Phone: 0385 - 2414654, 2414749, 2414260

FAX: 0385 - 2414654, 2414749 **Email: agromet_mnp@yahoo.co.uk**

EXPERIMENTAL AGROMET ADVISORY SERVICE

ICAR Research Complex for NEH Region

Manipur Centre, Lamphelpat Imphal - 795 004

Station: Lamphelpat, Imphal Month & Year: January, 2013 Latitude: 24⁰ 45' N Longitude: 93⁰ 54' E

Date	Temperature (⁰ C)		Relative Humidity (%)		Wind Direction		Wind Speed
Date	Max.	Min.	07 00 hrs	13 00hrs	07 00 hrs	13 00hrs	km/hr
01-04-13	22.8	2.5	89	40	320	250	2.7
01-05-13	23.4	2.5	94	49	290	230	1.5
01-06-13	23.4	1.4	78	43	315	225	2.2
01-07-13	18.0	1.5	86	28	280	300	2.5

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EXPERIMENTAL AGROMET ADVISORY SERVICE

ICAR Research Complex for NEH Region

Manipur Centre, Lamphelpat Imphal - 795 004

Station: Lamphelpat, Imphal Month & Year: January, 2013 Latitude: 24⁰ 45' N Longitude: 93⁰ 54' E

Date	Temperature (⁰ C)		Relative Humidity (%)		Wind Direction		Wind Speed
Date	Max.	Min.	07 00 hrs	13 00hrs	07 00 hrs	13 00hrs	km/hr
01-15-13	22.6	2.0	86	36	290	225	0.8
01-16-13	23.0	2.4	71	39	170	205	0.8
01-17-13	23.8	3.2	83	42	35	175	0.4

Standard Week: 1 & 2 Altitude: 774m

Cloud Co	ver (Okta)	Rainfall (mm)
07 00 hrs	13 00hrs	Kaiman (iiiii)
3	1	0.0
4	0	0.0
2	0	0.0
2	7	0.0

Standard Week: 3 Altitude: 774m

Cloud Co	ver (Okta)	Rainfall (mm)
07 00 hrs	13 00hrs	Kaiman (iiiii)
2	0	0.0
2	0	0.0
2	2	0.0



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th January, 2013 as given below:

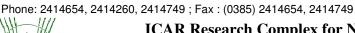
Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 2^{nd} Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0-23.4 °C, range of minimum temperature observed was 1.4-2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5-2.5 km/hr.

Weather forecast for next five days of Bishnupur (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be 17.0 - 220.0 °C. The minimum temp. is likely to be 2.0 - 5.0 °C. The maximum RH is likely to attain a max value of 81 %. Minimum RH is likely to reach a max of 61 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Zero tillage	Vegetative		- Top dress and irrigate.
Rapeseed			- Thinning must be done where plant population is high.
Rabi Maize	Vegetative		- Irrigation may be done.
			- After earthing up, top dress with nitrogen fertilizer when the plant is
			knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-
			seed bins after proper drying. Check for germination of seeds. Clean and
			dry the seeds.
Horticulture C			
			oking (using straw/ husk of rice) may be done in and around those crop field
in which the croj	o is in vegetative sta	ge, specially for solanac	ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery		Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi
			Dwarf and Amit Sagar.
Citrus (Orange,	Seed collection		- Collect healthy & mature fruits from disease free tree and raise nursery.
Lemon, Lime)	& nursery		
			- In grown-up trees, remove water sprouts, dried leaves and dead branches
			and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be
D. II. I	P	4 1 1 1	raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress
			with 25 kg DAP/ sangam followed earthing-up of ridges and light
			irrigation to keep the soil moist.
Pea	Vegetative to		- Avoid nipping of young shoots at vegetative stage as it will delay
	flowering		fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if
			incidence of powdery mildew is observed.
Cole crops	Nursery and		- Light and frequent watering is required.
	transplanting to		
	vegetative		
	Harvesting of		- Harvesting of Broccoli must be done when the head/ bud are compact,
	broccoli		before it gets open. Maintain stalk length of 10-15 cm while harvesting.



age groups

All susceptible

age groups Chick upto 5

days

Ranikhet

De-worming

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



"Integrated Agromet Advisory Services"

