

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 4th June, 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 5th to 9th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 3rd June, 2013)

During the past four days, on $31^{\rm st}$ May the sky was mainly cloudy to cloudy but from $1^{\rm st}$ June onwards it was mainly clear to partly cloudy. **5.4** mm rainfall was recorded during past four days. Maximum temperature range observed was 28.7-31.8 °C, range of minimum temperature observed was 20.5-22.6 °C, mean relative humidity observed in morning and afternoon were 84.0 and 64.5 % respectively. The average wind speed range was 2.3-4.3 km/hr.

Weather forecast for next five days of Bishnupur (5th to 9th June, 2013)

It is likely to have light rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 27.0 - 31.0 °C and minimum temp. of 19.0 - 22.0 °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 84 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 7^{th} June, 2013)

Rain/thundershowers would occur at few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Flowering to grain filling		 Maintain water depth of 5-8 cm. After top dressing, one or two prophylactic spray(s) in sunny days is advised. Roughing is recommended to remove off-types before they mature.
	(Kharif) Nursery		- Select good quality seeds free from pathogens, insects, or other matters for good yield. 60 kg seeds may be used to sow in 700 m ² nursery area to transplant seedlings for one hectare. Soak then incubate and sow sprouted seeds. - Land may be ploughed and puddle thoroughly for transplanting.
Maize	Vegetative to flowering (Summer maize)		- Weeding may be done.
	Cob maturity to harvesting (Rabi maize)		Harvest crops for cobs. For seeds, harvest if the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Groundnut	Sowing and early vegetative		- Seed rate for 1 ha: 100-110 Kernels, spacing- 30cm x 10-15cm and at a depth of 6-7 cm in furrows. Treat the groundnut seeds with rhizobium @ 150g / 10 kg seeds just before sowing. Surrounding area must be kept clean.
Soybean	Sowing and early vegetative		- Seed rate for 1 ha: 50 kg. Spacing for sowing- 50cm x 30cm. Drain out excess water from crop field. Surrounding area must be kept weed free.
Blackgram	Sowing		- Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Cro	ops		
Colocasia	Vegetative		At present, earthing up may be done at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Cauliflower	Nursery		- Preparation for early cauliflower in the upland area may be done.
Cowpea	Sowing		Seeds may be sown in prepared land keeping space of 10-15cm between seeds and 45-60 cm between rows. For present season varieties recommended are-Pusa Barsati, Pusa Do- fasli & Long green.
Tapioca	Planting		It may be planted in the boundary of fields of turmeric to avoid cattle grazing.
Fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Preparation of pit for planting		- Prepare the pit of size 2x2x2 ft for planting of these fruit plants. Use FYM and before planting, soil drenching should be done to protect from soil borne diseases. Use healthy planting material.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever	 Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. Vaccinate all the susceptible animals against the FMD.
			- Vitamin supplement should be administered like Feroliv @ 20ml twice daily.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- FMD - Fascioliosis	 Vaccinate all the susceptible animals against the FMD. Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. Apply Butox @3ml/lit of water while brushing the animals. Mineral mixture along with Calcium preparation like Osteovet for milch animals should be administered.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ <i>1g/lit of drinking water</i>) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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MANIPUR BULLETIN 4th June, 2013

Chandel

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Weather forecast for next five days of Chandel (5th to 9th June, 2013)

It is likely to have light rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 29.0 - 33.0 °C and minimum temp. of 20.0 - 24.0 °C. The maximum RH is likely to attain a max value of 97 % and minimum RH of 82 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 7th June, 2013)

