

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

E-mail: agromet\_mnp@yahoo.co.uk

"Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31 <sup>st</sup> May to 2 <sup>nd</sup> June, 2016)	Weather forecast for next five days of Imphal East (4 <sup>th</sup> to 8 <sup>th</sup> June, 2016)
The sky was fair to variable. Rainfall of 0.0 mm was recorded during past	Likely to have light rain upto Wednesday. Sky will remain fair to mainly
three days. Maximum temperature range observed was 31.6 to 32.6 °C,	cloudy, with maximum temp. 28.0 to 31.0 ° C & minimum temp. 21.0 to
range of minimum temperature observed was 23.0 to 25.0 ° C, mean	22.0 °C. Relative humidity may reach upto 96 % (max RH) & 46 % (min
relative humidity observed in morning and afternoon were 85.7 % and	RH). The average wind speed may be 2-3 km/hr. Wind direction may be
68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.	Westerly to Northerly during the next five days.

### Weather outlook for subsequence 2 days from 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		Repair bunds to check from re-flooding
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			<ul><li>Plough the main field</li></ul>
Groundnut	Seedling stage		> Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul> <li>Spray Thiram or Captan @3Kg/ha</li> </ul>
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
Papaya, tree bean, mango	Transplanting		<ul> <li>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</li> <li>1. For papaya: at least 2-3 months old seedling</li> <li>2. Tree bean: more than 1 year old</li> <li>3. Mango: more than 1 year old seedling/ grafted</li> </ul>
Other vegetable crops	Weeding		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> <li>Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.</li> <li>Use new slips having atleast 4-5 nodes</li> <li>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.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.</li> <li>Seed rate: 840 steps/sangam</li> </ul>

Name of the animal	Growth stage	Disease/ infestation		Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	A	Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehtdration, 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"



			Advocate multivitamins @20ml for 100 layer
			Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups	Care & management	If the sheep have not yet been sheared, shearing of fur must be done this
	excepts the		month/days.
	young ones		Give multivitamins @15ml/animal for 7 days.
Pig	All age groups	Care and management	Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon
	except the		Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-
	young ones		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	B.Q./ H.S/FMD	> If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
	young ones		
		Endoparasites	Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	> 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	> To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/	Pond and water	Flooded Pond water should be maintained clean.
-	fingerlings/		Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
	brooders	For quality fish seed	Only matured and ripe brooders should be selected for breeding.
		production	Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body
		End	weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed Fish	Provide feed 1-2 times @ 3 % body weight per day.
		F1811	Male and female brooders should be stock in separate ponds for breeding programs for IMC's 8 indigeneus Carne.
			programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)



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"Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31 <sup>st</sup> May to 2 <sup>nd</sup> June, 2016)	Weather forecast for next five days of Imphal West (4 <sup>th</sup> to 8 <sup>th</sup> 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,	Likely to have light rain upto Wednesday. Sky will remain fair to mainly should with maximum terms $22.0 \times 22.0 \times C$ & minimum terms $22.0 \times C$
range of minimum temperature observed was 23.0 to 25.0 ° C, mean	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
relative humidity observed in morning and afternoon were 85.7 % and	RH). The average wind speed may be 2-3 km/hr. Wind direction may be
68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.	South-west Westerly to North-west Westerly during the next five days.

### Weather outlook for subsequence 2 days from 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		Repair bunds to check from re-flooding
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			Plough the main field
Groundnut	Seedling stage		Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	Spray Thiram or Captan @3Kg/ha
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water- melon, pumpkin, bitter	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
gourd, etc.)			
Papaya, tree bean,	Transplanting		➤ As most of the valley land is wet due to incessant rain, it will be wise to
mango	1 0		transplant papaya plant/tree bean/ mango and other fruit plants in the
			upland areas provided already quality planting material is available
			1. For papaya: at least 2-3 months old seedling
			<ol> <li>Tree bean: more than 1 year old</li> <li>Mango: more than 1 year old seedling/ grafted</li> </ol>
Other vegetable	Weeding		<ul> <li>As soon as the field condition permits, weeding should be done for the</li> </ul>
crops	it county		standing crops which is not affected by flood
Water mimosa	Planting		➢ Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.
(Neptunia Oleracea)	-		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.
			<ul> <li>Convenient.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and</li> </ul>
			weather at 10-15 days interval.
			<ul> <li>Seed rate: 840 steps/sangam</li> </ul>

