



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd July, 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 24th to 28th July, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd July, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 29.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 32.2 – 35.2 °C, range of minimum temperature observed was 22.2 – 23.4 °C, mean relative humidity observed in morning and afternoon were 91.75 % and 71.0 % respectively. The average wind speed range was 1.4 – 2.4 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Churachandpur (24th to 28th July, 2013)</u></p> <p>It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 88 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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Main Weather Observation: Kalpana 1Cloud Imagery at 1730 hrs IST shows convective clouds over northeast.

Weather Forecast for next 3 days (upto 0830 hours IST of 26th July, 2013): Rain/thundershowers would occur at many places over northeast.

Weather Outlook for subsequent 4 days from 26th to 30th July, 2013: Rainfall would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre-kharif Post harvest		- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles may be done. It must be well threshed, cleaned and sundried before storage.
	Kharif Land preparation to transplanting and early vegetative		- Uproot 25 days old seedlings. Transplant 2-3 seedlings per hill at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting. - Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm.
Soybean	Vegetative		- Inter-culture operations may be carried out. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Groundnut	Vegetative		- Second hand weeding and earthing up may be done at 35 days. Avoid earthing up after 40 days of sowing in groundnut. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Blackgram/ Rice bean	Sowing to vegetative		- Sowing may be continued in new areas (upland) where there is no problem of water logging. - Inter-culture operations may be carried out.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Cauliflower	Transplanting to early vegetative	Plutella Diamond black moth	- Transplant healthy seedlings at a spacing of 45cm x 45cm. - Check for infestation of Plutella Diamond black moth in young plants.
Banana	New Plantation		- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
	Old Plantation		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required. - Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.



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Turmeric	Vegetative	Leaf Spot and leaf blotch	- Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval.
Cucurbits	Fruiting to harvesting		- Provide/ repair the staking/ support system. Also provide bedding material to the fruits to avoid contact with soil.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Pig	Above 3 months of age	Ecto-parasite	- Apply Butox @ 3ml/lit of water while brushing the animals.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt. once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Give Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
			- Deworm with Piperazine Hexahydrate- @ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and @ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material are dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.

I. Meghachandra Singh
Scientist i/c, IAAS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd July, 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 24th to 28th July, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd July, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 29.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 32.2 – 35.2 °C, range of minimum temperature observed was 22.2 – 23.4 °C, mean relative humidity observed in morning and afternoon were 91.75 % and 71.0 % respectively. The average wind speed range was 1.4 – 2.4 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - East (24th to 28th July, 2013)</u></p> <p>It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 30.0 - 32.0 °C and minimum temp. of 21.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 90 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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Main Weather Observation: Kalpana 1Cloud Imagery at 1730 hrs IST shows convective clouds over northeast.

Weather Forecast for next 3 days (upto 0830 hours IST of 26th July, 2013): Rain/thundershowers would occur at many places over northeast.

Weather Outlook for subsequent 4 days from 26th to 30th July, 2013: Rainfall would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre-kharif Post harvest		- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles may be done. It must be well threshed, cleaned and sundried before storage.
	Kharif Land preparation to transplanting and early vegetative		- Uproot 25 days old seedlings. Transplant 2-3 seedlings per hill at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting. - Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm.
Soybean	Vegetative		- Inter-culture operations may be carried out. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Groundnut	Vegetative		- Second hand weeding and earthing up may be done at 35 days. Avoid earthing up after 40 days of sowing in groundnut. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Blackgram/ Rice bean	Sowing to vegetative		- Sowing may be continued in new areas (upland) where there is no problem of water logging. - Inter-culture operations may be carried out.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Cauliflower	Transplanting to early vegetative	Plutella Diamond black moth	- Transplant healthy seedlings at a spacing of 45cm x 45cm. - Check for infestation of Plutella Diamond black moth in young plants.
Banana	New Plantation		- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
	Old Plantation		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required. - Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.



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Turmeric	Vegetative	Leaf Spot and leaf blotch	- Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval.
Cucurbits	Fruiting to harvesting		- Provide/ repair the staking/ support system. Also provide bedding material to the fruits to avoid contact with soil.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Pig	Above 3 months of age	Ecto-parasite	- Apply Butox @ 3ml/lit of water while brushing the animals.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt. once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Give Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
			- Deworm with Piperazine Hexahydrate- @ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and @ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material are dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

23rd July, 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 24th to 28th July, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd July, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 29.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 32.2 – 35.2 °C, range of minimum temperature observed was 22.2 – 23.4 °C, mean relative humidity observed in morning and afternoon were 91.75 % and 71.0 % respectively. The average wind speed range was 1.4 – 2.4 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - West (24th to 28th July, 2013)</u></p> <p>It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 81 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.</p>
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Main Weather Observation: Kalpana 1Cloud Imagery at 1730 hrs IST shows convective clouds over northeast.