Einle eine			
Fisheries Type of Farm	ina	Agro-metrological a	dvicarias
 Depth of pond water level of may be reduce Feed should be 			e culture pond water with clean and fresh water regularly atter should be maintained at 1.0 – 1.5 m. If there is problem in maintaining ge area then thinning of fish population may be done and culture pond area Also, maintain stock density @ 5000 fishes/ ha. Even @ 2 % of body weight per day. Tregularly apply CIFAX/ lime in culture pond in small quantity at an interval
		and brush the animal / sp	pray the solution once/ twice in a week against external parasites (Mites) in
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder.
Cattle / Buffalo/	All age groups except three	FMD	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually.
Mithun	months or below	Internal parasite	Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.

- Vaccinate with strain live vaccine @ one drop on eyes or nostril.

- Provide external heat source. As RH is likely to remain above 65%, check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @

vaccine (0.2 ml intra-muscularly) at 18-20 weeks.

diseases (viral, bacterial, fungal, protozoan).

5ml/lit of water.

Phone: 2414654, 2414260, 2414749; Fax: (0385) 2414654, 2414749 E-mail: agromet mnp@yahoo.co.uk



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th January, 2013 as given below:

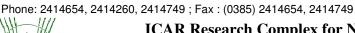
Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 2nd Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0 – 23.4 °C, range of minimum temperature observed was 1.4 - 2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5 - 2.5 km/hr.

Weather forecast for next five days of Chandel (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be 18.0 - 23.0 °C. The minimum temp. is likely to be 2.0 - 5.0°C. The maximum RH is likely to attain a max value of 77 %. Minimum RH is likely to reach a max of 54 %. The average wind speed during next five days may reach upto max. value of 8 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		•	
Zero tillage	Vegetative		- Top dress and irrigate.
Rapeseed			- Thinning must be done where plant population is high.
Rabi Maize	Vegetative		- Irrigation may be done.
			- After earthing up, top dress with nitrogen fertilizer when the plant is knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-
			seed bins after proper drying. Check for germination of seeds. Clean and
			dry the seeds.
Horticulture C			
			oking (using straw/ husk of rice) may be done in and around those crop field ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery		Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi
	-		Dwarf and Amit Sagar.
Citrus (Orange,	Seed collection		- Collect healthy & mature fruits from disease free tree and raise nursery.
Lemon, Lime)	& nursery		
			- In grown-up trees, remove water sprouts, dried leaves and dead branches
			and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be
D.P.L L	Fo. 141	A1.1.1	raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress
			with 25 kg DAP/ sangam followed earthing-up of ridges and light
			irrigation to keep the soil moist.
Pea	Vegetative to		- Avoid nipping of young shoots at vegetative stage as it will delay
	flowering		fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if
			incidence of powdery mildew is observed.
Cole crops	Nursery and		- Light and frequent watering is required.
	transplanting to		
	vegetative		
	Harvesting of		- Harvesting of Broccoli must be done when the head/ bud are compact,
	broccoli		before it gets open. Maintain stalk length of 10-15 cm while harvesting.



age groups

All susceptible

age groups Chick upto 5

days

Ranikhet

De-worming

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



"Integrated Agromet Advisory Services"

Einle eine			
Fisheries Type of Farm	ina	Agro-metrological a	dvicarias
 Depth of pond water level of may be reduce Feed should be 			e culture pond water with clean and fresh water regularly atter should be maintained at 1.0 – 1.5 m. If there is problem in maintaining ge area then thinning of fish population may be done and culture pond area Also, maintain stock density @ 5000 fishes/ ha. Even @ 2 % of body weight per day. Tregularly apply CIFAX/ lime in culture pond in small quantity at an interval
		and brush the animal / sp	pray the solution once/ twice in a week against external parasites (Mites) in
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder.
Cattle / Buffalo/	All age groups except three	FMD	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually.
Mithun	months or below	Internal parasite	Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.

- Vaccinate with strain live vaccine @ one drop on eyes or nostril.

- Provide external heat source. As RH is likely to remain above 65%, check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @

vaccine (0.2 ml intra-muscularly) at 18-20 weeks.

diseases (viral, bacterial, fungal, protozoan).

5ml/lit of water.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th January, 2013 as given below:

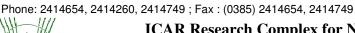
Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 2^{nd} Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0-23.4 °C, range of minimum temperature observed was 1.4-2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5-2.5 km/hr.