Rain/thundershowers would occur at few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	(Pre-kharif) Flowering to grain filling (Kharif)		 - Maintain water depth of 5-8 cm. - After top dressing, one or two prophylactic spray(s) in sunny days is advised. - Roughing is recommended to remove off-types before they mature. - Select good quality seeds free from pathogens, insects, or other matters for
	Nursery		good yield. 60 kg seeds may be used to sow in 700 m ² nursery area to transplant seedlings for one hectare. Soak then incubate and sow sprouted seeds. - Land may be ploughed and puddle thoroughly for transplanting.
Maize	Vegetative to flowering (Summer maize)		- Weeding may be done.
	Cob maturity to harvesting (Rabi maize)		Harvest crops for cobs. For seeds, harvest if the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Groundnut	Sowing and early vegetative		- Seed rate for 1 ha: 100-110 Kernels, spacing- 30cm x 10-15cm and at a depth of 6-7 cm in furrows. Treat the groundnut seeds with rhizobium @ 150g / 10 kg seeds just before sowing. Surrounding area must be kept clean.
Soybean	Sowing and early vegetative		- Seed rate for 1 ha: 50 kg. Spacing for sowing- 50cm x 30cm. Drain out excess water from crop field. Surrounding area must be kept weed free.
Blackgram	Sowing		- Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Cr	ops		
Colocasia	Vegetative		At present, earthing up may be done at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Cauliflower	Nursery		- Preparation for early cauliflower in the upland area may be done.
Cowpea	Sowing		Seeds may be sown in prepared land keeping space of 10-15cm between seeds and 45-60 cm between rows. For present season varieties recommended are-Pusa Barsati, Pusa Do- fasli & Long green.
Tapioca	Planting		It may be planted in the boundary of fields of turmeric to avoid cattle grazing.
Fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Preparation of pit for planting		- Prepare the pit of size 2x2x2 ft for planting of these fruit plants. Use FYM and before planting, soil drenching should be done to protect from soil borne diseases. Use healthy planting material.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever	 Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. Vaccinate all the susceptible animals against the FMD.
			- Vitamin supplement should be administered like Feroliv @ 20ml twice daily.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- FMD - Fascioliosis	 Vaccinate all the susceptible animals against the FMD. Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. Apply Butox @3ml/lit of water while brushing the animals. Mineral mixture along with Calcium preparation like Osteovet for milch animals should be administered.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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MANIPUR BULLETIN 4th June, 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 5th to 9th June, 2013 as given below:

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Weather forecast for next five days of Churachandpur (5th to 9th June, 2013)

It is likely to have light rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 29.0 - 33.0 °C and minimum temp. of 20.0 - 22.0 °C. The maximum RH is likely to attain a max value of 100 % and minimum RH of 83 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 7th June, 2013)

Rain/thundershowers would occur at few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	(Pre-kharif)		- Maintain water depth of 5-8 cm.
	Flowering to grain filling		- After top dressing, one or two prophylactic spray(s) in sunny days is advised.
			- Roughing is recommended to remove off-types before they mature.
	(Kharif) Nursery		 Select good quality seeds free from pathogens, insects, or other matters for good yield. 60 kg seeds may be used to sow in 700 m² nursery area to transplant seedlings for one hectare. Soak then incubate and sow sprouted seeds. Land may be ploughed and puddle thoroughly for transplanting.
Maize	Vegetative to flowering (Summer maize)		- Weeding may be done.
	Cob maturity to harvesting (Rabi maize)		Harvest crops for cobs. For seeds, harvest if the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Groundnut	Sowing and early vegetative		- Seed rate for 1 ha: 100-110 Kernels, spacing- 30cm x 10-15cm and at a depth of 6-7 cm in furrows. Treat the groundnut seeds with rhizobium @ 150g / 10 kg seeds just before sowing. Surrounding area must be kept clean.
Soybean	Sowing and early vegetative		- Seed rate for 1 ha: 50 kg. Spacing for sowing- 50cm x 30cm. Drain out excess water from crop field. Surrounding area must be kept weed free.
Blackgram	Sowing		- Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Cr	ops		
Colocasia	Vegetative		At present, earthing up may be done at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Cauliflower	Nursery		- Preparation for early cauliflower in the upland area may be done.
Cowpea	Sowing		Seeds may be sown in prepared land keeping space of 10-15cm between seeds and 45-60 cm between rows. For present season varieties recommended are-Pusa Barsati, Pusa Do- fasli & Long green.
Tapioca	Planting		It may be planted in the boundary of fields of turmeric to avoid cattle grazing.
Fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Preparation of pit for planting		- Prepare the pit of size 2x2x2 ft for planting of these fruit plants. Use FYM and before planting, soil drenching should be done to protect from soil borne diseases. Use healthy planting material.
Animal Scienc	es		•
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever	 - Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD.
			- Vitamin supplement should be administered like Feroliv @ 20ml twice daily.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- FMD - Fascioliosis	 Vaccinate all the susceptible animals against the FMD. Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. Apply Butox @3ml/lit of water while brushing the animals. Mineral mixture along with Calcium preparation like Osteovet for milch animals should be administered.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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MANIPUR BULLETIN 4th June, 2013

Imphal-West

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Weather forecast for next five days of Imphal - West (5th to 9th June, 2013)

It is likely to have light 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 19.0 – 23.0 °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 82 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.

