Phone: 2414654, 2414260, 2414749 ; Fax : (0385) 2414654, 2414749

E-mail: agromet_mnp@yahoo.co.uk ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 19th May, 2017

Bishnupur

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Bishnupur (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 14.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 28 - 30 ° C &
temperature range of 18.5 to 20.6 $^{\circ}$ C with mean relative humidity 97 %	minimum temp. 20 - 21 °C. Relative humidity may reach up to 96 % (max
max and 79 % min was recorded in the past three days.	RH) & 46 % (min RH). The average wind speed may be 4 km/hr.

Field Crops	I	I	1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation		- Maintain water level at 5-8 cm.
	(Pre-kharif rice)		- If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete
		Leaf folder and case	removal of water. Irrigate field after 48 hrs of top dressing. Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested
		worm etc	drain out the field immediately.
Rice	Land preparation	worm etc	- Prepare main plots for ploughing.
	to nursery (Main kharif rice)		- Raise community nursery in upland area/ terrace so that it may be least affected with the rains. Prepare $700m^2$ of land is for a hectare. Seed rate is $40 - 60$ Kg /ha for transplanting of rice. - Soak seeds and incubate before sowing.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS- 75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Kharif Maize	Sowing		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram & Rice bean	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops	- i		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Flowering & fruiting	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Tomato/ Brinjal	Vegetative to flowering		Apply 25kg Urea after 25-30days of transplanting.Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drink Name of bird/ animal	Stage	d animals. Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Shoon/Cost	excepts the young	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat	ones	Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months.
Pig	except the young ones	FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	 Spray with Skin Heal Spray in sufficient quantity.
	A 11	Fodder cultivation	> Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
Cattle	All age groups excepts the young	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
	ones	Mastitis	Animals should be milked completely.
0103	Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.	
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

E-mail: agromet_mnp@yahoo.co.uk



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



MANIPUR BULLETIN 19th May, 2017

Chandel

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Chandel (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 14.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 31 - 33 ° C &
temperature range of 18.5 to 20.6 ° C with mean relative humidity 97 %	minimum temp. 22 - 24 °C. Relative humidity may reach up to 85 % (max
max and 79 % min was recorded in the past three days.	RH) & 40 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation		- Maintain water level at 5-8 cm.
	(Pre-kharif rice)		- If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete
			removal of water. Irrigate field after 48 hrs of top dressing.
		Leaf folder and case	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested
Rice		worm etc	drain out the field immediately.
Inte	Land preparation		- Prepare main plots for ploughing.
	to nursery (Main		- Raise community nursery in upland area/ terrace so that it may be least affected
	kharif rice)		with the rains. Prepare 700m^2 of land is for a hectare. Seed rate is $40 - 60$ Kg /ha
			for transplanting of rice. - Soak seeds and incubate before sowing.
Soybean			Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44
Soybean	Sowing		kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal
	bowing		application during final ploughing or incorporated at the time of sowing. Seed
			rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut			Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-
	Sowing		75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is
	C C		recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg
			of MOP per ha as a basal application during final ploughing or incorporated at
			the time of sowing.
			Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal
Kharif Maize	Sowing		application during final ploughing or at the time of sowing. For high altitude
	. .		spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram &	Land preparation		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan.
Rice bean	to sowing		*
	D (1)		- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
Souda storage	Post harvest		drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds.
Seeds storage	management		- For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% in <i>godowns</i> .
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60
			cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a
			prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-
			G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per
	X <i>T</i>		pit may be incorporated in the soil before planting.
French Bean/	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Bhindi	-		
Turmeric	Planting of		- Before planting treat seed rhizome with Sixer @ $2g/kg$ seed or Trichoderma
	turmeric		harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25am X 40.45am
Cucurbits	Flowering &	Red Pumpkin	25cm X 40-45cm. Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Cucurdits	fruiting	Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre
	munng	Decile	of water.
	Vegetative to		- Apply 25kg Urea after 25-30days of transplanting.
Tomato/ Brinjal	flowering		- Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drink	ing water for birds a	nd animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Shoon/Cost	excepts the young	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat	ones	Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
D'-	All age groups except the young ones	Swine Fever FMD	 SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. Vaccinate against FMD after the age of 3 months.
Pig		Mineral feeding	 Vaccinate against two area the age of 5 months. Provide mineral mixture.
ones		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation Fodder cultivation	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
Cattle	All age groups	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
	excepts the young ones	Mastitis	Animals should be milked completely.
ones	Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.	
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.



