

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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### 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 15<sup>th</sup> to 19<sup>th</sup> March, 14 as given below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (11 <sup>th</sup> to 13 <sup>th</sup> March, 2014)	

The sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.1-27.6 °C, range of minimum temperature observed was 6.8-10.0 °C, mean relative humidity observed in morning and afternoon were 81.3 % and 37.3 % respectively. The average wind speed range was 3.9-5.1 km/hr.

# Weather forecast for next five days of Bishnupur (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

Light rain is predicted on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 - 32.0 °C & minimum temp. 9.0 - 11.0 °C. Relative Humidity may reach a maximum of 76 % (maximum RH) & 23 % (minimum RH). The average wind speed may be 4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Nursery and main field preparation		<ul> <li>- Maintain optimum water level in nursery.</li> <li>- If yellowing of leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper.</li> <li>- Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm depth. Submerge soil for 15-20 days before planting to obtain weed free plot.</li> <li>- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha.</li> </ul>
Rapeseed/ Mustard	Harvesting to post-harvesting		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds thoroughly and store after proper drying.
Rabi Maize	Vegetative	Stem borer	<ul> <li>- Irrigate to maintain required soil moisture during this phase.</li> <li>- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.</li> </ul>
Storage			<ul> <li>Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains, seeds in well ventilated godowns.</li> <li>Rodent management should be done in and around godowns.</li> </ul>
Horticulture Cro	ps		
Tomato	Vegetative	Early blight	<ul> <li>Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.</li> <li>After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top dressing.</li> </ul>
Onion/ Garlic	Bulb formation	leaf minor	<ul> <li>During the bulb formation stage, check that the neck portion is no covered with soil.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC @ 1ml/lit of water to protect the crop from infestation of leaf minor Spray is to be given twice or thrice at an interval of 7 to 10 days.</li> </ul>
		Purple bloch and bulb rot	- Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10 days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other fruit crops. Use dry grass or twigs as mulching material at the basin to conserve



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Ginger/ turmeric	Planting		<ul> <li>- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP.</li> <li>- Recommended varieties:     For turmeric: Megha turmeric     For ginger: Nadia</li> <li>- Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed</li> </ul>
			before planting.
French Bean	Sowing to vegetative		<ul> <li>Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.</li> <li>Maintain optimum soil moisture.</li> </ul>
Animal Science	es		,
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol> <li>F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular).</li> <li>R<sub>2</sub>B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).</li> </ol>
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.



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#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### Chandel

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# Weather forecast for next five days of Chandel (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

Light rain is predicted on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 30.0 - 33.0 °C & minimum temp. 10.0 – 12.0 °C. Relative Humidity may reach a maximum of 65 % (maximum RH) & 25 % (minimum RH). The average wind speed may be 4-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	ı		
Early kharif rice	Nursery and main field preparation		<ul> <li>- Maintain optimum water level in nursery.</li> <li>- If yellowing of leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper.</li> <li>- Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm depth. Submerge soil for 15-20 days before planting to obtain weed free plot.</li> <li>- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha.</li> </ul>
Rapeseed/	Harvesting to		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds
Mustard	post-harvesting		thoroughly and store after proper drying.
Rabi Maize	Vegetative		- Irrigate to maintain required soil moisture during this phase.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/seeds in well ventilated godowns.
			- Rodent management should be done in and around godowns.
Horticulture Cro			1 1 211 1/45 0 0 / 111 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1
Tomato	Vegetative	Early blight	<ul> <li>Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.</li> <li>After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top dressing.</li> </ul>
Onion/ Garlic	Bulb formation	leaf minor	<ul> <li>During the bulb formation stage, check that the neck portion is not covered with soil.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC @ 1ml/lit of water to protect the crop from infestation of leaf minor. Spray is to be given twice or thrice at an interval of 7 to 10 days.</li> </ul>
		Purple bloch and bulb rot	- Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10 days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other fruit crops. Use dry grass or twigs as mulching material at the basin to conserve the soil moisture.



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Ginger/	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg
turmeric			Urea, 375 kg SSP and 80 kg MOP.
			- Recommended varieties:
			For turmeric: Megha turmeric
			For ginger: Nadia
			- Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1
			ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or
			Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed
			before planting.
French Bean	Sowing to		- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
	vegetative		time of sowing.
			- Maintain optimum soil moisture.
Animal Science	es .		
Name of the animal	<b>Growth stage</b>	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
	age groups (as		at 30days for all birds (eye drop/ ocular).
	and when		2. R <sub>2</sub> B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly
	required)		@ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.



