

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 22nd March, 2013

Bishnupur

crop		infestation	
Name of the	Stage	Pest and disease	Agro-meteorological advisories
average with	u specu range was 2.	2 - 3.2 KII/III.	may reach upto max. value of 4 km/m.
afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was $2.2 - 5.2$ km/hr.			e max of 50 %. The average wind speed during next five days may reach up to max. value of 4 km/hr.
12.9 °C, mean relative humidity observed in morning and			
29.2 °C, range of minimum temperature observed was 9.8 –			
		nge observed was 26.4	
-	5	recorded during past thre	
During the past three days the sky was partly cloudy to			
Im	nphal - West (19 th to 2	21 st March, 2013)	<u>March, 2013)</u>
		e preceding bi-weekly of	Weather forecast for next five days of Bishnupur (23 rd to 27 th

crop		Intestation	
Field Crops			
Rice	Pre- Kharif rice		* Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted.
			* In wet nursery:
			- Uprooting of seedlings may be done when seedlings are 30-45 days old.
			- Land preparation of main field for transplanting may be done.
Maize	Vegetative		- 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-
			culture operation at knee-high stage.
		- Stem borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		- Mature crop may be harvested. After harvesting, it must be sun dried for
			2-3 days and threshed. Cleaned seeds must be packed and stored in
E: 11 D	TT (wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for
Storage			germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	rons		germination of seeds of rangar growth. Crean and dry the seeds.
Turmeric/	Rhizome selection		- Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while
Ginger	& sowing		preparing land.
			- Sort out healthy disease free rhizome seed from store/ pit and spread
			them in airy shed for 2-3 days. Treat them with Carbendazim and also
			with an insecticide before sowing. Let it dry (in case of wet solution
			treatment).
			- Sowing must be done as optimum soil moisture has been attained due to
			light rain in past few days.
			- Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with
			2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		- To preserve the soil moisture gained from light rain during past few days
Union/ Garne	Buio development		mulching in between rows using dried twigs/ paddy straw/ dry leaves or
			harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is
			advised for better growth.
			- Pinch off the flower bud as soon as it develops.
Potato	Tuber		- Incidence of late blight may be observed with rains. If observed, spray
	development to		Redomil MZ @ 2g/ lit of water.
	maturity		





"Integrated Agromet Advisory Services"

Cucurbits	Vegetative		- Adequate manuring and fertilization should be given.
Cucurons	vegetative		- 30 days old seedlings being transplanted (nursery from pro-tray/
			polythene bags) need support for staking.
			- Weeding/ inter-culture operation and top dressing may be done.
			- In vegetative stage, staking/ support should be provided.
Tomata	Vegetative		In tomato foliar fertilization of nitrogen is very much effective. In a
Tomato	vegetative		
			hectare crop area, it may be done as follows:
			• For 30 days old crop : 9.71 kg Urea in 1000 lit of water
			• For 40 days old crop : 14.4 kg Urea in 1500 lit of water
			• For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.
Cattle / Buffalo/	All age groups	B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation)
Mithun	except three	Haemorrhagic	is advised.
	months or below	Septicaemia	
Goat	All susceptible	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
	age groups		
		Ranikhet Disease	- By the end of winter and before summer sets in, birds should be
Poultry	All susceptible		vaccinated against <i>Ranikhet disease</i> .
1 0 4101 5		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Coximar (@, 2g/lit of drinking</i>
	age groups	coccimosis	water) for 5 to 7 days
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp &	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
- · · F · · · · · ·	grass carp	Feed	Feeds should be provided 2 times a day (a) 2-3% body weight per day.
	brooders	Fish	Male and female brooders should be stock in separate ponds.
		1 1011	Brooders of 2-3 years old having more than 1kg should be selected for
			seed production.
		Feed	Feed should be provided @ 1-2% body weight per day.
		1000	Feed can be fed 2 times a day.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc.
	Diccoung	pond	 Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-
			8ppm, carbon dioxide –nil.
			 Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			<i>fish</i> for breeding in both the brooders of common carp .
			 Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			<i>fish</i> for breeding in both the brooders of grass carp.
	Nurseries	nonda	
	indiscries	ponds	Water depth should be maintained at 1.0m
			After liming nursery ponds should be fertilized prior 15 days of spawn
			stocking.
			Feeding should be done 2-3 times a day @5-10% body weight/day.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 22nd March, 2013

