



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 2013

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the **weather forecasts for the next five days**, i.e., from 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Churachandpur (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 25.0 - 26.0 °C & minimum temp. 6.0 - 11.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 60 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		For pea: <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. <ul style="list-style-type: none"> - Lentils may be sown with minimum tillage or zero tillage.
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Potato	Planting to early vegetative		<ul style="list-style-type: none"> - Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. - Soil must be made to fine tilt and planted in furrows at a spacing of 25cm seed to seed and 45-50 cm row to row. If the soil is dry, give light irrigation prior to planting. - Cover the seed/ tubers with soil to a depth 1-1½ inches.
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.



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



“Integrated Agromet Advisory Services”

Garlic	Planting to early vegetative		- Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cole Crops/ Tomato, etc.	Vegetative		- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		- Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.

* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

Fisheries

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 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 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Imphal - East (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 25.0 - 27.0 °C & minimum temp. 6.0 – 8.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 63 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		For pea: <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. - Lentils may be sown with minimum tillage or zero tillage.
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Potato	Planting to early vegetative		<ul style="list-style-type: none"> - Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. - Soil must be made to fine tilt and planted in furrows at a spacing of 25cm seed to seed and 45-50 cm row to row. If the soil is dry, give light irrigation prior to planting. - Cover the seed/ tubers with soil to a depth 1-1½ inches.
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.



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



“Integrated Agromet Advisory Services”

Garlic	Planting to early vegetative		- Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cabbage/ Cauliflower/ Broccoli	Vegetative		- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
	Nursery		- Watering should be restricted in seedlings which are ready for transplanting if land is not yet prepared or manpower is not available due to coincidence with harvesting of paddy. - If slight yellowing of leaves of mature seedlings is observed then one spray of Carbendazim @ 1g/ lit of water is advised. - As there is light rain in forecast, transplanting may be completed at possible earliest for maximum utilization of the rain water for plant growth. - Also aphid infestation may be high due to high RH during morning and low minimum temp., i.e., below 10°C.
Tomato			- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		- Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.
* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 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 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Imphal - West (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 25.0 - 26.0 °C & minimum temp. 5.0 – 7.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 61 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		For pea: <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. <ul style="list-style-type: none"> - Lentils may be sown with minimum tillage or zero tillage.
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Potato	Planting to early vegetative		<ul style="list-style-type: none"> - Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. - Soil must be made to fine tilt and planted in furrows at a spacing of 25cm seed to seed and 45-50 cm row to row. If the soil is dry, give light irrigation prior to planting. - Cover the seed/ tubers with soil to a depth 1-1½ inches.
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.



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



“Integrated Agromet Advisory Services”

Garlic	Planting to early vegetative		- Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cabbage/ Cauliflower/ Broccoli	Vegetative		- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
	Nursery		- Watering should be restricted in seedlings which are ready for transplanting if land is not yet prepared or manpower is not available due to coincidence with harvesting of paddy. - If slight yellowing of leaves of mature seedlings is observed then one spray of Carbendazim @ 1g/ lit of water is advised. - As there is light rain in forecast, transplanting may be completed at possible earliest for maximum utilization of the rain water for plant growth. - Also aphid infestation may be high due to high RH during morning and low minimum temp., i.e., below 10°C.
Tomato			- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		- Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.
* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 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 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Senapati (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 23.0 - 24.0 °C & minimum temp. 5.0 - 8.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 61 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		For pea: <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. - Lentils may be sown with minimum tillage or zero tillage.
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.
Garlic	Planting to early vegetative		<ul style="list-style-type: none"> - Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cole Crops/ Tomato, etc.	Vegetative		<ul style="list-style-type: none"> - Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		<ul style="list-style-type: none"> - Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.
* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			



**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	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 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 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Tamenglong (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 24.0 - 26.0 °C & minimum temp. 6.0 - 10.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 59 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		<p>For pea:</p> <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. <p>- Lentils may be sown with minimum tillage or zero tillage.</p>
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Potato	Planting to early vegetative		<ul style="list-style-type: none"> - Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. - Soil must be made to fine tilt and planted in furrows at a spacing of 25cm seed to seed and 45-50 cm row to row. If the soil is dry, give light irrigation prior to planting. - Cover the seed/ tubers with soil to a depth 1-1½ inches.
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.



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



“Integrated Agromet Advisory Services”

Garlic	Planting to early vegetative		- Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cabbage/ Cauliflower/ Broccoli	Vegetative		- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
	Nursery		- Watering should be restricted in seedlings which are ready for transplanting if land is not yet prepared or manpower is not available due to coincidence with harvesting of paddy. - If slight yellowing of leaves of mature seedlings is observed then one spray of Carbendazim @ 1g/ lit of water is advised. - As there is light rain in forecast, transplanting may be completed at possible earliest for maximum utilization of the rain water for plant growth. - Also aphid infestation may be high due to high RH during morning and low minimum temp., i.e., below 10°C.
Tomato			- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		- Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.
* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 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 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Thoubal (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 24.0 - 25.0 °C & minimum temp. 10.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 61 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		<p>For pea:</p> <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. <p>- Lentils may be sown with minimum tillage or zero tillage.</p>
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Potato	Planting to early vegetative		<ul style="list-style-type: none"> - Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. - Soil must be made to fine tilt and planted in furrows at a spacing of 25cm seed to seed and 45-50 cm row to row. If the soil is dry, give light irrigation prior to planting. - Cover the seed/ tubers with soil to a depth 1-1½ inches.
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.