Name of the animal	Growth stage	Disease/ infestation		Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	A	Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehtdration, 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"



			Advocate multivitamins @20ml for 100 layer
			Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups	Care & management	If the sheep have not yet been sheared, shearing of fur must be done this
	excepts the		month/days.
	young ones		Give multivitamins @15ml/animal for 7 days.
Pig	All age groups	Care and management	Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon
	except the		Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-
	young ones		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	B.Q./ H.S/FMD	> If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
	young ones		
		Endoparasites	Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	> 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	> To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/	Pond and water	Flooded Pond water should be maintained clean.
-	fingerlings/		Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
	brooders	For quality fish seed	Only matured and ripe brooders should be selected for breeding.
		production	Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body
		End	weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed Fish	Provide feed 1-2 times @ 3 % body weight per day.
		F1811	Male and female brooders should be stock in separate ponds for breeding programs for IMC's 8 indigeneus Carne.
			programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

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**"Gramin Krishi Mausam Seva"** 

E-mail: agromet\_mnp@yahoo.co.uk



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

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

### Weather outlook for subsequence 2 days from 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		Repair bunds to check from re-flooding
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			Plough the main field
Groundnut	Seedling stage		> Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	Spray Thiram or Captan @3Kg/ha
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
Papaya, tree bean, mango	Transplanting		<ul> <li>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> <li>For papaya: at least 2-3 months old seedling</li> <li>Tree bean: more than 1 year old</li> <li>Mango: more than 1 year old seedling/ grafted</li> </ol> </li> </ul>
Other vegetable crops	Weeding		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> <li>Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.</li> <li>Use new slips having atleast 4-5 nodes</li> <li>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.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.</li> <li>Seed rate: 840 steps/sangam</li> </ul>

Name of the animal	Growth stage	Disease/ infestation		Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	A	Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehtdration, 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"



			Advocate multivitamins @20ml for 100 layer
			Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups	Care & management	If the sheep have not yet been sheared, shearing of fur must be done this
	excepts the		month/days.
	young ones		Give multivitamins @15ml/animal for 7 days.
Pig	All age groups	Care and management	Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon
	except the		Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-
	young ones		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	B.Q./ H.S/FMD	> If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
	young ones		
		Endoparasites	Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	> 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	> To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/	Pond and water	Flooded Pond water should be maintained clean.
-	fingerlings/		Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
	brooders	For quality fish seed	Only matured and ripe brooders should be selected for breeding.
		production	Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body
		End	weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed Fish	Provide feed 1-2 times @ 3 % body weight per day.
		F1811	Male and female brooders should be stock in separate ponds for breeding programs for IMC's 8 indigeneus Carne.
			programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)



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"Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

Weather forecast for next five days of Tamenglong (4 <sup>th</sup> to 8 <sup>th</sup> June, 2016)
Likely to have light rain upto Wednesday. Sky will remain fair to mainly cloudy, with maximum temp. 28.0 to $31.0^{\circ}$ C & minimum temp. 18.0 to $20.0^{\circ}$ C Balating huminity means upto 18.0 % (max PII) & 47.% (minimum temp. 18.0 to $31.0^{\circ}$ C Balating huminity means upto 18.0 % (max PII) & 47.%
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 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		<ul> <li>Repair bunds to check from re-flooding</li> </ul>
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			Plough the main field
Groundnut	Seedling stage		Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul> <li>Spray Thiram or Captan @3Kg/ha</li> </ul>
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
Papaya, tree bean, mango	Transplanting		<ul> <li>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</li> <li>1. For papaya: at least 2-3 months old seedling</li> <li>2. Tree bean: more than 1 year old</li> <li>3. Mango: more than 1 year old seedling/ grafted</li> </ul>
Other vegetable crops	Weeding		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> <li>Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.</li> <li>Use new slips having atleast 4-5 nodes</li> <li>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.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.</li> <li>Seed rate: 840 steps/sangam</li> </ul>

