



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

**MANIPUR BULLETIN**12th May, 2017**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 13th to 17th May, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th May, 2017) Observed mainly clear to partly cloudy but cloudy sky during afternoon hours of 9th and no rainfall was recorded during past three days. Maximum temperature range of 29.5 to 31.0 °C and minimum temperature range of 19.1 to 19.6 °C with mean relative humidity 78.67 % max and 54.33 % min was recorded in the past three days. The average wind speed was observed to be 4.3 – 5.7 km/hr.</p>	<p>Weather forecast for next five days of Churachandpur (13th to 17th May, 2017) Likely to have widespread heavy rainfall during next five days with mainly cloudy to overcast sky and maximum temp. 26 - 31 °C & minimum temp. 21 - 22 °C. Relative humidity may reach up to 99 % (max RH) & 97 % (min RH). The average wind speed may be 2 - 4 km/hr.</p>
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Field Crops			
* Harvest rain water. Provide proper drainage system to avoid water logging due to heavy rains.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle initiation (Pre-kharif rice)	Leaf folder	- Weeding may be done using conoweeder after rains. - Spray Rogor@ 15ml/15 litre water after rains.
	Land preparation to nursery (Main kharif rice)		- Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the rains.
Soybean	Sowing		After rains 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 If already sown, provisions for proper drainage may be made.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. After rains 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. If already sown, provisions for proper drainage may be made.
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 after rains. 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 RC-seed bins 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 godowns .
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Vegetative to flowering & fruiting	Red Pumpkin Beetle	Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
Tomato/ Brinjal	Vegetative to flowering		- After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. - Construct proper drainage system to avoid water logging.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.



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Chilli/ capsicum	Vegetative		In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging.
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Animal Sciences

*** Provide clean drinking water for birds and animals.**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Pregnant animal (more than 6 months) should be given additional feed.
		Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
Pig	All age groups except the young ones	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 administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	➤ Provide mineral mixture.
Cattle	All age groups excepts the young ones	Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.		

Fishery

Encircle fish ponds with happa nets to avoid escape of fishes.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

(I. Meghachandra Singh)
 Scientist i/c, GKMS



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



MANIPUR BULLETIN

12th May, 2017

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 13th to 17th May, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th May, 2017) Observed mainly clear to partly cloudy but cloudy sky during afternoon hours of 9th and no rainfall was recorded during past three days. Maximum temperature range of 29.5 to 31.0 °C and minimum temperature range of 19.1 to 19.6 °C with mean relative humidity 78.67 % max and 54.33 % min was recorded in the past three days. The average wind speed was observed to be 4.3 – 5.7 km/hr.</p>	<p>Weather forecast for next five days of Senapati (13th to 17th May, 2017) Likely to have widespread heavy rainfall during next five days with mainly cloudy to overcast sky and maximum temp. 25 - 32 °C & minimum temp. 21 - 23 °C. Relative humidity may reach up to 97 % (max RH) & 89 % (min RH). The average wind speed may be 2 - 4 km/hr.</p>
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Field Crops			
* Harvest rain water. Provide proper drainage system to avoid water logging due to heavy rains.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle initiation (Pre-kharif rice)	Leaf folder	- Weeding may be done using conoweeder after rains. - Spray Rogor@ 15ml/15 litre water after rains.
	Land preparation to nursery (Main kharif rice)		- Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the rains.
	Sowing		After rains 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 If already sown, provisions for proper drainage may be made.
Soybean	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. After rains 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. If already sown, provisions for proper drainage may be made.
Groundnut	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 after rains. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Kharif Maize	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.
Blackgram & Rice bean	Land preparation to sowing		- For seed purpose dry, clean and store the seeds in RC-seed bins 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 godowns .
Seeds storage	Post harvest management		
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Vegetative to flowering & fruiting	Red Pumpkin Beetle	Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
Tomato/ Brinjal	Vegetative to flowering		- After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. - Construct proper drainage system to avoid water logging.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.



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



Chilli/ capsicum	Vegetative		In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging.
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Animal Sciences

*** Provide clean drinking water for birds and animals.**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Pregnant animal (more than 6 months) should be given additional feed.
		Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
Pig	All age groups except the young ones	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 administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	➤ Provide mineral mixture.
Cattle	All age groups excepts the young ones	Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.		

