



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



“Integrated Agromet Advisory Services”

**MANIPUR BULLETIN
23rd October, 2012**

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 24th to 28th October, 2012 as given below:

Significant past weather for the preceding bi-weekly of Imphal- West (19 th to 22 nd October, 2012)	Weather forecast for next five days of Bishnupur (24 th to 28 th October, 2012)
<p>During the past four days the sky was mainly clear but mainly cloudy during morning hours of 19th. No rainfall was recorded during past four days. Maximum temperature range observed was 29.6 – 31.0 °C, range of minimum temperature observed was 13.6 – 17.5 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 55.5 % respectively. The average wind speed range was 2.1 – 2.9 km/hr.</p>	<p>During next five days, there is likely to have no rainfall. The sky is likely to remain clear to mainly clear but mainly cloudy to cloudy on 25th & 28th. The maximum temp. is likely to be 24.0 - 27.0 °C. The minimum temp. is likely to be 13.0 -16.0 °C. The maximum RH is likely to attain a max value of 100 %. Minimum RH is likely to reach a max of 81 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper	<ul style="list-style-type: none"> - Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. - Drain out excess water from the fields ten days before harvesting. - For harvesting, wait till (75-80) % of the spikelet turns yellow. - In hills, harvest the rice crops. Sundry it for 2-3 days then thresh. After threshing, sundry the rice till the moisture content reduces to 12-14 %.
Zero tillage Rapeseed	Sowing		<ul style="list-style-type: none"> - Sowing of zero tillage rapeseed (var: M-27) may be started just after the harvest of rice crop depending on the moisture content of the soil.
Soybean	Harvesting and post harvesting		<ul style="list-style-type: none"> - Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Post harvesting		<ul style="list-style-type: none"> - Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Maturity		<ul style="list-style-type: none"> - Mature crops may be harvested.
Storage			<ul style="list-style-type: none"> - To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation and sun dry the bags/ grains on sunny days. - Seeds of crops like maize, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture Crops			
Onion	Nursery		<ul style="list-style-type: none"> - Nursery raising of onion may be done. - 50-60 days old seedlings may be transplanted.



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Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100-300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		- Plant the seed tubers. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Pea	Land preparation and sowing		- Sowing of early variety (Arkel, Azad Pea) may be started. Sow in area with good sunshine. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water and let it dry in shed before sowing.
Cauliflower	Nursery to transplanting		- As second crop of cauliflower, 28-30 days old seedlings of mid-varieties like White Flash, Candid Charm may be transplanted after the harvest of early crop.
Cabbage / Cauliflower/ Broccoli	Nursery raising		- Nursery raising for second crop may be done. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm.

Fisheries

* Ponds should be free from unwanted vegetation and insects

Type of Farming		Agro-meteorological advisories	
Carp culture		<ul style="list-style-type: none"> To reduce algal bloom/ pollution, apply Agrilime @ 200 kg/ha. To increase oxygen level in culture pond, drain out half of pond water and replace it with fresh and clean water. Stir the upper water using bamboo pole or any other means especially during morning. Pond water depth should be maintained at 1.0 m - 1.5 m. Reduce feeding gradually with the decreasing temperature. As the temperature is decreasing, regular checking of incidence of diseases in fishes should be done by netting. 	

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm against Fascioliasis using Oxyclonazole @ 15 mg/ kg body weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age	Endoparasite	<ul style="list-style-type: none"> - De-worm using Albomec @ 1 ml/3 kg body weight orally once only. - Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	<ul style="list-style-type: none"> - Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal. - Give Sharkoferol liquid @ 5-10 ml once daily for 7 days.
	Piglets		
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
		Spray against ectoparasites (Tick, Lice, etc.)	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.



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Poultry	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm with Piperazine hexahydrate @ 50ml /100 birds in drinking water once every month. - Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Coccidiosis	Give Coximar @ 3ml/ 5 lit of water for 4 – 5 days.
	Ranikhet		<ul style="list-style-type: none"> - Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. - give Lasota strain at 10-12 weeks - give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	<ul style="list-style-type: none"> - Vaccinate 6-7 wks. and 14 wks. old birds. - Apply Iodine tincture/ Betadine liq. on pox growth daily.