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



“Integrated Agromet Advisory Services”

Garlic	Planting to early vegetative		- Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cabbage/ Cauliflower/ Broccoli	Vegetative		- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
	Nursery		- Watering should be restricted in seedlings which are ready for transplanting if land is not yet prepared or manpower is not available due to coincidence with harvesting of paddy. - If slight yellowing of leaves of mature seedlings is observed then one spray of Carbendazim @ 1g/ lit of water is advised. - As there is light rain in forecast, transplanting may be completed at possible earliest for maximum utilization of the rain water for plant growth. - Also aphid infestation may be high due to high RH during morning and low minimum temp., i.e., below 10°C.
Tomato			- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		- Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.
* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 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 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Ukhrul (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 21.0 °C & minimum temp. 8.0 - 10.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 56 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		For pea: <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. <ul style="list-style-type: none"> - Lentils may be sown with minimum tillage or zero tillage.
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.
Garlic	Planting to early vegetative		<ul style="list-style-type: none"> - Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cole Crops/ Tomato, etc.	Vegetative		<ul style="list-style-type: none"> - Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		<ul style="list-style-type: none"> - Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.
* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			



**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	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 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 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Bishnupur (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 24.0 - 26.0 °C & minimum temp. 6.0 – 9.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 60 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		For pea: <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. - Lentils may be sown with minimum tillage or zero tillage.
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Potato	Planting to early vegetative		<ul style="list-style-type: none"> - Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. - Soil must be made to fine tilt and planted in furrows at a spacing of 25cm seed to seed and 45-50 cm row to row. If the soil is dry, give light irrigation prior to planting. - Cover the seed/ tubers with soil to a depth 1-1½ inches.
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.



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



“Integrated Agromet Advisory Services”

Garlic	Planting to early vegetative		- Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cabbage/ Cauliflower/ Broccoli	Vegetative		- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
	Nursery		- Watering should be restricted in seedlings which are ready for transplanting if land is not yet prepared or manpower is not available due to coincidence with harvesting of paddy. - If slight yellowing of leaves of mature seedlings is observed then one spray of Carbendazim @ 1g/ lit of water is advised. - As there is light rain in forecast, transplanting may be completed at possible earliest for maximum utilization of the rain water for plant growth. - Also aphid infestation may be high due to high RH during morning and low minimum temp., i.e., below 10°C.
Tomato			- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		- Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.
* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th November, 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 27th November to 1st December, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (22nd to 25th November, 2013)

During the past four days the sky was clear to partly cloudy but mainly cloudy during morning of 22nd & afternoon of 24th Nov. Also morning hours were foggy on 25th Nov. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.6 – 27.4 °C, range of minimum temperature observed was 7.2 – 8.9 °C, mean relative humidity observed in morning and afternoon were 84.75 % and 51.25 % respectively. The average wind speed range was 1.1 – 1.9 km/hr.

Weather forecast for next five days of Chandel (27th November to 1st December, 2013)

There may be light rain on Friday & Saturday. Sky may be clear to partly cloudy on 27th Nov & 1st Dec and mainly cloudy during 28th to 30th Nov with maximum temp. of 23.0 - 24.0 °C & minimum temp. 12.0 - 13.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 57 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Post-harvest		<ul style="list-style-type: none"> - Threshing and drying of grains may be completed before rains which is may occur from Friday. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Pulses	Sowing to early vegetative		<p>For pea:</p> <ul style="list-style-type: none"> - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water followed by Rhizobium culture @ 20g/kg of seeds before sowing. <p>- Lentils may be sown with minimum tillage or zero tillage.</p>
Rabi Maize	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing rabi maize may be started.
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. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Potato	Planting to early vegetative		<ul style="list-style-type: none"> - Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. - Soil must be made to fine tilt and planted in furrows at a spacing of 25cm seed to seed and 45-50 cm row to row. If the soil is dry, give light irrigation prior to planting. - Cover the seed/ tubers with soil to a depth 1-1½ inches.
Onion	Early vegetative		<ul style="list-style-type: none"> - Give light watering during morning and evening hours for 7-10 days after transplanting. - Thinning of nursery may be followed if there is shortage of land and manpower for transplanting.



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



“Integrated Agromet Advisory Services”

Garlic	Planting to early vegetative		- Garlic bulblets may be planted in prepared beds. - Give light irrigation during morning and evening hours is advised.
Cabbage/ Cauliflower/ Broccoli	Vegetative		- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
	Nursery		- Watering should be restricted in seedlings which are ready for transplanting if land is not yet prepared or manpower is not available due to coincidence with harvesting of paddy. - If slight yellowing of leaves of mature seedlings is observed then one spray of Carbendazim @ 1g/ lit of water is advised. - As there is light rain in forecast, transplanting may be completed at possible earliest for maximum utilization of the rain water for plant growth. - Also aphid infestation may be high due to high RH during morning and low minimum temp., i.e., below 10°C.
Tomato			- Light watering to the crops during morning hours may be done. - Weeding must be done to avoid incidence of insects.
Garden pea	Vegetative		- Avoid plucking off of young shoots. - Give light irrigation just to keep soil moist.
* Apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g 25 lit of water) of poultry above 3 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Piperazine liquid @10-15 ml orally followed by half dose on second day.
Cattle / Buffalo/ Mithun	Above 3 months of age	FMD	- Vaccinate against FMD.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- Maintained water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly to maintain good quality pond water.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

I. Meghachandra Singh
Scientist i/c,
Gramin Krishi Mausam Seva
(GKMS)