



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

8th August, 2014

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 7th August, 2014)

During past three days sky was partly cloudy to mainly cloudy. **15.3 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.5 – 32.7 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 87.7 % and 63.3 % respectively. The average wind speed range was 0.6 – 3.9 km/hr.

Weather forecast for next five days of Churachandpur (9th to 13th August, 2014)

There may be light to moderate rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 88 % (minimum RH). The average wind speed may be 4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		<ul style="list-style-type: none"> - One hand weeding may be done at 20-30 days after transplanting. - Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. - Maintain water level of 5-8cm. - Ridges should be well constructed to avoid draining out of water.
		Thrips & Leaf folder	<ul style="list-style-type: none"> - Spray Lambdacythothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - Cobs should be sundried properly before storage.
Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
Early Cauliflower	Nursery		<ul style="list-style-type: none"> - Land preparation of main field for transplanting may be started. - Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
Citrus	Nursery		<ul style="list-style-type: none"> - Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	<ul style="list-style-type: none"> - Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.



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Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously.
Pig	Above 3 months of age (as and when required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @ 1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.
		Fish	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.
Paddy cum fish culture	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

SMS:

Lakliba Yumshakeisa faoba nong khara chuba yai. Phou da haar happa matamda hectare amada 16-24 kg Carbofuran (3G) happiyu. Oo-morok maheida laina ngakthoknaba eeshing litre amada 2g Redomil Gold + eeshing litre 10 da 3ml Imidacloprid happaga kaphthokpiyu. Shan/ Eroida enthamthada B.Q. naraktanaba B.Q. vaccine kaphthokpiyu.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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MANIPUR BULLETIN

8th August, 2014

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th August, 2014 as given below:

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During past three days sky was partly cloudy to mainly cloudy. **15.3 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.5 – 32.7 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 87.7 % and 63.3 % respectively. The average wind speed range was 0.6 – 3.9 km/hr.

Weather forecast for next five days of Imphal-East (9th to 13th August, 2014)

There may be light to moderate rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 68 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		<ul style="list-style-type: none"> - One hand weeding may be done at 20-30 days after transplanting. - Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. - Maintain water level of 5-8cm. - Ridges should be well constructed to avoid draining out of water.
		Thrips & Leaf folder	<ul style="list-style-type: none"> - Spray Lambdacythothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - Cobs should be sundried properly before storage.
Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
Early Cauliflower	Nursery		<ul style="list-style-type: none"> - Land preparation of main field for transplanting may be started. - Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
Citrus	Nursery		<ul style="list-style-type: none"> - Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	<ul style="list-style-type: none"> - Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.



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Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously.
Pig	Above 3 months of age (as and when required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
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Weather forecast for next five days of Imphal-West (9th to 13th August, 2014)

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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
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		Thrips & Leaf folder	<ul style="list-style-type: none"> - Spray Lambdacythothrin @ 15 ml/ pump.
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Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
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Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously.
Pig	Above 3 months of age (as and when required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
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Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
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		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
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	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @ 1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.
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		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.
Paddy cum fish culture	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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Senapati

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Weather forecast for next five days of Senapati (9th to 13th August, 2014)

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Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
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Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
Early Cauliflower	Nursery		<ul style="list-style-type: none"> - Land preparation of main field for transplanting may be started. - Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
Citrus	Nursery		<ul style="list-style-type: none"> - Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	<ul style="list-style-type: none"> - Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.



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



“Integrated Agromet Advisory Services”

Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously.
Pig	Above 3 months of age (as and when required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @ 1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.
		Fish	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.
Paddy cum fish culture	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

SMS:

Lakliba Yumshakeisa faoba nong khara chuba yai. Phou da haar happa matamda hectare amada 16-24 kg Carbofuran (3G) happiyu. Oo-morok maheida laina ngakthoknaba eeshing litre amada 2g Redomil Gold + eeshing litre 10 da 3ml Imidacloprid happaga kaphthokpiyu. Shan/ Eroida enthamthada B.Q. naraktanaba B.Q. vaccine kaphthokpiyu.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

8th August, 2014

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 7th August, 2014)

During past three days sky was partly cloudy to mainly cloudy. **15.3 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.5 – 32.7 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 87.7 % and 63.3 % respectively. The average wind speed range was 0.6 – 3.9 km/hr.