* De-worming may be done before 15 days of vaccination.

I. Meghachandra Singh
Scientist i/c, AMFU- Imphal Unit



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**MANIPUR BULLETIN
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Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 24th to 28th October, 2012 as given below:

Significant past weather for the preceding bi-weekly of Imphal- West (19 th to 22 nd October, 2012)	Weather forecast for next five days of Chandel (24 th to 28 th October, 2012)
<p>During the past four days the sky was mainly clear but mainly cloudy during morning hours of 19th. No rainfall was recorded during past four days. Maximum temperature range observed was 29.6 – 31.0 °C, range of minimum temperature observed was 13.6 – 17.5 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 55.5 % respectively. The average wind speed range was 2.1 – 2.9 km/hr.</p>	<p>During next five days, there is likely to have no rainfall. The sky is likely to remain clear to mainly clear but partly cloudy on 25th. The maximum temp. is likely to be 29.0 - 30.0 °C. The minimum temp. is likely to be 19.0 - 21.0 °C. The maximum RH is likely to attain a max value of 94 %. Minimum RH is likely to reach a max of 82 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper	<ul style="list-style-type: none"> - Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. - Drain out excess water from the fields ten days before harvesting. - For harvesting, wait till (75-80) % of the spikelet turns yellow. - In hills, harvest the rice crops. Sundry it for 2-3 days then thresh. After threshing, sundry the rice till the moisture content reduces to 12-14 %.
Zero tillage Rapeseed	Sowing		<ul style="list-style-type: none"> - Sowing of zero tillage rapeseed (var: M-27) may be started just after the harvest of rice crop depending on the moisture content of the soil.
Soybean	Harvesting and post harvesting		<ul style="list-style-type: none"> - Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Post harvesting		<ul style="list-style-type: none"> - Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Maturity		<ul style="list-style-type: none"> - Mature crops may be harvested.
Storage			<ul style="list-style-type: none"> - To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation and sun dry the bags/ grains on sunny days. - Seeds of crops like maize, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture Crops			
Onion	Nursery		<ul style="list-style-type: none"> - Nursery raising of onion may be done. - 50-60 days old seedlings may be transplanted.



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Potato	Planting/ land preparation		- Plant the seed tubers. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Pea	Land preparation and sowing		- Sowing of early variety (Arkel, Azad Pea) may be started. Sow in area with good sunshine. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water and let it dry in shed before sowing.
Cauliflower	Nursery to transplanting		- As second crop of cauliflower, 28-30 days old seedlings of mid-varieties like White Flash, Candid Charm may be transplanted after the harvest of early crop.
Cabbage / Cauliflower/ Broccoli	Nursery raising		- Nursery raising for second crop may be done. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm.

Fisheries

* Ponds should be free from unwanted vegetation and insects

Type of Farming		Agro-meteorological advisories	
Carp culture		<ul style="list-style-type: none"> To reduce algal bloom/ pollution, apply Agrilime @ 200 kg/ha. To increase oxygen level in culture pond, drain out half of pond water and replace it with fresh and clean water. Stir the upper water using bamboo pole or any other means especially during morning. Pond water depth should be maintained at 1.0 m - 1.5 m. Reduce feeding gradually with the decreasing temperature. As the temperature is decreasing, regular checking of incidence of diseases in fishes should be done by netting. 	

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm against Fascioliasis using Oxyclonazole @ 15 mg/ kg body weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age	Endoparasite	<ul style="list-style-type: none"> - De-worm using Albomec @ 1 ml/3 kg body weight orally once only. - Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	<ul style="list-style-type: none"> - Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal. - Give Sharkoferol liquid @ 5-10 ml once daily for 7 days.
	Piglets		
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
		Spray against ectoparasites (Tick, Lice, etc.)	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.



