

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

15th June, 2018

Bishnupur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(12^{th}\ to\ 14^{th}\ June,\ 2018)$

Observed **155.3 mm** rainfall with **overcast sky**. Maximum temperature recorded ranged from **23.6** to **27.0** °C and minimum of **21.4** to **21.6** °C with mean relative humidity 9**4.7** % max and **90.3** % min was recorded in the past three days with average wind speed was **0.8-1.9** km/ hr.

Weather forecast for next five days of Bishnupur (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 26-28 $^{\circ}$ C & minimum temp. 21-22 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 68 % (min RH). The average wind speed may be 0-2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Grain filling stage		 Construct bands around the crop field to maintain water level at 5-8 cm. Drain out excess water from the field accumulated due to heavy rains.
	(Pre-kharif rice)	Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
Rice	Nursery and land preparation of main field (Kharif rice)		 Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done after rains.
Soybean	Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Sowing		- Seed rate is $100-110~{\rm kg/ha}$ and the recommended varieties are ICGS-75 & JL-24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1	•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower (Early)	Land preparation to nursery sowing		 Apply 1-2 kg FYM/ m². Drench the soil with Captan 50 W.P. Raise nursery under low cost poly house to protect young plants from rain.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		 - Weeding and earthing up may be done after the wet spell. - Avoid water logging. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Chilli/ capsicum	Flowering and fruiting to harvesting		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.
Cowpea	Sowing		 Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. Recommended varieties: Yard long bean & Pusa Barsati.



Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Science			
			nage may be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease ar Manageme	
Poultry (Chicken/ Duck)	All age groups	Ranikhet diseas	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Endoparasites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	Goat All age groups • Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management	 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
	All age groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Skin disease	• Sprayer of Anti-Psoroptic may be used.
	ones	Management	Breeding must be advocated continuously.
			Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Care & Manage	
Fishery			
			ht to avoid escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

15th June, 2018

Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (12th to 14th June, 2018)

Observed **155.3 mm** rainfall with **overcast sky**. Maximum temperature recorded ranged from **23.6** to **27.0** °C and minimum of **21.4** to **21.6** °C with mean relative humidity 9**4.7** % max and **90.3** % min was recorded in the past three days with average wind speed was **0.8-1.9** km/ hr.

Weather forecast for next five days of Chandel (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 25-28 $^{\circ}$ C & minimum temp. 21-24 $^{\circ}$ C. Relative humidity may reach upto 98 $^{\circ}$ 6 (max RH) & 70 $^{\circ}$ 6 (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
71000000000	Sugo	1 050 0110 0150050	- Construct bands around the crop field to maintain water level at 5-8 cm.
	Grain filling stage		- Drain out excess water from the field accumulated due to heavy rains.
	(Pre-kharif rice)	Sheath blight/	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
		sheath rot	
			- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC
Rice	Nursery and land		Maniphou- 13. Seeds for nursery may be sown after rains.
	preparation of		- Encircle the nursery plot with happa after sowing at least for 10 days so that the
	main field		seeds are not carried away if water level increases due to rains.
	(Kharif rice)		- Land preparation of main field may be done after rains for transplanting rice
			seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and
T71 '0 N # '	G :		45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done after rains.
Soybean	Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x
			30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or
			with Thiram.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
	8		24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with
			Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept
Bean			weed free to avoid insect/ pest.
			For seed purpose store the seeds in RC-Seed Bin after proper drying and
	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
Seeds storage	management		moisture content or weight of charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying properly. Spray
Hantiaultura Cuana			Malathion 1% on the walls of stores.
Horticulture Crops Name of the crop	Ctoro	Pest and disease	A gramatoonal advisarias
Cauliflower	Stage Land preparation	Pest and disease	Agro-meteorological advisories - Apply 1-2 kg FYM/ m². Drench the soil with Captan 50 W.P.
	to nursery sowing		- Apply 1-2 kg F 1 M/ III . Diench the soft with Capitan 30 W.F Raise nursery under low cost poly house to protect young plants from rain.
(Early)	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as
Turmeric	vegetative		prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell.
Colocassia	vegetative		- Avoid water logging.
			- Prophylactic measures against leaf blight should be taken up. Spray Redomil@
			1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days
			interval after this wet spell.
Chilli/ capsicum	Flowering and		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%
-	fruiting to		WP) @ 2 g/ litre of water to control the fungal attack after rains.
Common	harvesting		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon,
Cowpea	Sowing		orange, passion fruit, etc.
			- Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to
			row; raised beds are preferred for sowing.
	1		- Recommended varieties: Yard long bean & Pusa Barsati.



