



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

12th April, 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 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 29.0 - 32.0 °C. The minimum temp. is likely to be 13.0 – 17.0 °C. The maximum RH is likely to attain a max value of 92 %. Minimum RH is likely to reach a max of 44 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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CLOUDS: Kalpana- 1Cloud imagery at 0530 hours IST shows low/medium clouds over some parts of Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre- Kharif Rice	Nursery to transplanting		<ul style="list-style-type: none"> - Apply 88kg of DAP, 38 kg Urea and 32 kg MOP at final ploughing as basal dose. - 30-40 days old seedlings should be transplanted (spacing of 25 x 10 cm with 2-3 seedlings per hill for normal transplanting and spacing of 20 x 10 cm with 3-4 seedlings per hill for late transplanting using marked/ beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	<ul style="list-style-type: none"> - Apply 2-3 granules of Furadan 3G in the whorl of infected plant in vegetative stage. - Weeding should be done.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture Crops			
Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
Okra/ Lady's finger	Land preparation		- Land preparation & sowing of okra/ lady's finger may be done.
Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
Tomato	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Depending on the stage of the plant, take-up prophylactic measures against fruit borer. - For early blight and leaf spot diseases prophylactic measures may be taken up if the plants are in flowering initiation stage.
Onion	Harvesting		Harvest before rains.
Cabbage	Harvesting		- Cracking/ damage of head may take place due to thunder storm, hence harvesting may be done.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.
Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
		Health	- Spray CIFAX to protect the brooders from diseases.
	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



**ICAR Research Complex for N.E.H. Region
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MANIPUR BULLETIN

12th April, 2013

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 30.0 - 35.0 °C. The minimum temp. is likely to be 15.0 – 19.0 °C. The maximum RH is likely to attain a max value of 87 %. Minimum RH is likely to reach a max of 42 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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CLOUDS: Kalpana- 1Cloud imagery at 0530 hours IST shows low/medium clouds over some parts of Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre- Kharif Rice	Nursery to transplanting		<ul style="list-style-type: none"> - Apply 88kg of DAP, 38 kg Urea and 32 kg MOP at final ploughing as basal dose. - 30-40 days old seedlings should be transplanted (spacing of 25 x 10 cm with 2-3 seedlings per hill for normal transplanting and spacing of 20 x 10 cm with 3-4 seedlings per hill for late transplanting using marked/ beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	<ul style="list-style-type: none"> - Apply 2-3 granules of Furadan 3G in the whorl of infected plant in vegetative stage. - Weeding should be done.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture Crops			
Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
Okra/ Lady's finger	Land preparation		- Land preparation & sowing of okra/ lady's finger may be done.
Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
Tomato	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Depending on the stage of the plant, take-up prophylactic measures against fruit borer. - For early blight and leaf spot diseases prophylactic measures may be taken up if the plants are in flowering initiation stage.
Onion	Harvesting		Harvest before rains.
Cabbage	Harvesting		- Cracking/ damage of head may take place due to thunder storm, hence harvesting may be done.



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Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.
Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
		Health	- Spray CIFAX to protect the brooders from diseases.
	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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MANIPUR BULLETIN

12th April, 2013

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 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 29.0 - 34.0 °C. The minimum temp. is likely to be 14.0 – 18.0 °C. The maximum RH is likely to attain a max value of 93 %. Minimum RH is likely to reach a max of 40 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.</p>
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CLOUDS: Kalpana- 1Cloud imagery at 0530 hours IST shows low/medium clouds over some parts of Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre- Kharif Rice	Nursery to transplanting		<ul style="list-style-type: none"> - Apply 88kg of DAP, 38 kg Urea and 32 kg MOP at final ploughing as basal dose. - 30-40 days old seedlings should be transplanted (spacing of 25 x 10 cm with 2-3 seedlings per hill for normal transplanting and spacing of 20 x 10 cm with 3-4 seedlings per hill for late transplanting using marked/ beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	<ul style="list-style-type: none"> - Apply 2-3 granules of Furadan 3G in the whorl of infected plant in vegetative stage. - Weeding should be done.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture Crops			
Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
Okra/ Lady's finger	Land preparation		- Land preparation & sowing of okra/ lady's finger may be done.
Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
Tomato	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Depending on the stage of the plant, take-up prophylactic measures against fruit borer. - For early blight and leaf spot diseases prophylactic measures may be taken up if the plants are in flowering initiation stage.
Onion	Harvesting		Harvest before rains.
Cabbage	Harvesting		- Cracking/ damage of head may take place due to thunder storm, hence harvesting may be done.