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Poultry	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm with Piperazine hexahydrate @ 50ml /100 birds in drinking water once every month. - Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Coccidiosis	Give Coximar @ 3ml/ 5 lit of water for 4 – 5 days.
	Ranikhet		<ul style="list-style-type: none"> - Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. - give Lasota strain at 10-12 weeks - give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	<ul style="list-style-type: none"> - Vaccinate 6-7 wks. and 14 wks. old birds. - Apply Iodine tincture/ Betadine liq. on pox growth daily.

* De-worming may be done before 15 days of vaccination.

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Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 24th to 28th October, 2012 as given below:

Significant past weather for the preceding bi-weekly of Imphal- West (19 th to 22 nd October, 2012)	Weather forecast for next five days of Churachandpur (24 th to 28 th October, 2012)
<p>During the past four days the sky was mainly clear but mainly cloudy during morning hours of 19th. No rainfall was recorded during past four days. Maximum temperature range observed was 29.6 – 31.0 °C, range of minimum temperature observed was 13.6 – 17.5 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 55.5 % respectively. The average wind speed range was 2.1 – 2.9 km/hr.</p>	<p>During next five days, there is likely to have no rainfall. The sky is likely to remain clear to partly cloudy but mainly cloudy on 25th and 28th. The maximum temp. is likely to be 27.0 - 29.0 °C. The minimum temp. is likely to be 16.0 - 20.0 °C. The maximum RH is likely to attain a max value of 100 %. Minimum RH is likely to reach a max of 83 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper	<ul style="list-style-type: none"> - Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. - Drain out excess water from the fields ten days before harvesting. - For harvesting, wait till (75-80) % of the spikelet turns yellow. - In hills, harvest the rice crops. Sundry it for 2-3 days then thresh. After threshing, sundry the rice till the moisture content reduces to 12-14 %.
Zero tillage Rapeseed	Sowing		<ul style="list-style-type: none"> - Sowing of zero tillage rapeseed (var: M-27) may be started just after the harvest of rice crop depending on the moisture content of the soil.
Soybean	Harvesting and post harvesting		<ul style="list-style-type: none"> - Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Post harvesting		<ul style="list-style-type: none"> - Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Maturity		<ul style="list-style-type: none"> - Mature crops may be harvested.
Storage			<ul style="list-style-type: none"> - To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation and sun dry the bags/ grains on sunny days. - Seeds of crops like maize, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture Crops			
Onion	Nursery		<ul style="list-style-type: none"> - Nursery raising of onion may be done. - 50-60 days old seedlings may be transplanted.



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Potato	Planting/ land preparation		- Plant the seed tubers. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
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Cauliflower	Nursery to transplanting		- As second crop of cauliflower, 28-30 days old seedlings of mid-varieties like White Flash, Candid Charm may be transplanted after the harvest of early crop.
Cabbage / Cauliflower/ Broccoli	Nursery raising		- Nursery raising for second crop may be done. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm.

Fisheries

* Ponds should be free from unwanted vegetation and insects

Type of Farming	Agro-meteorological advisories		
Carp culture		<ul style="list-style-type: none"> To reduce algal bloom/ pollution, apply Agrilime @ 200 kg/ha. To increase oxygen level in culture pond, drain out half of pond water and replace it with fresh and clean water. Stir the upper water using bamboo pole or any other means especially during morning. Pond water depth should be maintained at 1.0 m - 1.5 m. Reduce feeding gradually with the decreasing temperature. As the temperature is decreasing, regular checking of incidence of diseases in fishes should be done by netting. 	

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm against Fascioliasis using Oxyclonazole @ 15 mg/ kg body weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
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	Piglets		
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
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Imphal- East

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Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm against Fascioliasis using Oxyclonazole @ 15 mg/ kg body weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age	Endoparasite	<ul style="list-style-type: none"> - De-worm using Albomec @ 1 ml/3 kg body weight orally once only. - Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	<ul style="list-style-type: none"> - Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal. - Give Sharkoferol liquid @ 5-10 ml once daily for 7 days.
	Piglets		
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
		Spray against ectoparasites (Tick, Lice, etc.)	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.