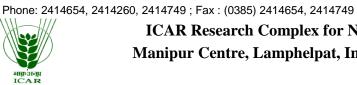
Weather Forecast for next 3 days (upto 0830 hours IST of 7th June, 2013)

Rain/thundershowers would occur at few places over northeastern states

Weather Outlook for subsequent 4 days from 6th to 11th June, 2013

Rain/thundershowers 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) Flowering to grain filling		 - Maintain water depth of 5-8 cm. - After top dressing, one or two prophylactic spray(s) in sunny days is advised. - Roughing is recommended to remove off-types before they mature.
	(Kharif) Nursery		 Select good quality seeds free from pathogens, insects, or other matters for good yield. 60 kg seeds may be used to sow in 700 m² nursery area to transplant seedlings for one hectare. Soak then incubate and sow sprouted seeds. Land may be ploughed and puddle thoroughly for transplanting.
Maize	Vegetative to flowering (Summer maize)		- Weeding may be done.
	Cob maturity to harvesting (Rabi maize)		Harvest crops for cobs. For seeds, harvest if the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Groundnut	Sowing and early vegetative		- Seed rate for 1 ha: 100-110 Kernels, spacing- 30cm x 10-15cm and at a depth of 6-7 cm in furrows. Treat the groundnut seeds with rhizobium @ 150g / 10 kg seeds just before sowing. Surrounding area must be kept clean.
Soybean	Sowing and early vegetative		- Seed rate for 1 ha: 50 kg. Spacing for sowing- 50cm x 30cm. Drain out excess water from crop field. Surrounding area must be kept weed free.
Blackgram	Sowing		- Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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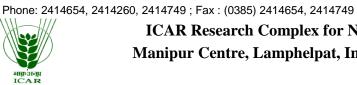
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



Horticulture Cro	ops		
Colocasia	Vegetative		At present, earthing up may be done at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Cauliflower	Nursery		- Preparation for early cauliflower in the upland area may be done.
Cowpea	Sowing		Seeds may be sown in prepared land keeping space of 10-15cm between seeds and 45-60 cm between rows. For present season varieties recommended are-Pusa Barsati, Pusa Do- fasli & Long green.
Tapioca	Planting		It may be planted in the boundary of fields of turmeric to avoid cattle grazing.
Fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Preparation of pit for planting		- Prepare the pit of size 2x2x2 ft for planting of these fruit plants. Use FYM and before planting, soil drenching should be done to protect from soil borne diseases. Use healthy planting material.
Animal Scienc	es	•	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever	 Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. Vaccinate all the susceptible animals against the FMD.
			- Vitamin supplement should be administered like Feroliv @ 20ml twice daily.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- FMD - Fascioliosis	 Vaccinate all the susceptible animals against the FMD. Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. Apply Butox @3ml/lit of water while brushing the animals. Mineral mixture along with Calcium preparation like Osteovet for milch animals should be administered.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 4th June, 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 5th to 9th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 3rd June, 2013)

During the past four days, on $31^{\rm st}$ May the sky was mainly cloudy to cloudy but from $1^{\rm st}$ June onwards it was mainly clear to partly cloudy. **5.4** mm rainfall was recorded during past four days. Maximum temperature range observed was 28.7-31.8 °C, range of minimum temperature observed was 20.5-22.6 °C, mean relative humidity observed in morning and afternoon were 84.0 and 64.5 % respectively. The average wind speed range was 2.3-4.3 km/hr.

