



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb'18

Dimapur District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 24⁰C to 25⁰C and 12⁰C to 13⁰C, respectively.
- Relative humidity varied from 22% to 88%.
- Wind speed ranged from 2 to 3 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 24⁰C - 25⁰C and the **min temp** 9⁰C to 11⁰C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 26% to 90%.
- **Wind speed** may reach upto 2- 3 kmph
Wind direction will be easterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|-------------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Maturing stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
|------------------------------|------------------|------------------------|--|
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
| <i>Vegetables</i> | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |
| <i>Cauliflower, cabbage,</i> | Maturing stage | Black spot Cut worm | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from</i> |

| | | | |
|--|--|-------------------------|---|
| | | | <p><i>the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</i></p> <p><i>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i></p> <p><i>Spray Neem seed kernel extract @ 500g/ha twice at 10 days interval.</i></p> <p><i>Frequent Monitoring should be done and mechanically destroy the caterpillar</i></p> |
| Litchi | | Bark eating caterpillar | <p><i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i></p> |
| Ginger / turmeric | Maturity stage | | <p><i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i></p> |
| Livestock | | | |
| <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |
| Piggery | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary • Wash the sties with potassium permanganate solution a week atleast | | |
| Fisheries | | | |



As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

SCIENTIFIC EXPERT COMMITTEE

| Sl.no | Name | Designation | Department | |
|-------|------------------|---------------------|--|--------------------------|
| 1 | Dr.D.J. Rajkhowa | Principle Scientist | Agronomy | djrajkhowa@gmail.com |
| 2 | Dr. L.K. Baishya | Senior Scientist | Agronomy | lkbicar@gmail.com |
| 3 | Ph. Romen Sharma | Scientist | Agricultural Extension | romen.agext@gmail.com |
| 4 | Dr. Rajesha G | Scientist | Plant Pathology | rajeshag337@gmail.com |
| 5 | Dr. Mahak Singh | Scientist | Animal Reproduction & Gynaecology | mahaksinghivri@gmail.com |
| 6 | Dr. Azeze Seyie | Scientist | Spices, Plantation & Medicinal & Aromatic Plants | azezeseyie@yahoo.com |
| 7 | Jyotish Barman | Scientist | Fisheries Resource Management | jyotish5@gmail.com |
| 8 | Aabon W Yanthan | Scientist | Vegetable Science | aabon.iari@gmail.com |



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb'18

Kiphire District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 22^oC to 23^oC and 7^oC to 9^oC, respectively.
- Relative humidity varied from 26% to 88%.
- Wind speed ranged from 3 to 4 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 25^oC - 27^oC and the **min temp** 7^oC to 9^oC
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 22% to 90%.
- **Wind speed** may reach upto 2-3 kmph
- **Wind direction** will be southeasterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|----------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
|------------------------------|------------------|------------------------|---|
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
| <i>Vegetables</i> | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |
| <i>Cauliflower, cabbage,</i> | Maturing stage | Black spot Cut worm | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop</i> |

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| | | | <p>from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</p> <p>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</p> |
| | | | <p>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</p> |
| Litchi | | Bark eating caterpillar | <p>The caterpillar bore inside the trunk or main stem. During night they come out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</p> |
| Ginger / turmeric | Maturity stage | | <p>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</p> |
| Livestock | | | |
| <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |
| Piggery | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary • Wash the sties with potassium permanganate solution a week atleast | | |
| Fisheries | | | |



As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

SCIENTIFIC EXPERT COMMITTEE

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| 8 | Aabon W Yanthan | Scientist | Vegetable Science | aabon.iari@gmail.com |



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb '18

Kohima District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 23^oC to 24^oC and 9^oC to 10^oC, respectively.
- Relative humidity varied from 25% to 95%.
- Wind speed ranged from 3 to 4 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 24^oC - 26^oC and the **min temp** 5^oC to 6^oC
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 28% to 95%.
- **Wind speed** may reach upto 2-3kmph
Wind direction will be mostly southeasterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|----------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
|-----------------------|------------------|--|--|
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
|-----------------------|------------------|--|--|

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| Vegetables | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |
| Cauliflower, cabbage, | Maturing stage | Black spot | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i> |
| | | Cut worm | <i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i> |
| Litchi | | Bark eating caterpillar | <i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i> |
| Ginger / turmeric | Maturity stage | | <i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i> |
| Livestock | | | |
| <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |

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| | Piggery | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary • Wash the sties with potassium permanganate solution a week atleast |
| | <i>Fisheries</i> | |
|  | | As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes |

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Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb'18

Longleng District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 24⁰C to 25⁰C and 10⁰C to 11⁰C, respectively.
- Relative humidity varied from 30% to 95%.
- Wind speed ranged from 1 to 2 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 25⁰C - 27⁰C and the **min temp** 7⁰C to 9⁰C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 30% to 95%.
- **Wind speed** may reach upto 2- 3 kmph
- **Wind direction** will be mostly southeasterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|----------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
|------------------------------|------------------|------------------------|---|
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
| <i>Vegetables</i> | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |
| <i>Cauliflower, cabbage,</i> | Maturing stage | Black spot Cut worm | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow</i> |

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| | | | <p>lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</p> <p>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</p> <p>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</p> |
| Litchi | | Bark eating caterpillar | The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground. |
| Ginger / turmeric | Maturity stage | | For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots. |
| Livestock | | | |
| <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |
| Piggery | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary • Wash the sties with potassium permanganate solution a week atleast | | |

Fisheries



As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

SCIENTIFIC EXPERT COMMITTEE

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| 8 | Aabon W Yanthan | Scientist | Vegetable Science | aabon.iari@gmail.com |



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb '18

Mokokchung District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 24^oC to 25^oC and 10^oC to 11^oC, respectively.
- Relative humidity varied from 42% to 90%.
- Wind speed ranged from 1 to 2 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 24^oC - 25^oC and the **min temp** 7^oC to 9^oC
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 32% to 95%.
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- **Wind direction** will be southeasterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|----------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
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| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
| <i>Vegetables</i> | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |

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| Cauliflower, cabbage, | Maturing stage | Black spot | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</i> <i>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i> |
| | | Cut worm | <i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval.</i> <i>Frequent Monitoring should be done and mechanically destroy the caterpillar</i> |
| Litchi | | Bark eating caterpillar | <i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i> |
| Ginger / turmeric | Maturity stage | | <i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i> |

Livestock

- Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax
- Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals
- Animals should be given lukewarm feed and water to drink
- To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery

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| Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. |
| Piggery | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary • Wash the sties with potassium permanganate solution a week atleast |

Fisheries



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| 4 | Dr. Rajesha G | Scientist | Plant Pathology | rajeshag337@gmail.com |
| 5 | Dr. Mahak Singh | Scientist | Animal Reproduction & Gynaecology | mahaksinghivri@gmail.com |
| 6 | Dr. Azeze Seyie | Scientist | Spices, Plantation & Medicinal & Aromatic Plants | azezeseyie@yahoo.com |
| 7 | Jyotish Barman | Scientist | Fisheries Resource Management | jyotish5@gmail.com |
| 8 | Aabon W Yanthan | Scientist | Vegetable Science | aabon.iari@gmail.com |



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb '18 Mon District

Bulletin No:09/2018

ICAR RESEARCH COMPLEX FOR NEH REGION
(Indian Council of Agricultural Research)
NAGALAND CENTER, JHARNAPANI, MEDZIPHEMA

| <i>Weather summary of the preceding week</i> | | <i>Weather forecast valid upto 4th Feb 2018</i> | |
|---|------------------|--|---|
| <ul style="list-style-type: none"> ▪ No rain occurred the past week ▪ Maximum and minimum temperatures ranged 24^oC to 25^oC and 10^oC to 11^oC, respectively. ▪ Relative humidity varied from 30% to 91% ▪ Wind speed ranged from 2 to 4 kmph | | <ul style="list-style-type: none"> ▪ Probability of no rain the coming week. ▪ Max temp is likely to be 24^oC - 25^oC and the min temp 7^oC to 9^oC ▪ Sky is likely to be clear the coming week ▪ Relative Humidity is likely to range from 32% to 95%. ▪ Wind speed may reach upto 4- 6 kmph ▪ Wind direction will be southeasterly | |
| <p>General Recommendations</p> <ul style="list-style-type: none"> • Spraying operation should be done only on dry/clear weather • Obtain seeds from reputed/certified/reliable source • Use fertilizers/pesticides as per recommended doses for the location • Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides | | | |
| Field crops | | | |
| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Maturing stage | - | <i>Soil moisture conservation techniques like mulching with crop residue is recommended Keep the field free from weeds and daily scouting of the field should be done for aphid.</i> |
| <i>Rabi maize</i> | Maturing stage | | <i>Provide mulching to conserve moisture</i> |
| <i>Linseed/lentil</i> | Maturing stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |
| Horticultural crop | | | |
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |

| | | | |
|--|--|-------------------------|--|
| Vegetables | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |
| Cauliflower, cabbage, | Maturing stage | Black spot | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i> |
| | | Cut worm | <i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i> |
| Litchi | | Bark eating caterpillar | <i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i> |
| Ginger / turmeric | Maturity stage | | <i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i> |
| Livestock | | | |
| <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |
| Piggery | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary • Wash the sties with potassium permanganate solution a week atleast | | |

Fisheries



As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes.