Weather forecast for next five days of Churachandpur (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be 18.0 - 21.0 °C. The minimum temp. is likely to be 2.0 - 4.0 °C. The maximum RH is likely to attain a max value of 88 %. Minimum RH is likely to reach a max of 62 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Zero tillage Rapeseed	Vegetative		- Top dress and irrigate Thinning must be done where plant population is high.
Rabi Maize	Vegetative		Irrigation may be done.After earthing up, top dress with nitrogen fertilizer when the plant is knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	rops		
			oking (using straw/ husk of rice) may be done in and around those crop field ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery		Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi Dwarf and Amit Sagar.
Citrus (Orange, Lemon, Lime)	Seed collection & nursery		 Collect healthy & mature fruits from disease free tree and raise nursery. In grown-up trees, remove water sprouts, dried leaves and dead branches and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress with 25 kg DAP/ sangam followed earthing-up of ridges and light irrigation to keep the soil moist.
Pea	Vegetative to flowering		- Avoid nipping of young shoots at vegetative stage as it will delay fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if incidence of powdery mildew is observed.
Cole crops	Nursery and transplanting to vegetative Harvesting of		 - Light and frequent watering is required. - Harvesting of Broccoli must be done when the head/ bud are compact,
	broccoli		before it gets open. Maintain stalk length of 10-15 cm while harvesting.



age groups

All susceptible

age groups Chick upto 5

days

Ranikhet

De-worming

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



"Integrated Agromet Advisory Services"

Einle eine			
Fisheries Type of Farm	ina	Agro-metrological a	dvicarias
 Depth of pond water level of may be reduce Feed should be 			e culture pond water with clean and fresh water regularly atter should be maintained at 1.0 – 1.5 m. If there is problem in maintaining ge area then thinning of fish population may be done and culture pond area Also, maintain stock density @ 5000 fishes/ ha. Even @ 2 % of body weight per day. Tregularly apply CIFAX/ lime in culture pond in small quantity at an interval
		and brush the animal / sp	pray the solution once/ twice in a week against external parasites (Mites) in
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder.
Cattle / Buffalo/	All age groups except three	FMD	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually.
Mithun	months or below	Internal parasite	Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.

- Vaccinate with strain live vaccine @ one drop on eyes or nostril.

- Provide external heat source. As RH is likely to remain above 65%, check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @

vaccine (0.2 ml intra-muscularly) at 18-20 weeks.

diseases (viral, bacterial, fungal, protozoan).

5ml/lit of water.

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th January, 2013 as given below:

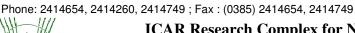
Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 2nd Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0 - 23.4 °C, range of minimum temperature observed was 1.4 - 2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5 - 2.5 km/hr.

Weather forecast for next five days of Imphal-East (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be 17.0 - 21.0 °C. The minimum temp. is likely to be 2.0 - 4.0 °C. The maximum RH is likely to attain a max value of 83 %. Minimum RH is likely to reach a max of 52 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		<u>.</u>	
Zero tillage Rapeseed	Vegetative		Top dress and irrigate.Thinning must be done where plant population is high.
Rabi Maize	Vegetative		- Irrigation may be done.
Rabi Maize	regettitre		- After earthing up, top dress with nitrogen fertilizer when the plant is knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-
			seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	rons		
- As the weather	is foggy during mo		oking (using straw/ husk of rice) may be done in and around those crop field ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery		Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi Dwarf and Amit Sagar.
Citrus (Orange, Lemon, Lime)	Seed collection & nursery		- Collect healthy & mature fruits from disease free tree and raise nursery.
			- In grown-up trees, remove water sprouts, dried leaves and dead branches and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress with 25 kg DAP/ sangam followed earthing—up of ridges and light irrigation to keep the soil moist.
Pea	Vegetative to flowering		- Avoid nipping of young shoots at vegetative stage as it will delay fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if incidence of powdery mildew is observed.
Cole crops	Nursery and transplanting to vegetative		- Light and frequent watering is required.
	Harvesting of broccoli		- Harvesting of Broccoli must be done when the head/ bud are compact, before it gets open. Maintain stalk length of 10-15 cm while harvesting.



