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 23rd May, 2017

Senapati

Significant past weather for the preceding bi-weekly of Imphal - West (19 th to 22 nd May, 2017) Observed mainly cloudy to cloudy sky upto 21 st morning and mainly	Weather forecast for next five days of Senapati (24 th to 28 th May, 2017) Likely to have fairly widespread rainfall over Manipur during Friday to
clear to partly cloudy thereafter and 46.1 mm rainfall was recorded	
during past four days. Maximum temperature range of 27.2 to 30.4 ° C	
and minimum temperature range of 19.4 to 21.0 °C with mean relative	
humidity 91 % max and 67.5 % min was recorded in the past four days.	

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. Drain out excess water if accumulated in the crop field due to rains. 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	Nursery (Main kharif rice)		 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. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after 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. - 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 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. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
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 &	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.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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 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.



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"Gramin Krishi Mausam Seva"



French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric/ Ginger	Vegetative		- 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.
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	1	1	
* 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 ones	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat		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	FMD Mineral feeding	 Vaccinate against FMD after the age of 3 months. Provide mineral mixture.
ones	ones	•	
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation Fodder cultivation Ectoparasites Mastitis	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. Butox@ 2ml/lit of water at forth nightly interval. 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.

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MANIPUR BULLETIN 23rd May, 2017

Tamenglong

Imj Obs clea dur	ar to partly cloudy thereafter and 46.1 mm rainfall was recorded ing past four days. Maximum temperature range of 27.2 to 30.4 °C	32 °C & minimum temp. 21 - 22 °C. Relative humidity may reach up to 98
and	I minimum temperature range of 19.4 to 21.0 ° C with mean relative	% (max RH) & 54 % (min RH). The average wind speed may be 2 km/hr.
hun	nidity 91 % max and 67.5 % min was recorded in the past four days.	

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. Drain out excess water if accumulated in the crop field due to rains. 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	Nursery (Main kharif rice)		 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. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after 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. - 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 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. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or
			with Thiram.
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 &	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.
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			Č. S S S S S S S S S S S S S S S S S S S
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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 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.



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"Gramin Krishi Mausam Seva"



French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric/ Ginger	Vegetative		- 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.
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	1	•	
* 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.
Sheen/Coat	excepts the young ones	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat		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.
Pig	All age groups	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.
rig	except the young ones	Mineral feeding	 Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation Fodder cultivation Ectoparasites Mastitis Management	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. Butox@ 2ml/lit of water at forth nightly interval. Animals should be milked completely. Some female animals may get agitated due to the heat especially during night
		wanagement	- Some female animals may get agitated due to the heat especially during hight time, protect and take care of it.



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MANIPUR BULLETIN 23rd May, 2017

Thoubal

clear to partly cloudy thereafter and	y upto 21 st morning and mainly 46.1 mm rainfall was recorded	Weather forecast for next five days of Thoubal (24 th to 28 th May, 2017) Likely to have fairly widespread rainfall over Manipur during Friday to Sunday with partly cloudy to mainly cloudy sky and maximum temp. 31 - 33 °C & minimum temp. 22 - 23 °C. Relative humidity may reach up to 97
and minimum temperature range of 19 humidity 91 % max and 67.5 % min was	4 to 21.0 ° C with mean relative	

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. Drain out excess water if accumulated in the crop field due to rains. 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	Nursery (Main kharif rice)		 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. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green
			aerial sprout after 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. - 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 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. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
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 &	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.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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.



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"Gramin Krishi Mausam Seva"