MANIPUR BULLETIN 19th May, 2017

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Churachandpur (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 14.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 30 - 32 $^{\circ}$ C &
temperature range of 18.5 to 20.6 °C with mean relative humidity 97 %	minimum temp. 21 - 23 °C. Relative humidity may reach up to 96 % (max
max and 79 % min was recorded in the past three days.	RH) & 58 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	1	1	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation (Pre-kharif rice)		 Maintain water level at 5-8 cm. If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete removal of water. Irrigate field after 48 hrs of top dressing.
		Leaf folder and case worm etc	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately.
Rice	Land preparation to nursery (Main kharif rice)		 Prepare main plots for ploughing. Raise community nursery in upland area/ terrace so that it may be least affected with the rains. Prepare 700m² of land is for a hectare. Seed rate is 40 – 60 Kg /ha for transplanting of rice. Soak seeds and incubate before sowing.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS- 75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Kharif Maize	Sowing		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram & Rice bean	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops		1	X
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Flowering & fruiting	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Tomato/ Brinjal	Vegetative to flowering		Apply 25kg Urea after 25-30days of transplanting.Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drink	ing water for birds a	nd animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Sheep/ Goat	excepts the young	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat	ones	Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups except the young	Swine Fever FMD	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months.
Pig		Mineral feeding	 Vaccinate against FMD after the age of 3 months. Provide mineral mixture.
	ones	Care and management	Provide clean water (drinking). Add antibiotics in feed and water.
		management	Vaccinate against FMD.
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	> Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
Cattle	All age groups excepts the young	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
	ones	Mastitis	Animals should be milked completely.
ones	ones.	Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

Phone: 2414654, 2414260, 2414749 ; Fax : (0385) 2414654, 2414749

E-mail: agromet_mnp@yahoo.co.uk ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 19th May, 2017

Senapati

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Senapati (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 1 4.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 29 - 31 ° C &
temperature range of 18.5 to 20.6 ° C with mean relative humidity 97 %	minimum temp. 20 - 22 °C. Relative humidity may reach up to 93 % (max
max and 79 % min was recorded in the past three days.	RH) & 43 % (min RH). The average wind speed may be 2 km/hr.

Field Crops	I	T	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation (Pre-kharif rice)		 Maintain water level at 5-8 cm. If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete removal of water. Irrigate field after 48 hrs of top dressing.
		Leaf folder and case worm etc	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately.
Rice	Land preparation to nursery (Main kharif rice)		 Prepare main plots for ploughing. Raise community nursery in upland area/ terrace so that it may be least affected with the rains. Prepare 700m² of land is for a hectare. Seed rate is 40 – 60 Kg /ha for transplanting of rice. Soak seeds and incubate before sowing.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS- 75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Kharif Maize	Sowing		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram & Rice bean	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops	- H		J¥
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Flowering & fruiting	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Tomato/ Brinjal	Vegetative to flowering		Apply 25kg Urea after 25-30days of transplanting.Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drink	ing water for birds a	nd animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Shoon/Cost	excepts the young	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat	ones	Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
D'-	All age groups except the young ones	Swine Fever FMD	 SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. Vaccinate against FMD after the age of 3 months.
Pig		Mineral feeding	 Vaccinate against two area the age of 5 months. Provide mineral mixture.
ones		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation Fodder cultivation	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
Cattle	All age groups	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
	excepts the young ones	Mastitis	Animals should be milked completely.
ones	Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.	
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.



MANIPUR BULLETIN 19th May, 2017

Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Tamenglong (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 14.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 31 - 34 ° C &
temperature range of 18.5 to 20.6 $^{\circ}$ C with mean relative humidity 97 %	minimum temp. 21 - 23 °C. Relative humidity may reach up to 98 % (max
max and 79 % min was recorded in the past three days.	RH) & 52 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Panicle initiation	I est and disease	- Maintain water level at 5-8 cm.
	(Pre-kharif rice)		- If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete
	(,		removal of water. Irrigate field after 48 hrs of top dressing.
		Leaf folder and case	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested
D'		worm etc	drain out the field immediately.
Rice	Land preparation		- Prepare main plots for ploughing.
	to nursery (Main		- Raise community nursery in upland area/ terrace so that it may be least affected
	kharif rice)		with the rains. Prepare $700m^2$ of land is for a hectare. Seed rate is $40 - 60$ Kg /ha
			for transplanting of rice.
			- Soak seeds and incubate before sowing.
Soybean			Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44
	Sowing		kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal
			application during final ploughing or incorporated at the time of sowing. Seed
<u>a</u>			rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut	G .		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-
	Sowing		75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is
			recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at
			the time of sowing.
			Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal
Kharif Maize	Sowing		application during final ploughing or at the time of sowing. For high altitude
	Sowing		spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram &	Land preparation		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after
Rice bean	to sowing		rains. Treat the seed with Thiram or Captan.
Kitt Deall			- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
	Post harvest		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage	management		weight of seeds.
Secus storage	management		- For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% in <i>godowns</i> .
Horticulture Crops			JV
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60
			cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a
			prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-
			G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per
	T T		pit may be incorporated in the soil before planting.
French Bean/	Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi	flowering		
Turmeric	Planting of		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma
	turmeric		harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at
			25cm X 40-45cm.
Cucurbits	Flowering &	Red Pumpkin	Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	fruiting	Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre
	T T 4 4* 1		of water.
Tomato/ Brinjal	Vegetative to		- Apply 25kg Urea after 25-30days of transplanting.
	flowering		- Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drink	ing water for birds a	nd animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Sheep/ Goat	excepts the young	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat	ones	Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups except the young ones	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months.
Pig		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water.
			Vaccinate against FMD.
	All age groups excepts the young ones	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
0.44		Fodder cultivation	► Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
Cattle		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis Management	Animals should be milked completely. - Some female animals may get agitated due to the heat especially during night
		Management	time, protect and take care of it.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