age groups

All susceptible

age groups Chick upto 5

days

Ranikhet

De-worming

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



"Integrated Agromet Advisory Services"

T: 1 ·			
Fisheries Type of Farm	ina	A gro-metrological a	dvisories
Type of Farming Carp culture		 Agro-metrological advisories Renew half of the culture pond water with clean and fresh water regularly Depth of pond water should be maintained at 1.0 – 1.5 m. If there is problem in maintaining water level of large area then thinning of fish population may be done and culture pond area may be reduced. Also, maintain stock density @ 5000 fishes/ ha. Feed should be given @ 2 % of body weight per day. As a disinfectant, regularly apply CIFAX/ lime in culture pond in small quantity at an interval of 15-20 days. 	
		and brush the animal / sp	pray the solution once/ twice in a week against external parasites (Mites) in
Name of the animal Growth stage		Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder.
Cattle / Buffalo/	All age groups except three	FMD	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually.
Mithun	months or below	Internal parasite	Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.

- Vaccinate with strain live vaccine @ one drop on eyes or nostril.

- Provide external heat source. As RH is likely to remain above 65%, check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @

vaccine (0.2 ml intra-muscularly) at 18-20 weeks.

diseases (viral, bacterial, fungal, protozoan).

5ml/lit of water.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th January, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of $2^{\rm nd}$ Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0-23.4 °C, range of minimum temperature observed was 1.4-2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5-2.5 km/hr.

Weather forecast for next five days of Imphal- West (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be 1.0 - 20.0 °C. The minimum temp. is likely to be 1.0 - 3.0 °C. The maximum RH is likely to attain a max value of 72 %. Minimum RH is likely to reach a max of 66 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	-	
Zero tillage Rapeseed	Vegetative		Top dress and irrigate.Thinning must be done where plant population is high.
Rabi Maize	Vegetative		 Irrigation may be done. After earthing up, top dress with nitrogen fertilizer when the plant is knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	rops		
			oking (using straw/ husk of rice) may be done in and around those crop field ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery		Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi Dwarf and Amit Sagar.
Citrus (Orange, Lemon, Lime)	Seed collection & nursery		 Collect healthy & mature fruits from disease free tree and raise nursery. In grown-up trees, remove water sprouts, dried leaves and dead branches and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress with 25 kg DAP/ sangam followed earthing—up of ridges and light irrigation to keep the soil moist.
Pea	Vegetative to flowering		- Avoid nipping of young shoots at vegetative stage as it will delay fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if incidence of powdery mildew is observed.
Cole crops	Nursery and transplanting to vegetative		- Light and frequent watering is required.
	Harvesting of broccoli		- Harvesting of Broccoli must be done when the head/ bud are compact, before it gets open. Maintain stalk length of 10-15 cm while harvesting.



All susceptible

age groups

Chick upto 5 days

De-worming

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



"Integrated Agromet Advisory Services"

Fisheries				
Type of Farming		Agro-metrological advisories		
Carp culture		 Renew half of the culture pond water with clean and fresh water regularly Depth of pond water should be maintained at 1.0 – 1.5 m. If there is problem in maintaining water level of large area then thinning of fish population may be done and culture pond area may be reduced. Also, maintain stock density @ 5000 fishes/ ha. Feed should be given @ 2 % of body weight per day. As a disinfectant, regularly apply CIFAX/ lime in culture pond in small quantity at an interval of 15-20 days. 		
Animal Scien	ices			
	x @ 2 ml/lit of water a o/ Mithun, goat/ sheep		pray the solution once/ twice in a week against external parasites (Mites) in	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder. 	
Cattle / Buffalo/ Mithun	All age groups except three months or below	FMD Internal parasite	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually. Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.	
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.	
Poultry	age groups	Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. Give Lasota strain at 10-12 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). Give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Provide external heat source. As RH is likely to remain above 65%,	

5ml/lit of water.

check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th January, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of $2^{\rm nd}$ Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0-23.4 °C, range of minimum temperature observed was 1.4-2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5-2.5 km/hr.

