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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th January, 2014

Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - West
Imphal - West (10 th to 13 th January, 2014)	<u>(15th to 19th January, 2014)</u>
During the past four days the sky was clear to partly cloudy.	There may be light rain during next five days. Sky may be
No rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of 22.0 - 23.0
temperature range observed was 22.6 - 24.5 °C, range of	°C & minimum temp. 7.0 - 8.0 °C. Relative Humidity may
minimum temperature observed was 2.1 - 9.6 °C, mean	reach a maximum value of 100 % (maximum RH) & 36 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2-4
85.5 % and 41.6 % respectively. The average wind speed	
range was $1.0 - 3.4$ km/hr.	č ř

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rapeseed/ Mustard	Vegetative to flowering	Aphid	 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area. Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative		- Light irrigation may be given if the soil is dry.
(Pea & Lentil)	- ogomi - o	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 in vegetative stage.
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	DS		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.



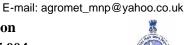


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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 @10g in 20 litres of water 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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
		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.
of age (as a	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
		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)	Endoparasite	- 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)	Wounds	- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.

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



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MANIPUR BULLETIN 14th January, 2014

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (10 th to 13 th January, 2014)	(15 th to 19 th January, 2014)
During the past four days the sky was clear to partly cloudy.	There may be light rain during next five days. Sky may be
No rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of 22.0 - 23.0
temperature range observed was 22.6 - 24.5 °C, range of	°C & minimum temp. 6.0 - 7.0 °C. Relative Humidity may
minimum temperature observed was 2.1 - 9.6 °C, mean	reach a maximum value of 100 % (maximum RH) & 35 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2-4
85.5 % and 41.6 % respectively. The average wind speed	
range was $1.0 - 3.4$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	I		
Rapeseed/ Mustard	Vegetative to flowering		 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
D.I.	X 7	Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative	Aphid	 Light irrigation may be given if the soil is dry. 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 in vegetative stage.
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		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.



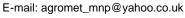


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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
Animal Scienc	es	I	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 @10g in 20 litres of water 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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
		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.
of age (as an	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
		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)	Endoparasite	- 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 r	when required)	Wounds	- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.

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





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MANIPUR BULLETIN 14th January, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (10 th to 13 th January, 2014)	$(15^{\text{th}} \text{ to } 19^{\text{th}} \text{ January, } 2014)$
During the past four days the sky was clear to partly cloudy.	There may be light rain during next five days. Sky may be
No rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of 23.0 - 24.0
temperature range observed was 22.6 - 24.5 °C, range of	°C & minimum temp. 7.0 - 8.0 °C. Relative Humidity may
minimum temperature observed was 2.1 - 9.6 °C, mean	reach a maximum value of 99 % (maximum RH) & 38 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2-5
85.5 % and 41.6 % respectively. The average wind speed	km/hr during next five days.
range was $1.0 - 3.4$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rapeseed/ Mustard	Vegetative to flowering	Aphid	 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area. Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative	1 pinu	 Light irrigation may be given if the soil is dry.
(Pea & Lentil)	Vegetarive	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 in vegetative stage.
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	D S		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.





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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 @10g in 20 litres of water 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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
	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.
of age (as and	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
		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.
0	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)	Endoparasite	- 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	when required)	Wounds	- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.

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



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MANIPUR BULLETIN 14th January, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (10 th to 13 th January, 2014)	$(15^{\text{th}} \text{ to } 19^{\text{th}} \text{ January, } 2014)$
During the next found down the also must also to pertire also de	There may be light using during most fine down Charmon be
During the past four days the sky was clear to partly cloudy.	There may be light rain during next five days. Sky may be
No rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of 22.0 - 23.0
temperature range observed was 22.6 - 24.5 °C, range of	°C & minimum temp. 7.0 - 8.0 °C. Relative Humidity may
minimum temperature observed was 2.1 - 9.6 °C, mean	reach a maximum value of 98 % (maximum RH) & 41 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 3 - 4
85.5 % and 41.6 % respectively. The average wind speed	km/hr during next five days.
range was $1.0 - 3.4$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rapeseed/ Mustard	Vegetative to flowering	Aphid	 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area. Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative		- Light irrigation may be given if the soil is dry.
(Pea & Lentil)	- egetan - e	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 in vegetative stage.
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	DS		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.

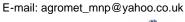




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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 @10g in 20 litres of water 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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
	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.
of age (as and	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
		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.
0	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)	Endoparasite	- 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 r	when required)	Wounds	- 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 14th January, 2014

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (10 th to 13 th January, 2014)	<u>(15th to 19th January, 2014)</u>
During the past four days the sky was clear to partly cloudy.	There may be light rain during next five days. Sky may be
No rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of 23.0 - 24.0
temperature range observed was 22.6 - 24.5 °C, range of	^o C & minimum temp. 7.0 - 8.0 ^o C. Relative Humidity may
minimum temperature observed was 2.1 - 9.6 °C, mean	reach a maximum value of 100 % (maximum RH) & 41 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2 km/hr
85.5 % and 41.6 % respectively. The average wind speed	during next five days.
range was $1.0 - 3.4$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rapeseed/ Mustard	Vegetative to flowering	Aphid	 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area. Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative	I	- Light irrigation may be given if the soil is dry.
(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 in vegetative stage.
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	DS		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.