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#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### 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 15<sup>th</sup> to 19<sup>th</sup> March, 14 as given below:

Significant past w	eather for the p	receding bi-weekly of
Imphal - West (11	th to 13th March	n, 2014)

The sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.1-27.6 °C, range of minimum temperature observed was 6.8-10.0 °C, mean relative humidity observed in morning and afternoon were 81.3 % and 37.3 % respectively. The average wind speed range was 3.9-5.1 km/hr.

Weather forecast for next five days of Churachandpur (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

Light rain is predicted on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 - 33.0 °C & minimum temp. 10.0 – 13.0 °C. Relative Humidity may reach a maximum of 81 % (maximum RH) & 21 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	T.	T.	<del>-</del>
Early kharif rice	Nursery and main field preparation		<ul> <li>- Maintain optimum water level in nursery.</li> <li>- If yellowing of leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper.</li> <li>- Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm depth. Submerge soil for 15-20 days before planting to obtain weed free plot.</li> <li>- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha.</li> </ul>
Rapeseed/	Harvesting to		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds
Mustard	post-harvesting		thoroughly and store after proper drying.
Rabi Maize	Vegetative		- Irrigate to maintain required soil moisture during this phase.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			<ul> <li>Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/seeds in well ventilated godowns.</li> <li>Rodent management should be done in and around godowns.</li> </ul>
Horticulture Cro	DS		Trouble management should be used in and around godowns.
Tomato	Vegetative	Early blight	<ul> <li>Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.</li> <li>After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top dressing.</li> </ul>
Onion/ Garlic	Bulb formation	leaf minor  Purple bloch and	<ul> <li>During the bulb formation stage, check that the neck portion is not covered with soil.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC @ 1ml/lit of water to protect the crop from infestation of leaf minor. Spray is to be given twice or thrice at an interval of 7 to 10 days.</li> <li>Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple</li> </ul>
		bulb rot	bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10 days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other fruit crops. Use dry grass or twigs as mulching material at the basin to conserve the soil moisture.



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Ginger/	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg
turmeric			Urea, 375 kg SSP and 80 kg MOP.
			- Recommended varieties:
			For turmeric: Megha turmeric
			For ginger: Nadia
			- Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1
			ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or
			Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed
			before planting.
French Bean	Sowing to		- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
	vegetative		time of sowing.
			- Maintain optimum soil moisture.
Animal Science	2S		
Name of the animal	<b>Growth stage</b>	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
	age groups (as		at 30days for all birds (eye drop/ ocular).
	and when		2. R <sub>2</sub> B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly
	required)		@ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.



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#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### 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 15<sup>th</sup> to 19<sup>th</sup> March, 14 as given below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (11 <sup>th</sup> to 13 <sup>th</sup> March, 2014)	

The sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.1-27.6 °C, range of minimum temperature observed was 6.8-10.0 °C, mean relative humidity observed in morning and afternoon were 81.3 % and 37.3 % respectively. The average wind speed range was 3.9-5.1 km/hr.

# Weather forecast for next five days of Imphal - East (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

Light rain is predicted on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 30.0 - 33.0 °C & minimum temp. 10.0 – 12.0 °C. Relative Humidity may reach a maximum of 92 % (maximum RH) & 24 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		mestation	
Early kharif rice	Nursery and main field preparation		<ul> <li>- Maintain optimum water level in nursery.</li> <li>- If yellowing of leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper.</li> <li>- Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm depth. Submerge soil for 15-20 days before planting to obtain weed free plot.</li> </ul>
			- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha.
Rapeseed/ Mustard	Harvesting to post-harvesting		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds thoroughly and store after proper drying.
Rabi Maize	Vegetative	Stem borer	<ul> <li>Irrigate to maintain required soil moisture during this phase.</li> <li>To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.</li> </ul>
Storage			<ul> <li>Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains, seeds in well ventilated godowns.</li> <li>Rodent management should be done in and around godowns.</li> </ul>
Horticulture Cro	ps		
Tomato	Vegetative	Early blight	<ul> <li>Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.</li> <li>After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top dressing.</li> </ul>
Onion/ Garlic	Bulb formation		<ul> <li>During the bulb formation stage, check that the neck portion is not covered with soil.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> </ul>
		leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC @ 1ml/lit of water to protect the crop from infestation of leaf minor. Spray is to be given twice or thrice at an interval of 7 to 10 days.
		Purple bloch and bulb rot	- Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10 days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other fruit crops. Use dry grass or twigs as mulching material at the basin to conserve