Weather forecast for next five days of Senapati (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be 16.0 - 20.0 °C. The minimum temp. is likely to be 0.0 - 3.0 °C. The maximum RH is likely to attain a max value of 89 %. Minimum RH is likely to reach a max of 56 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Zero tillage	Vegetative		- Top dress and irrigate.
Rapeseed			- Thinning must be done where plant population is high.
Rabi Maize	Vegetative		- Irrigation may be done.
			- After earthing up, top dress with nitrogen fertilizer when the plant is
			knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-
			seed bins after proper drying. Check for germination of seeds. Clean and
			dry the seeds.
Horticulture C			
			oking (using straw/ husk of rice) may be done in and around those crop field
in which the crop	is in vegetative sta	ge, specially for solana	ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery		Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi
			Dwarf and Amit Sagar.
Citrus (Orange,	Seed collection		- Collect healthy & mature fruits from disease free tree and raise nursery.
Lemon, Lime)	& nursery		
			- In grown-up trees, remove water sprouts, dried leaves and dead branches
~			and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be
D. II. I	D 11	A 1 ' 1	raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress
			with 25 kg DAP/ sangam followed earthing-up of ridges and light
			irrigation to keep the soil moist.
Pea	Vegetative to		- Avoid nipping of young shoots at vegetative stage as it will delay
	flowering		fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if
			incidence of powdery mildew is observed.
Cole crops	Vegetative		- Light and frequent watering is required.



All susceptible

age groups

Chick upto 5 days

De-worming

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



"Integrated Agromet Advisory Services"

Fisheries				
Type of Farming		Agro-metrological advisories		
Carp culture		 Renew half of the culture pond water with clean and fresh water regularly Depth of pond water should be maintained at 1.0 – 1.5 m. If there is problem in maintaining water level of large area then thinning of fish population may be done and culture pond area may be reduced. Also, maintain stock density @ 5000 fishes/ ha. Feed should be given @ 2 % of body weight per day. As a disinfectant, regularly apply CIFAX/ lime in culture pond in small quantity at an interval of 15-20 days. 		
Animal Scien	ices			
	x @ 2 ml/lit of water a o/ Mithun, goat/ sheep		pray the solution once/ twice in a week against external parasites (Mites) in	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder. 	
Cattle / Buffalo/ Mithun	All age groups except three months or below	FMD Internal parasite	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually. Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.	
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.	
Poultry	age groups	Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. Give Lasota strain at 10-12 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). Give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Provide external heat source. As RH is likely to remain above 65%,	

5ml/lit of water.

check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Tamenglong

Name of the

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 9th to 13th January, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of $2^{\rm nd}$ Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0-23.4 °C, range of minimum temperature observed was 1.4-2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5-2.5 km/hr.

Pest and disease

Stage

broccoli

Weather forecast for next five days of Tamenglong (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be 20.0 - 23.0 °C. The minimum temp. is likely to be 3.0 - 6.0 °C. The maximum RH is likely to attain a max value of 75 %. Minimum RH is likely to reach a max of 59 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.

Agro-meteorological advisories

before it gets open. Maintain stalk length of 10-15 cm while harvesting.

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crop		infestation	
Field Crops			
Zero tillage	Vegetative		- Top dress and irrigate.
Rapeseed			- Thinning must be done where plant population is high.
Rabi Maize	Vegetative		- Irrigation may be done.
			- After earthing up, top dress with nitrogen fertilizer when the plant is knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	rons		1 J
		rning and evening, smo	oking (using straw/ husk of rice) may be done in and around those crop field
			ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery		Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi
			Dwarf and Amit Sagar.
Citrus (Orange,	Seed collection		- Collect healthy & mature fruits from disease free tree and raise nursery.
Lemon, Lime)	& nursery		
			- In grown-up trees, remove water sprouts, dried leaves and dead branches and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress with 25 kg DAP/ sangam followed earthing—up of ridges and light irrigation to keep the soil moist.
Pea	Vegetative to		- Avoid nipping of young shoots at vegetative stage as it will delay
	flowering		fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if
			incidence of powdery mildew is observed.
Cole crops	Nursery and		- Light and frequent watering is required.
	transplanting to		
	vegetative		
	Harvesting of		- Harvesting of Broccoli must be done when the head/ bud are compact,



All susceptible

age groups

Chick upto 5 days

De-worming

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



"Integrated Agromet Advisory Services"