Chandel

<u>Significar</u> Im	nt past weather for the phal - West (19 th to 2	e preceding bi-weekly (21 st March, 2013)	Meather forecast for next five days of Chandel (23 rd to 27 th March, 2013)
mainly cloud days. Maxin 29.2 °C, ran 12.9 °C, me afternoon w	dy. No rainfall was num temperature ra ge of minimum temp an relative humidity	sky was partly cloud recorded during past t nge observed was 26 erature observed was 9 observed in morning 36.3 % respectively. 2-5.2 km/hr.	hree is likely to be partly cloudy during next five days. The maximum temp. is likely to be $29.0 - 33.0$ °C. The minimum $2.8 - $ temp. is likely to be $12.0 - 15.0$ °C. The maximum RH is likely to attain a max value of 82 %. Minimum RH is likely to reach a
Name of the crop			
Field Crops	·		

Field Crops			
Rice	Pre- Kharif rice		* Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted.
			 * In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter- culture operation at knee-high stage. Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		 Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	Trops		
Turmeric/ Ginger	Rhizome selection & sowing		 Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		 To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		- Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.





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Cucurbits	Vegetative		- Adequate manuring and fertilization should be given.
Cucurons	vegetative		- 30 days old seedlings being transplanted (nursery from pro-tray/
			polythene bags) need support for staking.
			- Weeding/ inter-culture operation and top dressing may be done.
			- In vegetative stage, staking/ support should be provided.
Tomata	Vegetative		In tomato foliar fertilization of nitrogen is very much effective. In a
Tomato	vegetative		hectare crop area, it may be done as follows:
			 For 30 days old crop : 9.71 kg Urea in 1000 lit of water For 40 days old crop : 14.4 kg Urea in 1500 lit of water
			 For 50 days old crop : 10.2 kg Urea in 2000 lit of water
A			• For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Animal Science Name of the		Disease/ infestation	Agra motoovolagical advisories
animal	Growth stage	Disease/ intestation	Agro-meteorological advisories
Pig	Above 3 months	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.
	of age		
Cattle / Buffalo/	All age groups	B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation)
Mithun	except three	Haemorrhagic	is advised.
	months or below	Septicaemia	
Goat	All susceptible	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
	age groups		
	All susceptible	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be
Poultry			vaccinated against <i>Ranikhet disease</i> .
		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Coximar (@ 2g/lit of drinking</i>
	age groups		water) for 5 to 7 days
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp &	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
•	grass carp	Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
	brooders	Fish	Male and female brooders should be stock in separate ponds.
			Brooders of 2-3 years old having more than 1kg should be selected for
			seed production.
		Feed	Feed should be provided @ 1-2% body weight per day.
			Feed can be fed 2 times a day.
	Breeding	pond	
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide -nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg <i>fish</i> for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of grass carp.
	Breeding	pond ponds	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of grass carp. Water depth should be maintained at 1.0m
			 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of grass carp.



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MANIPUR BULLETIN 22nd March, 2013

Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur (23 rd to
Imphal - West (19 th to 21 st March, 2013)	<u>27th March, 2013)</u>
During the past three days the sky was partly cloudy to	There is likely to have light rain during next five days. The sky
mainly cloudy. No rainfall was recorded during past three	is likely to be partly cloudy during next five days. The
days. Maximum temperature range observed was 26.4 -	maximum temp. is likely to be 27.0 - 30.0 °C. The minimum
29.2 °C, range of minimum temperature observed was 9.8 –	temp. is likely to be $10.0 - 13.0$ °C. The maximum RH is likely
12.9 °C, mean relative humidity observed in morning and	to attain a max value of 84 %. Minimum RH is likely to reach a
afternoon were 70.67 % and 36.3 % respectively. The	max of 53 %. The average wind speed during next five days
average wind speed range was $2.2 - 5.2$ km/hr.	may reach upto max. value of 6 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	÷		
Rice	Pre- Kharif rice		 * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	 - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter- culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		- Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	rops	I.	
Turmeric/ Ginger	Rhizome selection & sowing		 Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		 To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		- Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.





