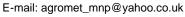
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





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MANIPUR BULLETIN 13th June, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (10 th to 12 th June, 2014)	(14 th to 18 th June, 2014)
During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11^{th} June. 45.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $26.8 - 31.4$ °C, range of minimum temperature observed was $21.9 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was $1.5 - 4.1$ km/hr.	There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. $22.0 - 24.0$ °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 81 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L I		
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
Maize	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	ps		,
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 - 5
Turmeric		_	weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pi before planting. Transplant 1 ¹/₂ to 2 yrs old healthy seedlings. With temporary fencing it may be protected from stray of cattle. Transplanting may be completed before monsoon.
			- For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOF per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water - Carbendazim @ 1g/ lit of water.
Animal Scien			
		nimal body to prevent b rate feed, mineral m	vite of fly and mosquitoes. ixture and vitamin.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites Coccidiosis	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of
			water. Add sanitizer in drinking water.
Sheep/ Goat Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
required)	Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.	
Cattle / Buffalo/	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
	d with net to avoid	escape of fish durin	g rainy days.
Carp culture		Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
	[F	Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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MANIPUR BULLETIN 13th June, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (10 th to 12 th June, 2014)	$\frac{\text{Weather forecast for next five days of Churachandpur}}{(14^{\text{th}} \text{ to } 18^{\text{th}} \text{ June, } 2014)}$
During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11^{th} June. 45.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $26.8 - 31.4$ °C, range of minimum temperature observed was $21.9 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was $1.5 - 4.1$ km/hr.	There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 33.0$ °C & minimum temp. $20.0 - 22.0$ °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 66 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L I		
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
Maize	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	ps		6
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 - 5
Turmeric		_	weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pi before planting. Transplant 1 ¹/₂ to 2 yrs old healthy seedlings. With temporary fencing it may be protected from stray of cattle. Transplanting may be completed before monsoon.
			 For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOI per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water - Carbendazim @ 1g/ lit of water.
Animal Scien			
		nimal body to prevent b rate feed, mineral m	vite of fly and mosquitoes. ixture and vitamin.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites Coccidiosis	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of
			Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of	Endoparasite/	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied
age (as a	age (as and when required)	Ectoparasite	with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
required)	required)	Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:	- L		
-		escape of fish durin	
Carp culture		Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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MANIPUR BULLETIN 13th June, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of Imphal - West (10 th to 12 th June, 2014)	Weather forecast for next five days of Imphal-East (14 th to 18 th June, 2014)
During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11^{th} June. 45.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $26.8 - 31.4$ °C, range of minimum temperature observed was $21.9 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was $1.5 - 4.1$ km/hr.	There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 21.0 – 23.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 80 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
Maize	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 Weeding may be done if the weed population is high. Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5
Turmeric			weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		- Prepare the pit of size 3x3x3 feet in upland area.
			- Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit
			before planting.
			- Transplant 1 ¹ / ₂ to 2 yrs old healthy seedlings.
			- With temporary fencing it may be protected from stray of cattle.
			- Transplanting may be completed before monsoon.
			- For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP
			per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water +
			Carbendazim @ 1g/ lit of water.
Animal Scien			
			ite of fly and mosquitoes.
		rate feed, mineral m	
Name of the	Growth stage	Disease/	Agro-meteorological advisories
animal	All susceptible age	infestation	Design in Piece in the
Poultry	groups (as and when	Endoparasites	- De-worm using Piperazine citrate.
	required)		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of
			water.
	Altaria 2 manufactor	F 1	Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied
		Ectoparasite	with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
	age (as and when		brushing the animal.
	required)	Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin infection	
Cattle /	Above 3 months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.
Buffalo/	age (as and when	Ectoparasite	- inject i and & i ini/ 50 kg body weight.
Mithun	required)	B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
T • 1		D.Q./ 11.5.	vacemate against D.Q./ 11.5. sub- cutaneousiy.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	g rainy days.
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime
			@300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea +
			75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha.
			Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		Eard	Well balanced feed should be provided @ 3-5% body weight per day in 2-3
		Feed	went balanced feed should be provided @ 3-370 body weight per day in 2-3

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MANIPUR BULLETIN 13th June, 2014

Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-West
Imphal - West $(10^{\text{th}} \text{ to } 12^{\text{th}} \text{ June}, 2014)$	<u>(14th to 18th June, 2014)</u>
During past three days the sky was partly cloudy to mainly	There may be rain on Wednesday. Sky may be partly
cloudy but cloudy during morning hours of 11 th June. 45.9	cloudy to mainly cloudy with maximum temp. of 31.0 -
mm rainfall was recorded during past three days. Maximum	33.0 °C & minimum temp. 22.0 – 23.0 °C. Relative
temperature range observed was 26.8 - 31.4 °C, range of	Humidity may reach a maximum of 99 % (maximum RH)
minimum temperature observed was 21.9 – 23.5 °C, mean	& 73 % (minimum RH). The average wind speed may be
relative humidity observed in morning and afternoon were	0-2 km/hr during next five days.
83.33 % and 74.67 % respectively. The average wind speed	
range was 1.5 – 4.1 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	l l		
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
Maize	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	ps		· · · · · · · · · · · · · · · · · · ·
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5
Turmeric			weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		- Prepare the pit of size 3x3x3 feet in upland area.
			- Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit
			before planting.
			- Transplant 1 ¹ / ₂ to 2 yrs old healthy seedlings.
			- With temporary fencing it may be protected from stray of cattle.
			- Transplanting may be completed before monsoon.
			- For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP
			per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water +
			Carbendazim @ 1g/ lit of water.
Animal Scien			
			ite of fly and mosquitoes.
		rate feed, mineral m	
Name of the	Growth stage	Disease/	Agro-meteorological advisories
animal	All susceptible age	infestation	Design in Piece in the
Poultry	groups (as and when	Endoparasites	- De-worm using Piperazine citrate.
	required)		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of
			water.
	Altaria 2 manufactor	F 1	Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied
		Ectoparasite	with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
	age (as and when		brushing the animal.
	required)	Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin infection	
Cattle /	Above 3 months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.
Buffalo/	age (as and when	Ectoparasite	- inject i and & i ini/ 50 kg body weight.
Mithun	required)	B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
T • 1		D.Q./ 11.5.	vacemate against D.Q./ 11.5. sub- cutaneousiy.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	g rainy days.
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime
			@300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea +
			75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha.
			Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		Eard	Well balanced feed should be provided @ 3-5% body weight per day in 2-3
		Feed	went balanced feed should be provided @ 3-370 body weight per day in 2-3

HIDOLE 241

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MANIPUR BULLETIN 13th June, 2014

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (10 th to 12 th June, 2014)	(14 th to 18 th June, 2014)
During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11^{th} June. 45.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $26.8 - 31.4$ °C, range of minimum temperature observed was $21.9 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was $1.5 - 4.1$ km/hr.	There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $29.0 - 32.0$ °C & minimum temp. $18.0 - 21.0$ °C. Relative Humidity may reach a maximum of 97 % (maximum RH) & 73 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
Maize	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	ps		<u> </u>
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5
Turmeric			weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		- Prepare the pit of size 3x3x3 feet in upland area.
			- Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit
			before planting.
			- Transplant 1 ¹ / ₂ to 2 yrs old healthy seedlings.
			- With temporary fencing it may be protected from stray of cattle.
			- Transplanting may be completed before monsoon.
			- For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP
			per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water +
			Carbendazim @ 1g/ lit of water.
Animal Scien			
			ite of fly and mosquitoes.
	<u> </u>	ate feed, mineral m	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate.
2000001	groups (as and when	r	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of
		Coccidiosis	water.
			Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of	Endoparasite/	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied
Sheep/ Goat	age (as and when required)	Ectoparasite	with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
116	age (as and when required)	1010	brushing the animal.
		Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin	inject weblide e i nin io kg body weight.
		infection	
Cattle /	Above 3 months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.
Buffalo/	age (as and when	Ectoparasite	
Mithun	Mithun required)	B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			J
	nd with net to avoid	escape of fish durin	g rainy days.
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime
Carp culture	nu series	i ond and water	@300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea +
			75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		1 000	weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha
			at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		1 1511	Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3
		1.000	splits.
			spino.

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MANIPUR BULLETIN 13th June, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (10 th to 12 th June, 2014)	(14 th to 18 th June, 2014)
During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11^{th} June. 45.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $26.8 - 31.4$ °C, range of minimum temperature observed was $21.9 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was $1.5 - 4.1$ km/hr.	There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 33.0$ °C & minimum temp. $21.0 - 23.0$ °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 67 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
Maize	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	DS		
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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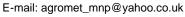


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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 –
Turmeric			weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per probefore planting. Transplant 1 ¹/₂ to 2 yrs old healthy seedlings. With temporary fencing it may be protected from stray of cattle. Transplanting may be completed before monsoon.
			- For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MO per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water Carbendazim @ 1g/ lit of water.
Animal Scien	ces		
		animal body to prevent b rate feed, mineral m	bite of fly and mosquitoes. A structure and vitamin.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)		 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	 - As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water. Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week whil brushing the animal.
required)	Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.	
Cattle / Buffalo/	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle pon	nd with net to avoid	escape of fish durin	ng rainy days.
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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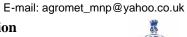
MANIPUR BULLETIN 13th June, 2014

