



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



**MANIPUR BULLETIN**

**2<sup>nd</sup> 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 3<sup>rd</sup> to 7<sup>th</sup> May, 2017 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (28<sup>th</sup> April to 1<sup>st</sup> May, 2017)</b>                  Observed mainly clear sky during past four days except during morning hours of 28<sup>th</sup> with partly cloudy sky and <b>11.7 mm</b> rainfall was recorded. Maximum temperature range of 28.9 to 30.5 ° C and minimum temperature range of 17.0 to 18.9 ° C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4 – 5.1 km/hr.</p>	<p><b>Weather forecast for next five days of Ukhrul (3<sup>rd</sup> to 7<sup>th</sup> May, 2017)</b>                   Likely to have thunderstorm with squall very likely at isolated places on 3<sup>rd</sup> May with partly cloudy to mainly cloudy sky and maximum temp. 30 – 31 ° C &amp; minimum temp. 19 - 21 ° C. Relative humidity may reach up to 94 % (max RH) &amp; 34 % (min RH). The average wind speed may be 2-4 km/hr.</p>
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<b>Field Crops</b>			
* Harvest rain water. Provide proper drainage system to avoid water logging.			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Tillering (Pre-kharif rice)		- Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	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 heavy rains.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
<b>Rabi maize</b>	Cob maturity to harvesting		- Avoid water logging by constructing proper drainage system.
<b>Kharif Maize</b>	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
<b>Blackgram &amp; Rice bean</b>	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
<b>Seeds storage</b>	Post harvest management		- For seed purpose dry, clean and store the seeds in <b>RC-seed bins</b> 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 <b>godowns</b> .
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>French Bean</b>	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
<b>Ginger &amp; turmeric</b>	Planting to early vegetative		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop.
<b>Cucurbits</b>	Vegetative	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. <i>Steps to prepare trap:</i> - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a <b>funnel like structure is made and beetles are lured.</b>
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Bhindi</b>	Vegetative		- Construct proper drainage system to avoid water logging.
<b>Tomato/ Brinjal</b>	Vegetative		- 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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**“Gramin Krishi Mausam Seva”**



		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Chilli/ capsicum</b>	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.

**Animal Sciences**

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

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Fowl Pox	Vaccinate against fowl pox.
		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.
<b>Sheep/ Goat</b>	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.
<b>Pig</b>	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.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
<b>Cattle</b>	All age groups excepts the young ones	Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.

**Fishery**

Type of Farming	Stage	management	Agro-metrological advisories
<b>Carp culture</b>	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.
<b>Paddy cum fish culture</b>	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.

**SMS:**

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.

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



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**MANIPUR BULLETIN**2<sup>nd</sup> 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 3<sup>rd</sup> to 7<sup>th</sup> May, 2017 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (28<sup>th</sup> April to 1<sup>st</sup> May, 2017)</b>          Observed mainly clear sky during past four days except during morning hours of 28<sup>th</sup> with partly cloudy sky and <b>11.7 mm</b> rainfall was recorded. Maximum temperature range of 28.9 to 30.5 °C and minimum temperature range of 17.0 to 18.9 °C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4 – 5.1 km/hr.</p>	<p><b>Weather forecast for next five days of Imphal East (3<sup>rd</sup> to 7<sup>th</sup> May, 2017)</b>          Likely to have thunderstorm with squall very likely at isolated places on 3<sup>rd</sup> May with partly cloudy to mainly cloudy sky and maximum temp. 30 – 32 °C &amp; minimum temp. 20 - 22 °C. Relative humidity may reach up to 99 % (max RH) &amp; 36 % (min RH). The average wind speed may be 0-4 km/hr.</p>
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<b>Field Crops</b>			
* Harvest rain water. Provide proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Tillering (Pre-kharif rice)		- Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	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 heavy rains.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
<b>Rabi maize</b>	Cob maturity to harvesting		- Avoid water logging by constructing proper drainage system.
<b>Kharif Maize</b>	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
<b>Blackgram &amp; Rice bean</b>	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
<b>Seeds storage</b>	Post harvest management		- For seed purpose dry, clean and store the seeds in <b>RC-seed bins</b> 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 <b>godowns</b> .
<b>Horticulture Crops</b>			
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		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
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**Fishery**