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Vegetative		- Adequate manuring and fertilization should be given.
vegetative		- 30 days old seedlings being transplanted (nursery from pro-tray/
		polythene bags) need support for staking.
		- Weeding/ inter-culture operation and top dressing may be done.
		- In vegetative stage, staking/ support should be provided.
Vagatativa		
vegetative		In tomato foliar fertilization of nitrogen is very much effective. In a
		hectare crop area, it may be done as follows:
		• For 30 days old crop : 9.71 kg Urea in 1000 lit of water
		• For 40 days old crop : 14.4 kg Urea in 1500 lit of water
		• For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Growth stage		Agro-meteorological advisories
Above 3 months	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
of age		
All age groups	B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation)
except three		is advised.
months or below	Septicaemia	
All susceptible	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
age groups		
All susceptible	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be
		vaccinated against Ranikhet disease.
	Coccidiosis	- Poultry must be provided Coccidiostat/ Coximar (@, 2g/lit of drinking
age groups		water) for 5 to 7 days
Stage	Field	Agro-metrological advisories
	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
grass carp	Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
brooders		Male and female brooders should be stock in separate ponds.
		Brooders of 2-3 years old having more than 1kg should be selected for
		seed production.
	Feed	Feed should be provided @ 1-2% body weight per day.
		Feed can be fed 2 times a day.
Breeding	pond	 Feed can be fed 2 times a day. Pond should be free from insects, predators, aquatic weeds etc.
Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc.
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Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.
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Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6- 8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
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Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg <i>fish</i> for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg <i>fish</i> for breeding in both the brooders of grass carp. Water depth should be maintained at 1.0m
		 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg <i>fish</i> for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg <i>fish</i> for breeding in both the brooders of grass carp.
	of age All age groups except three months or below All susceptible age groups All susceptible age groups Stage Common carp & grass carp	VegetativeVegetativeGrowth stageDisease/ infestationAbove 3 months of ageSwine FeverAll age groupsB.Q. and Haemorrhagic SepticaemiaAll susceptible age groupsB.Q. and H.S.All susceptible age groupsB.Q. and H.S.All susceptible age groupsB.Q. and H.S.StageFieldCoccidiosisStageFieldCommon carp & grass carpPond and water



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MANIPUR BULLETIN 22nd March, 2013

Imphal-East

ame of the	Stage	Pest and disease	Agro-meteorological advisories
days. Maxi 29.2 °C, ran 12.9 °C, ma afternoon w	mum temperature ra ge of minimum temp an relative humidity	recorded during past t nge observed was 26 erature observed was 9 observed in morning 36.3 % respectively. 2-5.2 km/hr.	hree is likely to be partly cloudy during next five days. The maximum temp. is likely to be $26.0 - 30.0$ °C. The minimum $1.8 - 1.8$ means the maximum temp. is likely to be $10.0 - 14.0$ °C. The maximum RH is likely to attain a max value of 87 %. Minimum RH is likely to reach a
In	nphal - West (19 th to 2	e preceding bi-weekly of 21 st March, 2013) sky was partly cloud	27 th March, 2013)

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	Pre- Kharif rice		 * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	 - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter- culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		- Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	Crops		
Turmeric/ Ginger	Rhizome selection & sowing		 Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		 To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		- Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.





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Cucurbits	Vegetative		- Adequate manuring and fertilization should be given.
Cucurons	vegetative		- 30 days old seedlings being transplanted (nursery from pro-tray/
			polythene bags) need support for staking.
			- Weeding/ inter-culture operation and top dressing may be done.
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Tomato	vegetative		
			hectare crop area, it may be done as follows:
			• For 30 days old crop : 9.71 kg Urea in 1000 lit of water
			• For 40 days old crop : 14.4 kg Urea in 1500 lit of water
			• For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.
Cattle / Buffalo/	of age	B.Q. and	Vaccination of P O and H S polymolant (does as not recommendation)
Mithun	All age groups	Haemorrhagic	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation)
wittituli	except three	Septicaemia	is advised.
Cent	months or below	-	
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
	uge groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be
Poultry	All susceptible	Tulline Discuse	vaccinated against <i>Ranikhet disease</i> .
i outri y		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Coximar (@, 2g/lit of drinking</i>
	age groups	Cocciniosis	water) for 5 to 7 days
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
- · · F · · · · · ·		Feed	Feeds should be provided 2 times a day (a) 2-3% body weight per day.
	brooders	Fish	Male and female brooders should be stock in separate ponds.
	biooders	1 1011	Brooders of 2-3 years old having more than 1kg should be selected for
			seed production.
		Feed	Feed should be provided @ 1-2% body weight per day.
		1000	Feed can be fed 2 times a day.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc.
	Diccoung	pond	 Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-
			8ppm, carbon dioxide –nil.
			 Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			<i>fish</i> for breeding in both the brooders of common carp .
			 Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			<i>fish</i> for breeding in both the brooders of grass carp.
	Nurseries	nonda	
	indiscries	ponds	Water depth should be maintained at 1.0m
			After liming nursery ponds should be fertilized prior 15 days of spawn
			stocking.
			Feeding should be done 2-3 times a day @5-10% body weight/day.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 22nd March, 2013