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Poultry	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm with Piperazine hexahydrate @ 50ml /100 birds in drinking water once every month. - Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Coccidiosis	Give Coximar @ 3ml/ 5 lit of water for 4 – 5 days.
	Ranikhet		<ul style="list-style-type: none"> - Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. - give Lasota strain at 10-12 weeks - give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	<ul style="list-style-type: none"> - Vaccinate 6-7 wks. and 14 wks. old birds. - Apply Iodine tincture/ Betadine liq. on pox growth daily.

* De-worming may be done before 15 days of vaccination.

I. Meghachandra Singh
Scientist i/c, AMFU- Imphal Unit



**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

**MANIPUR BULLETIN
23rd October, 2012**

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 24th to 28th October, 2012 as given below:

Significant past weather for the preceding bi-weekly of Imphal- West (19 th to 22 nd October, 2012)	Weather forecast for next five days of Imphal-West (24 th to 28 th October, 2012)
<p>During the past four days the sky was mainly clear but mainly cloudy during morning hours of 19th. No rainfall was recorded during past four days. Maximum temperature range observed was 29.6 – 31.0 °C, range of minimum temperature observed was 13.6 – 17.5 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 55.5 % respectively. The average wind speed range was 2.1 – 2.9 km/hr.</p>	<p>During next five days, there is likely to have no rainfall. The sky is likely to remain clear to mainly clear but mainly cloudy to cloudy on 25th & 28th. The maximum temp. is likely to be 24.0 - 26.0 °C. The minimum temp. is likely to be 12.0 -14.0 °C. The maximum RH is likely to attain a max value of 99 %. Minimum RH is likely to reach a max of 86 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper	<ul style="list-style-type: none"> - Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. - Drain out excess water from the fields ten days before harvesting. - For harvesting, wait till (75-80) % of the spikelet turns yellow. - In hills, harvest the rice crops. Sundry it for 2-3 days then thresh. After threshing, sundry the rice till the moisture content reduces to 12-14 %.
Zero tillage Rapeseed	Sowing		<ul style="list-style-type: none"> - Sowing of zero tillage rapeseed (var: M-27) may be started just after the harvest of rice crop depending on the moisture content of the soil.
Soybean	Harvesting and post harvesting		<ul style="list-style-type: none"> - Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Post harvesting		<ul style="list-style-type: none"> - Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Maturity		<ul style="list-style-type: none"> - Mature crops may be harvested.
Storage			<ul style="list-style-type: none"> - To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation and sun dry the bags/ grains on sunny days. - Seeds of crops like maize, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture Crops			
Onion	Nursery		<ul style="list-style-type: none"> - Nursery raising of onion may be done. - 50-60 days old seedlings may be transplanted.



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“Integrated Agromet Advisory Services”

Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100-300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		- Plant the seed tubers. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Pea	Land preparation and sowing		- Sowing of early variety (Arkel, Azad Pea) may be started. Sow in area with good sunshine. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water and let it dry in shed before sowing.
Cauliflower	Nursery to transplanting		- As second crop of cauliflower, 28-30 days old seedlings of mid-varieties like White Flash, Candid Charm may be transplanted after the harvest of early crop.
Cabbage / Cauliflower/ Broccoli	Nursery raising		- Nursery raising for second crop may be done. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm.

Fisheries

* Ponds should be free from unwanted vegetation and insects

Type of Farming		Agro-meteorological advisories	
Carp culture		<ul style="list-style-type: none"> To reduce algal bloom/ pollution, apply Agrilime @ 200 kg/ha. To increase oxygen level in culture pond, drain out half of pond water and replace it with fresh and clean water. Stir the upper water using bamboo pole or any other means especially during morning. Pond water depth should be maintained at 1.0 m - 1.5 m. Reduce feeding gradually with the decreasing temperature. As the temperature is decreasing, regular checking of incidence of diseases in fishes should be done by netting. 	

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm against Fascioliasis using Oxyclonazole @ 15 mg/ kg body weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age	Endoparasite	<ul style="list-style-type: none"> - De-worm using Albomec @ 1 ml/3 kg body weight orally once only. - Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	<ul style="list-style-type: none"> - Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal. - Give Sharkoferol liquid @ 5-10 ml once daily for 7 days.
	Piglets		
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
		Spray against ectoparasites (Tick, Lice, etc.)	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.