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turmeric			Urea, 375 kg SSP and 80 kg MOP.
			- Recommended varieties:
			For turmeric: Megha turmeric
			For ginger: Nadia
			- Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1
			ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or
			Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed
			before planting.
French Bean	Sowing to		- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
	vegetative		time of sowing.
			- Maintain optimum soil moisture.
<b>Animal Science</b>	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
	age groups (as and when required)		at 30days for all birds (eye drop/ ocular).
			2. R <sub>2</sub> B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly
			@ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
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#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### Imphal-West

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Weather forecast for next five days of Imphal - West (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
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Rapeseed/ Mustard	Harvesting to post-harvesting		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds thoroughly and store after proper drying.
Rabi Maize	Vegetative	Stem borer	<ul> <li>Irrigate to maintain required soil moisture during this phase.</li> <li>To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.</li> </ul>
Storage			<ul> <li>Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains, seeds in well ventilated godowns.</li> <li>Rodent management should be done in and around godowns.</li> </ul>
Horticulture Cro	ps	·	
Tomato	Vegetative	Early blight	<ul> <li>Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.</li> <li>After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top dressing.</li> </ul>
Onion/ Garlic	Bulb formation	leaf minor	<ul> <li>During the bulb formation stage, check that the neck portion is no covered with soil.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC @ 1ml/lit of water to protect the crop from infestation of leaf minor Spray is to be given twice or thrice at an interval of 7 to 10 days.</li> </ul>
		Purple bloch and bulb rot	- Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10 days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other frui crops. Use dry grass or twigs as mulching material at the basin to conserve



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



# "Integrated Agromet Advisory Services"

Ginger/ turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties:         <ul> <li>For turmeric: Megha turmeric</li> <li>For ginger: Nadia</li> </ul> </li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or 15 cm 15 cm</li></ul>
			Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
French Bean	Sowing to vegetative		<ul> <li>Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.</li> <li>Maintain optimum soil moisture.</li> </ul>
Animal Scienc	es		•
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol> <li>F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular).</li> <li>R<sub>2</sub>B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).</li> </ol>
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
when re	when required)	_	- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	or age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
when required)	when required)	B.Q.	Vaccinate against Black Quarter.
			J.



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### 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 15<sup>th</sup> to 19<sup>th</sup> March, 14 as given below:

Significant past w	eather for the p	receding bi-weekly of
Imphal - West (11	th to 13th March	n, 2014)

The sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.1-27.6 °C, range of minimum temperature observed was 6.8-10.0 °C, mean relative humidity observed in morning and afternoon were 81.3 % and 37.3 % respectively. The average wind speed range was 3.9-5.1 km/hr.

# Weather forecast for next five days of Senapati (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

Light rain is predicted on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 30.0 °C & minimum temp. 7.0 - 10.0 °C. Relative Humidity may reach a maximum of 87 % (maximum RH) & 24 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	ı		
Early kharif	Nursery and main		- Maintain optimum water level in nursery.
rice	field preparation		- If yellowing of leaves of seedlings is observed, spray Chloropyriphos
			0.05% @ 2ml/lit water to control plant hopper.
			- Before first ploughing of main field, apply well decomposed FYM @10-
			15 t/ha. After a cross plough, irrigate the field to 5-7 cm depth. Submerge
			soil for 15-20 days before planting to obtain weed free plot.
			- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg
			MOP per ha.
Rapeseed/	Harvesting to		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds
Mustard	post-harvesting		thoroughly and store after proper drying.
Rabi Maize	Vegetative		- Irrigate to maintain required soil moisture during this phase.
		Stem borer	- To control the infestation of stem borer, apply few granules of
			Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth. After proper drying, store grains,
			seeds in well ventilated godowns.
TT 11 11 C			- Rodent management should be done in and around godowns.
Horticulture Cro		F1 1.1' . 1.4	A 1 D'd M 45 @ 2 / 1's of 7 d ' 1
Tomato	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a
			prophylactic measure against early blight After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top
			dressing.
Onion/ Garlic	Bulb formation		- During the bulb formation stage, check that the neck portion is not
Omon Garne	Duio formation		covered with soil.
			- Light hoeing and irrigation is necessary to keep soil moist during this
			phase.
		leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC
			@ 1ml/lit of water to protect the crop from infestation of leaf minor
			Spray is to be given twice or thrice at an interval of 7 to 10 days.
		Purple bloch and	- Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple
		bulb rot	bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10 days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other fruit
Fruit Crops	v egetative		crops. Use dry grass or twigs as mulching material at the basin to conserv



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



# "Integrated Agromet Advisory Services"

Ginger/ turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties:         <ul> <li>For turmeric: Megha turmeric</li> <li>For ginger: Nadia</li> </ul> </li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
French Bean	Sowing to vegetative		<ul> <li>Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.</li> <li>Maintain optimum soil moisture.</li> </ul>
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol> <li>F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular).</li> <li>R<sub>2</sub>B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).</li> </ol>
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	or age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
when required)	when required)	B.Q.	Vaccinate against Black Quarter.



