



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016)

The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.

Weather forecast for next five days of Imphal East (4th to 8th June, 2016)

Likely to have light rain upto Wednesday. Sky will remain fair to mainly cloudy, with maximum temp. 28.0 to 31.0 °C & minimum temp. 21.0 to 22.0 °C. Relative humidity may reach upto 96 % (max RH) & 46 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be Westerly to Northerly during the next five days.

Weather outlook for subsequence 2 days from 8th to 10th June, 2016**Rain/thunderstorm likely at many places over northeastern states**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016)

The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.

Weather forecast for next five days of Imphal West (4th to 8th June, 2016)

Likely to have light rain upto Wednesday. Sky will remain fair to mainly cloudy, with maximum temp. 29.0 to 33.0 °C & minimum temp. 22.0 to 23.0 °C. Relative humidity may reach upto 97 % (max RH) & 46 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South-west Westerly to North-west Westerly during the next five days.

Weather outlook for subsequence 2 days from 8th to 10th June, 2016**Rain/thunderstorm likely at many places over northeastern states**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016) The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.	Weather forecast for next five days of Senapati (4th to 8th June, 2016) Likely to have light rain upto Wednesday. Sky will remain fair to mainly cloudy, with maximum temp. 29.0 to 33.0 °C & minimum temp. 21.0 to 22.0 °C. Relative humidity may reach upto 92 % (max RH) & 43 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be Westerly to North North-Westerly during the next five days.
--	---

Weather outlook for subsequence 2 days from 8th to 10th June, 2016**Rain/thunderstorm likely at many places over northeastern states**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016)

The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.

Weather forecast for next five days of Tamenglong (4th to 8th June, 2016)

Likely to have light rain upto Wednesday. Sky will remain fair to mainly cloudy, with maximum temp. 28.0 to 31.0 °C & minimum temp. 18.0 to 20.0 °C. Relative humidity may reach upto 98 % (max RH) & 47 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South South-Westerly to South West-Westerly during the next five days.

Weather outlook for subsequence 2 days from 8th to 10th June, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016) The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.	Weather forecast for next five days of Thoubal (4th to 8th June, 2016) Likely to have light rain upto Wednesday. Sky will remain variable to overcast, with maximum temp. 30.0 to 34.0 °C & minimum temp. 22.0 to 23.0 °C. Relative humidity may reach upto 96 % (max RH) & 51 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be Westerly to North-Westerly during the next five days.
--	---

Weather outlook for subsequence 2 days from 8th to 10th June, 2016**Rain/thunderstorm likely at many places over northeastern states**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016)

The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.

Weather forecast for next five days of Ukhrul (4th to 8th June, 2016)

Likely to have light to moderate rain upto Wednesday. Sky will remain fair to overcast, with maximum temp. 29.0 to 33.0 °C & minimum temp. 20.0 to 22.0 °C. Relative humidity may reach upto 94 % (max RH) & 48 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South-West Westerly to North-Westerly during the next five days.

Weather outlook for subsequence 2 days from 8th to 10th June, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016)

The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.

Weather forecast for next five days of Bishnupur (4th to 8th June, 2016)

Likely to have light rain upto Wednesday. Sky will remain fair to overcast, with maximum temp. 28.0 to 31.0 °C & minimum temp. 21.0 to 23.0 °C. Relative humidity may reach upto 97 % (max RH) & 50 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South-west Westerly to Westerly during the next five days.

Weather outlook for subsequence 2 days from 8th to 10th June, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016) The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.	Weather forecast for next five days of Chandel (4th to 8th June, 2016) Likely to have light to moderate rain upto Wednesday. Sky will remain variable to overcast, with maximum temp. 28.0 to 31.0 °C & minimum temp. 21.0 to 22.0 °C. Relative humidity may reach upto 96 % (max RH) & 52 % (min RH). The average wind speed may be 3-5 km/hr. Wind direction may be South-west Westerly to Westerly during the next five days.
--	--

Weather outlook for subsequence 2 days from 8th to 10th June, 2016**Rain/thunderstorm likely at many places over northeastern states**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****3rd June, 2016****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 4th to 8th June, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31st May to 2nd June, 2016)

The sky was fair to variable. Rainfall of 0.0 mm was recorded during past three days. Maximum temperature range observed was 31.6 to 32.6 °C, range of minimum temperature observed was 23.0 to 25.0 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.