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Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.
Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
		Health	- Spray CIFAX to protect the brooders from diseases.
	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

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MANIPUR BULLETIN

12th April, 2013

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 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - East (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 28.0 - 32.0 °C. The minimum temp. is likely to be 14.0 – 17.0 °C. The maximum RH is likely to attain a max value of 96 %. Minimum RH is likely to reach a max of 40 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.</p>
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CLOUDS: Kalpana- 1Cloud imagery at 0530 hours IST shows low/medium clouds over some parts of Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre- Kharif Rice	Nursery to transplanting		<ul style="list-style-type: none"> - Apply 88kg of DAP, 38 kg Urea and 32 kg MOP at final ploughing as basal dose. - 30-40 days old seedlings should be transplanted (spacing of 25 x 10 cm with 2-3 seedlings per hill for normal transplanting and spacing of 20 x 10 cm with 3-4 seedlings per hill for late transplanting using marked/ beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	<ul style="list-style-type: none"> - Apply 2-3 granules of Furadan 3G in the whorl of infected plant in vegetative stage. - Weeding should be done.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture Crops			
Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
Okra/ Lady's finger	Land preparation		- Land preparation & sowing of okra/ lady's finger may be done.
Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
Tomato	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Depending on the stage of the plant, take-up prophylactic measures against fruit borer. - For early blight and leaf spot diseases prophylactic measures may be taken up if the plants are in flowering initiation stage.
Onion	Harvesting		Harvest before rains.
Cabbage	Harvesting		- Cracking/ damage of head may take place due to thunder storm, hence harvesting may be done.



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Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.
Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
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	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

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MANIPUR BULLETIN

12th April, 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 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - West (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 29.0 - 33.0 °C. The minimum temp. is likely to be 14.0 – 18.0 °C. The maximum RH is likely to attain a max value of 95 %. Minimum RH is likely to reach a max of 39 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
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Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
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Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
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ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.
Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
		Health	- Spray CIFAX to protect the brooders from diseases.
	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

12th April, 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 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 27.0 - 29.0 °C. The minimum temp. is likely to be 12.0 – 18.0 °C. The maximum RH is likely to attain a max value of 93 %. Minimum RH is likely to reach a max of 37 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.</p>
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CLOUDS: Kalpana- 1Cloud imagery at 0530 hours IST shows low/medium clouds over some parts of Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre- Kharif Rice	Nursery to transplanting		<ul style="list-style-type: none"> - Apply 88kg of DAP, 38 kg Urea and 32 kg MOP at final ploughing as basal dose. - 30-40 days old seedlings should be transplanted (spacing of 25 x 10 cm with 2-3 seedlings per hill for normal transplanting and spacing of 20 x 10 cm with 3-4 seedlings per hill for late transplanting using marked/ beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	<ul style="list-style-type: none"> - Apply 2-3 granules of Furadan 3G in the whorl of infected plant in vegetative stage. - Weeding should be done.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture Crops			
Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.



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Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
		Health	- Spray CIFAX to protect the brooders from diseases.
	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

12th April, 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 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 29.0 - 34.0 °C. The minimum temp. is likely to be 14.0 – 18.0 °C. The maximum RH is likely to attain a max value of 94 %. Minimum RH is likely to reach a max of 39 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.</p>
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CLOUDS: Kalpana- 1Cloud imagery at 0530 hours IST shows low/medium clouds over some parts of Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre- Kharif Rice	Nursery to transplanting		<ul style="list-style-type: none"> - Apply 88kg of DAP, 38 kg Urea and 32 kg MOP at final ploughing as basal dose. - 30-40 days old seedlings should be transplanted (spacing of 25 x 10 cm with 2-3 seedlings per hill for normal transplanting and spacing of 20 x 10 cm with 3-4 seedlings per hill for late transplanting using marked/ beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	<ul style="list-style-type: none"> - Apply 2-3 granules of Furadan 3G in the whorl of infected plant in vegetative stage. - Weeding should be done.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture Crops			
Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
Okra/ Lady's finger	Land preparation		- Land preparation & sowing of okra/ lady's finger may be done.
Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
Tomato	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Depending on the stage of the plant, take-up prophylactic measures against fruit borer. - For early blight and leaf spot diseases prophylactic measures may be taken up if the plants are in flowering initiation stage.
Onion	Harvesting		Harvest before rains.
Cabbage	Harvesting		- Cracking/ damage of head may take place due to thunder storm, hence harvesting may be done.