Name of the animal	Growth stage	Disease/ infestation		Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	A	Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehtdration, loss of appetite and decrease in egg production/body weight.



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# "Gramin Krishi Mausam Seva"



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			Protect from dust storms/unexpected thunder showers.
Sheep/ Goat All age groups		Care & management	If the sheep have not yet been sheared, shearing of fur must be done this
	excepts the		month/days.
	young ones		Give multivitamins @15ml/animal for 7 days.
Pig All age groups		Care and management	Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon
	except the		Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-
	young ones		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	B.Q./ H.S/FMD	> If the animals have not yet been vaccinated, give vaccine, now for
excepts the young ones		Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.	
		Endoparasites	Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	> 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	> To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/	Pond and water	Flooded Pond water should be maintained clean.
-	fingerlings/		Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
	brooders	For quality fish seed	Only matured and ripe brooders should be selected for breeding.
		production	Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body
		End	weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed Fish	Provide feed 1-2 times @ 3 % body weight per day.
		F1811	Male and female brooders should be stock in separate ponds for breeding programs for IMC's 8 indigeneus Carne.
			programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

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

E-mail: agromet\_mnp@yahoo.co.uk

"Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31 <sup>st</sup> May to 2 <sup>nd</sup> June, 2016)	Weather forecast for next five days of Thoubal (4 <sup>th</sup> to 8 <sup>th</sup> 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,	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
range of minimum temperature observed was 23.0 to 25.0 ° C, mean	23.0 °C. Relative humidity may reach upto 96 % (max RH) & 51 % (min
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.	RH). The average wind speed may be 2-4 km/hr. Wind direction may be Westerly to North-Westerly during the next five days.
00.5 % respectively. The average while speed range was 5.7 to 5.0 km/m.	westerry to rooth-westerry during the next rive days.

#### Weather outlook for subsequence 2 days from 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		Repair bunds to check from re-flooding
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			Plough the main field
Groundnut	Seedling stage		Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	Spray Thiram or Captan @3Kg/ha
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
Papaya, tree bean, mango	Transplanting		<ul> <li>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</li> <li>1. For papaya: at least 2-3 months old seedling</li> <li>2. Tree bean: more than 1 year old</li> <li>3. Mango: more than 1 year old seedling/ grafted</li> </ul>
Other vegetable crops	Weeding		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> <li>Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.</li> <li>Use new slips having atleast 4-5 nodes</li> <li>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.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.</li> <li>Seed rate: 840 steps/sangam</li> </ul>

Name of the animal	Growth stage	Disease/ infestation		Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	A	Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehtdration, 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"



			Advocate multivitamins @20ml for 100 layer
			Protect from dust storms/unexpected thunder showers.
Sheep/ Goat All age groups		Care & management	If the sheep have not yet been sheared, shearing of fur must be done this
	excepts the		month/days.
	young ones		Give multivitamins @15ml/animal for 7 days.
Pig All age groups		Care and management	Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon
	except the		Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-
	young ones		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	B.Q./ H.S/FMD	> If the animals have not yet been vaccinated, give vaccine, now for
excepts the young ones		Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.	
		Endoparasites	Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	> 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	> To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/	Pond and water	Flooded Pond water should be maintained clean.
-	fingerlings/		Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
	brooders	For quality fish seed	Only matured and ripe brooders should be selected for breeding.
		production	Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body
		End	weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed Fish	Provide feed 1-2 times @ 3 % body weight per day.
		F1811	Male and female brooders should be stock in separate ponds for breeding programs for IMC's 8 indigeneus Carne.
			programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