Imphal-West

Name of the	Stage	Pest and disease	Agro-meteorological advisories
average win	d speed range was 2.2	2 - 5.2 km/hr.	may reach upto max. value of 4 km/hr.
		36.3 % respectively.	
		observed in morning	
		erature observed was 9	
		nge observed was 26	
		recorded during past t	
		sky was partly cloud	
In	nphal - West (19 th to 2	21 st March, 2013)	<u>27th March, 2013)</u>
		e preceding bi-weekly	

crop	Stage	infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		* Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted.
			 * In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	 - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter- culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		- Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	Trops		
Turmeric/ Ginger	Rhizome selection & sowing		 Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). Sowing must be done as optimum soil moisture has been attained due to
			 Sowing must be done as optimum son moisture has been attained due to light rain in past few days. Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		 To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		- Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.





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Cucurbits	Vegetative		- Adequate manuring and fertilization should be given.
Cucuibits	vegetative		- 30 days old seedlings being transplanted (nursery from pro-tray/
			polythene bags) need support for staking.
			- Weeding/ inter-culture operation and top dressing may be done.
			- In vegetative stage, staking/ support should be provided.
Tomata	Vegetative		In tomato foliar fertilization of nitrogen is very much effective. In a
Tomato	vegetative		
			hectare crop area, it may be done as follows:
			• For 30 days old crop : 9.71 kg Urea in 1000 lit of water
			• For 40 days old crop : 14.4 kg Urea in 1500 lit of water
			• For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.
Cattle / Buffalo/	of age	B.Q. and	Vaccination of P O and H S polycolant (does as not recommendation)
Mithun	All age groups	Haemorrhagic	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation)
wittituli	except three	Septicaemia	is advised.
Cent	months or below	-	
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
	age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be
Poultry	All susceptible age groups	Tulline Discuse	vaccinated against <i>Ranikhet disease</i> .
i outri y		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Coximar (@, 2g/lit of drinking</i>
		Cocciniosis	water) for 5 to 7 days
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp &	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
- · · F · · · · · ·	grass carp	Feed	Feeds should be provided 2 times a day (a) 2-3% body weight per day.
	brooders	Fish	Male and female brooders should be stock in separate ponds.
	01000015	1 1011	Brooders of 2-3 years old having more than 1kg should be selected for
			seed production.
		Feed	Feed should be provided @ 1-2% body weight per day.
		1000	Feed can be fed 2 times a day.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc.
	Diccoung	pond	 Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-
			8ppm, carbon dioxide –nil.
			 Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			<i>fish</i> for breeding in both the brooders of common carp .
			 Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			<i>fish</i> for breeding in both the brooders of grass carp.
	Nurseries	nonda	
	indiscries	ponds	Water depth should be maintained at 1.0m
			After liming nursery ponds should be fertilized prior 15 days of spawn
			stocking.
			Feeding should be done 2-3 times a day @5-10% body weight/day.



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"Integrated Agromet Advisory Services"

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Senapati

crop		infestation	
Name of the	Stage	Pest and disease	Agro-meteorological advisories
average win	d speed range was	2.2 - 5.2 km/hr.	may reach upto max. value of 3 km/hr.
afternoon were 70.67 % and 36.3 % respectively. The average wind speed range was $2.2 - 5.2$ km/hr.			
		ty observed in morning	
		nperature observed was 9	
		range observed was 26.	
mainly cloudy. No rainfall was recorded during past three			
During the past three days the sky was partly cloudy to			y to There is likely to have light rain during next five days. The sky
ln	nphal - West (19 th to	21 st March, 2013)	<u>March, 2013)</u>
		the preceding bi-weekly of	

crop		micstation	
Field Crops			
Rice	Pre- Kharif rice		* Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted.
			 * In wet nursery: - Uprooting of seedlings may be done when seedlings are 30-45 days old. - Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	 - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter- culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		- Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	Crops		
Turmeric/ Ginger	Rhizome selection & sowing		 Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land. Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment). Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		 To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. Pinch off the flower bud as soon as it develops.
Cucurbits	Vegetative		 - 30 days old seedlings being transplanted (nursery from pro-tray/ polythene bags) need support for staking. - Weeding/ inter-culture operation and top dressing may be done.





