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"



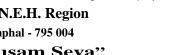
MANIPUR BULLETIN 4th September, 2016

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 th September to 3 rd October, 2016) The sky remain mainly cloudy upto 1 st morning then partly cloudy to mainly clear thereafter. 6.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 to 32.7 °C, range of minimum temperature observed was 21.5 to 22.6 °C, mean relative	will remain partly cloudy to cloudy with maximum temp. $27 - 29$ ° C & minimum temp. 17 - 19 ° C. Relative humidity may reach upto 92% (max
humidity observed in morning and afternoon were 91.3 % and 68.8 % respectively. The average wind speed range was 2.5 to 3.2 km/hr.	direction may be Easterly during next five days.

Name of the crop	Stage	Pest and disea	se Agro-meteorological advisories
Field Crops			
Main kharif rice			Maintain water level of 5-8cm.
	Flowering to dough and grain	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
	filling stage	Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
		Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Groundnut/ Soybean	Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Potato	Land preparation		Land preparation for planting potato may be started after rains.
Pre-kharif rice seeds	Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops	1	I.	Contraction of the second s
Cole Crops/ Onion	Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Ginger/ Turmeric	Rhizome formation		 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).
		Leaf blotch & Leaf Spot	Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb (2.5 g/l) is also recommended.
Rabi vegetables	Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances germination. Line sowing is highly recommended.





				Removal of gunny bag as soon as the seed get sprouted is very important.
Pea Land prepar to sowing		1		Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science		0		
Name of the animal	Growth stag	e Diseas	se/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age group	os Care &	z management	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains).
Turkey/ Duck)		Dewo	rming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age groups excepts the young ones	os Care δ	k management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. 	
		Vaccin	nation	Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-wo	orming	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	os Care a	nd management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds 	
	<i>J</i>	Mites	infestation	Spray with Skin Heal Spray in sufficient quantity.
		Dewor	rming	Give Piperazine liquid @ 10-15ml orally once only.
excep	All age group excepts the young ones		H.S/FMD	 > If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. > If the animals are afflicted by FMD, keep it in a separate enclosure. > Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. > The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endo	oarasites	> De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
			k management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
Fishery:	4	1		
Type of Farming	Stage	Manag	gement	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries			 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:





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"



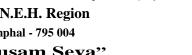
MANIPUR BULLETIN 4th September, 2016

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 th September to 3 rd October, 2016)	Weather forecast for next five days of Tamenglong (5 th to 9 th October, 2016)
The sky remain mainly cloudy upto 1 st morning then partly cloudy to	Likely to have heavy rainfall at isolated places from 6 th to 8 th October. Sky
mainly clear thereafter. 6.6 mm rainfall was recorded during past four	will remain partly cloudy to cloudy with maximum temp. $30 - 32$ ° C &
days. Maximum temperature range observed was 31.4 to 32.7 °C, range	minimum temp. 21 - 23 °C. Relative humidity may reach upto 92% (max
of minimum temperature observed was 21.5 to 22.6 ° C, mean relative	RH) & 78% (min RH). The average wind speed may be 2 km/hr. Wind
humidity observed in morning and afternoon were 91.3 % and 68.8 %	direction may be Easterly during next five days.
respectively. The average wind speed range was 2.5 to 3.2 km/hr.	

Name of the crop	Stage	Pest and diseas	se Agro-meteorological advisories
Field Crops			
Main kharif rice			Maintain water level of 5-8cm.
	Flowering to dough and grain	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
	filling stage	Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
		Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Groundnut/ Soybean	Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Potato	Land preparation		> Land preparation for planting potato may be started after rains.
Pre-kharif rice seeds	Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops	ł		
Cole Crops/ Onion	Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb (2.5 g/l) is also recommended.
Rabi vegetables	Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances germination. Line sowing is highly recommended.