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Poultry	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm with Piperazine hexahydrate @ 50ml /100 birds in drinking water once every month. - Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Coccidiosis	Give Coximar @ 3ml/ 5 lit of water for 4 – 5 days.
	Ranikhet		<ul style="list-style-type: none"> - Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. - give Lasota strain at 10-12 weeks - give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	<ul style="list-style-type: none"> - Vaccinate 6-7 wks. and 14 wks. old birds. - Apply Iodine tincture/ Betadine liq. on pox growth daily.

* De-worming may be done before 15 days of vaccination.

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“Integrated Agromet Advisory Services”

**MANIPUR BULLETIN
23rd October, 2012**

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 24th to 28th October, 2012 as given below:

Significant past weather for the preceding bi-weekly of Imphal- West (19 th to 22 nd October, 2012)	Weather forecast for next five days of Senapati (24 th to 28 th October, 2012)
<p>During the past four days the sky was mainly clear but mainly cloudy during morning hours of 19th. No rainfall was recorded during past four days. Maximum temperature range observed was 29.6 – 31.0 °C, range of minimum temperature observed was 13.6 – 17.5 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 55.5 % respectively. The average wind speed range was 2.1 – 2.9 km/hr.</p>	<p>During next five days, there is likely to have no rainfall. The sky is likely to remain clear to partly cloudy but mainly cloudy on 28th. The maximum temp. is likely to be 23.0 - 25.0 °C. The minimum temp. is likely to be 11.0 - 13.0 °C. The maximum RH is likely to attain a max value of 93 %. Minimum RH is likely to reach a max of 72 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper	<ul style="list-style-type: none"> - Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. - Drain out excess water from the fields ten days before harvesting. - For harvesting, wait till (75-80) % of the spikelet turns yellow. - In hills, harvest the rice crops. Sundry it for 2-3 days then thresh. After threshing, sundry the rice till the moisture content reduces to 12-14 %.
Zero tillage Rapeseed	Sowing		<ul style="list-style-type: none"> - Sowing of zero tillage rapeseed (var: M-27) may be started just after the harvest of rice crop depending on the moisture content of the soil.
Soybean	Harvesting and post harvesting		<ul style="list-style-type: none"> - Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Blackgram	Maturity		<ul style="list-style-type: none"> - Mature crops may be harvested.
Storage			<ul style="list-style-type: none"> - To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation and sun dry the bags/ grains on sunny days. - Seeds of crops like maize, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture Crops			
Onion	Nursery		<ul style="list-style-type: none"> - Nursery raising of onion may be done. - 50-60 days old seedlings may be transplanted.
Tree bean		Trunk borer	<ul style="list-style-type: none"> - Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100-300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		<ul style="list-style-type: none"> - Plant the seed tubers. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.



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Cabbage	Nursery raising		- Nursery raising for second crop may be done. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age	Endoparasite	<ul style="list-style-type: none"> - De-worm using Albomec @ 1 ml/3 kg body weight orally once only. - Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	<ul style="list-style-type: none"> - Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal.
	Piglets		<ul style="list-style-type: none"> - Give Sharkoferol liquid @ 5-10 ml once daily for 7 days.
Poultry	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm with Piperazine hexahydrate @ 50ml /100 birds in drinking water once every month. - Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Coccidiosis	<ul style="list-style-type: none"> - Give Coximar @ 3ml/ 5 lit of water for 4 – 5 days.
		Ranikhet	<ul style="list-style-type: none"> - Vaccinate with strain live vaccine @ one drop on eyes or nostril at 7th day. - give Lasota strain at 10-12 weeks - give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	<ul style="list-style-type: none"> - Vaccinate 6-7 wks. and 14 wks. old birds. - Apply Iodine tincture/ Betadine liq. on pox growth daily.
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
		Spray against ectoparasites (Tick, Lice, etc.)	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.

* De-worming may be done before 15 days of vaccination.



