



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

2nd 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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly cloudy during next five days. The maximum temp. is likely to be 28.0 - 31.0 °C. The minimum temp. is likely to be 11.0 – 15.0 °C. The maximum RH is likely to attain a max value of 95 %. Minimum RH is likely to reach a max of 77 %. 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 northeastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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			
<p><i>Leaf mould for vegetables:</i> - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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“Integrated Agromet Advisory Services”

Tomato	Vegetative to flowering		- Weeding may be done. - In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows: <ul style="list-style-type: none">▪ For 40 days old crop : 14.4 kg Urea in 1500 lit of water▪ For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Potato	Harvest to post harvest		Mature crops may be harvested and spread the tubers on shed for 3-4 days before storage.
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. - Give vitamins like Feroliv @ 10-20 ml twice daily in feed.
		Deworming	Deworm using Panacur tab @ 1.5mg/10kg body weight.
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. - Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
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> .
		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) for 5 to 7 days - Provide Calcium preparation like Supercare @ 50ml/100 birds
		Deworming	Deworm with Piperazine liquid @ 50ml/100 birds
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	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 @ <i>0.5ml/kg fish</i> for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ <i>0.5ml/kg fish</i> 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

2nd 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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly cloudy during next five days. The maximum temp. is likely to be 29.0 - 33.0 °C. The minimum temp. is likely to be 15.0 – 19.0 °C. The maximum RH is likely to attain a max value of 80 %. Minimum RH is likely to reach a max of 56 %. 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 northeastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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			
<p><i>Leaf mould for vegetables:</i> - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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Tomato	Vegetative to flowering		<ul style="list-style-type: none">- Weeding may be done.- In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:<ul style="list-style-type: none">▪ For 40 days old crop : 14.4 kg Urea in 1500 lit of water▪ For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Potato	Harvest to post harvest		Mature crops may be harvested and spread the tubers on shed for 3-4 days before storage.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	<ul style="list-style-type: none">- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.- Give vitamins like Feroliv @ 10-20 ml twice daily in feed.
		Deworming	Deworm using Panacur tab @ 1.5mg/10kg body weight.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	<ul style="list-style-type: none">- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.- Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
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> .
		Coccidiosis	<ul style="list-style-type: none">- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) for 5 to 7 days- Provide Calcium preparation like Supercare @ 50ml/100 birds
		Deworming	Deworm with Piperazine liquid @ 50ml/100 birds
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	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 @ <i>0.5ml/kg fish</i> for breeding in both the brooders of common carp.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ <i>0.5ml/kg fish</i> 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

2nd 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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly cloudy during next five days. The maximum temp. is likely to be 26.0 - 30.0 °C. The minimum temp. is likely to be 11.0 – 15.0 °C. The maximum RH is likely to attain a max value of 89 %. Minimum RH is likely to reach a max of 79 %. The average wind speed during next five days may reach upto max. value of 8 km/hr.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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			
<p><i>Leaf mould for vegetables:</i> - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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Tomato	Vegetative to flowering		<ul style="list-style-type: none">- Weeding may be done.- In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:<ul style="list-style-type: none">▪ For 40 days old crop : 14.4 kg Urea in 1500 lit of water▪ For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Potato	Harvest to post harvest		Mature crops may be harvested and spread the tubers on shed for 3-4 days before storage.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	<ul style="list-style-type: none">- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.- Give vitamins like Feroliv @ 10-20 ml twice daily in feed.
		Deworming	Deworm using Panacur tab @ 1.5mg/10kg body weight.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	<ul style="list-style-type: none">- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.- Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	<ul style="list-style-type: none">- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
Poultry	All susceptible age groups	Ranikhet Disease	<ul style="list-style-type: none">- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i>.
		Coccidiosis	<ul style="list-style-type: none">- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) for 5 to 7 days- Provide Calcium preparation like Supercare @ 50ml/100 birds
		Deworming	Deworm with Piperazine liquid @ 50ml/100 birds
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	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 @ 0.5ml/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