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**MANIPUR BULLETIN**2<sup>nd</sup> 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 3<sup>rd</sup> to 7<sup>th</sup> May, 2017 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (28<sup>th</sup> April to 1<sup>st</sup> May, 2017)</b>          Observed mainly clear sky during past four days except during morning hours of 28<sup>th</sup> with partly cloudy sky and <b>11.7 mm</b> rainfall was recorded. Maximum temperature range of 28.9 to 30.5 °C and minimum temperature range of 17.0 to 18.9 °C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4 – 5.1 km/hr.</p>	<p><b>Weather forecast for next five days of Bishnupur (3<sup>rd</sup> to 7<sup>th</sup> May, 2017)</b>          Likely to have thunderstorm with squall very likely at isolated places on 3<sup>rd</sup> May with partly cloudy to mainly cloudy sky and maximum temp. 31 – 33 °C &amp; minimum temp. 19 - 21 °C. Relative humidity may reach up to 96 % (max RH) &amp; 38 % (min RH). The average wind speed may be 0-4 km/hr.</p>
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<b>Field Crops</b>			
* Harvest rain water. Provide proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Tillering (Pre-kharif rice)		- Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	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 heavy rains.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
<b>Rabi maize</b>	Cob maturity to harvesting		- Avoid water logging by constructing proper drainage system.
<b>Kharif Maize</b>	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
<b>Blackgram &amp; Rice bean</b>	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
<b>Seeds storage</b>	Post harvest management		- For seed purpose dry, clean and store the seeds in <b>RC-seed bins</b> 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 <b>godowns</b> .
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>French Bean</b>	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
<b>Ginger &amp; turmeric</b>	Planting to early vegetative		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop.
<b>Cucurbits</b>	Vegetative	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. <i>Steps to prepare trap:</i> - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a <b>funnel like structure is made and beetles are lured.</b>
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Bhindi</b>	Vegetative		- Construct proper drainage system to avoid water logging.
<b>Tomato/ Brinjal</b>	Vegetative		- 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.



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



		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Chilli/ capsicum</b>	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.

**Animal Sciences**

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

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Fowl Pox	Vaccinate against fowl pox.
		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.
<b>Sheep/ Goat</b>	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.
<b>Pig</b>	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.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
<b>Cattle</b>	All age groups excepts the young ones	Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.

**Fishery**

Type of Farming	Stage	management	Agro-metrological advisories
<b>Carp culture</b>	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.	
<b>Paddy cum fish culture</b>	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.

**SMS:**

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.

**(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**2<sup>nd</sup> May, 2017**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 3<sup>rd</sup> to 7<sup>th</sup> May, 2017 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (28<sup>th</sup> April to 1<sup>st</sup> May, 2017)</b>          Observed mainly clear sky during past four days except during morning hours of 28<sup>th</sup> with partly cloudy sky and <b>11.7 mm</b> rainfall was recorded. Maximum temperature range of 28.9 to 30.5 °C and minimum temperature range of 17.0 to 18.9 °C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4 – 5.1 km/hr.</p>	<p><b>Weather forecast for next five days of Chandel (3<sup>rd</sup> to 7<sup>th</sup> May, 2017)</b>          Likely to have thunderstorm with squall very likely at isolated places on 3<sup>rd</sup> May with partly cloudy to mainly cloudy sky and maximum temp. 30 – 31 °C &amp; minimum temp. 20 - 21 °C. Relative humidity may reach up to 94 % (max RH) &amp; 31 % (min RH). The average wind speed may be 2-5 km/hr.</p>
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<b>Field Crops</b>			
* Harvest rain water. Provide proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Tillering (Pre-kharif rice)		- Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	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 heavy rains.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
<b>Rabi maize</b>	Cob maturity to harvesting		- Avoid water logging by constructing proper drainage system.
<b>Kharif Maize</b>	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
<b>Blackgram &amp; Rice bean</b>	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
<b>Seeds storage</b>	Post harvest management		- For seed purpose dry, clean and store the seeds in <b>RC-seed bins</b> 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 <b>godowns</b> .
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>French Bean</b>	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
<b>Ginger &amp; turmeric</b>	Planting to early vegetative		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop.
<b>Cucurbits</b>	Vegetative	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. <i>Steps to prepare trap:</i> - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a <b>funnel like structure is made and beetles are lured.</b>
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Bhindi</b>	Vegetative		- Construct proper drainage system to avoid water logging.
<b>Tomato/ Brinjal</b>	Vegetative		- 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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**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**