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“Integrated Agromet Advisory Services”

**MANIPUR BULLETIN
23rd October, 2012**

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 24th to 28th October, 2012 as given below:

Significant past weather for the preceding bi-weekly of Imphal- West (19 th to 22 nd October, 2012)	Weather forecast for next five days of Tamenglong (24 th to 28 th October, 2012)
<p>During the past four days the sky was mainly clear but mainly cloudy during morning hours of 19th. No rainfall was recorded during past four days. Maximum temperature range observed was 29.6 – 31.0 °C, range of minimum temperature observed was 13.6 – 17.5 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 55.5 % respectively. The average wind speed range was 2.1 – 2.9 km/hr.</p>	<p>During next five days, there is likely to have no rainfall. The sky is likely to remain clear to mainly clear but partly cloudy on 25th and cloudy on 28th. The maximum temp. is likely to be 27.0 - 29.0 °C. The minimum temp. is likely to be 16.0 - 20.0 °C. The maximum RH is likely to attain a max value of 95 %. Minimum RH is likely to reach a max of 84 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper	<ul style="list-style-type: none"> - Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. - Drain out excess water from the fields ten days before harvesting. - For harvesting, wait till (75-80) % of the spikelet turns yellow. - In hills, harvest the rice crops. Sundry it for 2-3 days then thresh. After threshing, sundry the rice till the moisture content reduces to 12-14 %.
Zero tillage Rapeseed	Sowing		<ul style="list-style-type: none"> - Sowing of zero tillage rapeseed (var: M-27) may be started just after the harvest of rice crop depending on the moisture content of the soil.
Soybean	Harvesting and post harvesting		<ul style="list-style-type: none"> - Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Post harvesting		<ul style="list-style-type: none"> - Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Maturity		<ul style="list-style-type: none"> - Mature crops may be harvested.
Storage			<ul style="list-style-type: none"> - To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation and sun dry the bags/ grains on sunny days. - Seeds of crops like maize, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture Crops			
Onion	Nursery		<ul style="list-style-type: none"> - Nursery raising of onion may be done. - 50-60 days old seedlings may be transplanted.



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“Integrated Agromet Advisory Services”

Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100-300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		- Plant the seed tubers. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Pea	Land preparation and sowing		- Sowing of early variety (Arkel, Azad Pea) may be started. Sow in area with good sunshine. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water and let it dry in shed before sowing.
Cauliflower	Nursery to transplanting		- As second crop of cauliflower, 28-30 days old seedlings of mid-varieties like White Flash, Candid Charm may be transplanted after the harvest of early crop.
Cabbage / Cauliflower/ Broccoli	Nursery raising		- Nursery raising for second crop may be done. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm.

Fisheries

* Ponds should be free from unwanted vegetation and insects

Type of Farming	Agro-meteorological advisories		
Carp culture		<ul style="list-style-type: none"> To reduce algal bloom/ pollution, apply Agrilime @ 200 kg/ha. To increase oxygen level in culture pond, drain out half of pond water and replace it with fresh and clean water. Stir the upper water using bamboo pole or any other means especially during morning. Pond water depth should be maintained at 1.0 m - 1.5 m. Reduce feeding gradually with the decreasing temperature. As the temperature is decreasing, regular checking of incidence of diseases in fishes should be done by netting. 	

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm against Fascioliasis using Oxyclonazole @ 15 mg/ kg body weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age	Endoparasite	<ul style="list-style-type: none"> - De-worm using Albomec @ 1 ml/3 kg body weight orally once only. - Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	<ul style="list-style-type: none"> - Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal. - Give Sharkoferol liquid @ 5-10 ml once daily for 7 days.
	Piglets		
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
		Spray against ectoparasites (Tick, Lice, etc.)	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.



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“Integrated Agromet Advisory Services”

Poultry	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm with Piperazine hexahydrate @ 50ml /100 birds in drinking water once every month. - Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Coccidiosis	Give Coximar @ 3ml/ 5 lit of water for 4 – 5 days.
	Ranikhet		<ul style="list-style-type: none"> - Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. - give Lasota strain at 10-12 weeks - give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	<ul style="list-style-type: none"> - Vaccinate 6-7 wks. and 14 wks. old birds. - Apply Iodine tincture/ Betadine liq. on pox growth daily.

