



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th May, 2013

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 15th to 19th May, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th May, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 12th May. 45.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 – 28.0 °C, range of minimum temperature observed was 17.6 – 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 – 3.3 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (15th to 19th May, 2013)</u></p> <p>It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be partly cloudy to cloudy but mainly clear on 18th May, with maximum temp. of 26.0 - 28.0 °C and minimum temp. of 19.0 °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 82 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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Main Weather Observation

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

Weather Forecast for next 3 days (upto 0830 hours IST of 17th May, 2013)

Rain/thundershowers would occur at many places over northeastern states

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

Weather Outlook for subsequent 4 days from 17th to 21st May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<i>Field Crops</i>			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm. - At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	- Weeding may be done. - Top dressing may be done when the plants is knee high. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
	Flowering to cob formation		- Weeding may be done. - Maintain proper drainage system to drain out excess water.
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
<i>Horticulture Crops</i>			
Proper drainage should be made to prevent water logging as water logging			
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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Cucurbits	Flowering to fruiting		- Proper drainage and staking for trill may be made. Avoid fruits to touch ground. Harvest mature fruits.
Chilli/ tomato/ brinjal	- Fruiting stage - Nursery		- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done. - Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	- Vaccinate with Swine Fever vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD. - Diarocare bolus (@ 1.5g); 1-2 bolus twice daily for 4 days. - Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination. - Check that the animals do not drink the water that has been drained from hills/ upland areas, as the spores causing B.Q. are abundantly present in it. - Vaccinate all the susceptible animals against the FMD. - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. - Apply Butox @ 3ml/lit of water while brushing the animals.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid Colebacilliosis .

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	▪ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	▪ Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @ 5-10% body weight/day.

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

14th May, 2013

Chandel

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<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th May, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 12th May. 45.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 – 28.0 °C, range of minimum temperature observed was 17.6 – 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 – 3.3 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (15th to 19th May, 2013)</u></p> <p>It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy but clear on 19th May, with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 19.0 - 23.0 °C. The maximum RH is likely to attain a max value of 98 % and minimum RH of 88 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.</p>
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Main Weather Observation

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

Weather Forecast for next 3 days (upto 0830 hours IST of 17th May, 2013)

Rain/thundershowers would occur at many places over northeastern states

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

Weather Outlook for subsequent 4 days from 17th to 21st May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm. - At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	- Weeding may be done. - Top dressing may be done when the plants is knee high. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
	Flowering to cob formation		- Weeding may be done. - Maintain proper drainage system to drain out excess water.
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Proper drainage should be made to prevent water logging as water logging			
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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Cucurbits	Flowering to fruiting		- Proper drainage and staking for trill may be made. Avoid fruits to touch ground. Harvest mature fruits.
Chilli/ tomato/ brinjal	- Fruiting stage - Nursery		- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done. - Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	- Vaccinate with Swine Fever vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD. - Diarocare bolus (@ 1.5g); 1-2 bolus twice daily for 4 days. - Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination. - Check that the animals do not drink the water that has been drained from hills/ upland areas, as the spores causing B.Q. are abundantly present in it. - Vaccinate all the susceptible animals against the FMD. - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. - Apply Butox @ 3ml/lit of water while brushing the animals.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid Colebacilliosis .

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	▪ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	▪ Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @ 5-10% body weight/day.

I. Meghachandra Singh
Scientist i/c, IAAS



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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 15th to 19th May, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th May, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 12th May. 45.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 – 28.0 °C, range of minimum temperature observed was 17.6 – 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 – 3.3 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (15th to 19th May, 2013)</u></p> <p>It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 31.0 °C and minimum temp. of 18.0 - 21.0 °C. The maximum RH is likely to attain a max value of 98 % and minimum RH of 90 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>
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Main Weather Observation

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

Weather Forecast for next 3 days (upto 0830 hours IST of 17th May, 2013)

Rain/thundershowers would occur at many places over northeastern states

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

Weather Outlook for subsequent 4 days from 17th to 21st May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm. - At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	- Weeding may be done. - Top dressing may be done when the plants is knee high. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
	Flowering to cob formation		- Weeding may be done. - Maintain proper drainage system to drain out excess water.
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Proper drainage should be made to prevent water logging as water logging			
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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Cucurbits	Flowering to fruiting		- Proper drainage and staking for trill may be made. Avoid fruits to touch ground. Harvest mature fruits.
Chilli/ tomato/ brinjal	- Fruiting stage - Nursery		- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done. - Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	- Vaccinate with Swine Fever vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD. - Diarocare bolus (@ 1.5g); 1-2 bolus twice daily for 4 days. - Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination. - Check that the animals do not drink the water that has been drained from hills/ upland areas, as the spores causing B.Q. are abundantly present in it. - Vaccinate all the susceptible animals against the FMD. - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. - Apply Butox @ 3ml/lit of water while brushing the animals.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid Colebacilliosis .

