Water depth of the field can be increase by pumping or draining if water is
	culture		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.
			recuing should be dolle & 270 body weightst per day.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 5th July, 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 6nd to 10th July, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(1^{st} \ to \ 4^{th} \ July, 2016)$

The sky remained variable to overcast. Rainfall of 69.2 mm was recorded during past four days. Maximum temperature range observed was 30.5 to 32.1 $^{\circ}$ C, range of minimum temperature observed was 21.6 to 22.3 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 92.75 % and 87.25 % respectively. The average wind speed range was 3.9 to 4.9 km/hr.

Weather forecast for next five days of Churachandpur

(6nd to 10th July, 2016)Likely to have light to moderate rains upto Sunday. Sky will remain mainly cloudy to overcast, with maximum temp. 27 to 28 °C & minimum temp. 23.0 to 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 67 % (min RH). The average wind speed may be 2 km/hr. Wind direction may be South South-Easterly to Southerly during the next five days.

Weather outlook for subsequence 2 days from 10th to 12th July, 2016

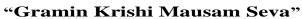
Rainfall at most places very likely over northeastern states

Weather warning for next five days *

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		l l	
Pre kharif rice	Maturity to Harvesting		 Drain the water in the field about 10-15 days before expected date of harvesting Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crops are ready to harvest, then harvest it in sunny days.
Main kharif rice	Nursery for transplanting		 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. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting Uproot the seedling of about 18-25 days old for line Planting Maximum of 2-3 seedling/hill; 20-25 cm row to row & 10 cm plant to plant spacing should be given for line transplanting. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
Groundnut	Seedling to vegetative		 Earthing-up & weeding should be done before rain to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging. If not sown early, sowing may be done before 1st fortnight of July.
Ginger/ Turmeric	Vegetative		 Weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP at 2-3 months. Avoid water logging in and around the crop field.
Soybean	Sowing		 Sow seed @ 40-45 Kg/ha or 10-11.3 kg of seed/sangam and recommended variety is J.S.335 at seed spacing of 30x15 sq cm. If not sown early, sowing must be done before 1st fortnight of July 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 and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops		<u> </u>	
Early Cauliflower	Nursery		Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Pineapple	Fruiting		> Spray Zineb @ 2g/lit of water.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ornge/ Lemon	Vegetative		➤ Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5
			g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/
			10 lit of water.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular
			trench around the trunk.
Tree bean	Transplanting/		➤ One year or more than a year old quality seedling may be transplanted in
2100 8000	Fertilizer		the pit.
	application		Recommended spacing is 10x10 m from plant to plant and row to row
	аррпсаноп		➤ 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		> Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 w.p. @
	blight		2gm/ltr water 14 days interval at least twice.
Cucurbits (Water-	Vegetative/harvest		Four leaf stage, young plants may be transplanted after rain
melon, pumpkin, bitter			Avoid water stagnation in the root zone, harvest the mature ones.
gourd, etc.)			Avoid the fruits to touch the ground by staking or with the support of
~ · · · · ·	G 1		dried twigs.
Chilli	Seed		Seed collection should be done preferably on bright sunshine hours.
	Collection/Harvest		➤ After harvesting of matured ones spray Copper oxichloride(0.3% or Mancozeb alternatively with Metalxyl and Mancozeb combination at 15
			days interval.
Cow pea	Harvesting		As keeping quality is poor green ones should be harvested at the
cow pea	Trai vesting		tender stage.
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) @
		■ Brown Spot	40-50 baits/ha.
		- Brown spot	➤ Remove the infected leaves and burn. Spray Zineb@ 2 mg/ltr water.
Water mimosa	Planting and First		Maintain water at a depth of 2.5-3 ft.
(Neptunia Oleracea)	harvest		Use new slips having atleast 4-5 nodes for planting
			Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a
			polythene rope or pegging may be done with small poles.
			Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.
			and weather at 10-13 days interval. ➤ Seed rate: 840 steps/sangam
	1		> Seed rate. 640 steps/sangain

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All age groups	Care & management	Provide only clean/wholesome drinking water only
(Chicken/ Turkey/ Duck)			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	Care & management	Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem
	young ones		➤ Give multivitamins @15ml orally
			Use quality disinfectants for disinfecting the surrounding of the sheds
		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	Care and management	➤ Mineral mixture be added in feed @10-20g/adult animal







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		Feed	Fish feed should be provided @ 10-15 % body weight per day.
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		Fish	
		Fish	 Partial harvesting of marketable size fishes are also recommended
	Paddy cum fish	Fish water	 Partial harvesting of marketable size fishes are also recommended Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
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