



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)</u></p>	<p><u>Weather forecast for next five days of Imphal - East (2nd to 6th April, 2014)</u></p>
<p>The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.</p>	<p>It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 15.0 - 17.0 °C. Relative Humidity may reach a maximum of 95 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative	Stem borer	<ul style="list-style-type: none"> - Weeding and inter-culture operation may be done. - To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		<ul style="list-style-type: none"> - Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)

The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.

Weather forecast for next five days of Imphal - West (2nd to 6th April, 2014)

It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 15.0 - 17.0 °C. Relative Humidity may reach a maximum of 96 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 5-7 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative		- Weeding and inter-culture operation may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
Fish		8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.	
Feed		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.	
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

(I. Meghachandra Singh)
Scientist i/c, GKMS



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

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)

The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.

Weather forecast for next five days of Senapati (2nd to 6th April, 2014)

It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0 – 29.0 °C & minimum temp. 12.0 - 15.0 °C. Relative Humidity may reach a maximum of 93 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 3-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative		- Weeding and inter-culture operation may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

(I. Meghachandra Singh)
Scientist i/c, GKMS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)

The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.

Weather forecast for next five days of Tamenglong (2nd to 6th April, 2014)

It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 16.0 - 18.0 °C. Relative Humidity may reach a maximum of 95 % (maximum RH) & 32 % (minimum RH). The average wind speed may be 5-7 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative		- Weeding and inter-culture operation may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

(I. Meghachandra Singh)
Scientist i/c, GKMS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)

The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.

Weather forecast for next five days of Thoubal (2nd to 6th April, 2014)

It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 14.0 - 16.0 °C. Relative Humidity may reach a maximum of 93 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 3-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative		- Weeding and inter-culture operation may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)

The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.

Weather forecast for next five days of Ukhrul (2nd to 6th April, 2014)

It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0 – 28.0 °C & minimum temp. 12.0 - 14.0 °C. Relative Humidity may reach a maximum of 92 % (maximum RH) & 34 % (minimum RH). The average wind speed may be 3-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative		- Weeding and inter-culture operation may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

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Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)

The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.

Weather forecast for next five days of Bishnupur (2nd to 6th April, 2014)

It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 14.0 - 16.0 °C. Relative Humidity may reach a maximum of 93 % (maximum RH) & 32 % (minimum RH). The average wind speed may be 4-7 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative		- Weeding and inter-culture operation may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

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Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)

The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.

Weather forecast for next five days of Chandel (2nd to 6th April, 2014)

It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 15.0 - 18.0 °C. Relative Humidity may reach a maximum of 92 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative		- Weeding and inter-culture operation may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

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Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st April, 2014

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 2nd to 6th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 31st March, 2014)

The sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 29th March. No rainfall was recorded during past four days. Maximum temperature range observed was 28.8 – 30.5 °C, range of minimum temperature observed was 15.5 – 17.0 °C, mean relative humidity observed in morning and afternoon were 76.25 % and 47.0 % respectively. The average wind speed range was 5.6 – 9.2 km/hr.

Weather forecast for next five days of Churachandpur (2nd to 6th April, 2014)

It is likely to have light to moderate rains with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 14.0 - 16.0 °C. Relative Humidity may reach a maximum of 94 % (maximum RH) & 31 % (minimum RH). The average wind speed may be 3-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain water. Drainage may be constructed well in and around the crop field.			
Field Crops			
Early kharif rice	Main field preparation to transplanting		<ul style="list-style-type: none"> - At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Vegetative		- Weeding and inter-culture operation may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Bhindi	Land preparation to sowing		Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Sowing may be done at the spacing of 30cm x 45cm.
Tomato	Vegetative	Early blight	<ul style="list-style-type: none"> - Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight. - Interculture operations may done. - Urea @ 50-60 kg /sangam as top dressing just after 30 days of transplanting.
Onion	Flower bud formation	Thrips/ leaf minor	<ul style="list-style-type: none"> - Flower should be removed as soon as it is observed as it will adversely affect bulb formation. - Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Cabbage/ Cauliflower	Head / curd formation stage		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Coccidiosis	- Add 2g of Amprolium powder in 1 litre of drinking water for 5days.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate @5cc sub-cutaneously against Haemorrhagic Septicaemia for Lamb.
		Porcine Reproductive and Respiratory Syndrome (PRRS)	- Vaccinate @ 1 cc sub-cutaneously against Porcine Reproductive and Respiratory Syndrome (PRRS).
		Theileriosis	- Vaccinate Ivermectin @ 3 cc sub-cutaneously against tick (vector).
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	Vaccinate against Black Quarter.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10 body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done. If any change in colour, odour of water half of the water should be drain out and change with fresh water.
Fish		8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.	
Feed		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.	
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

SMS:

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