Phone: 2414654, 2414260, 2414749 ; Fax : (0385) 2414654, 2414749 E-mail: agromet\_mnp@yahoo.co.uk ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31 <sup>st</sup> May to 2 <sup>nd</sup> June, 2016)	Weather forecast for next five days of Ukhrul (4 <sup>th</sup> to 8 <sup>th</sup> 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.	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 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		Repair bunds to check from re-flooding
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			Plough the main field
Groundnut	Seedling stage		Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul> <li>Spray Thiram or Captan @3Kg/ha</li> </ul>
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
Papaya, tree bean, mango	Transplanting		<ul> <li>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</li> <li>1. For papaya: at least 2-3 months old seedling</li> <li>2. Tree bean: more than 1 year old</li> <li>3. Mango: more than 1 year old seedling/ grafted</li> </ul>
Other vegetable crops	Weeding		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> <li>Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.</li> <li>Use new slips having atleast 4-5 nodes</li> <li>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.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.</li> <li>Seed rate: 840 steps/sangam</li> </ul>

Animui Science	5		-	
Name of the	Growth stage	Disease/ infestation		Agro-meteorological advisories
animal				
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	•	Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehtdration, 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"



		Advocate multivitamins @20ml for 100 layer
		Protect from dust storms/unexpected thunder showers.
excepts the	Care & management	<ul> <li>If the sheep have not yet been sheared, shearing of fur must be done this month/days.</li> </ul>
young ones		<ul> <li>Give multivitamins @15ml/animal for 7 days.</li> </ul>
All age groups except the young ones	Care and management	<ul> <li>Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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.</li> <li>Animals should be injected with vitamin A @2ml in deep intramuscular injection at least for 5 days.</li> </ul>
Cattle All age groups excepts the young ones	B.Q./ H.S/FMD	<ul> <li>If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot &amp; mouth Disease.</li> </ul>
	Endoparasites	Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
	Care & management	<ul> <li>Animals affected with PICA (depraved appetite) should be de wormed with Nilzan-F @ 90ml/ 300 kg body weight.</li> <li>Mix enough quantity salts in feed and water</li> <li>If the animals do not have access to green fodders, vitamin A injection/ supplements should be given.</li> <li>Food supplements may be given @20-30 gm/animals.</li> <li>Plenty of drinking water must be provided.</li> <li>Prepare fields for transplantation of fodders, grasses, especially in the available foot hills/fallow lands.</li> </ul>
Milch cow	Mastitis	<ul> <li>To prevent mastitis they should be milked completely.</li> </ul>
Stage	Management	Agro-metrological advisories
Fries/ fingerlings/ brooders	Pond and water For quality fish seed production Feed	<ul> <li>Flooded Pond water should be maintained clean.</li> <li>Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.</li> <li>Only matured and ripe brooders should be selected for breeding.</li> <li>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.</li> <li>Provide feed 1-2 times @ 3 % body weight per day.</li> </ul>
	young ones All age groups except the young ones All age groups excepts the young ones All age groups excepts the young ones Milch cow Stage Fries/ fingerlings/	excepts the young ones       Care and management         All age groups except the young ones       Care and management         All age groups excepts the young ones       B.Q./ H.S/FMD         Endoparasites       Endoparasites         Care & management       Care & management         Milch cow       Mastitis         Stage       Management         Fries/ fingerlings/ brooders       Pond and water         For quality fish seed production       For quality fish seed production

(I. Meghachandra Singh)