		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Chilli/ capsicum</b>	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.

**Animal Sciences**

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

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Fowl Pox	Vaccinate against fowl pox.
		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.
<b>Sheep/ Goat</b>	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.
<b>Pig</b>	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.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
<b>Cattle</b>	All age groups excepts the young ones	Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.

**Fishery**

Type of Farming	Stage	management	Agro-metrological advisories
<b>Carp culture</b>	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.	
<b>Paddy cum fish culture</b>	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.

**SMS:**

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.

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

**MANIPUR BULLETIN**2<sup>nd</sup> 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 3<sup>rd</sup> to 7<sup>th</sup> May, 2017 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (28<sup>th</sup> April to 1<sup>st</sup> May, 2017)</b>          Observed mainly clear sky during past four days except during morning hours of 28<sup>th</sup> with partly cloudy sky and <b>11.7 mm</b> rainfall was recorded. Maximum temperature range of 28.9 to 30.5 °C and minimum temperature range of 17.0 to 18.9 °C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4 – 5.1 km/hr.</p>	<p><b>Weather forecast for next five days of Churachandpur (3<sup>rd</sup> to 7<sup>th</sup> May, 2017)</b>          Likely to have thunderstorm with squall very likely at isolated places on 3<sup>rd</sup> May with partly cloudy to mainly cloudy sky and maximum temp. 30 – 31 °C &amp; minimum temp. 21 °C. Relative humidity may reach up to 96 % (max RH) &amp; 43 % (min RH). The average wind speed may be 2-5 km/hr.</p>
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<b>Field Crops</b>			
* Harvest rain water. Provide proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Tillering (Pre-kharif rice)		- Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	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 heavy rains.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
<b>Rabi maize</b>	Cob maturity to harvesting		- Avoid water logging by constructing proper drainage system.
<b>Kharif Maize</b>	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
<b>Blackgram &amp; Rice bean</b>	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
<b>Seeds storage</b>	Post harvest management		- For seed purpose dry, clean and store the seeds in <b>RC-seed bins</b> 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 <b>godowns</b> .
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>French Bean</b>	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
<b>Ginger &amp; turmeric</b>	Planting to early vegetative		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop.
<b>Cucurbits</b>	Vegetative	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. <i>Steps to prepare trap:</i> - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a <b>funnel like structure is made and beetles are lured.</b>
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Bhindi</b>	Vegetative		- Construct proper drainage system to avoid water logging.
<b>Tomato/ Brinjal</b>	Vegetative		- 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.



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



		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Chilli/ capsicum</b>	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.

**Animal Sciences**

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

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Fowl Pox	Vaccinate against fowl pox.
		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.
<b>Sheep/ Goat</b>	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.
<b>Pig</b>	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.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
<b>Cattle</b>	All age groups excepts the young ones	Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.

**Fishery**

Type of Farming	Stage	management	Agro-metrological advisories
<b>Carp culture</b>	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.	
<b>Paddy cum fish culture</b>	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.

**SMS:**

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.