French Bean/	Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi	flowering		weeding may be done to avoid insect pest intestation.
Turmeric/ Ginger	Vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma
Turmeric/Ginger	vegetative		harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at
			25cm X 40-45cm.
Concernal 24 m	Elemente e P	D - J Dooralain	
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
			of water.
Tomato/ Brinjal	Vegetative to		- Apply 25kg Urea after 25-30days of transplanting.
	flowering		- Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum	Vegetative to		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%
	flowering		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	Disease and	Agro-meteorological advisories
		Management	
	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/		Deworming	➢ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Turkey/ Duck)			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 ones	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goul		Mineral feeding to	- Mineral mixtures are to be supplemented.
		protect (PICA)	
		Deworming	New born but not yet been dewormed should be given deworming agent.
		8	
		De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5
			mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
		Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	All age groups		administered after the age of 3 months.
Pig	except the young	FMD	- Vaccinate against FMD after the age of 3 months.
0	ones	Mineral feeding	Provide mineral mixture.
		Care and	Provide clean water (drinking).
		management	Add antibiotics in feed and water.
		U	Vaccinate against FMD.
	1	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.
	All age groups	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
~~~~~~	excepts the young	Mastitis	Animals should be milked completely.
	ones	Management	- Some female animals may get agitated due to the heat especially during night
		management	time, protect and take care of it.



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# MANIPUR BULLETIN 23rd May, 2017

## **Ukhrul**

Significant past weather for the preceding bi-weekly of Imphal - West (19 th to 22 nd May, 2017)	Weather forecast for next five days of Ukhrul
	(24 th to 28 th May, 2017)
Observed mainly cloudy to cloudy sky upto 21 st morning and mainly	Likely to have fairly widespread rainfall over Manipur during Friday to
clear to partly cloudy thereafter and 46.1 mm rainfall was recorded	Sunday with partly cloudy to mainly cloudy sky and maximum temp. 29 -
during past four days. Maximum temperature range of 27.2 to 30.4 $^{\circ}$ C	31 °C & minimum temp. 20 - 21 °C. Relative humidity may reach up to 88
and minimum temperature range of 19.4 to 21.0 ° C with mean relative	% (max RH) & 47 % (min RH). The average wind speed may be 2-4 km/hr.
humidity 91 % max and 67.5 % min was recorded in the past four days.	

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation (Pre-kharif rice)		<ul> <li>Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.</li> <li>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.</li> </ul>
		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	Nursery (Main kharif rice)		<ul> <li>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.</li> <li>Soak seeds and incubate before sowing.</li> <li>Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green</li> </ul>
Soybean	Sowing		<ul> <li>aerial sprout after sowing.</li> <li>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.</li> <li>Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.</li> </ul>
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. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or
			with Thiram.
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		<ul> <li>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.</li> <li>For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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.



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# "Gramin Krishi Mausam Seva"



French Bean/	Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi	flowering		weeding may be done to avoid insect pest intestation.
Turmeric/ Ginger	Vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma
Turmeric/Ginger	vegetative		harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at
			25cm X 40-45cm.
Concernal 24 m	Elemente e P	D - J Dooralain	
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
			of water.
Tomato/ Brinjal	Vegetative to		- Apply 25kg Urea after 25-30days of transplanting.
	flowering		- Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum	Vegetative to		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%
	flowering		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	Disease and	Agro-meteorological advisories
		Management	
	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/		Deworming	➢ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Turkey/ Duck)			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 ones	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goul		Mineral feeding to	- Mineral mixtures are to be supplemented.
		protect (PICA)	
		Deworming	New born but not yet been dewormed should be given deworming agent.
		8	
		De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5
			mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
		Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	All age groups		administered after the age of 3 months.
Pig	except the young	FMD	- Vaccinate against FMD after the age of 3 months.
0	ones	Mineral feeding	Provide mineral mixture.
		Care and	Provide clean water (drinking).
		management	Add antibiotics in feed and water.
		U	Vaccinate against FMD.
	1	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.
	All age groups	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
~~~~~~	excepts the young	Mastitis	Animals should be milked completely.
	ones	Management	- Some female animals may get agitated due to the heat especially during night
		management	time, protect and take care of it.

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

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MANIPUR BULLETIN 23rd May, 2017

Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (19 th to 22 nd May, 2017) Observed mainly cloudy to cloudy sky upto 21 st morning and mainly clear to partly cloudy thereafter and 46.1 mm rainfall was recorded	
during past four days. Maximum temperature range of 27.2 to 30.4 $^{\circ}\mathrm{C}$	31 °C & minimum temp. 18 - 19 °C. Relative humidity may reach up to 99
and minimum temperature range of 19.4 to 21.0 ° C with mean relative humidity 91 % max and 67.5 % min was recorded in the past four days.	% (max 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
	Panicle initiation (Pre-kharif rice)		 Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains. 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	Nursery (Main kharif rice)		 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. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after 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. - 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 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. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
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 &	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.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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 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.



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

"Gramin Krishi Mausam Seva"



French Bean/	Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi	flowering		······································
Turmeric/ Ginger	Vegetative		- 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.
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	1		
* 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 excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Sheep/ Goat		Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat		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.
Pig	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. Vaccinate against FMD after the age of 3 months.
IIg	ones	Mineral feeding	 Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation Fodder cultivation Ectoparasites Mastitis Management	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. Butox@ 2ml/lit of water at forth nightly interval. Animals should be milked completely. Some female animals may get agitated due to the heat especially during night time, protect and take care of it.

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 23rd May, 2017

Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (19 th to 22 nd May, 2017)	Weather forecast for next five days of Imphal West (24 th to 28 th May, 2017)
Observed mainly cloudy to cloudy sky upto 21 st morning and mainly	
clear to partly cloudy thereafter and 46.1 mm rainfall was recorded	Likely to have fairly widespread rainfall over Manipur during Friday to
during past four days. Maximum temperature range of 27.2 to 30.4 ° C	Sunday with partly cloudy to mainly cloudy sky and maximum temp. 29 -
and minimum temperature range of 19.4 to 21.0 ° C with mean relative	33 °C & minimum temp. 21 - 23 °C. Relative humidity may reach up to 99
humidity 91 % max and 67.5 % min was recorded in the past four days.	% (max RH) & 49 % (min RH). The average wind speed may be 2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation (Pre-kharif rice)	Leaf folder and case	 Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains. 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. Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested
		worm etc	drain out the field immediately.
Rice	Nursery (Main kharif rice)		 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. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after 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. - 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 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. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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 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.