Manipur Centre, Lamphelpat, Imphal - 795 004





Name of bird/	Stage	Disease ar	nage may be constructed well around the birds or animals sheds to avoid water logging. Agro-meteorological advisories
animal	Stage	Manageme	
Poultry (Chicken/ Duck)	All age groups	Ranikhet diseas	
		Endoparasites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		 Coccidiosis 	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management	 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
			 Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Care & Manage	Mixture of mineral/salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
Fishery			
			ht to avoid escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.



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Churachandpur

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Weather forecast for next five days of Churachandpur (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 25-27 $^{\circ}$ C & minimum temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 67 % (min RH). The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Sugo		- Construct bands around the crop field to maintain water level at 5-8 cm.
	Grain filling stage		- Drain out excess water from the field accumulated due to heavy rains.
	(Pre-kharif rice)	Sheath blight/	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
		sheath rot	
			- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC
Rice	Numerous and land		Maniphou- 13. Seeds for nursery may be sown after rains.
	Nursery and land preparation of		- Encircle the nursery plot with happa after sowing at least for 10 days so that the
	main field		seeds are not carried away if water level increases due to rains.
	(Kharif rice)		- Land preparation of main field may be done after rains for transplanting rice
	(IIIIIII I IICC)		seedling and submerge it for 15-20 days. Apply 65 kg Urea, 250 kg SSP and
			45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done after rains.
Soybean	Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the
			recommended variety is J.S.335. Sowing may be done at spacing of 45cm x
			30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or
~ -			with Thiram.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
			24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with
Dll / D!	Corring		Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept
Blackgram/ Rice	Sowing		weed free to avoid insect/ pest.
Bean			<u>^</u>
	D4 b		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and
Coods stores	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Seeds storage	management		For grains, store grains in well ventilated godowns after drying properly. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops	1		1/Minute 1/0 of the Walls of Stores
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Land preparation		- Apply 1-2 kg FYM/ m ² . Drench the soil with Captan 50 W.P.
(Early)	to nursery sowing		- Raise nursery under low cost poly house to protect young plants from rain.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as
Turmerie	, ogottur, o		prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell.
Corocussiu			- Avoid water logging.
			- Prophylactic measures against leaf blight should be taken up. Spray Redomil@
			1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days
			interval after this wet spell.
Chilli/ capsicum	Flowering and		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%
	fruiting to		WP) @ 2 g/ litre of water to control the fungal attack after rains.
Cowpea	harvesting Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon,
Cowpea	Sowing		orange, passion fruit, etc.
			- Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to
			row; raised beds are preferred for sowing.
	1	l	- Recommended varieties: Yard long bean & Pusa Barsati.



Manipur Centre, Lamphelpat, Imphal - 795 004





				e constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease an Manageme	ent	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease		 Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Endoparasites		• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management		• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		 Coccidiosis 		• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat All age groups		Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management		 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.
ones		Management		 Breeding must be advocated continuously. Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	Vaccination		 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming Care & Management		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
				• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
Fishery				
	with happa net or raise			
Type of Farming	Stage	Management		etrological advisories
Carp culture	Breeding	pond		nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> of fish.
	Hatcheries	water	hatcheries	can be done in traditional happas having outer & inner happas or circular s. A mild current with fine shower is needed for circular hatcheries. Feed should ven for 3 days.
	Nurseries	ponds	- Stock 20	0-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m.

Feeding should be given@5-10% body weight/day.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

15th June, 2018

Imphal East

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Weather forecast for next five days of Imphal East (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 25-27 $^{\circ}$ C & minimum temp. 22-24 $^{\circ}$ C. Relative humidity may reach upto 100 $^{\circ}$ 6 (max RH) & 64 $^{\circ}$ 6 (min RH). The average wind speed may be 2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Construct bands around the crop field to maintain water level at 5-8 cm.
	Grain filling stage		- Drain out excess water from the field accumulated due to heavy rains.
	(Pre-kharif rice)	Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
Rice	Nursery and land preparation of main field (Kharif rice)		 Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done after rains.
Soybean	Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower (Early)	Land preparation to nursery sowing		 Apply 1-2 kg FYM/ m². Drench the soil with Captan 50 W.P. Raise nursery under low cost poly house to protect young plants from rain.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell Avoid water logging Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Chilli/ capsicum	Flowering and fruiting to harvesting		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.
Cowpea	Sowing		 Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. Recommended varieties: Yard long bean & Pusa Barsati.