**(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**2<sup>nd</sup> 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 3<sup>rd</sup> to 7<sup>th</sup> May, 2017 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (28<sup>th</sup> April to 1<sup>st</sup> May, 2017)</b>          Observed mainly clear sky during past four days except during morning hours of 28<sup>th</sup> with partly cloudy sky and <b>11.7 mm</b> rainfall was recorded. Maximum temperature range of 28.9 to 30.5 °C and minimum temperature range of 17.0 to 18.9 °C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4 – 5.1 km/hr.</p>	<p><b>Weather forecast for next five days of Senapati (3<sup>rd</sup> to 7<sup>th</sup> May, 2017)</b>          Likely to have thunderstorm with squall very likely at isolated places on 3<sup>rd</sup> May with partly cloudy to mainly cloudy sky and maximum temp. 31 – 32 °C &amp; minimum temp. 20 - 21 °C. Relative humidity may reach up to 98 % (max RH) &amp; 42 % (min RH). The average wind speed may be 2-4 km/hr.</p>
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<b>Field Crops</b>			
* Harvest rain water. Provide proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Tillering (Pre-kharif rice)		- Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	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 heavy rains.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
<b>Rabi maize</b>	Cob maturity to harvesting		- Avoid water logging by constructing proper drainage system.
<b>Kharif Maize</b>	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
<b>Blackgram &amp; Rice bean</b>	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
<b>Seeds storage</b>	Post harvest management		- For seed purpose dry, clean and store the seeds in <b>RC-seed bins</b> 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 <b>godowns</b> .
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>French Bean</b>	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
<b>Ginger &amp; turmeric</b>	Planting to early vegetative		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop.
<b>Cucurbits</b>	Vegetative	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. <i>Steps to prepare trap:</i> - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a <b>funnel like structure is made and beetles are lured.</b>
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Bhindi</b>	Vegetative		- Construct proper drainage system to avoid water logging.
<b>Tomato/ Brinjal</b>	Vegetative		- 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.



**ICAR Research Complex for N.E.H. Region**

**Manipur Centre, Lamphelpat, Imphal - 795 004**

**“Gramin Krishi Mausam Seva”**



		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Chilli/ capsicum</b>	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.

**Animal Sciences**

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

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Fowl Pox	Vaccinate against fowl pox.
		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.
<b>Sheep/ Goat</b>	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.
<b>Pig</b>	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.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
<b>Cattle</b>	All age groups excepts the young ones	Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.

**Fishery**

Type of Farming	Stage	management	Agro-metrological advisories
<b>Carp culture</b>	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.	
<b>Paddy cum fish culture</b>	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.

**SMS:**

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.

**(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**2<sup>nd</sup> May, 2017**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 3<sup>rd</sup> to 7<sup>th</sup> May, 2017 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (28<sup>th</sup> April to 1<sup>st</sup> May, 2017)</b>          Observed mainly clear sky during past four days except during morning hours of 28<sup>th</sup> with partly cloudy sky and <b>11.7 mm</b> rainfall was recorded. Maximum temperature range of 28.9 to 30.5 ° C and minimum temperature range of 17.0 to 18.9 ° C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4 – 5.1 km/hr.</p>	<p><b>Weather forecast for next five days of Tamenglong (3<sup>rd</sup> to 7<sup>th</sup> May, 2017)</b>          Likely to have thunderstorm with squall very likely at isolated places on 3<sup>rd</sup> May with partly cloudy to mainly cloudy sky and maximum temp. 31 – 32 ° C &amp; minimum temp. 20 - 22 ° C. Relative humidity may reach up to 98 % (max RH) &amp; 46 % (min RH). The average wind speed may be 2-3 km/hr.</p>
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<b>Field Crops</b>			
* Harvest rain water. Provide proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Tillering (Pre-kharif rice)		- Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	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 heavy rains.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
<b>Rabi maize</b>	Cob maturity to harvesting		- Avoid water logging by constructing proper drainage system.
<b>Kharif Maize</b>	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
<b>Blackgram &amp; Rice bean</b>	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
<b>Seeds storage</b>	Post harvest management		- For seed purpose dry, clean and store the seeds in <b>RC-seed bins</b> 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 <b>godowns</b> .
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>French Bean</b>	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
<b>Ginger &amp; turmeric</b>	Planting to early vegetative		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop.
<b>Cucurbits</b>	Vegetative	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. <i>Steps to prepare trap:</i> - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a <b>funnel like structure is made and beetles are lured.</b>
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Bhindi</b>	Vegetative		- Construct proper drainage system to avoid water logging.
<b>Tomato/ Brinjal</b>	Vegetative		- 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.