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

E-mail: agromet\_mnp@yahoo.co.uk

"Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (31 <sup>st</sup> May to 2 <sup>nd</sup> June, 2016)	(4 <sup>th</sup> to 8 <sup>th</sup> June, 2016)
The sky was fair to variable. Rainfall of 0.0 mm was recorded during past	Likely to have light rain upto Wednesday. Sky will remain fair to overcast,
three days. Maximum temperature range observed was 31.6 to 32.6 °C,	with maximum temp. 28.0 to 31.0 $^{\circ}$ C & minimum temp. 21.0 to 23.0 $^{\circ}$ C.
range of minimum temperature observed was 23.0 to 25.0 ° C, mean	Relative humidity may reach upto 97 % (max RH) & 50 % (min RH). The
relative humidity observed in morning and afternoon were 85.7 % and	average wind speed may be 2-4 km/hr. Wind direction may be South-west
68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.	Westerly to Westerly during the next five days.

### Weather outlook for subsequence 2 days from 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		Repair bunds to check from re-flooding
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			Plough the main field
Groundnut	Seedling stage		➢ Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	<ul> <li>Spray Thiram or Captan @3Kg/ha</li> </ul>
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			·
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
Papaya, tree bean, mango	Transplanting		<ul> <li>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</li> <li>1. For papaya: at least 2-3 months old seedling</li> <li>2. Tree bean: more than 1 year old</li> <li>3. Mango: more than 1 year old seedling/ grafted</li> </ul>
Other vegetable crops	Weeding		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> <li>Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.</li> <li>Use new slips having atleast 4-5 nodes</li> <li>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.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.</li> <li>Seed rate: 840 steps/sangam</li> </ul>

Name of the	Growth stage	Disease/ infestation		Agro-meteorological advisories
animal				
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	٨	Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehtdration, 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"



			Advocate multivitamins @20ml for 100 layer
			Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups	Care & management	If the sheep have not yet been sheared, shearing of fur must be done this
	excepts the		month/days.
	young ones		Give multivitamins @15ml/animal for 7 days.
Pig	All age groups	Care and management	Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon
	except the		Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-
	young ones		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	B.Q./ H.S/FMD	> If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
	young ones		
		Endoparasites	Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	> 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	> To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/	Pond and water	Flooded Pond water should be maintained clean.
-	fingerlings/		Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
	brooders	For quality fish seed	Only matured and ripe brooders should be selected for breeding.
		production	Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body
		End	weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed Fish	Provide feed 1-2 times @ 3 % body weight per day.
		F1811	Male and female brooders should be stock in separate ponds for breeding programs for IMC's 8 indigeneus Carne.
			programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)

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

E-mail: agromet\_mnp@yahoo.co.uk

"Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

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

#### Weather outlook for subsequence 2 days from 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		Repair bunds to check from re-flooding
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			Plough the main field
Groundnut	Seedling stage		Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	Spray Thiram or Captan @3Kg/ha
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
Papaya, tree bean, mango	Transplanting		<ul> <li>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</li> <li>1. For papaya: at least 2-3 months old seedling</li> <li>2. Tree bean: more than 1 year old</li> <li>3. Mango: more than 1 year old seedling/ grafted</li> </ul>
Other vegetable crops	Weeding		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> <li>Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.</li> <li>Use new slips having atleast 4-5 nodes</li> <li>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.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.</li> <li>Seed rate: 840 steps/sangam</li> </ul>

Name of the	Growth stage	Disease/ infestation		Agro-meteorological advisories
animal Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	>	Give oral Rehydrate Soln/Electrolytes if heat wave increases during day time to reduce mortality due to heat as birds are affected to dehtdration, 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"