Fisheries				
Type of Farming		Agro-metrological advisories		
Carp culture		 Renew half of the culture pond water with clean and fresh water regularly Depth of pond water should be maintained at 1.0 – 1.5 m. If there is problem in maintaining water level of large area then thinning of fish population may be done and culture pond area may be reduced. Also, maintain stock density @ 5000 fishes/ ha. Feed should be given @ 2 % of body weight per day. As a disinfectant, regularly apply CIFAX/ lime in culture pond in small quantity at an interval of 15-20 days. 		
Animal Scien	ices			
	x @ 2 ml/lit of water a o/ Mithun, goat/ sheep		pray the solution once/ twice in a week against external parasites (Mites) in	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder. 	
Cattle / Buffalo/ Mithun	All age groups except three months or below	FMD Internal parasite	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually. Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.	
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.	
Poultry	age groups	Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. Give Lasota strain at 10-12 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). Give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Provide external heat source. As RH is likely to remain above 65%,	

5ml/lit of water.

check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th January, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of $2^{\rm nd}$ Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0-23.4 °C, range of minimum temperature observed was 1.4-2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5-2.5 km/hr.

Weather forecast for next five days of Thoubal (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be $18.0 - 22.0\,^{\circ}\text{C}$. The minimum temp. is likely to be $2.0 - 4.0\,^{\circ}\text{C}$. The maximum RH is likely to attain a max value of $76\,^{\circ}\text{C}$. Minimum RH is likely to reach a max of $50\,^{\circ}\text{C}$. The average wind speed during next five days may reach upto max. value of $4\,\text{km/hr}$.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Zero tillage Rapeseed	Vegetative		- Top dress and irrigate Thinning must be done where plant population is high.
Rabi Maize	Vegetative		 Irrigation may be done. After earthing up, top dress with nitrogen fertilizer when the plant is knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	rops		
			oking (using straw/ husk of rice) may be done in and around those crop field ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery		Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi Dwarf and Amit Sagar.
Citrus (Orange, Lemon, Lime)	Seed collection & nursery		 Collect healthy & mature fruits from disease free tree and raise nursery. In grown-up trees, remove water sprouts, dried leaves and dead branches and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress with 25 kg DAP/ sangam followed earthing—up of ridges and light irrigation to keep the soil moist.
Pea	Vegetative to flowering		- Avoid nipping of young shoots at vegetative stage as it will delay fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if incidence of powdery mildew is observed.
Cole crops	Nursery and transplanting to vegetative		- Light and frequent watering is required.
İ	Harvesting of broccoli		- Harvesting of Broccoli must be done when the head/ bud are compact, before it gets open. Maintain stalk length of 10-15 cm while harvesting.



All susceptible

age groups

Chick upto 5 days

De-worming

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



"Integrated Agromet Advisory Services"

Fisheries				
Type of Farming		Agro-metrological advisories		
Carp culture		 Renew half of the culture pond water with clean and fresh water regularly Depth of pond water should be maintained at 1.0 – 1.5 m. If there is problem in maintaining water level of large area then thinning of fish population may be done and culture pond area may be reduced. Also, maintain stock density @ 5000 fishes/ ha. Feed should be given @ 2 % of body weight per day. As a disinfectant, regularly apply CIFAX/ lime in culture pond in small quantity at an interval of 15-20 days. 		
Animal Scien	ices			
	x @ 2 ml/lit of water a o/ Mithun, goat/ sheep		pray the solution once/ twice in a week against external parasites (Mites) in	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder. 	
Cattle / Buffalo/ Mithun	All age groups except three months or below	FMD Internal parasite	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually. Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.	
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.	
Poultry	age groups	Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. Give Lasota strain at 10-12 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). Give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Provide external heat source. As RH is likely to remain above 65%,	

5ml/lit of water.

check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th January, 2013

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th January, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th January, 2013)

During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of $2^{\rm nd}$ Jan. No rainfall was recorded during past four days. Maximum temperature range observed was 18.0-23.4 °C, range of minimum temperature observed was 1.4-2.5 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 40.0 % respectively. The average wind speed range was 1.5-2.5 km/hr.