lice) infection

EUS (Epizostic Ulcerative

Syndrome)



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Science	es			
	drinking water for bird			be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease at Managem		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease		• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Endoparasites		De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management		Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		Coccidiosis		Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups • Vaccination			If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management		 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management		Breeding must be advocated continuously. Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination		 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming Care & Management		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
				• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
Fishery				
	with happa net or raise			
Type of Farming	Stage	Management		etrological advisories
Carp culture	Breeding	pond		rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ \(ml/kg \) of fish.
	Hatcheries	water	hatcheri	g can be done in traditional happas having outer & inner happas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should iven for 3 days.
	Nurseries	ponds	- Stock	20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.
	Carp diseases	Argulus (fish		ye all the fishes and give a bath treatment for 15 min per day in a solution of 1g

soaked overnight.

fishes.

KMnO₄ (Potassium permanganate) in 10 litres of water for 5-7 days.

- Treat one hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste

- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

15th June, 2018

Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 14th June, 2018)

Observed **155.3 mm** rainfall with **overcast sky**. Maximum temperature recorded ranged from **23.6** to **27.0** °C and minimum of **21.4** to **21.6** °C with mean relative humidity 9**4.7** % max and **90.3** % min was recorded in the past three days with average wind speed was **0.8-1.9** km/ hr.

Weather forecast for next five days of Imphal West (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 25-27 $^{\circ}$ C & minimum temp. 22-24 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 75 % (min RH). The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Grain filling stage		 Construct bands around the crop field to maintain water level at 5-8 cm. Drain out excess water from the field accumulated due to heavy rains.
	(Pre-kharif rice)	Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
Rice	Nursery and land preparation of main field (Kharif rice)		 Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done after rains.
Soybean	Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Sowing		- Seed rate is $100-110~{\rm kg/ha}$ and the recommended varieties are ICGS-75 & JL-24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1	•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower (Early)	Land preparation to nursery sowing		 Apply 1-2 kg FYM/ m². Drench the soil with Captan 50 W.P. Raise nursery under low cost poly house to protect young plants from rain.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		 - Weeding and earthing up may be done after the wet spell. - Avoid water logging. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Chilli/ capsicum	Flowering and fruiting to harvesting		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.
Cowpea	Sowing		 Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. Recommended varieties: Yard long bean & Pusa Barsati.



Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Science	res			
* Provide clean				be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease an Manageme		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease		• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Endoparasites		De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management		• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		Coccidiosis		Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management		 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups • De-worming			De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management		 Breeding must be advocated continuously. Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	Vaccination		 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming Care & Management		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
				• Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
Fishery				
	with happa net or raise			
Type of Farming	Stage	Management		etrological advisories
Carp culture	Breeding	pond	0.5 - 0.7	rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ ml/kg of fish.
	Hatcheries	water	hatcheri	g can be done in traditional happas having outer & inner happas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should iven for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more Feeding should be given@5-10% body weight/day.	
	Carp diseases Argulus (fish lice) infection		- Remov KMnO ₄ - Treat o	we all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. one hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight.
		EUS (Epizostic Ulcerative Syndrome)		CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected

SMS:

Lakliba Yumjakeisa faoba nong khara churaba yai. Colibacilosis ta gi ngakthoknanaba leinang chenba ishing sha uchekta pithakoidabani. Yenda Coccidiosis laina ngakthoknaba thaknaba ishing litre amada 2g Amprolium happaga pibiyu. Oakta til leitanaba masag arumba kg ama khudingda 7.5mg Albendazole pibiyu.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

15th June, 2018

Senapati

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 14th June, 2018)

Observed **155.3 mm** rainfall with **overcast sky**. Maximum temperature recorded ranged from **23.6** to **27.0** °C and minimum of **21.4** to **21.6** °C with mean relative humidity 9**4.7** % max and **90.3** % min was recorded in the past three days with average wind speed was **0.8-1.9** km/ hr.