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

"Gramin Krishi Mausam Seva"



French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric/ Ginger	Vegetative		- 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.
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	1	ı	
* 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 excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Sheer / Cost		Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat		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	FMD Mineral feeding	 Vaccinate against FMD after the age of 3 months. Provide mineral mixture.
ones	ones	Care and	
		management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation Fodder cultivation Ectoparasites Mastitis	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. Butox@ 2ml/lit of water at forth nightly interval. 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.

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

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MANIPUR BULLETIN 23rd May, 2017

Bishnupur

Significant past weather for the preced Imphal - West (19 th to 22 nd May, 2017) Observed mainly cloudy to cloudy sky clear to partly cloudy thereafter and 4	upto 21 st morning and mainly	
during past four days. Maximum tempe	rature range of 27.2 to 30.4 $^{\circ}$ C	
and minimum temperature range of 19.4	to 21.0 ° C with mean relative	% (max RH) & 55 % (min RH). The average wind speed may be 2-4 km/hr.
humidity 91 % max and 67.5 % min was	recorded in the past four days.	

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. Drain out excess water if accumulated in the crop field due to rains. 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	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. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after 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. - 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 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.
			- Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ $2.5g$ / kg seed or with Thiram.
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 &	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.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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 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.



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

"Gramin Krishi Mausam Seva"



French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric/ Ginger	Vegetative		- 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.
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	1	•	
* 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 excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Sheen/Coat		Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat		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.
Pig	All age groups	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.
rig	except the young ones	Mineral feeding	 Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation Fodder cultivation Ectoparasites Mastitis Management	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. Butox@ 2ml/lit of water at forth nightly interval. Animals should be milked completely. Some female animals may get agitated due to the heat especially during night
		wanagement	- Some female animals may get agitated due to the heat especially during hight time, protect and take care of it.



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



MANIPUR BULLETIN 23rd May, 2017

Chandel

Significant past weather for the preceding bi-w Imphal - West (19 th to 22 nd May, 2017) Observed mainly cloudy to cloudy sky upto 2 clear to partly cloudy thereafter and 46.1 mm	st morning and mainly	Weather forecast for next five days of Chandel (24 th to 28 th May, 2017) Likely to have fairly widespread rainfall over Manipur during Friday to Sunday with partly cloudy to mainly cloudy sky and maximum temp. 31 -
during past four days. Maximum temperature ra	nge of 27.2 to 30.4 $^{\circ}$ C	33 °C & minimum temp. 21 - 23 °C. Relative humidity may reach up to 91
and minimum temperature range of 19.4 to 21.0		% (max RH) & 56 % (min RH). The average wind speed may be 3-4 km/hr.
humidity 91 % max and 67.5 % min was recorded	in the past four days.	

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. Drain out excess water if accumulated in the crop field due to rains. 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	Nursery (Main kharif rice)		 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. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green
Soybean	Sowing		 aerial sprout after 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. 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 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. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or
			with Thiram. 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 & 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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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.



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

"Gramin Krishi Mausam Seva"



French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric/ Ginger	Vegetative		- 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.
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	1	1	
* 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 excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
Shoon/Coot		Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat		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	FMD	- Vaccinate against FMD after the age of 3 months.
ones	ones	Mineral feeding	Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation Fodder cultivation Ectoparasites Mastitis	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. Butox@ 2ml/lit of water at forth nightly interval. 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.

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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 23rd May, 2017

Churachandpur

	Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
1	Imphal - West $(19^{\text{th}} \text{ to } 22^{\text{nd}} \text{ May}, 2017)$	(24 th to 28 th May, 2017)
	Observed mainly cloudy to cloudy sky upto 21 st morning and mainly	Likely to have fairly widespread rainfall over Manipur during Friday to
0	clear to partly cloudy thereafter and 46.1 mm rainfall was recorded	
0	luring past four days. Maximum temperature range of 27.2 to 30.4 ° C	32 °C & minimum temp. 22 - 23 °C. Relative humidity may reach up to 97
8	and minimum temperature range of 19.4 to 21.0 °C with mean relative	% (max RH) & 62 % (min RH). The average wind speed may be 2-4 km/hr.
1	numidity 91 % max and 67.5 % min was recorded in the past four days.	

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. Drain out excess water if accumulated in the crop field due to rains. 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	Nursery (Main kharif rice)		 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. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green
Soybean	Sowing		aerial sprout after 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. - 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 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. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or
Kharif Maize	Sowing		with Thiram. 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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
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.



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

"Gramin Krishi Mausam Seva"



French Bean/	Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi	flowering		······································
Turmeric/ Ginger	Vegetative		- 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.
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	1	•	
* 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 ones	Management	- Pregnant animal (more than 6 months) should be given additional feed.
Sheep/ Goat		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.
Pig	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.
115		Mineral feeding	Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation Fodder cultivation Ectoparasites Mastitis Management	 Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. Butox@ 2ml/lit of water at forth nightly interval. Animals should be milked completely. Some female animals may get agitated due to the heat especially during night time, protect and take care of it.