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			- In vegetative stage, staking/ support should be provided.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
Poultry		Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> .
·	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Coximar (@ 2g/lit of drinking water) for 5 to 7 days</i>
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp &	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
	grass carp	Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
	brooders	Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg <i>fish</i> for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg <i>fish</i> for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.



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Tamenglong

ame of the	Stage	Pest and disease	Agro-meteorological advisories
afternoon w		 observed in morning 36.3 % respectively. 2 - 5.2 km/hr. 	
29.2 °C, ran	ge of minimum temp	perature observed was 9	.8 - 1 temp. is likely to be $11.0 - 14.0$ °C. The maximum RH is likely
-	5	recorded during past thinge observed was 26.	
		sky was partly cloudy	
	nt past weather for the second s	e preceding bi-weekly o 21 st March, 2013)	<u>Weather forecast for next five days of Tamenglong (23rd to 27th March, 2013)</u>

Name of the crop	Stage	infestation	Agro-meteorological advisories
Field Crops	1		
Rice	Pre- Kharif rice		 * Maintain 5-8cm of water level in those fields in which seedlings from dry nursery was transplanted. * In wet nursery:
			 Uprooting of seedlings may be done when seedlings are 30-45 days old. Land preparation of main field for transplanting may be done.
Maize	Vegetative	- Stem borer	 - 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter- culture operation at knee-high stage. - Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		- Mature crop may be harvested. After harvesting, it must be sun dried for 2-3 days and threshed. Cleaned seeds must be packed and stored in wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	Trops		
Turmeric/ Ginger	Rhizome selection & sowing		- Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while preparing land.
			- Sort out healthy disease free rhizome seed from store/ pit and spread them in airy shed for 2-3 days. Treat them with Carbendazim and also with an insecticide before sowing. Let it dry (in case of wet solution treatment).
			 Sowing must be done as optimum soil moisture has been attained due to light rain in past few days. Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with 2-3 buds may be sown. Mother rhizome can also be used as seed by cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		 To preserve the soil moisture gained from light rain during past few days mulching in between rows using dried twigs/ paddy straw/ dry leaves or harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is advised for better growth. Pinch off the flower bud as soon as it develops.
Potato	Tuber development to maturity		- Incidence of late blight may be observed with rains. If observed, spray Redomil MZ @ 2g/ lit of water.





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Cucurbits	Vegetative		- Adequate manuring and fertilization should be given.
Cucuibits	vegetative		- 30 days old seedlings being transplanted (nursery from pro-tray/
			polythene bags) need support for staking.
			- Weeding/ inter-culture operation and top dressing may be done.
			- In vegetative stage, staking/ support should be provided.
Tomato	Vegetative		In tomato foliar fertilization of nitrogen is very much effective. In a
Tomato	vegetative		hectare crop area, it may be done as follows:
			 For 30 days old crop : 9.71 kg Urea in 1000 lit of water For 40 days old crop : 14.4 kg Urea in 1500 lit of water
			• For 40 days old crop : 14.4 kg Urea in 1500 lit of water
A			• For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Animal Science Name of the	Growth stage	Disease/ infestation	A gra mataonalagical advisories
animal	Growth stage	Disease/ intestation	Agro-meteorological advisories
Pig	Above 3 months	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.
	of age		
Cattle / Buffalo/	All age groups	B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation)
Mithun	except three	Haemorrhagic	is advised.
	months or below	Septicaemia	
Goat	All susceptible	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
	age groups		
	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be
Poultry			vaccinated against Ranikhet disease.
		Coccidiosis	- Poultry must be provided Coccidiostat/ Coximar (@ 2g/lit of drinking
			water) for 5 to 7 days
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp &	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
-	grass carp	Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
	brooders	Fish	Male and female brooders should be stock in separate ponds.
			Brooders of 2-3 years old having more than 1kg should be selected for
			seed production.
		Feed	Feed should be provided @ 1-2% body weight per day.
			Feed can be fed 2 times a day.
	Breeding	pond	• Pond should be free from insects, predators, aquatic weeds etc.
	8	1	• Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-
			8ppm, carbon dioxide –nil.
			 Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			<i>fish</i> for breeding in both the brooders of common carp .
			• Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			<i>fish</i> for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m
	i vui series	1	After liming nursery ponds should be fertilized prior 15 days of spawn
		1	After liming nursery ponds should be fertilized prior 15 days of spawn stocking.