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (10 th to 12 th June, 2014)	(14 th to 18 th June, 2014)
During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11^{th} June. 45.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $26.8 - 31.4$ °C, range of minimum temperature observed was $21.9 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was $1.5 - 4.1$ km/hr.	There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 21.0 – 23.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 83 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
Maize	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 - 5
Turmeric			weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		- Prepare the pit of size 3x3x3 feet in upland area.
			- Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pi
			before planting.
			- Transplant 1 ¹ / ₂ to 2 yrs old healthy seedlings.
			- With temporary fencing it may be protected from stray of cattle.
			- Transplanting may be completed before monsoon.
			- For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOI
			per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water -
			Carbendazim @ 1g/ lit of water.
Animal Scien			
	-		ite of fly and mosquitoes.
		rate feed, mineral m	
Name of the animal	Growth stage	Disease/	Agro-meteorological advisories
Poultry	All susceptible age	infestationEndoparasites	- De-worm using Piperazine citrate.
routry	groups (as and when	Endoparasites	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of
	• •	Coccidiosis	water.
Sheep/ Goat	Above 3 months of	Endoparasite/	Add sanitizer in drinking water. Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied
Sheep/ Goat	age (as and when required)	Ectoparasite	with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
DI	•		
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
	required)	En demenseite /	brushing the animal.
	required)	Endoparasite/ Ectoparasite or skin	- Inject Neomac @ 1 ml/ 10 kg body weight.
		infection	
Cattle /	Above 3 months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.
Buffalo/	age (as and when	Ectoparasite	
Mithun	required)	B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
	d with not to avoid	accore of fish durin	a minu dava
-		escape of fish durin	
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime
			@300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea +
		T 1	75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
	-		weight/day.
	~	Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha.
			Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3
			splits.

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MANIPUR BULLETIN 13th June, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (10 th to 12 th June, 2014)	$(14^{\text{th}} \text{ to } 18^{\text{th}} \text{ June, } 2014)$
During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11 th June. 45.9 mm rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed	There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $29.0 - 32.0$ °C & minimum temp. $18.0 - 21.0$ °C. Relative Humidity may reach a maximum of 98 % (maximum RH) & 74 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.
range was 1.5 – 4.1 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L L		
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
Maize	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 - 5
Turmeric		_	weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pi before planting. Transplant 1 ¹/₂ to 2 yrs old healthy seedlings. With temporary fencing it may be protected from stray of cattle. Transplanting may be completed before monsoon.
			- For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOH per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water - Carbendazim @ 1g/ lit of water.
Animal Scien			
		nimal body to prevent b rate feed, mineral m	vite of fly and mosquitoes. ixture and vitamin.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites Coccidiosis	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of
			water. Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
required)	Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.	
Cattle / Buffalo/	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	
		Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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MANIPUR BULLETIN 13th June, 2014

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (10 th to 12 th June, 2014)	(14 th to 18 th June, 2014)
During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11^{th} June. 45.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $26.8 - 31.4$ °C, range of minimum temperature observed was $21.9 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was $1.5 - 4.1$ km/hr.	There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 22.0 – 23.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 76 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main <i>Kharif</i>		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available.
	rice nursery		- Use certified seeds for sowing.
	<i>For Rabi Maize:</i> Cob maturity to harvesting		 Mature cobs may be harvested. For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	<i>For Kharif Maize:</i> vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		 Earthing-up may be done at 30 to 40 days after sowing of crop. Thinning may be done. Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Horticulture Cro	<i>ps</i>		
Lime/ Lemon	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area, frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.

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	spot		
Ginger/	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5
Turmeric			weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ¹/₂ to 2 yrs old healthy seedlings.
			- With temporary fencing it may be protected from stray of cattle.
			- Transplanting may be completed before monsoon.
			- For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water +
			Carbendazim @ 1g/ lit of water.
Animal Scien			
			ite of fly and mosquitoes.
- For milch ar	nimals give concent	rate feed, mineral m	ixture and vitamin.
Name of the	Growth stage	Disease/	Agro-meteorological advisories
animal		infestation	
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate.
	groups (as and when required)		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
Tec	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
			Add sanitizer in drinking water.
Sheep, Gout	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle /	Above 3 months of	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.
Buffalo/ Mithun	age (as and when required)	Ectoparasite	
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle por	nd with net to avoid	escape of fish durin	ig rainy days.
Carp culture		Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		. 1011	Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3
			splits.