



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 26.0 - 31.0 °C. The minimum temp. is likely to be 11.0 – 14.0 °C. The maximum RH is likely to attain a max value of 87 %. Minimum RH is likely to reach a max of 50 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		<ul style="list-style-type: none"> - Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.



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Cucurbits	Vegetative		<ul style="list-style-type: none">- Adequate manuring and fertilization should be given.- 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking.- Weeding/ inter-culture operation and top dressing may be done.- In vegetative stage, staking/ support should be provided.
Tomato	Vegetative		<p>In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:</p> <ul style="list-style-type: none">▪ For 30 days old crop : 9.71 kg Urea in 1000 lit of water▪ 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
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.
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.
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/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days
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	<p>Water depth should be maintained at 1.0m</p> <p>After liming nursery ponds should be fertilized prior 15 days of spawn stocking.</p> <p>Feeding should be done 2-3 times a day @5-10% body weight/day.</p>



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MANIPUR BULLETIN

22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be 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 12.0 – 15.0 °C. The maximum RH is likely to attain a max value of 82 %. Minimum RH is likely to reach a max of 40 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		<ul style="list-style-type: none"> - Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.



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Cucurbits	Vegetative		<ul style="list-style-type: none"> - Adequate manuring and fertilization should be given. - 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking. - Weeding/ inter-culture operation and top dressing may be done. - In vegetative stage, staking/ support should be provided.
Tomato	Vegetative		<p>In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:</p> <ul style="list-style-type: none"> ▪ For 30 days old crop : 9.71 kg Urea in 1000 lit of water ▪ 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

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.
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.
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> .
		<i>Coccidiosis</i>	- Poultry must be provided <i>Coccidiostat/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days

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	<p>Water depth should be maintained at 1.0m</p> <p>After liming nursery ponds should be fertilized prior 15 days of spawn stocking.</p> <p>Feeding should be done 2-3 times a day @5-10% body weight/day.</p>



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MANIPUR BULLETIN

22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 27.0 - 30.0 °C. The minimum temp. is likely to be 10.0 – 13.0 °C. The maximum RH is likely to attain a max value of 84 %. Minimum RH is likely to reach a max of 53 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		<ul style="list-style-type: none"> - Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.



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Cucurbits	Vegetative		<ul style="list-style-type: none"> - Adequate manuring and fertilization should be given. - 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking. - Weeding/ inter-culture operation and top dressing may be done. - In vegetative stage, staking/ support should be provided.
Tomato	Vegetative		<p>In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:</p> <ul style="list-style-type: none"> ▪ For 30 days old crop : 9.71 kg Urea in 1000 lit of water ▪ 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

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.
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.
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> .
		<i>Coccidiosis</i>	- Poultry must be provided <i>Coccidiostat/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days

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	<p>Water depth should be maintained at 1.0m</p> <p>After liming nursery ponds should be fertilized prior 15 days of spawn stocking.</p> <p>Feeding should be done 2-3 times a day @5-10% body weight/day.</p>



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MANIPUR BULLETIN

22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - East (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be 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 10.0 – 14.0 °C. The maximum RH is likely to attain a max value of 87 %. Minimum RH is likely to reach a max of 51 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		<ul style="list-style-type: none"> - Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.



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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.
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.
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/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days
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	<p>Water depth should be maintained at 1.0m</p> <p>After liming nursery ponds should be fertilized prior 15 days of spawn stocking.</p> <p>Feeding should be done 2-3 times a day @5-10% body weight/day.</p>



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22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - West (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 25.0 - 29.0 °C. The minimum temp. is likely to be 11.0 – 15.0 °C. The maximum RH is likely to attain a max value of 87 %. Minimum RH is likely to reach a max of 60 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		<ul style="list-style-type: none"> - Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.



ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

Cucurbits	Vegetative		<ul style="list-style-type: none">- Adequate manuring and fertilization should be given.- 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking.- Weeding/ inter-culture operation and top dressing may be done.- In vegetative stage, staking/ support should be provided.
Tomato	Vegetative		<p>In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:</p> <ul style="list-style-type: none">▪ For 30 days old crop : 9.71 kg Urea in 1000 lit of water▪ 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
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.
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.
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/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days
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	<p>Water depth should be maintained at 1.0m</p> <p>After liming nursery ponds should be fertilized prior 15 days of spawn stocking.</p> <p>Feeding should be done 2-3 times a day @5-10% body weight/day.</p>



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MANIPUR BULLETIN

22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 25.0 - 29.0 °C. The minimum temp. is likely to be 9.0 – 12.0 °C. The maximum RH is likely to attain a max value of 91 %. Minimum RH is likely to reach a max of 60 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Cucurbits	Vegetative		<ul style="list-style-type: none"> - 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking. - Weeding/ inter-culture operation and top dressing may be done.



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			- In vegetative stage, staking/ support should be provided.
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.
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.
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> .
		<i>Coccidiosis</i>	- Poultry must be provided <i>Coccidiostat/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days
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

22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be 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 11.0 – 14.0 °C. The maximum RH is likely to attain a max value of 85 %. Minimum RH is likely to reach a max of 56 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<i>Field Crops</i>			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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>			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		<ul style="list-style-type: none"> - Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.



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Cucurbits	Vegetative		<ul style="list-style-type: none">- Adequate manuring and fertilization should be given.- 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking.- Weeding/ inter-culture operation and top dressing may be done.- In vegetative stage, staking/ support should be provided.
Tomato	Vegetative		<p>In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:</p> <ul style="list-style-type: none">▪ For 30 days old crop : 9.71 kg Urea in 1000 lit of water▪ 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
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.
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.
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/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days
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	<p>Water depth should be maintained at 1.0m</p> <p>After liming nursery ponds should be fertilized prior 15 days of spawn stocking.</p> <p>Feeding should be done 2-3 times a day @5-10% body weight/day.</p>



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Thoubal (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be 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 11.0 – 13.0 °C. The maximum RH is likely to attain a max value of 89 %. Minimum RH is likely to reach a max of 47 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		<ul style="list-style-type: none"> - Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.



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



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Cucurbits	Vegetative		<ul style="list-style-type: none">- Adequate manuring and fertilization should be given.- 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking.- Weeding/ inter-culture operation and top dressing may be done.- In vegetative stage, staking/ support should be provided.
Tomato	Vegetative		<p>In tomato foliar fertilization of nitrogen is very much effective. In a hectare crop area, it may be done as follows:</p> <ul style="list-style-type: none">▪ For 30 days old crop : 9.71 kg Urea in 1000 lit of water▪ 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
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.
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.
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/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days
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	<p>Water depth should be maintained at 1.0m</p> <p>After liming nursery ponds should be fertilized prior 15 days of spawn stocking.</p> <p>Feeding should be done 2-3 times a day @5-10% body weight/day.</p>



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd March, 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 23rd to 27th March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st March, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.4 – 29.2 °C, range of minimum temperature observed was 9.8 – 12.9 °C, mean relative humidity observed in morning and afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was 2.2 – 5.2 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (23rd to 27th March, 2013)</u></p> <p>There is likely to have light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 25.0 - 29.0 °C. The minimum temp. is likely to be 9.0 – 12.0 °C. The maximum RH is likely to attain a max value of 81 %. Minimum RH is likely to reach a max of 40 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		<ul style="list-style-type: none"> * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: <ul style="list-style-type: none"> - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	<ul style="list-style-type: none"> - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		<ul style="list-style-type: none"> - Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		<ul style="list-style-type: none"> - Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			<ul style="list-style-type: none"> - 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			
Turmeric/ Ginger	Rhizome selection & sowing		<ul style="list-style-type: none"> - Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. - Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). - Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. - Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		<ul style="list-style-type: none"> - To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. - Pinch off the flower bud as soon as it develops.
Cucurbits	Vegetative		<ul style="list-style-type: none"> - 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking. - Weeding/ inter-culture operation and top dressing may be done.



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“Integrated Agromet Advisory Services”

			- In vegetative stage, staking/ support should be provided.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
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.
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 Ranikhet disease .
		Coccidiosis	- Poultry must be provided <i>Cocciostat/ Coximar</i> (@ 2g/lit of drinking water) for 5 to 7 days
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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