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MANIPUR BULLETIN 22nd March, 2013

Thoubal

	nt past weather for the aphal - West (19 th to 2	e preceding bi-weekly 21 st March, 2013)	of Weather forecast for next five days of Thoubal (23 rd to 27 th March, 2013)
mainly clou days. Maxin 29.2 °C, ran 12.9 °C, me afternoon w	dy. No rainfall was num temperature ra ge of minimum temp an relative humidity	sky was partly cloud recorded during past to nge observed was 26 erature observed was 9 observed in morning 36.3 % respectively. 2 – 5.2 km/hr.	three is likely to be partly cloudy during next five days. The maximum temp. is likely to be $27.0 - 31.0$ °C. The minimum temp. is likely to be $11.0 - 13.0$ °C. The maximum RH is likely to attain a max value of 89 %. Minimum RH is likely to reach a
Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Pre- Kharif rice		* Maintain 5-8cm of water level in those fields in which seedlings from

Field Crops			
Rice	Pre- Kharif rice		* Maintain 5-8cm of water level in those fields in which seedlings from
			dry nursery was transplanted.
			* In wet nursery:
			- Uprooting of seedlings may be done when seedlings are 30-45 days old.
			- Land preparation of main field for transplanting may be done.
Maize	Vegetative		- 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-
	e		culture operation at knee-high stage.
		- Stem borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		- Mature crop may be harvested. After harvesting, it must be sun dried for
	0		2-3 days and threshed. Cleaned seeds must be packed and stored in
			wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be
			sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for
0			germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	Crops		
Turmeric/	Rhizome selection		- Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while
Ginger	& sowing		preparing land.
0			- Sort out healthy disease free rhizome seed from store/ pit and spread
			them in airy shed for 2-3 days. Treat them with Carbendazim and also
			with an insecticide before sowing. Let it dry (in case of wet solution
			treatment).
			- Sowing must be done as optimum soil moisture has been attained due to
			light rain in past few days.
			- Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with
			2-3 buds may be sown. Mother rhizome can also be used as seed by
			cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		- To preserve the soil moisture gained from light rain during past few days
	[^]		mulching in between rows using dried twigs/ paddy straw/ dry leaves or
			harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is
			advised for better growth.
			- Pinch off the flower bud as soon as it develops.
Potato	Tuber		- Incidence of late blight may be observed with rains. If observed, spray
	development to		Redomil MZ @ 2g/ lit of water.
	maturity		





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Cucurbits	Vegetative		- Adequate manuring and fertilization should be given.
Cucuibits	vegetative		- 30 days old seedlings being transplanted (nursery from pro-tray/
			polythene bags) need support for staking.
			- Weeding/ inter-culture operation and top dressing may be done.
			- In vegetative stage, staking/ support should be provided.
Tomata	Vegetative		In tomato foliar fertilization of nitrogen is very much effective. In a
Tomato	vegetative		hectare crop area, it may be done as follows:
			 For 30 days old crop : 9.71 kg Urea in 1000 lit of water For 40 days old crop : 14.4 kg Urea in 1500 lit of water
			 For 50 days old crop : 10.2 kg Urea in 2000 lit of water
A			• For 50 days old crop : 19.3 kg Urea in 2000 lit of water
Animal Science Name of the		Disease/ infestation	Agra motoovolagical advisories
animal	Growth stage	Disease/ intestation	Agro-meteorological advisories
Pig	Above 3 months	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.
	of age		
Cattle / Buffalo/	All age groups	B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation)
Mithun	except three	Haemorrhagic	is advised.
	months or below	Septicaemia	
Goat	All susceptible	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
	age groups		
	All susceptible age groups	Ranikhet Disease	- By the end of winter and before summer sets in, birds should be
Poultry			vaccinated against <i>Ranikhet disease</i> .
		Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Coximar (@ 2g/lit of drinking</i>
			water) for 5 to 7 days
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp &	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
•	grass carp	Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
	brooders	Fish	Male and female brooders should be stock in separate ponds.
			Brooders of 2-3 years old having more than 1kg should be selected for
			seed production.
		Feed	Feed should be provided @ 1-2% body weight per day.
			Feed can be fed 2 times a day.
	Breeding	pond	
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg <i>fish</i> for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg
			 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of grass carp.
	Breeding	pond ponds	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of grass carp. Water depth should be maintained at 1.0m
			 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of grass carp.