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Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.
Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
		Health	- Spray CIFAX to protect the brooders from diseases.
	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

12th April, 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 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Thoubal (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 29.0 - 33.0 °C. The minimum temp. is likely to be 14.0 – 17.0 °C. The maximum RH is likely to attain a max value of 92 %. Minimum RH is likely to reach a max of 46 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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CLOUDS: Kalpana- 1Cloud imagery at 0530 hours IST shows low/medium clouds over some parts of Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre- Kharif Rice	Nursery to transplanting		<ul style="list-style-type: none"> - Apply 88kg of DAP, 38 kg Urea and 32 kg MOP at final ploughing as basal dose. - 30-40 days old seedlings should be transplanted (spacing of 25 x 10 cm with 2-3 seedlings per hill for normal transplanting and spacing of 20 x 10 cm with 3-4 seedlings per hill for late transplanting using marked/ beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	<ul style="list-style-type: none"> - Apply 2-3 granules of Furadan 3G in the whorl of infected plant in vegetative stage. - Weeding should be done.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture Crops			
Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
Okra/ Lady's finger	Land preparation		- Land preparation & sowing of okra/ lady's finger may be done.
Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
Tomato	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Depending on the stage of the plant, take-up prophylactic measures against fruit borer. - For early blight and leaf spot diseases prophylactic measures may be taken up if the plants are in flowering initiation stage.
Onion	Harvesting		Harvest before rains.
Cabbage	Harvesting		- Cracking/ damage of head may take place due to thunder storm, hence harvesting may be done.



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Manipur Centre, Lamphelpat, Imphal - 795 004



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.
Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
		Health	- Spray CIFAX to protect the brooders from diseases.
	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

12th April, 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 13th to 17th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th April, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. 0.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 30.8 – 32.3 °C, range of minimum temperature observed was 16.1 – 17.3 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 34.67 % respectively. The average wind speed range was 2.3 – 5.7 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (13th to 17th April, 2013)</u></p> <p>There is likely to have light rain/ thunder-squall during next five days. The sky is likely to be partly to mainly cloudy during next five days. The maximum temp. is likely to be 27.0 - 29.0 °C. The minimum temp. is likely to be 12.0 – 18.0 °C. The maximum RH is likely to attain a max value of 85 %. Minimum RH is likely to reach a max of 38 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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CLOUDS: Kalpana- 1Cloud imagery at 0530 hours IST shows low/medium clouds over some parts of Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre- Kharif Rice	Nursery to transplanting		<ul style="list-style-type: none"> - Apply 88kg of DAP, 38 kg Urea and 32 kg MOP at final ploughing as basal dose. - 30-40 days old seedlings should be transplanted (spacing of 25 x 10 cm with 2-3 seedlings per hill for normal transplanting and spacing of 20 x 10 cm with 3-4 seedlings per hill for late transplanting using marked/ beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	<ul style="list-style-type: none"> - Apply 2-3 granules of Furadan 3G in the whorl of infected plant in vegetative stage. - Weeding should be done.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture Crops			
Citrus	All age	Leaf Miner	- As a prophylactic measure, spray Redomil @ 2.5g/ lit of water against leaf miner.
Alocassia	Planting		Plant alocassia in upland and sunny area at a spacing of 45 x 60 cm. Treat the seed to protect from leaf spot.
Cucurbits	Flowering to fruiting		<p>bitter gourd: Top dressing with 20gm DAP + 3gm MOP per plant will enhance fruiting. Give light irrigation to keep the soil moist as the weather is dry. Also, provide proper support system for trelling types.</p> <p>Water-melon/cucumber/bottle gourd: Use 4-5 drops of Methyl Eugenol per 150-200ml of water against Red pumpkin beetle. Water stress must not be there during fruiting period.</p>
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Goat	All susceptible age groups	De-worming against Nematodes	- Tolzan-F @ 90ml/ 300 kg body weight once only.



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Poultry	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> but deworm with before vaccination.
		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 - Provide clean drinking water as polluted water may cause Colebacillosis, hence add water sanitizer (Sukrena) in drinking water.
Fisheries			
Type of Farming	Stage	Managment	Agro-metrological advisories
Carp culture	Brooders	Pond water	- maintain clean water, free from algal blooms and depth of 1.5 - 2.0 m. Apply lime regularly@ 25kg/ha every month.
		Feed	Well balanced feeds containing vitamins & minerals should be provided @ 5% body weight per day in three splits.
		Health	- Spray CIFAX to protect the brooders from diseases.
	Breeding	pond	<ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.7ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

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