Weather forecast for next five days of Tamenglong (9th to 13th August, 2014)

There may be light to moderate rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 23.0 – 24.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 75 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of <i>Main Kharif</i>		<ul style="list-style-type: none"> - One hand weeding may be done at 20-30 days after transplanting. - Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. - Maintain water level of 5-8cm. - Ridges should be well constructed to avoid draining out of water.
		Thrips & Leaf folder	<ul style="list-style-type: none"> - Spray Lambdacythothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - Cobs should be sundried properly before storage.
Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
Early Cauliflower	Nursery		<ul style="list-style-type: none"> - Land preparation of main field for transplanting may be started. - Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
Citrus	Nursery		<ul style="list-style-type: none"> - Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	<ul style="list-style-type: none"> - Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.



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Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously.
Pig	Above 3 months of age (as and when required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @ 1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.
		Fish	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.
Paddy cum fish culture	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

SMS:

Lakliba Yumshakeisa faoba nong khara chuba yai. Phou da haar happa matamda hectare amada 16-24 kg Carbofuran (3G) happiyu. Oo-morok maheida laina ngakthoknaba eeshing litre amada 2g Redomil Gold + eeshing litre 10 da 3ml Imidacloprid happaga kaphthokpiyu. Shan/ Eroida enthamthada B.Q. naraktanaba B.Q. vaccine kaphthokpiyu.

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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 August, 2014

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 7th August, 2014)

During past three days sky was partly cloudy to mainly cloudy. **15.3 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.5 – 32.7 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 87.7 % and 63.3 % respectively. The average wind speed range was 0.6 – 3.9 km/hr.

Weather forecast for next five days of Thoubal (9th to 13th August, 2014)

There may be light to moderate rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 80 % (minimum RH). The average wind speed may be 4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of <i>Main Kharif</i>		<ul style="list-style-type: none"> - One hand weeding may be done at 20-30 days after transplanting. - Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. - Maintain water level of 5-8cm. - Ridges should be well constructed to avoid draining out of water.
		Thrips & Leaf folder	<ul style="list-style-type: none"> - Spray Lambdacythothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - Cobs should be sundried properly before storage.
Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
Early Cauliflower	Nursery		<ul style="list-style-type: none"> - Land preparation of main field for transplanting may be started. - Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
Citrus	Nursery		<ul style="list-style-type: none"> - Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	<ul style="list-style-type: none"> - Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.



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



“Integrated Agromet Advisory Services”

Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously.
Pig	Above 3 months of age (as and when required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @ 1500kg/ha. Maintained p^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.
		Fish	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.
Paddy cum fish culture	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

SMS:

Lakliba Yumshakeisa faoba nong khara chuba yai. Phou da haar happa matamda hectare amada 16-24 kg Carbofuran (3G) happiyu. Oo-morok maheida laina ngakthoknaba eeshing litre amada 2g Redomil Gold + eeshing litre 10 da 3ml Imidacloprid happaga kaphthokpiyu. Shan/ Eroida enthamthada B.Q. naraktanaba B.Q. vaccine kaphthokpiyu.

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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

8th August, 2014

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 7th August, 2014)

During past three days sky was partly cloudy to mainly cloudy. **15.3 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.5 – 32.7 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 87.7 % and 63.3 % respectively. The average wind speed range was 0.6 – 3.9 km/hr.

Weather forecast for next five days of Ukhrul (9th to 13th August, 2014)

There may be light to moderate rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 73 % (minimum RH). The average wind speed may be 4-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of <i>Main Kharif</i>		<ul style="list-style-type: none"> - One hand weeding may be done at 20-30 days after transplanting. - Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. - Maintain water level of 5-8cm. - Ridges should be well constructed to avoid draining out of water.
		Thrips & Leaf folder	<ul style="list-style-type: none"> - Spray Lambdacythothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - Cobs should be sundried properly before storage.
Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
Early Cauliflower	Nursery		<ul style="list-style-type: none"> - Land preparation of main field for transplanting may be started. - Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
Citrus	Nursery		<ul style="list-style-type: none"> - Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	<ul style="list-style-type: none"> - Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.