E-mail: agromet_mnp@yahoo.co.uk



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



MANIPUR BULLETIN 19th May, 2017

Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Thoubal (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 14.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 30 - 33 ° C &
temperature range of 18.5 to 20.6 $^{\circ}$ C with mean relative humidity 97 %	minimum temp. 22 - 24 °C. Relative humidity may reach up to 96 % (max
max and 79 % min was recorded in the past three days.	RH) & 44 % (min RH). The average wind speed may be 4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation (Pre-kharif rice)		 Maintain water level at 5-8 cm. If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete removal of water. Irrigate field after 48 hrs of top dressing.
D.		Leaf folder and case worm etc	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately.
Rice	Land preparation to nursery (Main kharif rice)		 Prepare main plots for ploughing. Raise community nursery in upland area/ terrace so that it may be least affected with the rains. Prepare 700m² of land is for a hectare. Seed rate is 40 – 60 Kg /ha for transplanting of rice. Soak seeds and incubate before sowing.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS- 75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Kharif Maize	Sowing		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram & Rice bean	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Flowering & fruiting	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Tomato/ Brinjal	Vegetative to flowering		 Apply 25kg Urea after 25-30days of transplanting. Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drink Name of bird/ animal	ing water for birds an Stage	nd animals. Disease and	Agro-meteorological advisories
Name of Diru/ amina	Stage	Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	 Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Shoon/Cost	excepts the young	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat	ones	Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups except the young ones	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months.
Pig		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	All age groups excepts the young	Fodder cultivation	> Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
Cattle		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
	ones	Mastitis	Animals should be milked completely.
	Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.	
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field	·	Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

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

E-mail: agromet_mnp@yahoo.co.uk



MANIPUR BULLETIN 19th May, 2017

Ukhrul

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Ukhrul (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 14.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 29 - 31 ° C &
temperature range of 18.5 to 20.6 $^{\circ}$ C with mean relative humidity 97 %	minimum temp. 20 - 21 °C. Relative humidity may reach up to 82 % (max
max and 79 % min was recorded in the past three days.	RH) & 40 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation (Pre-kharif rice)		 Maintain water level at 5-8 cm. If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete removal of water. Irrigate field after 48 hrs of top dressing.
D		Leaf folder and case worm etc	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately.
Rice	Land preparation to nursery (Main kharif rice)		 Prepare main plots for ploughing. Raise community nursery in upland area/ terrace so that it may be least affected with the rains. Prepare 700m² of land is for a hectare. Seed rate is 40 – 60 Kg /ha for transplanting of rice. Soak seeds and incubate before sowing.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS- 75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Kharif Maize	Sowing		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram & Rice bean	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Flowering & fruiting	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Tomato/ Brinjal	Vegetative to flowering		 Apply 25kg Urea after 25-30days of transplanting. Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences			- weeding may be done to avoid insect pest infestation.
* Provide clean drink	ing water for hinds a	nd animals	
Name of bird/ animal	Stage	Disease and	Agro-meteorological advisories
Traine of biru/ ammai	Stage	Management	Agi 0-incitor ologicar auvisoritis
-	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Shoon/Cost	excepts the young	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat	ones	Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups except the young ones	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months.
Pig		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	Provide mineral mixture.
		Care and	Provide clean water (drinking).
		management	Add antibiotics in feed and water.
		Mites infestation	 Vaccinate against FMD. > Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	 Spray with Skin rear Spray in sufficient quality. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
Cattle	All age groups excepts the young	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
Cuttic		Mastitis	Animals should be milked completely.
ones	ones	Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.