Weather forecast for next five days of Ukhrul (9th to 13th January, 2013)

There is likely of no rain during next five days. The sky is likely to clear to mainly clear. The maximum temp. is likely to be $15.0 - 20.0\,^{\circ}$ C. The minimum temp. is likely to be $0.0 - 3.0\,^{\circ}$ C. The maximum RH is likely to attain a max value of 77 %. Minimum RH is likely to reach a max of 59 %. The average wind speed during next five days may reach upto max. value of 8 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Zero tillage	Vegetative		- Top dress and irrigate.
Rapeseed			- Thinning must be done where plant population is high.
Rabi Maize	Vegetative		- Irrigation may be done.
			- After earthing up, top dress with nitrogen fertilizer when the plant is knee high.
Storage			- Seeds of crops like rice, soybean, groundnut, etc. must be stored in RC-
l			seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	rops		1 - 7
		rning and evening, smo	oking (using straw/ husk of rice) may be done in and around those crop field
			ceae crop. Irrigation may be done to keep soil moist.
Papaya	Nursery	•	Sowing may be done. Recommended varieties are- Coorg Honey, Ranchi
			Dwarf and Amit Sagar.
Citrus (Orange,	Seed collection		- Collect healthy & mature fruits from disease free tree and raise nursery.
Lemon, Lime)	& nursery		
			- In grown-up trees, remove water sprouts, dried leaves and dead branches and paint the cut ends with Bordeaux paste.
Cucurbits	Nursery		Nurseries of gourd, sponge gourd, bitter gourd, pumpkin, etc. may be
			raised in polybags (2x3 inches) or pro-trays under polyhouse.
Dolichos bean	Fruiting	Aphid	- Watering to wash off the aphid is required as the crop is in fruiting stage.
Onion/ Garlic	Vegetative		- Light and frequent watering is required.
Potato	Vegetative		- For crop in vegetative stage (40-45 days) with 4-6 leaves stage, top dress
			with 25 kg DAP/ sangam followed earthing-up of ridges and light
			irrigation to keep the soil moist.
Pea	Vegetative to		- Avoid nipping of young shoots at vegetative stage as it will delay
	flowering		fruiting and reduce the yield. Spray Bayleton @ 0.7g/ 10 lit of water if
Cole crops	Vegetative		incidence of powdery mildew is observed. - Light and frequent watering is required.
Cole Crops	Vegetative		- Light and request watering is required.



All susceptible

age groups

Chick upto 5 days

De-worming

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



"Integrated Agromet Advisory Services"

Fisheries				
Type of Farming		Agro-metrological advisories		
Carp culture		 Renew half of the culture pond water with clean and fresh water regularly Depth of pond water should be maintained at 1.0 – 1.5 m. If there is problem in maintaining water level of large area then thinning of fish population may be done and culture pond area may be reduced. Also, maintain stock density @ 5000 fishes/ ha. Feed should be given @ 2 % of body weight per day. As a disinfectant, regularly apply CIFAX/ lime in culture pond in small quantity at an interval of 15-20 days. 		
Animal Scien	ices			
	x @ 2 ml/lit of water a o/ Mithun, goat/ sheep		pray the solution once/ twice in a week against external parasites (Mites) in	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Pig	Above 3 months of age All susceptible age groups	Internal parasite Swine Fever Coccidiosis	 - De-worm using Panacur @ 1 tab/10 kg body weight orally once only and repeat after one month. - Vaccinate against Swine Fever (animals of above 3 months of age). - Advocate Metaprim @ 2g/10 kg body weight for 5-7 days, include electrolyte powder. 	
Cattle / Buffalo/ Mithun	All age groups except three months or below	FMD Internal parasite	- FMD vaccination maybe done at the first age of 4 months. It must be repeated after 6 months then annually. Nilzan @ 0.33 ml/kg body weight once especially in lower altitudes.	
	All susceptible	Coccidiosis	Give Supercox@1g/lit of water for 4 – 5 days.	
Poultry	age groups	Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. Give Lasota strain at 10-12 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). Give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. - Provide external heat source. As RH is likely to remain above 65%,	

5ml/lit of water.

check for damping in litter material. If found, replace it, as it may cause less production in layers and respiratory disease in chicks due to high Ammonia and reduced Oxygen content leading to growth retardation (environmentally induced nutritional stress). Also, it may lead to many

- De-worm with Piperazine Hexahydrate @ 20 ml/ 3.5 lit and repeat after

- Provide Furavet powder @ 1 g/ 2 lit of drinking water and Vimeral @