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	▪ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	▪ Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @ 5-10% body weight/day.

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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 15th to 19th May, 2013 as given below:

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Main Weather Observation

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Fisheries

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Scientist i/c, IAAS



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MANIPUR BULLETIN

14th May, 2013

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 15th to 19th May, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th May, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 12th May. 45.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 – 28.0 °C, range of minimum temperature observed was 17.6 – 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 – 3.3 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - West (15th to 19th May, 2013)</u></p> <p>It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be partly cloudy to cloudy but clear on 18th May, with maximum temp. of 24.0 - 28.0 °C and minimum temp. of 17.0 – 19.0 °C. The maximum RH is likely to attain a max value of 98 % and minimum RH of 89 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>
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Main Weather Observation

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

Weather Forecast for next 3 days (upto 0830 hours IST of 17th May, 2013)

Rain/thundershowers would occur at many places over northeastern states

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

Weather Outlook for subsequent 4 days from 17th to 21st May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm. - At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	- Weeding may be done. - Top dressing may be done when the plants is knee high. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
	Flowering to cob formation		- Weeding may be done. - Maintain proper drainage system to drain out excess water.
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Proper drainage should be made to prevent water logging as water logging			
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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Manipur Centre, Lamphelpat, Imphal - 795 004



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Cucurbits	Flowering to fruiting		- Proper drainage and staking for trill may be made. Avoid fruits to touch ground. Harvest mature fruits.
Chilli/ tomato/ brinjal	- Fruiting stage - Nursery		- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done. - Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	- Vaccinate with Swine Fever vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD. - Diarocare bolus (@ 1.5g); 1-2 bolus twice daily for 4 days. - Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination. - Check that the animals do not drink the water that has been drained from hills/ upland areas, as the spores causing B.Q. are abundantly present in it. - Vaccinate all the susceptible animals against the FMD. - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. - Apply Butox @ 3ml/lit of water while brushing the animals.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid Colebacilliosis .

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	▪ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	▪ Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @ 5-10% body weight/day.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th May, 2013

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 15th to 19th May, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th May, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 12th May. 45.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 – 28.0 °C, range of minimum temperature observed was 17.6 – 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 – 3.3 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (15th to 19th May, 2013)</u></p> <p>It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 22.0 - 26.0 °C and minimum temp. of 15.0 – 19.0 °C. The maximum RH is likely to attain a max value of 97 % and minimum RH of 84 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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Main Weather Observation

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

Weather Forecast for next 3 days (upto 0830 hours IST of 17th May, 2013)

Rain/thundershowers would occur at many places over northeastern states

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

Weather Outlook for subsequent 4 days from 17th to 21st May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm. - At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	- Weeding may be done. - Top dressing may be done when the plants is knee high. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
	Flowering to cob formation		- Weeding may be done. - Maintain proper drainage system to drain out excess water.
Soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Proper drainage should be made to prevent water logging as water logging			
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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Cucurbits	Flowering to fruiting		- Proper drainage and staking for trill may be made. Avoid fruits to touch ground. Harvest mature fruits.
Chilli/ brinjal	- Fruiting stage - Nursery		- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done. - Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	- Vaccinate with Swine Fever vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD. - Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days. - Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination. - Check that the animals do not drink the water that has been drained from hills/ upland areas, as the spores causing B.Q. are abundantly present in it. - Vaccinate all the susceptible animals against the FMD. - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. - Apply Butox @3ml/lit of water while brushing the animals.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid Colebacilliosis .