Weather forecast for next five days of Senapati (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 22-24 $^{\circ}$ C & minimum temp. 19-20 $^{\circ}$ C. Relative humidity may reach upto 100 $^{\circ}$ 6 (max RH) & 75 $^{\circ}$ 6 (min RH). The average wind speed may be 1-2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
_	Grain filling stage		 Construct bands around the crop field to maintain water level at 5-8 cm. Drain out excess water from the field accumulated due to heavy rains.
	(Pre-kharif rice)	Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
Rice	Nursery and land preparation of main field (Kharif rice)		 Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done after rains.
Soybean	Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower (Early)	Land preparation to nursery sowing		 Apply 1-2 kg FYM/ m². Drench the soil with Captan 50 W.P. Raise nursery under low cost poly house to protect young plants from rain.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		 - Weeding and earthing up may be done after the wet spell. - Avoid water logging. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Chilli/ capsicum	Flowering and fruiting to harvesting		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.
Cowpea	Sowing		 Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. Recommended varieties: Yard long bean & Pusa Barsati.



Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Scienc			
			nage may be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease ar Manageme	0 0
Poultry (Chicken/ Duck)	All age groups	Ranikhet diseas	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Endoparasites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	/ Goat All age groups • Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management	 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
			Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Care & Manage	
Fishery			
			ht to avoid escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

15th June, 2018

Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 14th June, 2018)

Observed **155.3 mm** rainfall with **overcast sky**. Maximum temperature recorded ranged from **23.6** to **27.0** °C and minimum of **21.4** to **21.6** °C with mean relative humidity 9**4.7** % max and **90.3** % min was recorded in the past three days with average wind speed was **0.8-1.9** km/ hr.

Weather forecast for next five days of Tamenglong (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 23-25 $^{\circ}$ C & minimum temp. 19-20 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 65 % (min RH). The average wind speed may be 1-2 km/hr.

Rice Nu pre ma (K Kharif Maize Soybean So Groundnut So	Grain filling stage Pre-kharif rice) Nursery and land oreparation of nain field Kharif rice) Sowing Sowing	Sheath blight/ sheath rot	Agro-meteorological advisories - Construct bands around the crop field to maintain water level at 5-8 cm Drain out excess water from the field accumulated due to heavy rains. - Apply Propiconazole @ 15ml/ 15 litres water after rains. - Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Rice Nu pre ma (K Kharif Maize So Soybean So Groundnut So Blackgram/ Rice So	Nursery and land oreparation of nain field Kharif rice)	· ·	 Apply Propiconazole @ 15ml/ 15 litres water after rains. Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Rice Nu pre ma (K Kharif Maize So Soybean So Groundnut So Blackgram/ Rice So	Nursery and land oreparation of nain field Kharif rice)	· ·	 Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize Soybean So Groundnut So Blackgram/ Rice So	oreparation of main field Kharif rice)	sheath rot	Maniphou- 13. Seeds for nursery may be sown after rains. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize Soybean So Groundnut So Blackgram/ Rice So	oreparation of main field Kharif rice)		Maniphou- 13. Seeds for nursery may be sown after rains. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize Soybean So Groundnut So Blackgram/ Rice So	oreparation of main field Kharif rice)		 - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize So Soybean So Groundnut So Blackgram/ Rice So	oreparation of main field Kharif rice)		seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize So Soybean So Groundnut So Blackgram/ Rice So	nain field Kharif rice) Sowing		- Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15-20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize So Soybean So Groundnut So Blackgram/ Rice So	Kharif rice) Sowing		seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize So Soybean So Groundnut So Blackgram/ Rice So	Sowing		45 kg MOP per hectare at the time of final leveling before transplanting.
Soybean So Groundnut So Blackgram/ Rice So			
Soybean So Groundnut So Blackgram/ Rice So			
Groundnut So Blackgram/ Rice So	Sowing		- Sowing may be done after rains.
Blackgram/ Rice So			- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the
Blackgram/ Rice So			recommended variety is J.S.335. Sowing may be done at spacing of 45cm x
Blackgram/ Rice So			30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or
Blackgram/ Rice So			with Thiram.
0	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
0			24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
0	¹arrina		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept
Bean	Sowing		weed free to avoid insect/ pest.
			_
D.	N 41		For seed purpose store the seeds in RC-Seed Bin after proper drying and
	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Seeds storage ma	nanagement		For grains, store grains in well ventilated godowns after drying properly. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	and preparation		- Apply 1-2 kg FYM/ m ² . Drench the soil with Captan 50 W.P.
	o nursery sowing		- Raise nursery under low cost poly house to protect young plants from rain.
	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as
Turneric .	8		prophylactic measures after the rain.
Colocassia Ve	Vegetative		- Weeding and earthing up may be done after the wet spell.
Colocustia			- Avoid water logging.
			- Prophylactic measures against leaf blight should be taken up. Spray Redomil@
			1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days
			interval after this wet spell.
	lowering and		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%
	ruiting to		WP) @ 2 g/ litre of water to control the fungal attack after rains.
	arvesting		Courses may be course as an interest in the finite and an interest in the
Cowpea So	1		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc.
	Sowing		Orange, passion truit, etc.
	Sowing		
	Sowing		- Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing.



Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Scienc			
			nage may be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease ar Manageme	ent
Poultry (Chicken/ Duck)	All age groups	Ranikhet diseas	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Endoparasites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management	 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
	All age groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Skin disease	• Sprayer of Anti-Psoroptic may be used.
		Management	Breeding must be advocated continuously.
			Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Care & Manage	 Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
Fishery			
			ght to avoid escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

15th June, 2018

Churachandpur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 14th June, 2018)

Observed **155.3 mm** rainfall with **overcast sky**. Maximum temperature recorded ranged from **23.6** to **27.0** °C and minimum of **21.4** to **21.6** °C with mean relative humidity 9**4.7** % max and **90.3** % min was recorded in the past three days with average wind speed was **0.8-1.9** km/ hr.

Weather forecast for next five days of Churachandpur (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 25-27 $^{\circ}$ C & minimum temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 67 % (min RH). The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Sugo	1 050 0110 0150050	- Construct bands around the crop field to maintain water level at 5-8 cm.
Rice	Grain filling stage		- Drain out excess water from the field accumulated due to heavy rains.
	(Pre-kharif rice)	Sheath blight/	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
		sheath rot	
			- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC
	Numerous and land		Maniphou- 13. Seeds for nursery may be sown after rains.
	Nursery and land preparation of		- Encircle the nursery plot with happa after sowing at least for 10 days so that the
	main field		seeds are not carried away if water level increases due to rains.
	(Kharif rice)		- Land preparation of main field may be done after rains for transplanting rice
	(IIIIIII I IICC)		seedling and submerge it for 15-20 days. Apply 65 kg Urea, 250 kg SSP and
			45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done after rains.
Soybean	Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the
			recommended variety is J.S.335. Sowing may be done at spacing of 45cm x
			30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or
~ -			with Thiram.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
			24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with
Dll / D!	Corring		Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept
Blackgram/ Rice	Sowing		weed free to avoid insect/ pest.
Bean			<u>^</u>
	D4 b		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and
Coods stores	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Seeds storage	management		For grains, store grains in well ventilated godowns after drying properly. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops	1		Transmort 1/0 on the walls of stores.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Land preparation		- Apply 1-2 kg FYM/ m ² . Drench the soil with Captan 50 W.P.
(Early)	to nursery sowing		- Raise nursery under low cost poly house to protect young plants from rain.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as
Turmerie			prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell.
Colocussia			- Avoid water logging.
			- Prophylactic measures against leaf blight should be taken up. Spray Redomil@
			1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days
			interval after this wet spell.
Chilli/ capsicum	Flowering and		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%
•	fruiting to		WP) @ 2 g/ litre of water to control the fungal attack after rains.
Cowpea	harvesting Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon,
Cowpea	Sowing		orange, passion fruit, etc.
			- Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to
			row; raised beds are preferred for sowing.
	1	i	- Recommended varieties: Yard long bean & Pusa Barsati.



Manipur Centre, Lamphelpat, Imphal - 795 004





				e constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease an Manageme	ent	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease		 Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Endoparasites		• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management		• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		• Coccidiosis		• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management		 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management		 Breeding must be advocated continuously. Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	Vaccination		 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming Care & Management		 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
				• Mixture of mineral/salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
Fishery				
	with happa net or raise			
Type of Farming	Stage	Management		trological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the broode 0.5 - 0.7 ml/kg of fish.	
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed sh not be given for 3 days.	
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1	

Feeding should be given@5-10% body weight/day.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

15th June, 2018

Ukhrul

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 14th June, 2018)

Observed **155.3 mm** rainfall with **overcast sky**. Maximum temperature recorded ranged from **23.6** to **27.0** °C and minimum of **21.4** to **21.6** °C with mean relative humidity 9**4.7** % max and **90.3** % min was recorded in the past three days with average wind speed was **0.8-1.9** km/ hr.

Weather forecast for next five days of Ukhrul (16th to 20th June, 2018)

Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 23-25 °C & minimum temp. 19-21 °C. Relative humidity may reach upto 98 % (max RH) & 72 % (min RH). The average wind speed may be 2-3 km/hr.

Rice Nursprepmair (Kh: Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/Rice Bean Post	ving	Sheath blight/ sheath rot	Agro-meteorological advisories Construct bands around the crop field to maintain water level at 5-8 cm. Drain out excess water from the field accumulated due to heavy rains. Apply Propiconazole @ 15ml/ 15 litres water after rains. Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. Sowing may be done after rains. Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Rice Nursprepmair (Kh: Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/ Rice Bean Post	esery and land paration of n field harif rice) wing	<u> </u>	 Apply Propiconazole @ 15ml/ 15 litres water after rains. Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. Sowing may be done after rains. Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Rice Nursprepmair (Kh: Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/ Rice Bean Post	esery and land paration of n field harif rice) wing	<u> </u>	 Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. Seeds for nursery may be sown after rains. Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. Sowing may be done after rains. Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Nurs prep mair (Kh: Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/ Rice Bean	paration of n field narif rice) wing wing wing	sheath rot	Maniphou- 13. Seeds for nursery may be sown after rains. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - Sowing may be done after rains. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Nurs prep mair (Kh: Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/ Rice Bean	paration of n field narif rice) wing wing wing		Maniphou- 13. Seeds for nursery may be sown after rains. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - Sowing may be done after rains. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Nurs prep mair (Kh: Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/ Rice Bean	paration of n field narif rice) wing wing wing		 Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. Sowing may be done after rains. Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/ Rice Bean Post	paration of n field narif rice) wing wing wing		seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - Sowing may be done after rains. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/ Rice Bean Post	wing ving ving		 Land preparation of main field may be done after rains for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. Sowing may be done after rains. Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Kharif Maize Sow Soybean Sow Groundnut Sow Blackgram/ Rice Bean Post	ving ving ving		seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - Sowing may be done after rains. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Soybean Sow Groundnut Sow Blackgram/ Rice Sow Bean Post	ving		 45 kg MOP per hectare at the time of final leveling before transplanting. Sowing may be done after rains. Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Soybean Sow Groundnut Sow Blackgram/ Rice Sow Bean Post	ving		 Sowing may be done after rains. Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Soybean Sow Groundnut Sow Blackgram/ Rice Sow Bean Post	ving		 Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Groundnut Sow Blackgram/ Rice Sow Bean Post	ving		recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Blackgram/ Rice Sow Bean Post			 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Blackgram/ Rice Sow Bean Post			with Thiram. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Blackgram/ Rice Sow Bean Post			- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Blackgram/ Rice Sow Bean Post			
Bean Post	vino		24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with
Bean Post	vino		Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Post	· · · · · 5		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept
			weed free to avoid insect/ pest.
			For seed purpose store the seeds in RC-Seed Bin after proper drying and
Seeds storage man	t harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
	nagement		moisture content or weight of charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying properly. Spray
II .: 1. C			Malathion 1% on the walls of stores.
Horticulture Crops	- Cu	D (1.1)	A (1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	d preparation ursery sowing		- Apply 1-2 kg FYM/ m ² . Drench the soil with Captan 50 W.P Raise nursery under low cost poly house to protect young plants from rain.
(Litting)			
Turmeric Veg	getative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as
C 1 · V	getative		prophylactic measures after the rain. - Weeding and earthing up may be done after the wet spell.
Colocassia Vege	getative		- Weeding and eartning up may be done after the wet spell Avoid water logging.
			- Avoid water logging Prophylactic measures against leaf blight should be taken up. Spray Redomil@
			1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days
			interval after this wet spell.
Chilli/ capsicum Flow	vering and		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%
fruiti	ing to		WP) @ 2 g/ litre of water to control the fungal attack after rains.
	resting		
Cowpea Sow	wing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon,
			orange, passion fruit, etc.
			- Land preparation; sowing spacing: $45 - 60$ cm from seed to seed and row to row; raised beds are preferred for sowing.
			THOW TAISED DEUS ARE DIFFERED FOR SOWING



Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Scienc			
			nage may be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease ar Manageme	
Poultry (Chicken/ Duck)	All age groups	Ranikhet diseas	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Endoparasites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Management	 Fly repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo).
	All age groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
	ones	Management	Breeding must be advocated continuously.
			Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Care & Manage	
Fishery			
			ht to avoid escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.