Fishery

Encircle fish ponds with happa nets to avoid escape of fishes.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

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**MANIPUR BULLETIN**12th May, 2017**Tamenglong**

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Field Crops			
* Harvest rain water. Provide proper drainage system to avoid water logging due to heavy rains.			
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Rice	Tillering to Panicle initiation (Pre-kharif rice)	Leaf folder	- Weeding may be done using conoweeder after rains. - Spray Rogor@ 15ml/15 litre water after rains.
	Land preparation to nursery (Main kharif rice)		- Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the rains.
Soybean	Sowing		After rains 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 If already sown, provisions for proper drainage may be made.
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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 RC-seed bins 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 godowns .
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Cucurbits	Vegetative to flowering & fruiting	Red Pumpkin Beetle	Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
Tomato/ Brinjal	Vegetative to flowering		- After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. - Construct proper drainage system to avoid water logging.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.



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Animal Sciences

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Fishery

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Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
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Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

(I. Meghachandra Singh)
 Scientist i/c, GKMS



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**MANIPUR BULLETIN****12th May, 2017****Thoubal**

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Field Crops			
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Blackgram & Rice bean	Land preparation to sowing		- For seed purpose dry, clean and store the seeds in RC-seed bins 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 godowns .
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Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Vegetative to flowering & fruiting	Red Pumpkin Beetle	Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
Tomato/ Brinjal	Vegetative to flowering		- After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. - Construct proper drainage system to avoid water logging.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.



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



Chilli/ capsicum	Vegetative		In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging.
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Animal Sciences

*** Provide clean drinking water for birds and animals.**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Pregnant animal (more than 6 months) should be given additional feed.
		Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
Pig	All age groups except the young ones	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 administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	➤ Provide mineral mixture.
Cattle	All age groups excepts the young ones	Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox @ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.		

Fishery

Encircle fish ponds with happa nets to avoid escape of fishes.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

(I. Meghachandra Singh)
 Scientist i/c, GKMS



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



MANIPUR BULLETIN

12th May, 2017

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 13th to 17th May, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th May, 2017) Observed mainly clear to partly cloudy but cloudy sky during afternoon hours of 9th and no rainfall was recorded during past three days. Maximum temperature range of 29.5 to 31.0 °C and minimum temperature range of 19.1 to 19.6 °C with mean relative humidity 78.67 % max and 54.33 % min was recorded in the past three days. The average wind speed was observed to be 4.3 – 5.7 km/hr.</p>	<p>Weather forecast for next five days of Ukhrul (13th to 17th May, 2017) Likely to have widespread heavy rainfall during next five days with mainly cloudy to overcast sky and maximum temp. 25 - 32 °C & minimum temp. 20 - 21 °C. Relative humidity may reach up to 97 % (max RH) & 85 % (min RH). The average wind speed may be 2 - 3 km/hr.</p>
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Field Crops			
* Harvest rain water. Provide proper drainage system to avoid water logging due to heavy rains.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle initiation (Pre-kharif rice)	Leaf folder	- Weeding may be done using conoweeder after rains. - Spray Rogor@ 15ml/15 litre water after rains.
	Land preparation to nursery (Main kharif rice)		- Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the rains.
Soybean	Sowing		After rains 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 If already sown, provisions for proper drainage may be made.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. After rains 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. If already sown, provisions for proper drainage may be made.
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 after rains. 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 RC-seed bins 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 godowns .
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Vegetative to flowering & fruiting	Red Pumpkin Beetle	Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
Tomato/ Brinjal	Vegetative to flowering		- After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. - Construct proper drainage system to avoid water logging.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.



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Chilli/ capsicum	Vegetative		In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging.
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Animal Sciences

*** Provide clean drinking water for birds and animals.**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Pregnant animal (more than 6 months) should be given additional feed.
		Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
Pig	All age groups except the young ones	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 administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	➤ Provide mineral mixture.
Cattle	All age groups excepts the young ones	Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.		

Fishery

Encircle fish ponds with happa nets to avoid escape of fishes.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

(I. Meghachandra Singh)
 Scientist i/c, GKMS



ICAR Research Complex for N.E.H. Region
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“Gramin Krishi Mausam Seva”