Weather forecast for next five days of Senapati (5th to 9th June, 2013)

It is likely to have light rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 27.0 - 31.0 °C and minimum temp. of 18.0 - 21.0 °C. The maximum RH is likely to attain a max value of 98 % and minimum RH of 82 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 7^{th} June, 2013)

Rain/thundershowers would occur at few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	(Pre-kharif)		- Maintain water depth of 5-8 cm.
	Flowering to		- After top dressing, one or two prophylactic spray(s) in sunny days is
	grain filling		advised.
			- Roughing is recommended to remove off-types before they mature.
	(Kharif)		- Select good quality seeds free from pathogens, insects, or other matters for
	Nursery		good yield. 60 kg seeds may be used to sow in 700 m ² nursery area to transplant
			seedlings for one hectare. Soak then incubate and sow sprouted seeds.
			- Land may be ploughed and puddle thoroughly for transplanting.
Maize	Vegetative to		
	flowering (Summer maize)		- Weeding may be done.
	Cob maturity to		Harvest crops for cobs. For seeds, harvest if the colour of silk turns black
	harvesting (Rabi		and it must be dried to 13-14% moisture content for storage. Store the seeds
	maize)		along with 2-3 layers of sheaths.
Groundnut	Sowing and early		- Seed rate for 1 ha: 100-110 Kernels, spacing- 30cm x 10-15cm and at a depth
	vegetative		of 6-7 cm in furrows. Treat the groundnut seeds with rhizobium @ 150g / 10 kg
			seeds just before sowing. Surrounding area must be kept clean.
Soybean	Sowing and early		- Seed rate for 1 ha: 50 kg. Spacing for sowing- 50cm x 30cm. Drain out
	vegetative		excess water from crop field. Surrounding area must be kept weed free.
Blackgram	Sowing		- Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or
-			dibbling. Treat the seed with Thiram or Captan.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
-			germination of seeds or fungal growth.



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Horticulture Cro	ops		
Colocasia	Vegetative		At present, earthing up may be done at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Cauliflower	Nursery		- Preparation for early cauliflower in the upland area may be done.
Cowpea	Sowing		Seeds may be sown in prepared land keeping space of 10-15cm between seeds and 45-60 cm between rows. For present season varieties recommended are-Pusa Barsati, Pusa Do- fasli & Long green.
Tapioca	Planting		It may be planted in the boundary of fields of turmeric to avoid cattle grazing.
Fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Preparation of pit for planting		- Prepare the pit of size 2x2x2 ft for planting of these fruit plants. Use FYM and before planting, soil drenching should be done to protect from soil borne diseases. Use healthy planting material.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever	 Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. Vaccinate all the susceptible animals against the FMD. Vitamin supplement should be administered like Feroliv @ 20ml twice daily.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- FMD - Fascioliosis	 Vaccinate all the susceptible animals against the FMD. Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. Apply Butox @3ml/lit of water while brushing the animals. Mineral mixture along with Calcium preparation like Osteovet for milch animals should be administered.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 4th June, 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 5th to 9th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 3rd June, 2013)

During the past four days, on $31^{\rm st}$ May the sky was mainly cloudy to cloudy but from $1^{\rm st}$ June onwards it was mainly clear to partly cloudy. **5.4** mm rainfall was recorded during past four days. Maximum temperature range observed was 28.7 - 31.8 °C, range of minimum temperature observed was 20.5 - 22.6 °C, mean relative humidity observed in morning and afternoon were 84.0 and 64.5 % respectively. The average wind speed range was 2.3 - 4.3 km/hr.

Weather forecast for next five days of Tamenglong (5th to 9th June, 2013)

It is likely to have light rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 30.0 - 33.0 °C and minimum temp. of 20.0 - 23.0 °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 78 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 7th June, 2013)

