



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

**MANIPUR BULLETIN****18th April, 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 19th to 23rd April, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th morning April, 2017)

Observed mainly clear to partly cloudy sky and no rainfall was recorded during past four days. Maximum temperature range of 28.0 to 29.2 °C and minimum temperature range of 15.2 to 17.1 °C with mean relative humidity 78 % max and 42 % min was recorded in the past four days. The average wind speed range remained 5.0 to 5.6 km/hr.

Weather forecast for next five days of Imphal West (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 23 – 28 °C & minimum temp. 17 - 19 °C. Relative humidity may reach up to 99 % (max RH) & 93 % (min RH). The average wind speed may be 2 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

(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**18th April, 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 19th to 23rd April, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th morning April, 2017)

Observed mainly clear to partly cloudy sky and no rainfall was recorded during past four days. Maximum temperature range of 28.0 to 29.2 °C and minimum temperature range of 15.2 to 17.1 °C with mean relative humidity 78 % max and 42 % min was recorded in the past four days. The average wind speed range remained 5.0 to 5.6 km/hr.

Weather forecast for next five days of Bishnupur (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 24 – 29 °C & minimum temp. 18 - 19 °C. Relative humidity may reach up to 99 % (max RH) & 94 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

(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**18th April, 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 19th to 23rd April, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th morning April, 2017)

Observed mainly clear to partly cloudy sky and no rainfall was recorded during past four days. Maximum temperature range of 28.0 to 29.2 °C and minimum temperature range of 15.2 to 17.1 °C with mean relative humidity 78 % max and 42 % min was recorded in the past four days. The average wind speed range remained 5.0 to 5.6 km/hr.

Weather forecast for next five days of Chandel (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 23 – 26 °C & minimum temp. 17 - 20 °C. Relative humidity may reach up to 97 % (max RH) & 89 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

(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**18th April, 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 19th to 23rd April, 2017 as below:

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Weather forecast for next five days of Churachandpur (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 23 – 29 °C & minimum temp. 17 - 20 °C. Relative humidity may reach up to 99 % (max RH) & 95 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

(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**18th April, 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 19th to 23rd April, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th morning April, 2017)

Observed mainly clear to partly cloudy sky and no rainfall was recorded during past four days. Maximum temperature range of 28.0 to 29.2 °C and minimum temperature range of 15.2 to 17.1 °C with mean relative humidity 78 % max and 42 % min was recorded in the past four days. The average wind speed range remained 5.0 to 5.6 km/hr.

Weather forecast for next five days of Senapati (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 20 – 24 °C & minimum temp. 13 - 15 °C. Relative humidity may reach up to 97 % (max RH) & 82 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

(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****18th April, 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 19th to 23rd April, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th morning April, 2017)

Observed mainly clear to partly cloudy sky and no rainfall was recorded during past four days. Maximum temperature range of 28.0 to 29.2 °C and minimum temperature range of 15.2 to 17.1 °C with mean relative humidity 78 % max and 42 % min was recorded in the past four days. The average wind speed range remained 5.0 to 5.6 km/hr.

Weather forecast for next five days of Tamenglong (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 24 – 29 °C & minimum temp. 17 - 19 °C. Relative humidity may reach up to 99 % (max RH) & 94 % (min RH). The average wind speed may be 2 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

(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**18th April, 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 19th to 23rd April, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th morning April, 2017)

Observed mainly clear to partly cloudy sky and no rainfall was recorded during past four days. Maximum temperature range of 28.0 to 29.2 °C and minimum temperature range of 15.2 to 17.1 °C with mean relative humidity 78 % max and 42 % min was recorded in the past four days. The average wind speed range remained 5.0 to 5.6 km/hr.

Weather forecast for next five days of Thoubal (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 24 – 29 °C & minimum temp. 17 - 20 °C. Relative humidity may reach up to 99 % (max RH) & 94 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

(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**18th April, 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 19th to 23rd April, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th morning April, 2017)

Observed mainly clear to partly cloudy sky and no rainfall was recorded during past four days. Maximum temperature range of 28.0 to 29.2 °C and minimum temperature range of 15.2 to 17.1 °C with mean relative humidity 78 % max and 42 % min was recorded in the past four days. The average wind speed range remained 5.0 to 5.6 km/hr.

Weather forecast for next five days of Ukhrul (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 20 – 24 °C & minimum temp. 13 - 15 °C. Relative humidity may reach up to 96 % (max RH) & 82 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

(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**18th April, 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 19th to 23rd April, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th morning April, 2017)

Observed mainly clear to partly cloudy sky and no rainfall was recorded during past four days. Maximum temperature range of 28.0 to 29.2 °C and minimum temperature range of 15.2 to 17.1 °C with mean relative humidity 78 % max and 42 % min was recorded in the past four days. The average wind speed range remained 5.0 to 5.6 km/hr.

Weather forecast for next five days of Imphal East (19th to 23rd April, 2017)

Likely to have widespread rainfall at isolated places very likely from 20th April and partly cloudy to overcast sky with maximum temp. 24 – 28 °C & minimum temp. 16 - 18 °C. Relative humidity may reach up to 99 % (max RH) & 92 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
* Harvest rain water. Construct proper drainage system to avoid water logging.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering (Pre-kharif rice)		- Maintain 5-8cm of water level. - 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. - Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes.
	Land preparation (Main kharif rice)		- Prepare main plots for ploughing.
Rabi maize	Cob formation		- Avoid water logging by constructing proper drainage system.
Kharif Maize	Land preparation		- Land preparation for sowing kharif maize may be done.
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			
* The water logged crop field may take more than a month to drain out excess water and come up to optimum soil moisture level for cultivation, hence it will be helpful if 8-10% of the water logged area is converted into water harvesting pond which may serve to maintain continuous water supply for irrigation in future.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Vegetative		- Construct proper drainage system to avoid water logging.
Cucurbits	Vegetative		- Construct proper drainage system to avoid water logging.
Bhindi	Vegetative		- Construct proper drainage system to avoid water logging.
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.
Tomato/ Brinjal	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. - Construct proper drainage system to avoid water logging.
Onion/ Garlic	Bulb formation	Purple Bloch	- Apply 1kg Trichoderma viride/ sangam when there is moisture in soil and avoid excess application of Nitrogen in case of onion and garlic to avoid Purple Bloch.
	Maturity		- Let the plants grow as such in the field. - Do not harvest/ uproot at present. - Let the mature plants dry in the sun for at least 7-10 days or more depending upon the stage.
Animal Sciences			
Name of the animal			
* 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	Ranikhet disease	At the end of winter season and starting of spring season by March, there may be outbreaks of Ranikhet Disease, hence vaccinate all birds against Ranikhet

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

			Diseases in this time. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		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.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Vaccinate against Enterotoxemia 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.
		Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Mites infestation	➤ 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.

Fisheries

- * Encircle ponds to avoid escape of fishes.
- * New fish ponds may be dug out and old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water.
- * Avoid rain water to get drain down directly into the culture pond.

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