2nd 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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - East (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly cloudy during next five days. The maximum temp. is likely to be 25.0 - 30.0 °C. The minimum temp. is likely to be 14.0 – 16.0 °C. The maximum RH is likely to attain a max value of 90 %. Minimum RH is likely to reach a max of 79 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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			
<p><i>Leaf mould for vegetables:</i> - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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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. - Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
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Type of Farming	Stage	Field	Agro-metrological advisories
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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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - West (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly cloudy during next five days. The maximum temp. is likely to be 27.0 - 31.0 °C. The minimum temp. is likely to be 13.0 – 16.0 °C. The maximum RH is likely to attain a max value of 96 %. Minimum RH is likely to reach a max of 92 %. 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 northeastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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			
<p><i>Leaf mould for vegetables:</i> - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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



“Integrated Agromet Advisory Services”

Tomato	Vegetative to flowering		<ul style="list-style-type: none">- Weeding may be done.- In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:<ul style="list-style-type: none">▪ For 40 days old crop : 14.4 kg Urea in 1500 lit of water▪ For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Potato	Harvest to post harvest		Mature crops may be harvested and spread the tubers on shed for 3-4 days before storage.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	<ul style="list-style-type: none">- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.- Give vitamins like Feroliv @ 10-20 ml twice daily in feed.
		Deworming	Deworm using Panacur tab @ 1.5mg/10kg body weight.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	<ul style="list-style-type: none">- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.- Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	<ul style="list-style-type: none">- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
Poultry	All susceptible age groups	Ranikhet Disease	<ul style="list-style-type: none">- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i>.
		Coccidiosis	<ul style="list-style-type: none">- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) for 5 to 7 days- Provide Calcium preparation like Supercare @ 50ml/100 birds
		Deworming	Deworm with Piperazine liquid @ 50ml/100 birds
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	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 @ 0.5ml/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.



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

2nd 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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly cloudy during next five days. The maximum temp. is likely to be 24.0 - 29.0 °C. The minimum temp. is likely to be 8.0 – 12.0 °C. The maximum RH is likely to attain a max value of 94 %. Minimum RH is likely to reach a max of 80 %. 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 northeastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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			
<p><i>Leaf mould for vegetables:</i> - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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Manipur Centre, Lamphelpat, Imphal - 795 004



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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. - Give vitamins like Feroliv @ 10-20 ml twice daily in feed.
		Deworming	Deworm using Panacur tab @ 1.5mg/10kg body weight.
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. - Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
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> .
		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) for 5 to 7 days - Provide Calcium preparation like Supercare @ 50ml/100 birds
		Deworming	Deworm with Piperazine liquid @ 50ml/100 birds
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	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 @ 0.5ml/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

2nd 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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly 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 89 %. Minimum RH is likely to reach a max of 82 %. 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 northeastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<i>Field Crops</i>			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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.
<i>Horticulture Crops</i>			
<p>Leaf mould for vegetables: - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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



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Tomato	Vegetative to flowering		- Weeding may be done. - In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows: <ul style="list-style-type: none">▪ For 40 days old crop : 14.4 kg Urea in 1500 lit of water▪ For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Potato	Harvest to post harvest		Mature crops may be harvested and spread the tubers on shed for 3-4 days before storage.
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. - Give vitamins like Feroliv @ 10-20 ml twice daily in feed.
		Deworming	Deworm using Panacur tab @ 1.5mg/10kg body weight.
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. - Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
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> .
		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) for 5 to 7 days - Provide Calcium preparation like Supercare @ 50ml/100 birds
		Deworming	Deworm with Piperazine liquid @ 50ml/100 birds
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	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 @ 0.5ml/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.



