

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. **No** rainfall was recorded during past four days. Maximum temperature range observed was 20.8-23.1 °C, range of minimum temperature observed was 1.1-2.6 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 41.5 % respectively. The average wind speed range was 1.0-4.2 km/hr.

Weather forecast for next five days of Churachandpur (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 22.0 - 23.0 °C & minimum temp. 3.0-4.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 37 % (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	1	1	
Rapeseed/ Mustard	Vegetative		- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative	Aphid	 - Plant to plant distance may be maintained by thinning. - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local cucumber (Kalenthabi)	Land preparation to sowing		- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc			,
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
	"Hen required)	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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age (as and	Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. No rainfall was recorded during past four days. Maximum temperature range observed was $20.8-23.1\,^{\circ}\text{C}$, range of minimum temperature observed was $1.1-2.6\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $86.75\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $1.0-4.2\,\text{km/hr}$.

Weather forecast for next five days of Imphal - East (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 19.0 - 20.0 °C & minimum temp. 2.0 - 3.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 33 % (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	1	1	
Rapeseed/ Mustard	Vegetative		- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative	Aphid	 - Plant to plant distance may be maintained by thinning. - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Sowing to vegetative		 Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local cucumber (Kalenthabi)	Land preparation to sowing		- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
	when required)	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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age (as and	Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. **No** rainfall was recorded during past four days. Maximum temperature range observed was 20.8-23.1 °C, range of minimum temperature observed was 1.1-2.6 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 41.5 % respectively. The average wind speed range was 1.0-4.2 km/hr.

Weather forecast for next five days of Imphal - West (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 20.0 - 21.0 °C & minimum temp. 2.0 - 3.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	1	,
Rapeseed/ Mustard	Vegetative		- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative		- Plant to plant distance may be maintained by thinning.
(Pea & Lentil)		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.
			- For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Sowing to vegetative		 Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local cucumber (Kalenthabi)	Land preparation to sowing		- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
		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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
•	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age (as and	Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. No rainfall was recorded during past four days. Maximum temperature range observed was $20.8-23.1\,^{\circ}\text{C}$, range of minimum temperature observed was $1.1-2.6\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $86.75\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $1.0-4.2\,\text{km/hr}$.

Weather forecast for next five days of Senapati (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 19.0 - 20.0 °C & minimum temp. 1.0 - 2.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 35 % (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	1	1	J
Rapeseed/ Mustard	Vegetative	A.1.1	- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
D 1	X7	Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative	Aphid	 - Plant to plant distance may be maintained by thinning. - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local cucumber (Kalenthabi)	Land preparation to sowing		- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
	when required)	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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age (as and	Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. No rainfall was recorded during past four days. Maximum temperature range observed was $20.8-23.1\,^{\circ}\text{C}$, range of minimum temperature observed was $1.1-2.6\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $86.75\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $1.0-4.2\,\text{km/hr}$.

Weather forecast for next five days of Tamenglong (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 20.0 - 21.0 °C & minimum temp. 2.0 - 3.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 34 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	1	,
Rapeseed/ Mustard	Vegetative		- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative		- Plant to plant distance may be maintained by thinning.
(Pea & Lentil)		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.
			- For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Sowing to vegetative		 Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local cucumber (Kalenthabi)	Land preparation to sowing		- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
	"Hen required)	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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
•	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age (as and	Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. **No** rainfall was recorded during past four days. Maximum temperature range observed was 20.8-23.1 °C, range of minimum temperature observed was 1.1-2.6 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 41.5 % respectively. The average wind speed range was 1.0-4.2 km/hr.

Weather forecast for next five days of Thoubal (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 21.0 - 22.0 °C & minimum temp. 2.0 - 4.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 35 % (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		1	
Rapeseed/ Mustard	Vegetative		- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative		- Plant to plant distance may be maintained by thinning.
(Pea & Lentil)		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.
			- For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Sowing to vegetative		 Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local cucumber (Kalenthabi)	Land preparation to sowing		- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
	when required)	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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age (as and	Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. No rainfall was recorded during past four days. Maximum temperature range observed was $20.8-23.1\,^{\circ}\text{C}$, range of minimum temperature observed was $1.1-2.6\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $86.75\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $1.0-4.2\,\text{km/hr}$.

Weather forecast for next five days of Ukhrul (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 18.0 - 20.0 °C & minimum temp. 1.0 - 2.0 °C. Relative Humidity may reach a maximum value of 97 % (maximum RH) & 38 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	1	
Rapeseed/ Mustard	Vegetative		- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative	Aphid	 - Plant to plant distance may be maintained by thinning. - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local cucumber (Kalenthabi)	Land preparation to sowing		- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
		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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age (as and	Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. **No** rainfall was recorded during past four days. Maximum temperature range observed was $20.8-23.1\,^{\circ}\text{C}$, range of minimum temperature observed was $1.1-2.6\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $86.75\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $1.0-4.2\,\text{km/hr}$.

Weather forecast for next five days of Bishnupur (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 21.0 - 22.0 °C & minimum temp. 2.0 - 5.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 35 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			J
Rapeseed/ Mustard	Vegetative		- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative		- Plant to plant distance may be maintained by thinning.
(Pea & Lentil)	, and the second	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid For organic control against aphid, sprays that consist of azadirachtin,
Rabi Maize	Sowing to vegetative		neem oil or pyrethrin may be used. - Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local	Land preparation		- Land preparation for sowing of local cucumber (kalen thabi) may be
cucumber (Kalenthabi)	to sowing		started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
		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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th January, 2014

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 6th January, 2014)

During the past four days the sky was clear to partly cloudy and mainly cloudy during afternoon hours of 6th Jan. **No** rainfall was recorded during past four days. Maximum temperature range observed was 20.8-23.1 °C, range of minimum temperature observed was 1.1-2.6 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 41.5 % respectively. The average wind speed range was 1.0-4.2 km/hr.

Weather forecast for next five days of Chandel (8th to 12th January, 2014)

There may be light rain from Saturday. Sky may be clear with maximum temp. of 21.0 - 22.0 °C & minimum temp. 2.0 - 4.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 39 % (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	1	1	•
Rapeseed/ Mustard	Vegetative	A.1.1	- Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
D 1	X7	Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative	Aphid	 - Plant to plant distance may be maintained by thinning. - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Sowing to vegetative		 Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. Thinning of mustard or pea may be done.
Storage			- 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 Cro	ps		
Potato	Vegetative		 - If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP.
French Bean	Land preparation		 - Land preparation for sowing of French bean may be started. Select the plot where there is bright sunshine and proper drainage facility. - After ploughing, soil enrichment may be done specially in low lying area, by applying 60kg neem cake/ sangam + Trichoderma harzianum @ 5-6 kg/sangam (4-5 days before sowing.
Local cucumber (Kalenthabi)	Land preparation to sowing		- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.



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



"Integrated Agromet Advisory Services"

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	Sowing		 Tomato nurseries should be raised under low cost polyhouse Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Coccidiosis	 - Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same after two days break. - Mix Kampro-H @ 500g in 1ton of feed.
	required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Deworming may be done using Piperazine liq. @40ml for 100 birds (layers) once only.
		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. Protect birds from cold by hanging polythene sheet/ Hessian cloth all around the wire mesh/ poultry shed. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. To control increase of moisture inside the poultry shed, cross-ventilation for fresh air must be provided.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
		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.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied with Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age (as and	Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.