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



“Integrated Agromet Advisory Services”

Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously.
Pig	Above 3 months of age (as and when required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @ 1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.
		Fish	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.
Paddy cum fish culture	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

SMS:

Lakliba Yumshakeisa faoba nong khara chuba yai. Phou da haar happa matamda hectare amada 16-24 kg Carbofuran (3G) happiyu. Oo-morok maheida laina ngakthoknaba eeshing litre amada 2g Redomil Gold + eeshing litre 10 da 3ml Imidacloprid happaga kaphthokpiyu. Shan/ Eroida enthamthada B.Q. naraktanaba B.Q. vaccine kaphthokpiyu.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

8th August, 2014

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 7th August, 2014)

During past three days sky was partly cloudy to mainly cloudy. **15.3 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.5 – 32.7 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 87.7 % and 63.3 % respectively. The average wind speed range was 0.6 – 3.9 km/hr.

Weather forecast for next five days of Bishnupur (9th to 13th August, 2014)

There may be light to moderate rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 32.0 – 33.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 81 % (minimum RH). The average wind speed may be 4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of <i>Main Kharif</i>		<ul style="list-style-type: none"> - One hand weeding may be done at 20-30 days after transplanting. - Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. - Maintain water level of 5-8cm. - Ridges should be well constructed to avoid draining out of water.
		Thrips & Leaf folder	<ul style="list-style-type: none"> - Spray Lambdacythothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - Cobs should be sundried properly before storage.
Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
Early Cauliflower	Nursery		<ul style="list-style-type: none"> - Land preparation of main field for transplanting may be started. - Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
Citrus	Nursery		<ul style="list-style-type: none"> - Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	<ul style="list-style-type: none"> - Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.



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

Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously.
Pig	Above 3 months of age (as and when required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @ 1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.
		Fish	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.
Paddy cum fish culture	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

SMS:

Lakliba Yumshakeisa faoba nong khara chuba yai. Phou da haar happa matamda hectare amada 16-24 kg Carbofuran (3G) happiyu. Oo-morok maheida laina ngakthoknaba eeshing litre amada 2g Redomil Gold + eeshing litre 10 da 3ml Imidacloprid happaga kaphthokpiyu. Shan/ Eroida enthamthada B.Q. naraktanaba B.Q. vaccine kaphthokpiyu.

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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

8th August, 2014

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 7th August, 2014)

During past three days sky was partly cloudy to mainly cloudy. **15.3 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.5 – 32.7 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 87.7 % and 63.3 % respectively. The average wind speed range was 0.6 – 3.9 km/hr.

Weather forecast for next five days of Chandel (9th to 13th August, 2014)

There may be light to moderate rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 23.0 – 24.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 81 % (minimum RH). The average wind speed may be 5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of <i>Main Kharif</i>		<ul style="list-style-type: none"> - One hand weeding may be done at 20-30 days after transplanting. - Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. - Maintain water level of 5-8cm. - Ridges should be well constructed to avoid draining out of water.
		Thrips & Leaf folder	<ul style="list-style-type: none"> - Spray Lambdacythothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - Cobs should be sundried properly before storage.
Soybean / Groundnut	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> - Hand weeding should be done. - Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		Tikka disease	
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean & Papaya	Planting		<ul style="list-style-type: none"> - Transplant raised nursery in the foot-hills or upland area.
Chilli	Fruiting to harvesting	- Anthracnose	<ul style="list-style-type: none"> - Harvest mature fruits and spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval against Anthracnose.
Early Cauliflower	Nursery		<ul style="list-style-type: none"> - Land preparation of main field for transplanting may be started. - Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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King Chilli	Fruiting	Fruit rot and aphid	<ul style="list-style-type: none"> - Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.



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“Integrated Agromet Advisory Services”

Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
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		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.

Fishery:

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		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning.
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