Rain/thundershowers would occur at few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	(Pre-kharif)		- Maintain water depth of 5-8 cm.
	Flowering to grain filling		- After top dressing, one or two prophylactic spray(s) in sunny days is advised.
			- Roughing is recommended to remove off-types before they mature.
	(Kharif) Nursery		 Select good quality seeds free from pathogens, insects, or other matters for good yield. 60 kg seeds may be used to sow in 700 m² nursery area to transplant seedlings for one hectare. Soak then incubate and sow sprouted seeds. Land may be ploughed and puddle thoroughly for transplanting.
Maize	Vegetative to flowering (Summer maize)		- Weeding may be done.
	Cob maturity to harvesting (Rabi maize)		Harvest crops for cobs. For seeds, harvest if the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Groundnut	Sowing and early vegetative		- Seed rate for 1 ha: 100-110 Kernels, spacing- 30cm x 10-15cm and at a depth of 6-7 cm in furrows. Treat the groundnut seeds with rhizobium @ 150g / 10 kg seeds just before sowing. Surrounding area must be kept clean.
Soybean	Sowing and early vegetative		- Seed rate for 1 ha: 50 kg. Spacing for sowing- 50cm x 30cm. Drain out excess water from crop field. Surrounding area must be kept weed free.
Blackgram	Sowing		- Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Cro	ops		
Colocasia	Vegetative		At present, earthing up may be done at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Cauliflower	Nursery		- Preparation for early cauliflower in the upland area may be done.
Cowpea	Sowing		Seeds may be sown in prepared land keeping space of 10-15cm between seeds and 45-60 cm between rows. For present season varieties recommended are-Pusa Barsati, Pusa Do- fasli & Long green.
Tapioca	Planting		It may be planted in the boundary of fields of turmeric to avoid cattle grazing.
Fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Preparation of pit for planting		- Prepare the pit of size 2x2x2 ft for planting of these fruit plants. Use FYM and before planting, soil drenching should be done to protect from soil borne diseases. Use healthy planting material.
Animal Scienc	es	•	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. - Vaccinate all the susceptible animals against the FMD.
Goat	All age groups except three months or below	- Fascioliosis	- Vitamin supplement should be administered like Feroliv @ 20ml twice daily. - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- FMD - Fascioliosis	 Vaccinate all the susceptible animals against the FMD. Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. Apply Butox @3ml/lit of water while brushing the animals. Mineral mixture along with Calcium preparation like Osteovet for milch animals should be administered.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 4th June, 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 5th to 9th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 3rd June, 2013)

During the past four days, on $31^{\rm st}$ May the sky was mainly cloudy to cloudy but from $1^{\rm st}$ June onwards it was mainly clear to partly cloudy. **5.4** mm rainfall was recorded during past four days. Maximum temperature range observed was 28.7-31.8 °C, range of minimum temperature observed was 20.5-22.6 °C, mean relative humidity observed in morning and afternoon were 84.0 and 64.5 % respectively. The average wind speed range was 2.3-4.3 km/hr.

Weather forecast for next five days of Thoubal (5th to 9th June, 2013)

It is likely to have light rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 26.0 - 30.0 °C and minimum temp. of 18.0 - 20.0 °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 87 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 7^{th} June, 2013)

Rain/thundershowers would occur at few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	(Pre-kharif) Flowering to grain filling		 Maintain water depth of 5-8 cm. After top dressing, one or two prophylactic spray(s) in sunny days is advised. Roughing is recommended to remove off-types before they mature.
	(Kharif) Nursery		- Select good quality seeds free from pathogens, insects, or other matters for good yield. 60 kg seeds may be used to sow in 700 m ² nursery area to transplant seedlings for one hectare. Soak then incubate and sow sprouted seeds. - Land may be ploughed and puddle thoroughly for transplanting.
Maize	Vegetative to flowering (Summer maize)		- Weeding may be done.
	Cob maturity to harvesting (Rabi maize)		Harvest crops for cobs. For seeds, harvest if the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Groundnut	Sowing and early vegetative		- Seed rate for 1 ha: 100-110 Kernels, spacing- 30cm x 10-15cm and at a depth of 6-7 cm in furrows. Treat the groundnut seeds with rhizobium @ 150g / 10 kg seeds just before sowing. Surrounding area must be kept clean.
Soybean	Sowing and early vegetative		- Seed rate for 1 ha: 50 kg. Spacing for sowing- 50cm x 30cm. Drain out excess water from crop field. Surrounding area must be kept weed free.
Blackgram	Sowing		- Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