* De-worming may be done before 15 days of vaccination.

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



“Integrated Agromet Advisory Services”

**MANIPUR BULLETIN
23rd October, 2012**

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 24th to 28th October, 2012 as given below:

Significant past weather for the preceding bi-weekly of Imphal- West (19 th to 22 nd October, 2012)	Weather forecast for next five days of Ukhrul (24 th to 28 th October, 2012)
<p>During the past four days the sky was mainly clear but mainly cloudy during morning hours of 19th. No rainfall was recorded during past four days. Maximum temperature range observed was 29.6 – 31.0 °C, range of minimum temperature observed was 13.6 – 17.5 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 55.5 % respectively. The average wind speed range was 2.1 – 2.9 km/hr.</p>	<p>During next five days, there is likely to have no rainfall. The sky is likely to remain clear to partly cloudy but mainly cloudy on 28th. The maximum temp. is likely to be 23.0 - 25.0 °C. The minimum temp. is likely to be 11.0 - 13.0 °C. The maximum RH is likely to attain a max value of 89 %. Minimum RH is likely to reach a max of 85 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper	<ul style="list-style-type: none"> - Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. - Drain out excess water from the fields ten days before harvesting. - For harvesting, wait till (75-80) % of the spikelet turns yellow. - In hills, harvest the rice crops. Sundry it for 2-3 days then thresh. After threshing, sundry the rice till the moisture content reduces to 12-14 %.
Zero tillage Rapeseed	Sowing		<ul style="list-style-type: none"> - Sowing of zero tillage rapeseed (var: M-27) may be started just after the harvest of rice crop depending on the moisture content of the soil.
Soybean	Harvesting and post harvesting		<ul style="list-style-type: none"> - Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Blackgram	Maturity		<ul style="list-style-type: none"> - Mature crops may be harvested.
Storage			<ul style="list-style-type: none"> - To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation and sun dry the bags/ grains on sunny days. - Seeds of crops like maize, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture Crops			
Onion	Nursery		<ul style="list-style-type: none"> - Nursery raising of onion may be done. - 50-60 days old seedlings may be transplanted.
Tree bean		Trunk borer	<ul style="list-style-type: none"> - Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100-300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		<ul style="list-style-type: none"> - Plant the seed tubers. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.



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



“Integrated Agromet Advisory Services”

Cabbage	Nursery raising		- Nursery raising for second crop may be done. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age	Endoparasite	<ul style="list-style-type: none"> - De-worm using Albomec @ 1 ml/3 kg body weight orally once only. - Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	<ul style="list-style-type: none"> - Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal.
	Piglets		<ul style="list-style-type: none"> - Give Sharkoferol liquid @ 5-10 ml once daily for 7 days.
Poultry	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm with Piperazine hexahydrate @ 50ml /100 birds in drinking water once every month. - Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Coccidiosis	<ul style="list-style-type: none"> - Give Coximar @ 3ml/ 5 lit of water for 4 – 5 days.
		Ranikhet	<ul style="list-style-type: none"> - Vaccinate with strain live vaccine @ one drop on eyes or nostril at 7th day. - give Lasota strain at 10-12 weeks - give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	<ul style="list-style-type: none"> - Vaccinate 6-7 wks. and 14 wks. old birds. - Apply Iodine tincture/ Betadine liq. on pox growth daily.
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
		Spray against ectoparasites (Tick, Lice, etc.)	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.