SCIENTIFIC EXPERT COMMITTEE

| Sl.no | Name | Designation | Department | |
|-------|------------------|---------------------|--|--------------------------|
| 1 | Dr.D.J. Rajkhowa | Principle Scientist | Agronomy | djrajkhowa@gmail.com |
| 2 | Dr. L.K. Baishya | Senior Scientist | Agronomy | lkbicar@gmail.com |
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| 8 | Aabon W Yanthan | Scientist | Vegetable Science | aabon.iari@gmail.com |



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb '18

Peren District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 24⁰C to 25⁰C and 9⁰C to 10⁰C, respectively.
- Relative humidity varied from 27% to 93%.
- Wind speed ranged from 2 to 3 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 24⁰C - 26⁰C and the **min temp** 7⁰C to 8⁰C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 30% to 95%.
- **Wind speed** may reach upto 2-3 kmph
- **Wind direction** will be southeasterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|---------------------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
|-----------------------|------------------|--|--|
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
|-----------------------|------------------|--|--|

| | | | | |
|--|--|--|-------------------------|---|
| | Vegetables | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |
| | Cauliflower, cabbage, | Maturing stage | Black spot | <p><i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</i></p> <p><i>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i></p> |
| | | | Cut worm | <p><i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval.</i></p> <p><i>Frequent Monitoring should be done and mechanically destroy the caterpillar</i></p> |
| | Litchi | | Bark eating caterpillar | <i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i> |
| | Ginger / turmeric | Maturity stage | | <i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i> |
| | <p>Livestock</p> <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| | Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |
|  | Piggery | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary | | |

- Wash the sties with potassium permanganate solution a week atleast

Fisheries

As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

SCIENTIFIC EXPERT COMMITTEE

| Sl.no | Name | Designation | Department | |
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| 7 | Jyotish Barman | Scientist | Fisheries Resource Management | jyotish5@gmail.com |
| 8 | Aabon W Yanthan | Scientist | Vegetable Science | aabon.iari@gmail.com |



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb'18 Phek District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 24^oC to 25^oC and 8^oC to 9^oC, respectively.
- Relative humidity varied from 27% to 90%.
- Wind speed ranged from 1 to 2 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 25^oC - 26^oC and the **min temp** 6^oC to 8^oC
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 28% to 93%.
- **Wind speed** may reach upto 1-2 kmph
Wind direction will be mostly southeasterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|-----------------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
|------------------------------|------------------|--|--|
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
|------------------------------|------------------|--|--|

| | | | |
|--|--|-------------------------|--|
| Vegetables | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |
| Cauliflower, cabbage, | Maturing stage | Black spot | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i> |
| | | Cut worm | <i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i> |
| Litchi | | Bark eating caterpillar | <i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i> |
| Ginger / turmeric | Maturity stage | | <i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i> |
| Livestock | | | |
| <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |

| | | |
|---|-------------------------|--|
| | <i>Piggery</i> | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary • Wash the sties with potassium permanganate solution a week atleast |
| | <i>Fisheries</i> | |
|  | | As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes |

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| 7 | Jyotish Barman | Scientist | Fisheries Resource Management | jyotish5@gmail.com |
| 8 | Aabon W Yanthan | Scientist | Vegetable Science | aabon.iari@gmail.com |