Weather Forecast for next 3 days (upto 0830 hours IST of 26th July, 2013): Rain/thundershowers would occur at many places over northeast.

Weather Outlook for subsequent 4 days from 26th to 30th July, 2013: Rainfall would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre-kharif Post harvest		- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles may be done. It must be well threshed, cleaned and sundried before storage.
	Kharif Land preparation to transplanting and early vegetative		- Uproot 25 days old seedlings. Transplant 2-3 seedlings per hill at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting. - Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm.
Soybean	Vegetative		- Inter-culture operations may be carried out. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Groundnut	Vegetative		- Second hand weeding and earthing up may be done at 35 days. Avoid earthing up after 40 days of sowing in groundnut. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Blackgram/ Rice bean	Sowing to vegetative		- Sowing may be continued in new areas (upland) where there is no problem of water logging. - Inter-culture operations may be carried out.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Cauliflower	Transplanting to early vegetative	Plutella Diamond black moth	- Transplant healthy seedlings at a spacing of 45cm x 45cm. - Check for infestation of Plutella Diamond black moth in young plants.
Banana	New Plantation		- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
	Old Plantation		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required. - Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.



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Turmeric	Vegetative	Leaf Spot and leaf blotch	- Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval.
Cucurbits	Fruiting to harvesting		- Provide/ repair the staking/ support system. Also provide bedding material to the fruits to avoid contact with soil.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Pig	Above 3 months of age	Ecto-parasite	- Apply Butox @ 3ml/lit of water while brushing the animals.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt. once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Give Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
			- Deworm with Piperazine Hexahydrate- @ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and @ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material are dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.

I. Meghachandra Singh
Scientist i/c, IAAS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd July, 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 24th to 28th July, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd July, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 29.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 32.2 – 35.2 °C, range of minimum temperature observed was 22.2 – 23.4 °C, mean relative humidity observed in morning and afternoon were 91.75 % and 71.0 % respectively. The average wind speed range was 1.4 – 2.4 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Bishnupur (24th to 28th July, 2013)</u></p> <p>It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
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Main Weather Observation: Kalpana 1Cloud Imagery at 1730 hrs IST shows convective clouds over northeast.

Weather Forecast for next 3 days (upto 0830 hours IST of 26th July, 2013): Rain/thundershowers would occur at many places over northeast.

Weather Outlook for subsequent 4 days from 26th to 30th July, 2013: Rainfall would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre-kharif Post harvest		- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles may be done. It must be well threshed, cleaned and sundried before storage.
	Kharif Land preparation to transplanting and early vegetative		- Uproot 25 days old seedlings. Transplant 2-3 seedlings per hill at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting. - Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm.
Soybean	Vegetative		- Inter-culture operations may be carried out. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Groundnut	Vegetative		- Second hand weeding and earthing up may be done at 35 days. Avoid earthing up after 40 days of sowing in groundnut. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Blackgram/ Rice bean	Sowing to vegetative		- Sowing may be continued in new areas (upland) where there is no problem of water logging. - Inter-culture operations may be carried out.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Cauliflower	Transplanting to early vegetative	Plutella Diamond black moth	- Transplant healthy seedlings at a spacing of 45cm x 45cm. - Check for infestation of Plutella Diamond black moth in young plants.
Banana	New Plantation		- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
	Old Plantation		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required. - Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.



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Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
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MANIPUR BULLETIN

23rd July, 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 24th to 28th July, 2013 as given below:

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Rice	Pre-kharif Post harvest		- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles may be done. It must be well threshed, cleaned and sundried before storage.
	Kharif Land preparation to transplanting and early vegetative		- Uproot 25 days old seedlings. Transplant 2-3 seedlings per hill at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting. - Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm.
Soybean	Vegetative		- Inter-culture operations may be carried out. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Groundnut	Vegetative		- Second hand weeding and earthing up may be done at 35 days. Avoid earthing up after 40 days of sowing in groundnut. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water)
Blackgram/ Rice bean	Sowing to vegetative		- Sowing may be continued in new areas (upland) where there is no problem of water logging. - Inter-culture operations may be carried out.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Cauliflower	Transplanting to early vegetative	Plutella Diamond black moth	- Transplant healthy seedlings at a spacing of 45cm x 45cm. - Check for infestation of Plutella Diamond black moth in young plants.
Banana	New Plantation		- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
	Old Plantation		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required. - Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

Turmeric	Vegetative	Leaf Spot and leaf blotch	- Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval.
Cucurbits	Fruiting to harvesting		- Provide/ repair the staking/ support system. Also provide bedding material to the fruits to avoid contact with soil.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Pig	Above 3 months of age	Ecto-parasite	- Apply Butox @ 3ml/lit of water while brushing the animals.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt. once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Give Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
			- Deworm with Piperazine Hexahydrate- @ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and @ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material are dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.

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