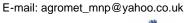


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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
a	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 @10g in 20 litres of water 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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
	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 intra- dermally.	
		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.	
8	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)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/ Above 3 m	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)	Wounds	- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.	

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MANIPUR BULLETIN 14th January, 2014

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (10 th to 13 th January, 2014)	$(15^{\text{th}} \text{ to } 19^{\text{th}} \text{ January, } 2014)$
During the past four days the sky was clear to partly cloudy.	There may be light rain during next five days. Sky may be
No rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of 22.0 - 23.0
temperature range observed was 22.6 - 24.5 °C, range of	°C & minimum temp. 8.0 - 9.0 °C. Relative Humidity may
minimum temperature observed was 2.1 - 9.6 °C, mean	reach a maximum value of 100 % (maximum RH) & 39 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2-4
85.5 % and 41.6 % respectively. The average wind speed	km/hr during next five days.
range was $1.0 - 3.4$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	1	
Rapeseed/ Mustard	Vegetative to flowering	Aphid	 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area. Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative	Арша	 Spray wonderouppings @ 1.5 mi/m of water to the infected patients only. Light irrigation may be given if the soil is dry.
(Pea & Lentil)	vegetauve	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 in vegetative stage.
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	D S		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.





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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All s age g	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 @10g in 20 litres of water 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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
	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 intra- dermally.	
		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.
8	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)	Endoparasite	- 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)	when required)	Wounds	- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.



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MANIPUR BULLETIN 14th January, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (10 th to 13 th January, 2014)	(15 th to 19 th January, 2014)
During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was $22.6 - 24.5$ °C, range of minimum temperature observed was $2.1 - 9.6$ °C, mean relative humidity observed in morning and afternoon were 85.5 % and 41.6 % respectively. The average wind speed range was $1.0 - 3.4$ km/hr.	There may be light rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 23.0 - 24.0 °C & minimum temp. 6.0 - 7.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 44 % (minimum RH). The average wind speed may be 3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/	Vegetative to flowering		 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative	Aphid	 Light irrigation may be given if the soil is dry. 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 in vegetative stage.
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	D S		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		 Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.





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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
Animal Scienc	es	I	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
a	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 @10g in 20 litres of water 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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
	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 intra- dermally.	
		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.
8	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)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/ Above 3 m	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)	when required)	Wounds	- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.

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



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MANIPUR BULLETIN 14th January, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (10 th to 13 th January, 2014)	Weather forecast for next five days of Churachandpur (15 th to 19 th January, 2014)
During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was $22.6 - 24.5$ °C, range of minimum temperature observed was $2.1 - 9.6$ °C, mean relative humidity observed in morning and afternoon were 85.5 % and 41.6 % respectively. The average wind speed range was $1.0 - 3.4$ km/hr.	There may be light rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 23.0 - 24.0 °C & minimum temp. 7.0 - 8.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 40 % (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	l		
Rapeseed/ Mustard	Vegetative to flowering	Aphid	 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area. Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative		 Light irrigation may be given if the soil is dry.
(Pea & Lentil)	- Colomitie	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 in vegetative stage.
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	p s		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.



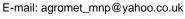


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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All su age g	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 @10g in 20 litres of water 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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
	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 intra- dermally.	
		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 mont of age (as and when required	Above 3 months	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.
	when required)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied with Livozyme @ 10 ml twice daily.
Cattle / Buffalo/ Above 3 r	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)	Wounds	- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.	

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MANIPUR BULLETIN 14th January, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of Imphal - West (10 th to 13 th January, 2014)	Weather forecast for next five days of Imphal - East $(15^{\text{th}} \text{ to } 19^{\text{th}} \text{ January, } 2014)$
During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was $22.6 - 24.5$ °C, range of minimum temperature observed was $2.1 - 9.6$ °C, mean relative humidity observed in morning and afternoon were 85.5 % and 41.6 % respectively. The average wind speed	There may be light rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 23.0 - 24.0 °C & minimum temp. 10.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 36 % (minimum RH). The average wind speed may be 0-3
range was $1.0 - 3.4$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L		
Rapeseed/ Mustard	Vegetative to flowering		 Irrigation may be given. Top dress with ½ N (@ 66kg Urea/ ha) just after irrigation. If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
	XX	Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative	Aphid	 Light irrigation may be given if the soil is dry. 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 in vegetative stage.
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	DS		
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be exposed to sun after proper ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim@ 2-3g/ kg seed.
Potato	Vegetative		 If aphid is observed in small patches, 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/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.
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.





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			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
Animal Scienc	es	I	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	 Add Supercox @ 10g in 10 litres of drinking water for 2-3 days and repeat the same @10g in 20 litres of water after two days break. Mix Kampro-H @ 500g in 1ton of feed.
		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.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
		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 intra- dermally.
		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.
		Endoparasite	- 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.
		Wounds	- Himax ointment may be applied on the affected area/ wounds caused due to bites of warble flies.