Weather forecast for next five days of Churachandpur (4th to 8th June, 2016)

Likely to have light rain upto Wednesday. Sky will remain fair to mainly cloudy, with maximum temp. 30.0 to 33.0 °C & minimum temp. 21.0 to 22.0 °C. Relative humidity may reach upto 98 % (max RH) & 51 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South South-easterly to Southerly during the next five days.

Weather outlook for subsequence 2 days from 8th to 10th June, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Grain filling-Maturity		<ul style="list-style-type: none"> ➤ Drain out the field in flooded areas. ➤ Repair bunds to check from re-flooding
Main kharif rice	Land preparation for sowing		<ul style="list-style-type: none"> ➤ Prepare 700m² of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day. ➤ Plough the main field
Groundnut	Seedling stage		<ul style="list-style-type: none"> ➤ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to seedling		<ul style="list-style-type: none"> ➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. ➤ Drain out the field
Rabi Maize	Cob Maturity		<ul style="list-style-type: none"> ➤ Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul style="list-style-type: none"> ➤ Spray Thiram or Captan @3Kg/ha
Ginger/ Turmeric	Initial Growth	Rot	<ul style="list-style-type: none"> ➤ Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul style="list-style-type: none"> ➤ Crops under water should be harvested immediately
Papaya, tree bean, mango	Transplanting		<ul style="list-style-type: none"> ➤ As most of the valley land is wet due to incessant rain, it will be wise to transplant papaya plant/tree bean/ mango and other fruit plants in the upland areas provided already quality planting material is available <ol style="list-style-type: none"> 1. For papaya: at least 2-3 months old seedling 2. Tree bean: more than 1 year old 3. Mango: more than 1 year old seedling/ grafted
Other vegetable crops	Weeding		<ul style="list-style-type: none"> ➤ As soon as the field condition permits, weeding should be done for the standing crops which is not affected by flood
Water mimosa (Neptunia Oleracea)	Planting		<ul style="list-style-type: none"> ➤ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft. ➤ Use new slips having atleast 4-5 nodes ➤ Maintain spacing of 3mX3m, plant 3 slips/hill-slips may be tied with a polythene rope or pegging may be done with a small pole whichever is convenient. ➤ Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval. ➤ Seed rate: 840 steps/sangam

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none"> ➤ Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehydration, loss of appetite and decrease in egg production/body weight.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



			<ul style="list-style-type: none"> ➤ Advocate multivitamins @20ml for 100 layer ➤ Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups excepts the young ones	Care & management	<ul style="list-style-type: none"> ➤ If the sheep have not yet been sheared, shearing of fur must be done this month/days. ➤ Give multivitamins @15ml/animal for 7 days.
Pig	All age groups except the young ones	Care and management	<ul style="list-style-type: none"> ➤ Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 ltr of water) can also be used. ➤ Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	<ul style="list-style-type: none"> ➤ If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Endoparasites	<ul style="list-style-type: none"> ➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	<ul style="list-style-type: none"> ➤ Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight. ➤ Mix enough quantity salts in feed and water ➤ If the animals do not have access to green fodders, vitamin A injection/ supplements should be given. ➤ Food supplements may be given @20-30 gm/animals. ➤ Plenty of drinking water must be provided. ➤ Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.
	Milch cow	Mastitis	<ul style="list-style-type: none"> ➤ To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	<ul style="list-style-type: none"> ➤ Flooded Pond water should be maintained clean. ➤ Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
		For quality fish seed production	<ul style="list-style-type: none"> ➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed	Provide feed 1-2 times @ 3 % body weight per day.
		Fish	<ul style="list-style-type: none"> ➤ Male and female brooders should be stock in separate ponds for breeding programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Scientist i/c, IAAS