				Removal of gunny bag as soon as the seed get sprouted is very important.
Pea	Land p to sow	reparation ng		Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science	s			
Name of the animal	Growth stag	ge Diseas	e/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age grou		z management	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains).
Turkey/ Duck)		Dewoi	rming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age groups excepts the young ones		ps Care &	z management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water.
		Vaccir	nation	Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-wo	rming	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		os Care a	nd management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
	Mites	infestation	Spray with Skin Heal Spray in sufficient quantity.	
		Dewor	ming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle All age groups excepts the young ones		H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate. 	
		Endor	parasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care &	z management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds.
				 Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
Fishery:		I		
Type of Farming	Stage	Manag	ement	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries			 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:









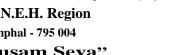
MANIPUR BULLETIN 4th September, 2016

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (30 th September to 3 rd October, 2016)	(5 th to 9 th October, 2016)
The sky remain mainly cloudy upto 1 st morning then partly cloudy to	Likely to have heavy rainfall at isolated places from 6 th to 8 th October. Sky
mainly clear thereafter. 6.6 mm rainfall was recorded during past four	will remain partly cloudy to cloudy with maximum temp. 28 – 30 ° C &
days. Maximum temperature range observed was 31.4 to 32.7 °C, range	minimum temp. 19 - 20 ° C. Relative humidity may reach upto 94% (max
of minimum temperature observed was 21.5 to 22.6 °C, mean relative	RH) & 76% (min RH). The average wind speed may be 0-2 km/hr. Wind
humidity observed in morning and afternoon were 91.3 % and 68.8 % respectively. The average wind speed range was 2.5 to 3.2 km/hr.	direction may be Easterly during next five days.

Name of the crop	Stage	Pest and disea	se Agro-meteorological advisories
Field Crops			
Main kharif rice			Maintain water level of 5-8cm.
	Flowering to dough and grain	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
	filling stage	Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
		Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Groundnut/ Soybean	Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Potato	Land preparation		Land preparation for planting potato may be started after rains.
Pre-kharif rice seeds	Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops	I	1	
Cole Crops/ Onion	Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb (2.5 g/l) is also recommended.
Rabi vegetables	Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances germination. Line sowing is highly recommended.





			Removal of gunny bag as soon as the seed get sprouted is very important.
Pea	Land prepa to sowing	aration	Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science	2S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age groups	Care & management	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains).
Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age groups excepts the young ones		Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water.
		Vaccination De-worming	 Vaccinate against sheep/ goat pox and Enterotaxaemia. 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		Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle All age groups excepts the young ones		B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	▶ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds.
T • 1			Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
Fishery:	L	L = -	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries		 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:





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"



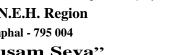
MANIPUR BULLETIN 4th September, 2016

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 th September to 3 rd October, 2016) The sky remain mainly cloudy upto 1 st morning then partly cloudy to mainly clear thereafter. 6.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 to 32.7 °C, range of minimum temperature observed was 21.5 to 22.6 °C, mean relative	Weather forecast for next five days of Ukhrul (5 th to 9 th October, 2016) Likely to have heavy rainfall at isolated places from 6 th to 8 th October. Sky will remain partly cloudy to cloudy with maximum temp. 27 – 29 ° C & minimum temp. 17 - 19 ° C. Relative humidity may reach upto 94% (max RH) & 76% (min RH). The average wind speed may be 0-3 km/hr. Wind
of minimum temperature observed was 21.5 to 22.6 °C, mean relative humidity observed in morning and afternoon were 91.3 % and 68.8 %	RH) & 76% (min RH). The average wind speed may be 0-3 km/hr. Wind direction may be Easterly during next five days.
respectively. The average wind speed range was 2.5 to 3.2 km/hr.	direction may be Easterry during next five days.

Name of the crop	Stage	Pest and diseas	se Agro-meteorological advisories
Field Crops			
Main kharif rice			Maintain water level of 5-8cm.
	Flowering to dough and grain	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
	filling stage	Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
		Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Groundnut/ Soybean	Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Potato	Land preparation		Land preparation for planting potato may be started after rains.
Pre-kharif rice seeds	Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops			Bereining.
Cole Crops/ Onion	Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb (2.5 g/l) is also recommended.
Rabi vegetables	Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances germination. Line sowing is highly recommended.