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### **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 15<sup>th</sup> to 19<sup>th</sup> March, 14 as given below:

Significant past w	eather for the p	receding bi-weekly of
Imphal - West (11	th to 13th March	n, 2014)

The sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.1-27.6 °C, range of minimum temperature observed was 6.8-10.0 °C, mean relative humidity observed in morning and afternoon were 81.3 % and 37.3 % respectively. The average wind speed range was 3.9-5.1 km/hr.

# Weather forecast for next five days of Tamenglong (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

Light rain is predicted on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 - 34.0 °C & minimum temp. 11.0 – 14.0 °C. Relative Humidity may reach a maximum of 82 % (maximum RH) & 22 % (minimum RH). The average wind speed may be 3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		<del>- J.</del>
Early kharif	Nursery and main		- Maintain optimum water level in nursery.
rice	field preparation		- If yellowing of leaves of seedlings is observed, spray Chloropyriphos
			0.05% @ 2ml/lit water to control plant hopper.
			- Before first ploughing of main field, apply well decomposed FYM @10-
			15 t/ha. After a cross plough, irrigate the field to 5-7 cm depth. Submerge
			soil for 15-20 days before planting to obtain weed free plot.
			- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg
D 1/	TT		MOP per ha.
Rapeseed/	Harvesting to		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds
Mustard Rabi Maize	post-harvesting		thoroughly and store after proper drying.
Kabi Maize	Vegetative	C4 1	- Irrigate to maintain required soil moisture during this phase.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storogo			- Clean and store the seeds in RC-seed bins after proper drying. Check for
Storage			germination of seeds or fungal growth. After proper drying, store grains/
			seeds in well ventilated godowns.
			- Rodent management should be done in and around godowns.
Horticulture Cro	ons		reacht management should be done in and around godowns.
Tomato	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a
		, ,	prophylactic measure against early blight.
			- After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top
			dressing.
Onion/ Garlic	Bulb formation		- During the bulb formation stage, check that the neck portion is not
			covered with soil.
			- Light hoeing and irrigation is necessary to keep soil moist during this
		1 0 1	phase.
		leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC
			@ 1ml/lit of water to protect the crop from infestation of leaf minor.
			Spray is to be given twice or thrice at an interval of 7 to 10 days.
		Purple bloch and	- Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple
		bulb rot	bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10
		2223 100	days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other fruit
riuit Crops	v egetati ve		Trovide the saving fingation to passion trutt, pineapple and other fruit



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



# "Integrated Agromet Advisory Services"

Ginger/	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg
turmeric			Urea, 375 kg SSP and 80 kg MOP.
			- Recommended varieties:
			For turmeric: Megha turmeric
			For ginger: Nadia
			- Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1
			ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or
			Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed
			before planting.
French Bean	Sowing to		- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
	vegetative		time of sowing.
			- Maintain optimum soil moisture.
Animal Science	2S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
	age groups (as		at 30days for all birds (eye drop/ ocular).
	and when		2. R <sub>2</sub> B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly
	required)		@ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
when requ	when required)	B.Q.	Vaccinate against Black Quarter.



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### **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 15<sup>th</sup> to 19<sup>th</sup> March, 14 as given below:

Significant past w	eather for the p	receding bi-weekly of
Imphal - West (11	th to 13th March	n, 2014)

The sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.1-27.6 °C, range of minimum temperature observed was 6.8-10.0 °C, mean relative humidity observed in morning and afternoon were 81.3 % and 37.3 % respectively. The average wind speed range was 3.9-5.1 km/hr.