MANIPUR BULLETIN

12th May, 2017

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 13th to 17th May, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th May, 2017) Observed mainly clear to partly cloudy but cloudy sky during afternoon hours of 9th and no rainfall was recorded during past three days. Maximum temperature range of 29.5 to 31.0 °C and minimum temperature range of 19.1 to 19.6 °C with mean relative humidity 78.67 % max and 54.33 % min was recorded in the past three days. The average wind speed was observed to be 4.3 – 5.7 km/hr.</p>	<p>Weather forecast for next five days of Imphal East (13th to 17th May, 2017) Likely to have widespread heavy rainfall during next five days with mainly cloudy to overcast sky and maximum temp. 26 - 30 °C & minimum temp. 20 - 21 °C. Relative humidity may reach up to 98 % (max RH) & 95 % (min RH). The average wind speed may be 0 - 4 km/hr.</p>
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Field Crops			
* Harvest rain water. Provide proper drainage system to avoid water logging due to heavy rains.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle initiation (Pre-kharif rice)	Leaf folder	- Weeding may be done using conoweeder after rains. - Spray Rogor@ 15ml/15 litre water after rains.
	Land preparation to nursery (Main kharif rice)		- Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the rains.
	Sowing		After rains 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 If already sown, provisions for proper drainage may be made.
Soybean	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. After rains 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. If already sown, provisions for proper drainage may be made.
Groundnut	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 after rains. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Kharif Maize	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.
Blackgram & Rice bean	Land preparation to sowing		- For seed purpose dry, clean and store the seeds in RC-seed bins 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 godowns .
Seeds storage	Post harvest management		
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Vegetative to flowering & fruiting	Red Pumpkin Beetle	Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
Tomato/ Brinjal	Vegetative to flowering		- After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. - Construct proper drainage system to avoid water logging.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.



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Chilli/ capsicum	Vegetative		In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging.
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Animal Sciences

*** Provide clean drinking water for birds and animals.**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Pregnant animal (more than 6 months) should be given additional feed.
		Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
Pig	All age groups except the young ones	De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
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		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	➤ Provide mineral mixture.
Cattle	All age groups excepts the young ones	Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.		

Fishery

Encircle fish ponds with happa nets to avoid escape of fishes.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

(I. Meghachandra Singh)
 Scientist i/c, GKMS



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



MANIPUR BULLETIN

12th May, 2017

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 13th to 17th May, 2017 as below:

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Field Crops			
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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 RC-seed bins 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 godowns .
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Vegetative to flowering & fruiting	Red Pumpkin Beetle	Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
Tomato/ Brinjal	Vegetative to flowering		- After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. - Construct proper drainage system to avoid water logging.
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Chilli/ capsicum	Vegetative		In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging.
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Animal Sciences

*** Provide clean drinking water for birds and animals.**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		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.
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		Mineral feeding	➤ Provide mineral mixture.
Cattle	All age groups excepts the young ones	Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
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Fishery

Encircle fish ponds with happa nets to avoid escape of fishes.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

(I. Meghachandra Singh)
 Scientist i/c, GKMS



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

**MANIPUR BULLETIN**12th May, 2017**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 13th to 17th May, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th May, 2017) Observed mainly clear to partly cloudy but cloudy sky during afternoon hours of 9th and no rainfall was recorded during past three days. Maximum temperature range of 29.5 to 31.0 °C and minimum temperature range of 19.1 to 19.6 °C with mean relative humidity 78.67 % max and 54.33 % min was recorded in the past three days. The average wind speed was observed to be 4.3 – 5.7 km/hr.</p>	<p>Weather forecast for next five days of Bishnupur (13th to 17th May, 2017) Likely to have widespread heavy rainfall during next five days with mainly cloudy to overcast sky and maximum temp. 26 - 33 °C & minimum temp. 21 - 23 °C. Relative humidity may reach up to 99 % (max RH) & 96 % (min RH). The average wind speed may be 2 - 4 km/hr.</p>
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Field Crops			
* Harvest rain water. Provide proper drainage system to avoid water logging due to heavy rains.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle initiation (Pre-kharif rice)	Leaf folder	- Weeding may be done using conoweeder after rains. - Spray Rogor@ 15ml/15 litre water after rains.
	Land preparation to nursery (Main kharif rice)		- Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the rains.
Soybean	Sowing		After rains 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 If already sown, provisions for proper drainage may be made.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. After rains 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. If already sown, provisions for proper drainage may be made.
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 after rains. 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 RC-seed bins 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 godowns .
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
Turmeric	Planting of turmeric		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Cucurbits	Vegetative to flowering & fruiting	Red Pumpkin Beetle	Use Methyl Eugenol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
Tomato/ Brinjal	Vegetative to flowering		- After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. - Construct proper drainage system to avoid water logging.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.



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Chilli/ capsicum	Vegetative		In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging.
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Animal Sciences

*** Provide clean drinking water for birds and animals.**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Pregnant animal (more than 6 months) should be given additional feed.
		Mineral feeding to protect (PICA)	- Mineral mixtures are to be supplemented.
		Deworming	New born but not yet been dewormed should be given deworming agent.
Pig	All age groups except the young ones	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 administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Mineral feeding	➤ Provide mineral mixture.
Cattle	All age groups excepts the young ones	Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
		Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.		

Fishery

Encircle fish ponds with happa nets to avoid escape of fishes.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

(I. Meghachandra Singh)
 Scientist i/c, GKMS



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**MANIPUR BULLETIN****12th May, 2017****Chandel**

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