				Removal of gunny bag as soon as the seed get sprouted is very important.
to sowing		and preparation sowing	tion	Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science	?S			
Name of the animal	Growth	h stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age		Care & management Deworming	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains). Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age groups excepts the young ones		the	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water.
			Vaccination De-worming	 Vaccinate against sheep/ goat pox and Enterotaxaemia. 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		the	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.	
			Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle All age groups excepts the young ones	the	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate. 	
			Endoparasites	> De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
			Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
Fishery:				
Type of Farming	Stage		Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – nurserie		5	 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:





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



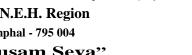
MANIPUR BULLETIN 4th September, 2016

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 th September to 3 rd October, 2016)	Weather forecast for next five days of Bishnupur (5 th to 9 th October, 2016)
The sky remain mainly cloudy upto 1 st morning then partly cloudy to	Likely to have heavy rainfall at isolated places from 6 th to 8 th October. Sky
mainly clear thereafter. 6.6 mm rainfall was recorded during past four	will remain partly cloudy to cloudy with maximum temp. 30 – 31 $^{\circ}$ C &
days. Maximum temperature range observed was 31.4 to 32.7 °C, range	minimum temp. 20 - 21 °C. Relative humidity may reach upto 93% (max
of minimum temperature observed was 21.5 to 22.6 ° C, mean relative	RH) & 84% (min RH). The average wind speed may be 0-2 km/hr. Wind
humidity observed in morning and afternoon were 91.3 % and 68.8 %	direction may be Easterly during next five days.
respectively. The average wind speed range was 2.5 to 3.2 km/hr.	

Name of the crop	Stage	Pest and diseas	se Agro-meteorological advisories
Field Crops			
Main kharif rice			Maintain water level of 5-8cm.
	Flowering to dough and grain	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
	filling stage	Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
		Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Groundnut/ Soybean	Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Potato	Land preparation		> Land preparation for planting potato may be started after rains.
Pre-kharif rice seeds	Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops	ł		
Cole Crops/ Onion	Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb (2.5 g/l) is also recommended.
Rabi vegetables	Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances germination. Line sowing is highly recommended.





				Removal of gunny bag as soon as the seed get sprouted is very important.
Pea	Land p to sow	reparation ng		Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science	s			
Name of the animal	Growth stag	ge Diseas	e/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age grou		z management	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains).
Turkey/ Duck)		Dewoi	rming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age groups excepts the young ones		ps Care &	z management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water.
		Vaccir	nation	Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-wo	rming	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		os Care a	nd management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites	infestation	Spray with Skin Heal Spray in sufficient quantity.
		Dewor	ming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle All age groups excepts the young ones		H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate. 	
		Endor	parasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care &	z management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds.
				 Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
Fishery:		I		
Type of Farming	Stage	Manag	ement	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries			 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:





ARD DEBI

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



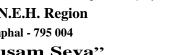
MANIPUR BULLETIN 4th September, 2016

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 th September to 3 rd October, 2016) The sky remain mainly cloudy upto 1 st morning then partly cloudy to mainly clear thereafter. 6.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 to 32.7 ° C, range of minimum temperature observed was 21.5 to 22.6 ° C, mean relative humidity observed in morning and afternoon were 91.3 % and 68.8 %	will remain partly cloudy to cloudy with maximum temp. $29 - 31$ ° C & minimum temp. $20 - 22$ ° C. Relative humidity may reach upto 93% (max RH) & 83% (min RH). The average wind speed may be 2 km/hr. Wind
humidity observed in morning and afternoon were 91.3 % and 68.8 %	direction may be Easterly during next five days.
respectively. The average wind speed range was 2.5 to 3.2 km/hr.	

Name of the crop	Stage	Pest and diseas	se Agro-meteorological advisories
Field Crops			
Main kharif rice			Maintain water level of 5-8cm.
	Flowering to dough and grain	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
	filling stage	Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
		Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Groundnut/ Soybean	Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Potato	Land preparation		Land preparation for planting potato may be started after rains.
Pre-kharif rice seeds	Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops		L.	Contraction of the second s
Cole Crops/ Onion	Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Ginger/ Turmeric	Rhizome formation		 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).
		Leaf blotch & Leaf Spot	Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb (2.5 g/l) is also recommended.
Rabi vegetables	Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances germination. Line sowing is highly recommended.