# Weather forecast for next five days of Thoubal (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

Light rain is predicted on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 30.0 - 32.0 °C & minimum temp. 10.0 – 13.0 °C. Relative Humidity may reach a maximum of 76 % (maximum RH) & 25 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Nursery and main field preparation		- Maintain optimum water level in nursery.  - If yellowing of leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper.  Perform first playshing of proin field apply well decomposed EVM @10.
			<ul> <li>Before first ploughing of main field, apply well decomposed FYM @ 10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm depth. Submerge soil for 15-20 days before planting to obtain weed free plot.</li> <li>At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha.</li> </ul>
Rapeseed/ Mustard	Harvesting to post-harvesting		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds thoroughly and store after proper drying.
Rabi Maize	Vegetative		- Irrigate to maintain required soil moisture during this phase.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/seeds in well ventilated godowns.
			- Rodent management should be done in and around godowns.
Horticulture Cro		T	
Tomato	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			- After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top dressing.
Onion/ Garlic	Bulb formation		- During the bulb formation stage, check that the neck portion is not covered with soil.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
		leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC @ 1ml/lit of water to protect the crop from infestation of leaf minor. Spray is to be given twice or thrice at an interval of 7 to 10 days.
		Purple bloch and bulb rot	- Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10 days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other fruit crops. Use dry grass or twigs as mulching material at the basin to conserve the soil moisture.



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



# "Integrated Agromet Advisory Services"

Ginger/	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg
turmeric			Urea, 375 kg SSP and 80 kg MOP.
			- Recommended varieties:
			For turmeric: Megha turmeric
			For ginger: Nadia
			- Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1
			ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or
			Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed
			before planting.
French Bean	Sowing to		- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
	vegetative		time of sowing.
			- Maintain optimum soil moisture.
Animal Science	es .		
Name of the animal	<b>Growth stage</b>	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
	age groups (as		at 30days for all birds (eye drop/ ocular).
	and when		2. R <sub>2</sub> B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly
	required)		@ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)		- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
when required	when required)	B.Q.	Vaccinate against Black Quarter.



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 14<sup>th</sup> March, 2014

#### **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 15<sup>th</sup> to 19<sup>th</sup> March, 14 as given below:

Significant past weather for the preceding bi-weekly of							
Imphal - West (11 <sup>th</sup> to 13 <sup>th</sup> March, 2014)							

The sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 26.1-27.6 °C, range of minimum temperature observed was 6.8-10.0 °C, mean relative humidity observed in morning and afternoon were 81.3 % and 37.3 % respectively. The average wind speed range was 3.9-5.1 km/hr.

# Weather forecast for next five days of Ukhrul (15<sup>th</sup> to 19<sup>th</sup> March, 2014)

Light rain is predicted on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 29.0 °C & minimum temp. 6.0-9.0 °C. Relative Humidity may reach a maximum of 68 % (maximum RH) & 25 % (minimum RH). The average wind speed may be 4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	<del>- J.</del>
Early kharif rice	Nursery and main field preparation		<ul> <li>- Maintain optimum water level in nursery.</li> <li>- If yellowing of leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper.</li> <li>- Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm depth. Submerge soil for 15-20 days before planting to obtain weed free plot.</li> <li>- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha.</li> </ul>
Rapeseed/	Harvesting to		- Dry the harvest for 5-6 days in sun and thresh. Clean the seeds
Mustard	post-harvesting		thoroughly and store after proper drying.
Rabi Maize	Vegetative		- Irrigate to maintain required soil moisture during this phase.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			<ul> <li>Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains, seeds in well ventilated godowns.</li> <li>Rodent management should be done in and around godowns.</li> </ul>
Horticulture Cro	ps		
Tomato	Vegetative	Early blight	<ul> <li>Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.</li> <li>After 30 days of transplanting apply Urea @ 50-60 kg /sangam as top dressing.</li> </ul>
Onion/ Garlic	Bulb formation	leaf minor	<ul> <li>During the bulb formation stage, check that the neck portion is no covered with soil.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Monocrotophos 76EC @ 1ml/lit of water to protect the crop from infestation of leaf minor Spray is to be given twice or thrice at an interval of 7 to 10 days.</li> </ul>
		Purple bloch and bulb rot	- Spray Sixer @ 2 gm/lit of water as prophylactic measure against Purple bloch and Bulb rot. Spray is to be given twice at an interval of 7 to 10 days.
Fruit Crops	Vegetative		Provide life saving irrigation to passion fruit, pineapple and other fruit crops. Use dry grass or twigs as mulching material at the basin to conserve



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



# "Integrated Agromet Advisory Services"

Ginger/	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg
turmeric			Urea, 375 kg SSP and 80 kg MOP.
			- Recommended varieties:
			For turmeric: Megha turmeric
			For ginger: Nadia
			- Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1
			ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or
			Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed
			before planting.
French Bean	Sowing to		- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
	vegetative		time of sowing.
			- Maintain optimum soil moisture.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
	age groups (as		at 30days for all birds (eye drop/ ocular).
	and when required)		2. R <sub>2</sub> B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly
			@ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.