* De-worming may be done before 15 days of vaccination.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

**MANIPUR BULLETIN
23rd October, 2012**

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 24th to 28th October, 2012 as given below:

Significant past weather for the preceding bi-weekly of Imphal- West (19 th to 22 nd October, 2012)	Weather forecast for next five days of Thoubal (24 th to 28 th October, 2012)
<p>During the past four days the sky was mainly clear but mainly cloudy during morning hours of 19th. No rainfall was recorded during past four days. Maximum temperature range observed was 29.6 – 31.0 °C, range of minimum temperature observed was 13.6 – 17.5 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 55.5 % respectively. The average wind speed range was 2.1 – 2.9 km/hr.</p>	<p>During next five days, there is likely to have no rainfall. The sky is likely to remain clear to mainly clear but mainly cloudy to cloudy on 25th & 28th. The maximum temp. is likely to be 24.0 - 26.0 °C. The minimum temp. is likely to be 14.0 -16.0 °C. The maximum RH is likely to attain a max value of 99 %. Minimum RH is likely to reach a max of 76 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.</p>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper	<ul style="list-style-type: none"> - Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. - Drain out excess water from the fields ten days before harvesting. - For harvesting, wait till (75-80) % of the spikelet turns yellow. - In hills, harvest the rice crops. Sundry it for 2-3 days then thresh. After threshing, sundry the rice till the moisture content reduces to 12-14 %.
Zero tillage Rapeseed	Sowing		<ul style="list-style-type: none"> - Sowing of zero tillage rapeseed (var: M-27) may be started just after the harvest of rice crop depending on the moisture content of the soil.
Soybean	Harvesting and post harvesting		<ul style="list-style-type: none"> - Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Post harvesting		<ul style="list-style-type: none"> - Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Maturity		<ul style="list-style-type: none"> - Mature crops may be harvested.
Storage			<ul style="list-style-type: none"> - To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation and sun dry the bags/ grains on sunny days. - Seeds of crops like maize, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture Crops			
Onion	Nursery		<ul style="list-style-type: none"> - Nursery raising of onion may be done. - 50-60 days old seedlings may be transplanted.



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Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100-300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		- Plant the seed tubers. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Pea	Land preparation and sowing		- Sowing of early variety (Arkel, Azad Pea) may be started. Sow in area with good sunshine. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water and let it dry in shed before sowing.
Cauliflower	Nursery to transplanting		- As second crop of cauliflower, 28-30 days old seedlings of mid-varieties like White Flash, Candid Charm may be transplanted after the harvest of early crop.
Cabbage / Cauliflower/ Broccoli	Nursery raising		- Nursery raising for second crop may be done. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm.

Fisheries

* Ponds should be free from unwanted vegetation and insects

Type of Farming	Agro-meteorological advisories		
Carp culture		<ul style="list-style-type: none"> To reduce algal bloom/ pollution, apply Agrilime @ 200 kg/ha. To increase oxygen level in culture pond, drain out half of pond water and replace it with fresh and clean water. Stir the upper water using bamboo pole or any other means especially during morning. Pond water depth should be maintained at 1.0 m - 1.5 m. Reduce feeding gradually with the decreasing temperature. As the temperature is decreasing, regular checking of incidence of diseases in fishes should be done by netting. 	

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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Pig	Above 3 months of age	Endoparasite	<ul style="list-style-type: none"> - De-worm using Albomec @ 1 ml/3 kg body weight orally once only. - Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	<ul style="list-style-type: none"> - Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal. - Give Sharkoferol liquid @ 5-10 ml once daily for 7 days.
	Piglets		
Cattle / Buffalo	All age groups except three months or below	Deworm against parasites (Amphistomes, Fascioliasis)	<ul style="list-style-type: none"> - Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.
		Spray against ectoparasites (Tick, Lice, etc.)	<ul style="list-style-type: none"> - Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.



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Poultry	All susceptible age groups	Endoparasite	<ul style="list-style-type: none"> - Deworm with Piperazine hexahydrate @ 50ml /100 birds in drinking water once every month. - Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Coccidiosis	Give Coximar @ 3ml/ 5 lit of water for 4 – 5 days.
	Ranikhet		<ul style="list-style-type: none"> - Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. - give Lasota strain at 10-12 weeks - give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	<ul style="list-style-type: none"> - Vaccinate 6-7 wks. and 14 wks. old birds. - Apply Iodine tincture/ Betadine liq. on pox growth daily.

* De-worming may be done before 15 days of vaccination.

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