Horticulture Cro	ops		
Colocasia	Vegetative		At present, earthing up may be done at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Cauliflower	Nursery		- Preparation for early cauliflower in the upland area may be done.
Cowpea	Sowing		Seeds may be sown in prepared land keeping space of 10-15cm between seeds and 45-60 cm between rows. For present season varieties recommended are-Pusa Barsati, Pusa Do- fasli & Long green.
Tapioca	Planting		It may be planted in the boundary of fields of turmeric to avoid cattle grazing.
Fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Preparation of pit for planting		- Prepare the pit of size 2x2x2 ft for planting of these fruit plants. Use FYM and before planting, soil drenching should be done to protect from soil borne diseases. Use healthy planting material.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever	 Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. Vaccinate all the susceptible animals against the FMD. Vitamin supplement should be administered like Feroliv @ 20ml twice daily.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- FMD - Fascioliosis	 Vaccinate all the susceptible animals against the FMD. Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. Apply Butox @3ml/lit of water while brushing the animals. Mineral mixture along with Calcium preparation like Osteovet for milch animals should be administered.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ <i>1g/lit of drinking water</i>) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 4th June, 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 5th to 9th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 3rd June, 2013)

During the past four days, on $31^{\rm st}$ May the sky was mainly cloudy to cloudy but from $1^{\rm st}$ June onwards it was mainly clear to partly cloudy. **5.4** mm rainfall was recorded during past four days. Maximum temperature range observed was 28.7-31.8 °C, range of minimum temperature observed was 20.5-22.6 °C, mean relative humidity observed in morning and afternoon were 84.0 and 64.5 % respectively. The average wind speed range was 2.3-4.3 km/hr.

Weather forecast for next five days of Ukhrul (5th to 9th June, 2013)

It is likely to have light rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 26.0 - 30.0 °C and minimum temp. of 16.0 - 20.0 °C. The maximum RH is likely to attain a max value of 97 % and minimum RH of 77 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 7^{th} June, 2013)

Rain/thundershowers would occur at few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	(Pre-kharif)		- Maintain water depth of 5-8 cm.
	Flowering to		- After top dressing, one or two prophylactic spray(s) in sunny days is
	grain filling		advised.
			- Roughing is recommended to remove off-types before they mature.
	(Kharif)		- Select good quality seeds free from pathogens, insects, or other matters for
	Nursery		good yield. 60 kg seeds may be used to sow in 700 m ² nursery area to transplant
			seedlings for one hectare. Soak then incubate and sow sprouted seeds.
			- Land may be ploughed and puddle thoroughly for transplanting.
Maize	Vegetative to		
	flowering (Summer maize)		- Weeding may be done.
	Cob maturity to		Harvest crops for cobs. For seeds, harvest if the colour of silk turns black
	harvesting (Rabi		and it must be dried to 13-14% moisture content for storage. Store the seeds
	maize)		along with 2-3 layers of sheaths.
Groundnut	Sowing and early		- Seed rate for 1 ha: 100-110 Kernels, spacing- 30cm x 10-15cm and at a depth
	vegetative		of 6-7 cm in furrows. Treat the groundnut seeds with rhizobium @ 150g / 10 kg
			seeds just before sowing. Surrounding area must be kept clean.
Soybean	Sowing and early		- Seed rate for 1 ha: 50 kg. Spacing for sowing- 50cm x 30cm. Drain out
·	vegetative		excess water from crop field. Surrounding area must be kept weed free.
Blackgram	Sowing		- Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or
			dibbling. Treat the seed with Thiram or Captan.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
_			germination of seeds or fungal growth.



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Horticulture Cr	ops		
Colocasia	Vegetative		At present, earthing up may be done at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Cauliflower	Nursery		- Preparation for early cauliflower in the upland area may be done.
Cowpea	Sowing		Seeds may be sown in prepared land keeping space of 10-15cm between seeds and 45-60 cm between rows. For present season varieties recommended are-Pusa Barsati, Pusa Do- fasli & Long green.
Tapioca	Planting		It may be planted in the boundary of fields of turmeric to avoid cattle grazing.
Fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Preparation of pit for planting		- Prepare the pit of size 2x2x2 ft for planting of these fruit plants. Use FYM and before planting, soil drenching should be done to protect from soil borne diseases. Use healthy planting material.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever	 Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine. Vaccinate all the susceptible animals against the FMD.
			- Vitamin supplement should be administered like Feroliv @ 20ml twice daily.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- FMD - Fascioliosis	 Vaccinate all the susceptible animals against the FMD. Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily. Apply Butox @3ml/lit of water while brushing the animals. Mineral mixture along with Calcium preparation like Osteovet for milch animals should be administered.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ <i>1g/lit of drinking water</i>) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.