				Removal of gunny bag as soon as the seed get sprouted is very important.
Pea	to	and preparation sowing	tion	Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science	?S			
Name of the animal	Growth	h stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age		Care & management Deworming	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains). Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age groups excepts the young ones		the	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water.
			Vaccination De-worming	 Vaccinate against sheep/ goat pox and Enterotaxaemia. 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		the	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
			Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.	
Cattle All age groups excepts the young ones	the	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate. 	
			Endoparasites	> De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
			Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
Fishery:				
Type of Farming	Stage		Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – nurserie		5	 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:





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 4th September, 2016

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 th September to 3 rd October, 2016)	Weather forecast for next five days of Churachandpur (5 th to 9 th October, 2016)
The sky remain mainly cloudy upto 1 st morning then partly cloudy to	Likely to have heavy rainfall at isolated places from 6 th to 8 th October. Sky
mainly clear thereafter. 6.6 mm rainfall was recorded during past four	will remain partly cloudy to cloudy with maximum temp. 28 – 30 $^{\circ}$ C &
days. Maximum temperature range observed was 31.4 to 32.7 °C, range	minimum temp. 19 - 21 °C. Relative humidity may reach upto 94% (max
of minimum temperature observed was 21.5 to 22.6 ° C, mean relative	RH) & 70% (min RH). The average wind speed may be 0-2 km/hr. Wind
humidity observed in morning and afternoon were 91.3 % and 68.8 %	direction may be Easterly during next five days.
respectively. The average wind speed range was 2.5 to 3.2 km/hr.	

Name of the crop	Stage	Pest and diseas	se Agro-meteorological advisories
Field Crops			
Main kharif rice			Maintain water level of 5-8cm.
	Flowering to dough and grain	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
	filling stage	Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
		Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Groundnut/ Soybean	Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Potato	Land preparation		Land preparation for planting potato may be started after rains.
Pre-kharif rice seeds	Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops			- Benerican
Cole Crops/ Onion	Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Ginger/ Turmeric	Rhizome formation		 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).
		Leaf blotch & Leaf Spot	Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb (2.5 g/l) is also recommended.
Rabi vegetables	Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances germination. Line sowing is highly recommended.

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



Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"

				Removal of gunny bag as soon as the seed get sprouted is very important.
Pea	t	Land prepato sowing	ration	Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science	2S			
Name of the animal	Grow	th stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All ag	e groups	Care & management	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains).
Turkey/ Duck)			Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age groups excepts the young ones	s the	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. 	
			Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
			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	the	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds 	
			Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
			Deworming	Give Piperazine liquid @ 10-15ml orally once only.
exc	All ag except young		B.Q./ H.S/FMD	 > If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. > If the animals are afflicted by FMD, keep it in a separate enclosure. > Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. > The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
			Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
			Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
Fishery:	•			· · · ·
Type of Farming	Stage		Management	Agro-metrological advisories
Carp/ Catfish culture	Grow			 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:





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"



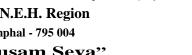
MANIPUR BULLETIN 4th September, 2016

Imphal East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 th September to 3 rd October, 2016)	Weather forecast for next five days of Imphal East (5 th to 9 th October, 2016)
The sky remain mainly cloudy upto 1 st morning then partly cloudy to	Likely to have heavy rainfall at isolated places from 6 th to 8 th October. Sky
mainly clear thereafter. 6.6 mm rainfall was recorded during past four	will remain partly cloudy to cloudy with maximum temp. $28 - 30$ ° C &
days. Maximum temperature range observed was 31.4 to 32.7 °C, range	minimum temp. 19 - 21 °C. Relative humidity may reach upto 92% (max
of minimum temperature observed was 21.5 to 22.6 ° C, mean relative	RH) & 72% (min RH). The average wind speed may be 0-3 km/hr. Wind
humidity observed in morning and afternoon were 91.3 % and 68.8 %	direction may be Easterly during next five days.
respectively. The average wind speed range was 2.5 to 3.2 km/hr.	