MANIPUR BULLETIN 19th May, 2017

Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Imphal East (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 1 4.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 28 - 30 ° C &
temperature range of 18.5 to 20.6 ° C with mean relative humidity 97 %	minimum temp. 20 - 21 °C. Relative humidity may reach up to 99 % (max
max and 79 % min was recorded in the past three days.	RH) & 45 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Panicle initiation	I est anu uisease	- Maintain water level at 5-8 cm.
	(Pre-kharif rice)		- If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete
	()		removal of water. Irrigate field after 48 hrs of top dressing.
		Leaf folder and case	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested
D'		worm etc	drain out the field immediately.
Rice	Land preparation		- Prepare main plots for ploughing.
	to nursery (Main kharif rice)		- Raise community nursery in upland area/ terrace so that it may be least affected with the rains. Prepare $700m^2$ of land is for a hectare. Seed rate is $40 - 60$ Kg /ha for transplanting of rice.
			- Soak seeds and incubate before sowing.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS- 75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Kharif Maize	Sowing		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram & Rice bean	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% in <i>godowns</i> .
Horticulture Crops	~		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Flowering & fruiting	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Tomato/ Brinjal	Vegetative to flowering		 Apply 25kg Urea after 25-30days of transplanting. Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences		ч	
* Provide clean drink	ing water for birds a		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins ORS during evening. Avoid caking of litter materials.
	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Sheep/ Goat	excepts the young	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat	ones	Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
	All age groups except the young ones	De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Dia		Swine Fever FMD	 SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. Vaccinate against FMD after the age of 3 months.
Pig		Mineral feeding	 Provide mineral mixture.
Unes		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
	All age groups excepts the young ones	Mites infestation	> Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days
Cattle		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days

should be done.

8000-10,000 fingerlings can be stocked per ha.

Fish

Feed

Field

Paddy cum fish

culture

As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds. Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture. (I. Meghachandra Singh)

Sampling of fish for growth, diseases (if any) should be done by regular netting.



MANIPUR BULLETIN 19th May, 2017

Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 18 th May, 2017)	Weather forecast for next five days of Imphal West (20 th to 24 th May, 2017)
Observed mainly cloudy to cloudy sky but partly cloudy during afternoon	
hours of 18 th May and 14.8 mm rainfall was recorded during past three	Likely to have scattered rainfall over Manipur during next five days with
days. Maximum temperature range of 24.6 to 28.1 ° C and minimum	mainly clear to partly cloudy sky and maximum temp. 30 - 32 ° C &
temperature range of 18.5 to 20.6 ° C with mean relative humidity 97 %	minimum temp. 21 - 22 °C. Relative humidity may reach up to 98 % (max
max and 79 % min was recorded in the past three days.	RH) & 49 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops	1	1	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle initiation (Pre-kharif rice)		 Maintain water level at 5-8 cm. If the crop is at panicle initiation stage, apply 33 kg Urea/ha after complete removal of water. Irrigate field after 48 hrs of top dressing.
		Leaf folder and case worm etc	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately.
	Land preparation to nursery (Main kharif rice)		 Prepare main plots for ploughing. Raise community nursery in upland area/ terrace so that it may be least affected with the rains. Prepare 700m² of land is for a hectare. Seed rate is 40 – 60 Kg /ha for transplanting of rice. Soak seeds and incubate before sowing.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS- 75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Kharif Maize	Sowing		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram & Rice bean	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops		1	X
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Flowering & fruiting	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Tomato/ Brinjal	Vegetative to flowering		 Apply 25kg Urea after 25-30days of transplanting. Weeding may be done to avoid insect pest infestation.



"Gramin Krishi Mausam Seva"



Chilli/ capsicum	Vegetative to flowering		 In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Weeding may be done to avoid insect pest infestation.
Animal Sciences		ч	
* Provide clean drink	ing water for birds a		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins ORS during evening. Avoid caking of litter materials.
Shoon/Cost	All age groups	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
	excepts the young ones	Management	- Pregnant animal (more than 6 months) should be given additional feed.
		Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
	All age groups except the young ones	De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
		Swine Fever FMD	 SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. Vaccinate against FMD after the age of 3 months.
Pig		Mineral feeding	 Provide mineral mixture.
one.		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
	All age groups excepts the young ones	Mites infestation	> Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days
Cattle		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days

should be done.

8000-10,000 fingerlings can be stocked per ha.

Fish

Feed

Field

Paddy cum fish

culture

As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds. Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture. (I. Meghachandra Singh)

Sampling of fish for growth, diseases (if any) should be done by regular netting.