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	▪ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	▪ Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @5-10% body weight/day.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th May, 2013

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 15th to 19th May, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th May, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 12th May. 45.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 – 28.0 °C, range of minimum temperature observed was 17.6 – 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 – 3.3 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (15th to 19th May, 2013)</u></p> <p>It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be partly cloudy to cloudy but mainly clear on 18th May, with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 89 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>
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Main Weather Observation

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

Weather Forecast for next 3 days (upto 0830 hours IST of 17th May, 2013)

Rain/thundershowers would occur at many places over northeastern states

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

Weather Outlook for subsequent 4 days from 17th to 21st May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<i>Field Crops</i>			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm. - At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	- Weeding may be done. - Top dressing may be done when the plants is knee high. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
	Flowering to cob formation		- Weeding may be done. - Maintain proper drainage system to drain out excess water.
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
<i>Horticulture Crops</i>			
Proper drainage should be made to prevent water logging as water logging			
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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Cucurbits	Flowering to fruiting		- Proper drainage and staking for trill may be made. Avoid fruits to touch ground. Harvest mature fruits.
Chilli/ tomato/ brinjal	- Fruiting stage - Nursery		- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done. - Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	- Vaccinate with Swine Fever vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD. - Diarocare bolus (@ 1.5g); 1-2 bolus twice daily for 4 days. - Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination. - Check that the animals do not drink the water that has been drained from hills/ upland areas, as the spores causing B.Q. are abundantly present in it. - Vaccinate all the susceptible animals against the FMD. - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. - Apply Butox @ 3ml/lit of water while brushing the animals.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid Colebacilliosis .

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	▪ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	▪ Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @ 5-10% body weight/day.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th May, 2013

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 15th to 19th May, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th May, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 12th May. 45.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 – 28.0 °C, range of minimum temperature observed was 17.6 – 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 – 3.3 km/hr.</p>	<p><u>Weather forecast for next five days of Thoubal (15th to 19th May, 2013)</u></p> <p>It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy but clear on 19th May, with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 18.0 - 20.0 °C. The maximum RH is likely to attain a max value of 98 % and minimum RH of 79 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.</p>
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Main Weather Observation

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

Weather Forecast for next 3 days (upto 0830 hours IST of 17th May, 2013)

Rain/thundershowers would occur at many places over northeastern states

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

Weather Outlook for subsequent 4 days from 17th to 21st May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm. - At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	- Weeding may be done. - Top dressing may be done when the plants is knee high. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
	Flowering to cob formation		- Weeding may be done. - Maintain proper drainage system to drain out excess water.
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Proper drainage should be made to prevent water logging as water logging			
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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



“Integrated Agromet Advisory Services”

Cucurbits	Flowering to fruiting		- Proper drainage and staking for trill may be made. Avoid fruits to touch ground. Harvest mature fruits.
Chilli/ tomato/ brinjal	- Fruiting stage - Nursery		- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done. - Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	- Vaccinate with Swine Fever vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD. - Diarocare bolus (@ 1.5g); 1-2 bolus twice daily for 4 days. - Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination. - Check that the animals do not drink the water that has been drained from hills/ upland areas, as the spores causing B.Q. are abundantly present in it. - Vaccinate all the susceptible animals against the FMD. - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. - Apply Butox @ 3ml/lit of water while brushing the animals.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid Colebacilliosis .

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	▪ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	▪ Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @ 5-10% body weight/day.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th May, 2013

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 15th to 19th May, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th May, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 12th May. 45.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 – 28.0 °C, range of minimum temperature observed was 17.6 – 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 – 3.3 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (15th to 19th May, 2013)</u></p> <p>It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 21.0 - 25.0 °C and minimum temp. of 14.0 – 19.0 °C. The maximum RH is likely to attain a max value of 96 % and minimum RH of 87 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.</p>
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Main Weather Observation

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

Weather Forecast for next 3 days (upto 0830 hours IST of 17th May, 2013)

Rain/thundershowers would occur at many places over northeastern states

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

Weather Outlook for subsequent 4 days from 17th to 21st May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm. - At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	- Weeding may be done. - Top dressing may be done when the plants is knee high. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
	Flowering to cob formation		- Weeding may be done. - Maintain proper drainage system to drain out excess water.
Soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Proper drainage should be made to prevent water logging as water logging			
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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“Integrated Agromet Advisory Services”

Cucurbits	Flowering to fruiting		- Proper drainage and staking for trill may be made. Avoid fruits to touch ground. Harvest mature fruits.
Chilli/ brinjal	- Fruiting stage - Nursery		- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done. - Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD. - Diarocare bolus (@ 1.5g); 1-2 bolus twice daily for 4 days. - Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	- Vaccination of <i>B.Q. and H.S.</i> polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination. - Check that the animals do not drink the water that has been drained from hills/ upland areas, as the spores causing B.Q. are abundantly present in it. - Vaccinate all the susceptible animals against the FMD. - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. - Apply Butox @ 3ml/lit of water while brushing the animals.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	▪ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	▪ Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @ 5-10% body weight/day.

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