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MANIPUR BULLETIN 22nd March, 2013

Ukhrul

<u>Significa</u> It	nt past weather for the mphal - West (19 th to 2	e preceding bi-weekly (21 st March, 2013)	of Weather forecast for next five days of Ukhrul (23 rd to 27 th March, 2013)
mainly clou days. Maxi 29.2 °C, rat 12.9 °C, m afternoon	udy. No rainfall was imum temperature ra nge of minimum temp ean relative humidity	sky was partly cloud recorded during past to nge observed was 26 erature observed was 9 observed in morning 36.3 % respectively. 2 - 5.2 km/hr.	three is likely to be partly cloudy during next five days. The maximum temp. is likely to be 25.0 - 29.0 °C. The minimum temp. is likely to be 9.0 - 12.0 °C. The maximum RH is likely to attain a max value of 81 %. Minimum RH is likely to reach a
Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice			* Maintain 5-8cm of water level in those fields in which seedlings from
			dry nursery was transplanted.

Field Crops			
Rice	Pre- Kharif rice		* Maintain 5-8cm of water level in those fields in which seedlings from
			dry nursery was transplanted.
			* In wet nursery:
			- Uprooting of seedlings may be done when seedlings are 30-45 days old.
			- Land preparation of main field for transplanting may be done.
Maize	Vegetative		- 60 kg of Nitrogen fertilizer per ha is recommended at the time of inter-
	5		culture operation at knee-high stage.
		- Stem borer	- Apply 2-3 granules of Furadan 3G at the whorl of each plant.
Rapeseed	Harvesting		- Mature crop may be harvested. After harvesting, it must be sun dried for
			2-3 days and threshed. Cleaned seeds must be packed and stored in
			wooden rack.
Field Pea	Harvesting		- Harvest the mature pods. Pods selected for seed for next season may be
	_		sun dried for 2-3 days.
Storage			- Seeds must be stored in RC-seed bins after proper drying. Check for
0			germination of seeds or fungal growth. Clean and dry the seeds.
Horticulture C	Trops		
Turmeric/	Rhizome selection		- Prepare the bed thoroughly. Apply 20 cartloads of FYM/ sangam while
Ginger	& sowing		preparing land.
U			- Sort out healthy disease free rhizome seed from store/ pit and spread
			them in airy shed for 2-3 days. Treat them with Carbendazim and also
			with an insecticide before sowing. Let it dry (in case of wet solution
			treatment).
			- Sowing must be done as optimum soil moisture has been attained due to
			light rain in past few days.
			- Maintain 3-4 inches depth while sowing. Rhizome finger 25-30 gm with
			2-3 buds may be sown. Mother rhizome can also be used as seed by
			cutting into pieces with 2-3 buds.
Onion/ Garlic	Bulb development		- To preserve the soil moisture gained from light rain during past few days
			mulching in between rows using dried twigs/ paddy straw/ dry leaves or
			harvest remains of crop like cabbage/cauliflower/ pea or rapeseed is
			advised for better growth.
			- Pinch off the flower bud as soon as it develops.
Cucurbits	Vegetative		- 30 days old seedlings being transplanted (nursery from pro-tray/
			polythene bags) need support for staking.
			- Weeding/ inter-culture operation and top dressing may be done.





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			- In vegetative stage, staking/ support should be provided.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose.
Cattle / Buffalo/ Mithun	All age groups except three months or below	B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
Poultry		Ranikhet Disease	- By the end of winter and before summer sets in, birds should be vaccinated against <i>Ranikhet disease</i> .
	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Coximar (@ 2g/lit of drinking water) for 5 to 7 days</i>
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp &	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
	grass carp	Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
	brooders	Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	 Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp. Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of grass carp.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.