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

2nd 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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Thoubal (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly cloudy during next five days. The maximum temp. is likely to be 27.0 - 31.0 °C. The minimum temp. is likely to be 13.0 – 16.0 °C. The maximum RH is likely to attain a max value of 94 %. Minimum RH is likely to reach a max of 74 %. 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 northeastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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			
<p><i>Leaf mould for vegetables:</i> - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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



“Integrated Agromet Advisory Services”

Tomato	Vegetative to flowering		<ul style="list-style-type: none">- Weeding may be done.- In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:<ul style="list-style-type: none">▪ For 40 days old crop : 14.4 kg Urea in 1500 lit of water▪ For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Potato	Harvest to post harvest		Mature crops may be harvested and spread the tubers on shed for 3-4 days before storage.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	<ul style="list-style-type: none">- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.- Give vitamins like Feroliv @ 10-20 ml twice daily in feed.
		Deworming	Deworm using Panacur tab @ 1.5mg/10kg body weight.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	<ul style="list-style-type: none">- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.- Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	<ul style="list-style-type: none">- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
Poultry	All susceptible age groups	Ranikhet Disease	<ul style="list-style-type: none">- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i>.
		Coccidiosis	<ul style="list-style-type: none">- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) for 5 to 7 days- Provide Calcium preparation like Supercare @ 50ml/100 birds
		Deworming	Deworm with Piperazine liquid @ 50ml/100 birds
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	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 @ 0.5ml/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.



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

2nd 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 3rd to 7th April, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (29th March to 1st April, 2013)</u></p> <p>During the past four days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 30.8 °C, range of minimum temperature observed was 13.6 – 16.6 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 44.75 % respectively. The average wind speed range was 2.9 – 9.2 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (3rd to 7th April, 2013)</u></p> <p>There is likely to have light rain during next three days. The sky is likely to be clear to partly cloudy during next five days. The maximum temp. is likely to be 24.0 - 28.0 °C. The minimum temp. is likely to be 8.0 – 12.0 °C. The maximum RH is likely to attain a max value of 81 %. Minimum RH is likely to reach a max of 61 %. 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 northeastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 5th April, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Warning during next 3 days

Thundersquall would occur at one or two places over northeastern states

Weather Outlook for subsequent 4 days from 5th to 9th April, 2013

Rain/thundershowers would occur at one or two places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Seedlings should be transplanted (spacing of 25 x 10 cm using beaded ropes) within two days of uprooting.
Maize	Vegetative to flowering	- Shoot borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant. -
Rapeseed	Post harvesting		- Clean threshed seeds must be packed and stored in wooden rack.
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			
<p><i>Leaf mould for vegetables:</i> - Collect dried twigs, branches and leaves of cabbage, cauliflower, broccoli, pea, mustard, banana in this season. Cut the branches at 2-3 inches length. Store them in vermibin if available, or in pit (3 x 6 x 2 ½ inches). Put 50-100gm Trichoderma or little curd. Keep on pilling layer above a layer. Keep it moist and turning of layers may be done at weekly intervals. Keep it covered and after a month it can be used as leaf manure and it can also be used for mulching also.</p>			
French Bean/ Yard bean	Late sowing to vegetative		- Complete sowing within this week. - Weeding may be done, meanwhile check for infestation for any pest & disease or insect in the crop.
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	Vegetative		- Red pumpkin beetle starts affecting the crop as soon as plant starts bearing leaves. Use Methyl Eugenol as trap @ 10 traps/ sangam.



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. - Give vitamins like Feroliv @ 10-20 ml twice daily in feed.
		Deworming	Deworm using Panacur tab @ 1.5mg/10kg body weight.
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. - Provide mineral mixture like Minamil @ 5-10g once daily along with the feed.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
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> .
		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) for 5 to 7 days - Provide Calcium preparation like Supercare @ 50ml/100 birds
		Deworming	Deworm with Piperazine liquid @ 50ml/100 birds
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	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 @ 0.5ml/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