			Advocate multivitamins @20ml for 100 layer
			Protect from dust storms/unexpected thunder showers.
Sheep/ Goat	All age groups	Care & management	If the sheep have not yet been sheared, shearing of fur must be done this
	excepts the		month/days.
	young ones		Give multivitamins @15ml/animal for 7 days.
Pig	All age groups	Care and management	Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon
	except the		Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-
	young ones		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	B.Q./ H.S/FMD	> If the animals have not yet been vaccinated, give vaccine, now for
	excepts the		Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
	young ones		
		Endoparasites	Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	> 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	> To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/	Pond and water	Flooded Pond water should be maintained clean.
-	fingerlings/		Apply lime/zeolite@20-30 Kg/ha at 20-25 days interval.
	brooders	For quality fish seed	Only matured and ripe brooders should be selected for breeding.
		production	Single dose hormone injection of Ovaprim/ Ovatide/ Wova-Fh @0.5 ml/kg body
		End	weight for female brooders and @0.2 ml/kg body weight for female brooder.
		Feed Fish	Provide feed 1-2 times @ 3 % body weight per day.
		F1811	Male and female brooders should be stock in separate ponds for breeding programs for IMC's 8 indigeneus Carne.
			programs for IMC's & indigenous Carps.

(I. Meghachandra Singh)



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"Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN 3<sup>rd</sup> 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 4<sup>th</sup> to 8<sup>th</sup> June , 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (31 <sup>st</sup> May to 2 <sup>nd</sup> June, 2016)	Weather forecast for next five days of Churachandpur (4 <sup>th</sup> to 8 <sup>th</sup> June, 2016)
The sky was fair to variable. Rainfall of 0.0 mm was recorded during past	Likely to have light rain upto Wednesday. Sky will remain fair to mainly
three days. Maximum temperature range observed was 31.6 to 32.6 °C,	cloudy, with maximum temp. 30.0 to 33.0 ° C & minimum temp. 21.0 to
range of minimum temperature observed was 23.0 to 25.0 ° C, mean	22.0 °C. Relative humidity may reach upto 98 % (max RH) & 51 % (min
relative humidity observed in morning and afternoon were 85.7 % and	RH). The average wind speed may be 2-3 km/hr. Wind direction may be
68.3 % respectively. The average wind speed range was 3.9 to 5.6 km/hr.	South South-easterly to Southerly during the next five days.

#### Weather outlook for subsequence 2 days from 8<sup>th</sup> to 10<sup>th</sup> 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-		Drain out the field in flooded areas.
	Maturity		Repair bunds to check from re-flooding
Main kharif rice	Land preparation		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed
	for sowing		overnight and incubate for 1 day.
			<ul><li>Plough the main field</li></ul>
Groundnut	Seedling stage		> Thin out plants at spacing of 30 cm x 15 cm and weed out.
Blackgram	Sowing to		Seed rate of 10-15 kg/ hectare may be sown by broadcasting or
	seedling		dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
			Drain out the field
Rabi Maize	Cob Maturity		Harvest the mature cobs and heap in dry sheds.
French beans	Seedling Stage	Catter pillars	Spray Thiram or Captan @3Kg/ha
<b>Ginger/ Turmeric</b>	Initial Growth	Rot	> Drain out the field and apply Ridomyl MZ @2g/l of water.
Horticulture Crops			
Cucurbits (Water- melon, pumpkin, bitter gourd, etc.)	Immediate harvest		<ul> <li>Crops under water should be harvested immediately</li> </ul>
Papaya, tree bean, mango	Transplanting		<ul> <li>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</li> <li>1. For papaya: at least 2-3 months old seedling</li> <li>2. Tree bean: more than 1 year old</li> <li>3. Mango: more than 1 year old seedling/ grafted</li> </ul>
Other vegetable crops	Weeding		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> <li>Grow water mimosa in the pond/ditch having a depth of 2.5-3 ft.</li> <li>Use new slips having atleast 4-5 nodes</li> <li>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.</li> <li>Harvesting may be done after 2-2.5 month depending upon the growth and weather at 10-15 days interval.</li> <li>Seed rate: 840 steps/sangam</li> </ul>

Name of the animal	Growth stage	Disease/ infestation		Agro-meteorological advisories
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