Stage	Pest and diseas	se Agro-meteorological advisories
		Maintain water level of 5-8cm.
dough and grain	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
filling stage	Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
	Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
	Aphid, mealy bugs	 Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
	Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Land preparation		Land preparation for planting potato may be started after rains.
Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
		Bodownor
Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Rhizome formation	Leaf blotch & Leaf	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb
	Spot	(2.5 g/l) is also recommended.
Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances
	Flowering to dough and grain filling stage Pod filling to Maturity stage Flowering to fruiting Land preparation Post harvest management Land preparation Rhizome	Flowering to dough and grain filling stage Smut disease of rice Neck Blast Sheath blight/ sheath rot Aphid, mealy bugs Brown Plant Hoppers Pod filling to Maturity stage Hairy Caterpillars fruiting Land preparation Post harvest management I Land preparation Rhizome formation Khizome formation Leaf blotch & Leaf Spot





			Removal of gunny bag as soon as the seed get sprouted is very important.
Pea	Land prepa to sowing	uration	Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science	2S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age groups	Care & management	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains).
Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat All age groups excepts the young ones		Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water.
		Vaccination De-worming	 Vaccinate against sheep/ goat pox and Enterotaxaemia. 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	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle All age groups excepts the young ones	excepts the	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	▶ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds.
Figham			Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
<i>Fishery:</i> Type of Farming	Stago	Managaman4	A gro matrological advicaries
Carp/ Catfish	Stage Grow –out/	Management	Agro-metrological advisories - Ponds should be free from unwanted vegetation and insects and water depth should
culture	nurseries		 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:





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"



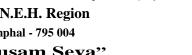
MANIPUR BULLETIN 4th September, 2016

Imphal West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 5th to 9th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 th September to 3 rd October, 2016)	Weather forecast for next five days of Imphal West (5 th to 9 th October, 2016)
The sky remain mainly cloudy upto 1 st morning then partly cloudy to	Likely to have heavy rainfall at isolated places from 6 th to 8 th October. Sky
mainly clear thereafter. 6.6 mm rainfall was recorded during past four	will remain partly cloudy to cloudy with maximum temp. 29 - 31 ° C &
days. Maximum temperature range observed was 31.4 to 32.7 °C, range	minimum temp. 20 - 22 °C. Relative humidity may reach upto 92% (max
of minimum temperature observed was 21.5 to 22.6 ° C, mean relative	RH) & 75% (min RH). The average wind speed may be 0-2 km/hr. Wind
humidity observed in morning and afternoon were 91.3 % and 68.8 %	direction may be Easterly during next five days.
respectively. The average wind speed range was 2.5 to 3.2 km/hr.	

Name of the crop	Stage	Pest and disea	se Agro-meteorological advisories
Field Crops			
Main kharif rice			Maintain water level of 5-8cm.
	Flowering to dough and grain filling stage	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Neck Blast	Spray Tricyclazole @ 15gm/ 15 litre water after rain.
		Sheath blight/ sheath rot	Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray specially on the panicles which cannot emerge due to sheath blight.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 lit water or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Brown Plant Hoppers	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
Groundnut/ Soybean	Pod filling to Maturity stage		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean	Flowering to fruiting	Hairy Caterpillars	Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Potato	Land preparation		Land preparation for planting potato may be started after rains.
Pre-kharif rice seeds	Post harvest management		Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops			
Cole Crops/ Onion	Land preparation		Land preparation for transplanting cole crops/ onion may be started. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Ginger/ Turmeric	Rhizome formation		 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).
		Leaf blotch & Leaf Spot	Application of Carbendazim @ 0.1% alternately with spraying of Mencozeb (2.5 g/l) is also recommended.
Rabi vegetables	Nursery		 Land preparation for Rabi vegetable should be done where proper drainage. Make shift arrangement like bamboo mat/polythene sheet/ thatch grass may be used to protect the bed/ seedlings from rain. Sow seeds after soil drenching and seed treatment. Covering the seed with soil followed by moist gunny bag enhances germination. Line sowing is highly recommended.





			Removal of gunny bag as soon as the seed get sprouted is very important.
Pea	Land prepa to sowing	aration	Early sowing of garden pea variety Arkel in the valley should be completed at earliest possible.
Animal Science	2S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains).
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
exce	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem during rainy days. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water.
		Vaccination De-worming	 Vaccinate against sheep/ goat pox and Enterotaxaemia. De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
except the	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	▶ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the calf the new born must be fed with Colostrum within the first two hours. Calves should not be allowed to drink milk from mothers affected by FMD, as this can affect their hearts and lead to death. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds.
Fishery:			Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
Type of Farming	Stago	Monogomon4	A gro matrological advicaries
Carp/ Catfish	Stage Grow –out/	Management	Agro-metrological advisories - Ponds should be free from unwanted vegetation and insects and water depth should
culture	nurseries		 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

SMS:



