



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd October, 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 October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u>	<u>Weather forecast for next five days of Bishnupur (23rd to 27th October, 2013)</u>
<p>During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.</p>	<p>There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23rd 26th & 27th Oct but mainly clear on 24th & 25th with maximum temp. of 27.0 - 29.0 °C and minimum temp. of 17.0 – 19.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 83 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		<ul style="list-style-type: none"> - Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
Soybean	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	<ul style="list-style-type: none"> - Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Potato	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		<ul style="list-style-type: none"> - Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		<ul style="list-style-type: none"> - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage).



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“Integrated Agromet Advisory Services”

			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Off season vegetables under protected cultivation	Transplanted tomato or king chilli		- Plant protection measures against early blight, late blight and tomato fruit borer must be taken up when the crops are 35-40 days old at an interval of 7-10 days interval. - Proper fungicide and insecticides may be procured well in advance before widespread infestation in the crop. - Same measures may be followed for king chilli also. - Surrounding area of the polyhouse should be hygienic and clean to avoid pest and insects.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Management	- Cover the wall with hessian cloth/ polysheet during night time. - Brooding house must be kept warm and avoid wet litter material. - Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @ 1ml/3kgbody weight orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.

Fisheries

* There are moderate rains in forecast hence, encircle pond with happa net to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

22nd October, 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 October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u></p> <p>During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Chandel (23rd to 27th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23rd 26th & 27th Oct but mainly clear on 24th & 25th with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 18.0 – 20.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 91 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		<ul style="list-style-type: none"> - Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
Soybean	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	<ul style="list-style-type: none"> - Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Potato	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		<ul style="list-style-type: none"> - Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		<ul style="list-style-type: none"> - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage).



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			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Off season vegetables under protected cultivation	Transplanted tomato or king chilli		- Plant protection measures against early blight, late blight and tomato fruit borer must be taken up when the crops are 35-40 days old at an interval of 7-10 days interval. - Proper fungicide and insecticides may be procured well in advance before widespread infestation in the crop. - Same measures may be followed for king chilli also. - Surrounding area of the polyhouse should be hygienic and clean to avoid pest and insects.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Management	- Cover the wall with hessian cloth/ polysheet during night time. - Brooding house must be kept warm and avoid wet litter material. - Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @ 1ml/3kgbody weight orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.

Fisheries

* There are moderate rains in forecast hence, encircle pond with happa net to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

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Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u></p> <p>During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (23rd to 27th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23rd 26th & 27th Oct but mainly clear on 24th & 25th with maximum temp. of 27.0 - 29.0 °C and minimum temp. of 17.0 – 19.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 89 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		<ul style="list-style-type: none"> - Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
Soybean	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	<ul style="list-style-type: none"> - Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Potato	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		<ul style="list-style-type: none"> - Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		<ul style="list-style-type: none"> - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage).



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Off season vegetables under protected cultivation	Transplanted tomato or king chilli		- Plant protection measures against early blight, late blight and tomato fruit borer must be taken up when the crops are 35-40 days old at an interval of 7-10 days interval. - Proper fungicide and insecticides may be procured well in advance before widespread infestation in the crop. - Same measures may be followed for king chilli also. - Surrounding area of the polyhouse should be hygienic and clean to avoid pest and insects.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Management	- Cover the wall with hessian cloth/ polysheet during night time. - Brooding house must be kept warm and avoid wet litter material. - Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @ 1ml/3kgbody weight orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
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Fisheries

* There are moderate rains in forecast hence, encircle pond with happa net to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
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Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

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Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

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Scientist i/c, IAAS



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MANIPUR BULLETIN

22nd October, 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 October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u>	<u>Weather forecast for next five days of Imphal - East (23rd to 27th October, 2013)</u>
<p>During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.</p>	<p>There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23rd 26th & 27th Oct but mainly clear on 24th & 25th with maximum temp. of 28.0 - 30.0 °C and minimum temp. of 18.0 – 19.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 88 % (minimum RH) upto Sunday. The average wind speed may be 2-3 km/hr during next five days.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		<ul style="list-style-type: none"> - Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
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Fisheries

* There are moderate rains in forecast hence, encircle pond with happa net to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd October, 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 October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u>	<u>Weather forecast for next five days of Imphal - West (23rd to 27th October, 2013)</u>
<p>During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.</p>	<p>There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23rd 26th & 27th Oct but mainly clear on 24th & 25th with maximum temp. of 27.0 - 29.0 °C and minimum temp. of 18.0 – 19.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 82 % (minimum RH) upto Sunday. The average wind speed may be 2-6 km/hr during next five days.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		<ul style="list-style-type: none"> - Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
Soybean	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	<ul style="list-style-type: none"> - Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Potato	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		<ul style="list-style-type: none"> - Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		<ul style="list-style-type: none"> - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage).



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



“Integrated Agromet Advisory Services”

			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Off season vegetables under protected cultivation	Transplanted tomato or king chilli		- Plant protection measures against early blight, late blight and tomato fruit borer must be taken up when the crops are 35-40 days old at an interval of 7-10 days interval. - Proper fungicide and insecticides may be procured well in advance before widespread infestation in the crop. - Same measures may be followed for king chilli also. - Surrounding area of the polyhouse should be hygienic and clean to avoid pest and insects.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Management	- Cover the wall with hessian cloth/ polysheet during night time. - Brooding house must be kept warm and avoid wet litter material. - Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @ 1ml/3kgbody weight orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.

Fisheries

* There are moderate rains in forecast hence, encircle pond with happa net to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd October, 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 October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u></p> <p>During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Senapati (23rd to 27th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23rd 26th & 27th Oct but mainly clear on 24th & 25th with maximum temp. of 25.0 - 27.0 °C and minimum temp. of 15.0 – 18.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 83 % (minimum RH) upto Sunday. The average wind speed may be 2-6 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		<ul style="list-style-type: none"> - Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
Soybean	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	<ul style="list-style-type: none"> - Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Potato	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		<ul style="list-style-type: none"> - Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		<ul style="list-style-type: none"> - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage).



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



“Integrated Agromet Advisory Services”

			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Off season vegetables under protected cultivation	Transplanted tomato or king chilli		- Plant protection measures against early blight, late blight and tomato fruit borer must be taken up when the crops are 35-40 days old at an interval of 7-10 days interval. - Proper fungicide and insecticides may be procured well in advance before widespread infestation in the crop. - Same measures may be followed for king chilli also. - Surrounding area of the polyhouse should be hygienic and clean to avoid pest and insects.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Management	- Cover the wall with hessian cloth/ polysheet during night time. - Brooding house must be kept warm and avoid wet litter material. - Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @ 1ml/3kgbody weight orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.

Fisheries

* There are moderate rains in forecast hence, encircle pond with happa net to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd October, 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 October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u>	<u>Weather forecast for next five days of Tamenglong (23rd to 27th October, 2013)</u>
During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.	There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23 rd 26 th & 27 th Oct but mainly clear on 24 th & 25 th with maximum temp. of 29.0 - 31.0 °C and minimum temp. of 19.0 – 21.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 76 % (minimum RH) upto Sunday. The average wind speed may be 2-5 km/hr during next five days.

Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		- Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
Soybean	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Potato	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage).



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



“Integrated Agromet Advisory Services”

			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Off season vegetables under protected cultivation	Transplanted tomato or king chilli		- Plant protection measures against early blight, late blight and tomato fruit borer must be taken up when the crops are 35-40 days old at an interval of 7-10 days interval. - Proper fungicide and insecticides may be procured well in advance before widespread infestation in the crop. - Same measures may be followed for king chilli also. - Surrounding area of the polyhouse should be hygienic and clean to avoid pest and insects.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Management	- Cover the wall with hessian cloth/ polysheet during night time. - Brooding house must be kept warm and avoid wet litter material. - Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @ 1ml/3kgbody weight orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.

Fisheries

* There are moderate rains in forecast hence, encircle pond with happa net to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd October, 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 October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u></p> <p>During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Thoubal (23rd to 27th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23rd 26th & 27th Oct but mainly clear on 24th & 25th with maximum temp. of 28.0 - 30.0 °C and minimum temp. of 17.0 – 19.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 89 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		<ul style="list-style-type: none"> - Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
Soybean	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	<ul style="list-style-type: none"> - Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Potato	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		<ul style="list-style-type: none"> - Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		<ul style="list-style-type: none"> - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage).



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



“Integrated Agromet Advisory Services”

			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Off season vegetables under protected cultivation	Transplanted tomato or king chilli		- Plant protection measures against early blight, late blight and tomato fruit borer must be taken up when the crops are 35-40 days old at an interval of 7-10 days interval. - Proper fungicide and insecticides may be procured well in advance before widespread infestation in the crop. - Same measures may be followed for king chilli also. - Surrounding area of the polyhouse should be hygienic and clean to avoid pest and insects.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Management	- Cover the wall with hessian cloth/ polysheet during night time. - Brooding house must be kept warm and avoid wet litter material. - Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @ 1ml/3kgbody weight orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.

Fisheries

* There are moderate rains in forecast hence, encircle pond with happa net to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd October, 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 October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st October, 2013)</u>	<u>Weather forecast for next five days of Ukhrul (23rd to 27th October, 2013)</u>
<p>During the past four days the sky was to mainly clear to partly cloudy on 18 & 19 Oct and mainly cloudy to cloudy during 20 & 21 Oct. 2.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.4 °C, range of minimum temperature observed was 18.0 – 20.5 °C, mean relative humidity observed in morning and afternoon were 87.25 % and 67.5 % respectively. The average wind speed range was 0.8 – 3.1 km/hr.</p>	<p>There may be light to moderate rains on Wednesday, Saturday & Sunday. The sky may be partly cloudy to mainly cloudy on 23rd 26th & 27th Oct but mainly clear on 24th & 25th with maximum temp. of 23.0 - 26.0 °C and minimum temp. of 13.0 – 15.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 88 % (minimum RH) upto Sunday. The average wind speed may be 2-5 km/hr during next five days.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 25 October, 2013)

Rain/thundershowers would occur at a few places over northeastern states during next 24 hours and decrease thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity to harvesting		<ul style="list-style-type: none"> - Drain out excess water 10 days before harvesting. - Harvesting may be done, if 75-80 % of the spikelet is yellow in colour. - Panicles may be stacked for 5-7 days. Turn the heap of panicles regularly for better threshing. - After proper threshing, grains must be sundried well before storage.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
Soybean	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	<ul style="list-style-type: none"> - Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Potato	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		<ul style="list-style-type: none"> - Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		<ul style="list-style-type: none"> - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage).



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			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Off season vegetables under protected cultivation	Transplanted tomato or king chilli		- Plant protection measures against early blight, late blight and tomato fruit borer must be taken up when the crops are 35-40 days old at an interval of 7-10 days interval. - Proper fungicide and insecticides may be procured well in advance before widespread infestation in the crop. - Same measures may be followed for king chilli also. - Surrounding area of the polyhouse should be hygienic and clean to avoid pest and insects.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Management	- Cover the wall with hessian cloth/ polysheet during night time. - Brooding house must be kept warm and avoid wet litter material. - Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
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