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



		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Chilli/ capsicum</b>	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.

**Animal Sciences**

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

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Fowl Pox	Vaccinate against fowl pox.
		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.
<b>Sheep/ Goat</b>	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.
<b>Pig</b>	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.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
<b>Cattle</b>	All age groups excepts the young ones	Mites infestation	➤ Spray with Skin Heal Spray in sufficient quantity.
		Fodder cultivation	➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Management	- Some female animals may get agitated due to the heat especially during night time, protect and take care of it.

**Fishery**

Type of Farming	Stage	management	Agro-metrological advisories
<b>Carp culture</b>	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.	
<b>Paddy cum fish culture</b>	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.

**SMS:**

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.

**(I. Meghachandra Singh)**  
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**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**2<sup>nd</sup> May, 2017**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 3<sup>rd</sup> to 7<sup>th</sup> May, 2017 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (28<sup>th</sup> April to 1<sup>st</sup> May, 2017)</b>          Observed mainly clear sky during past four days except during morning hours of 28<sup>th</sup> with partly cloudy sky and <b>11.7 mm</b> rainfall was recorded. Maximum temperature range of 28.9 to 30.5 °C and minimum temperature range of 17.0 to 18.9 °C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4 – 5.1 km/hr.</p>	<p><b>Weather forecast for next five days of Thoubal (3<sup>rd</sup> to 7<sup>th</sup> May, 2017)</b>          Likely to have thunderstorm with squall very likely at isolated places on 3<sup>rd</sup> May with partly cloudy to mainly cloudy sky and maximum temp. 31 – 33 °C &amp; minimum temp. 19 - 21 °C. Relative humidity may reach up to 96 % (max RH) &amp; 38 % (min RH). The average wind speed may be 0-4 km/hr.</p>
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<b>Field Crops</b>			
* Harvest rain water. Provide proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Tillering (Pre-kharif rice)		- Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	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 heavy rains.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
<b>Rabi maize</b>	Cob maturity to harvesting		- Avoid water logging by constructing proper drainage system.
<b>Kharif Maize</b>	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
<b>Blackgram &amp; Rice bean</b>	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
<b>Seeds storage</b>	Post harvest management		- For seed purpose dry, clean and store the seeds in <b>RC-seed bins</b> 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 <b>godowns</b> .
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>French Bean</b>	Vegetative		- Provisions may be made to construct proper drainage system to avoid water logging.
<b>Ginger &amp; turmeric</b>	Planting to early vegetative		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop.
<b>Cucurbits</b>	Vegetative	Red Pumpkin Beetle	Use Methyl Euginol as trap @ 4-10 traps/ sangam. <i>Steps to prepare trap:</i> - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a <b>funnel like structure is made and beetles are lured.</b>
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Bhindi</b>	Vegetative		- Construct proper drainage system to avoid water logging.
<b>Tomato/ Brinjal</b>	Vegetative		- 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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**“Gramin Krishi Mausam Seva”**



		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>Chilli/ capsicum</b>	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.

**Animal Sciences**

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

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Fowl Pox	Vaccinate against fowl pox.
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<b>Sheep/ Goat</b>	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.
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<b>Pig</b>	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.
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**Fishery**

Type of Farming	Stage	management	Agro-metrological advisories
<b>Carp culture</b>	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.
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	Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.	
<b>Paddy cum fish culture</b>	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.

**SMS:**

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.

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