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb '18 Tuensang District

Bulletin No:09/2018

| <i>Weather summary of the preceding week</i> | | <i>Weather forecast valid upto 4th Feb 2018</i> | |
|---|------------------|--|---|
| <ul style="list-style-type: none"> ▪ No rain occurred the past week ▪ Maximum and minimum temperatures ranged 20^oC to 21^oC and 6^oC to 7^oC, respectively. ▪ Relative humidity varied from 25% to 95%. ▪ Wind speed ranged from 2 to 3 kmph | | <ul style="list-style-type: none"> ▪ Probability of no rain the coming week. ▪ Max temp is likely to be 22^oC - 24^oC and the min temp 4^oC to 6^oC ▪ Sky is likely to be clear the coming week ▪ Relative Humidity is likely to range from 26% to 94%. ▪ Wind speed may reach upto 2-3 kmph ▪ Wind direction will be mostly southerly | |
| <p>General Recommendations</p> <ul style="list-style-type: none"> • Spraying operation should be done only on dry/clear weather • Obtain seeds from reputed/certified/reliable source • Use fertilizers/pesticides as per recommended doses for the location • Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides | | | |
| Field crops | | | |
| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |
| Horticultural crop | | | |
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
| <i>Vegetables</i> | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |

| | | | |
|--|--|-------------------------|--|
| <i>Cauliflower, cabbage,</i> | Maturing stage | Black spot | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i> |
| | | Cut worm | <i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i> |
| <i>Litchi</i> | | Bark eating caterpillar | <i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i> |
| <i>Ginger / turmeric</i> | Maturity stage | | <i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i> |
| <i>Livestock</i> | | | |
| <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| <i>Poultry</i> | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |
| <i>Piggery</i> | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold • Look out for skin conditions and treat if necessary • Wash the sties with potassium permanganate solution a week atleast | | |

| | |
|---|---|
| <i>Fisheries</i> | |
|  | <p>As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes</p> |

SCIENTIFIC EXPERT COMMITTEE

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| 7 | Jyotish Barman | Scientist | Fisheries Resource Management | jyotish5@gmail.com |
| 8 | Aabon W Yanthan | Scientist | Vegetable Science | aabon.iari@gmail.com |



Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb '18

Wokha District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 24^oC to 25^oC and 9^oC to 10^oC, respectively.
- Relative humidity varied from 27% to 90%.
- Wind speed ranged from 3 to 4 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 24^oC - 25^oC and the **min temp** 7^oC to 9^oC
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 36% to 92%.
- **Wind speed** may reach upto 4- 5 kmph
- **Wind direction** will be southeasterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|-----------------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
|-----------------------|------------------|--|--|
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
| <i>Vegetables</i> | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |

| | | | |
|--|--|-------------------------|---|
| Cauliflower, cabbage, | Maturing stage | Black spot | <p><i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</i></p> <p><i>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i></p> |
| | | Cut worm | <p><i>Spray Neem seed kernel extract @ 500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i></p> |
| Litchi | | Bark eating caterpillar | <p><i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i></p> |
| Ginger / turmeric | Maturity stage | | <p><i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i></p> |
| Livestock | | | |
| <ul style="list-style-type: none"> • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax • Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals • Animals should be given lukewarm feed and water to drink • To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery | | | |
| Poultry | <ul style="list-style-type: none"> • Vaccination and deworming must be carried out • Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters. • Sanitary and hygienic practice must be followed at all time. | | |
| Piggery | <ul style="list-style-type: none"> • Put up windbreaks and protection from excess cold | | |



- Look out for skin conditions and treat if necessary
- Wash the sties with potassium permanganate solution a week atleast

Fisheries

As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

SCIENTIFIC EXPERT COMMITTEE

| Sl.no | Name | Designation | Department | |
|-------|------------------|---------------------|--|--------------------------|
| 1 | Dr.D.J. Rajkhowa | Principle Scientist | Agronomy | djrajkhowa@gmail.com |
| 2 | Dr. L.K. Baishya | Senior Scientist | Agronomy | lkbicar@gmail.com |
| 3 | Ph. Romen Sharma | Scientist | Agricultural Extension | romen.agext@gmail.com |
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| 5 | Dr. Mahak Singh | Scientist | Animal Reproduction & Gynaecology | mahaksinghivri@gmail.com |
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भारत कृषि अनुसंधान संस्थान
ICAR - RCNEH

ICAR RESEARCH COMPLEX FOR NEH REGION
(Indian Council of Agricultural Research)
NAGALAND CENTER, JHARNAPANI, MEDZIPHEMA

Integrated Agromet Advisory Service Bulletin from 31st Jan to 4th Feb'18 Zunheboto District

Bulletin No:09/2018

Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 23⁰C to 25⁰C and 8⁰C to 9⁰C, respectively.
- Relative humidity varied from 30% to 99%.
- Wind speed ranged from 1 to 2 kmph

Weather forecast valid upto 4th Feb 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 23⁰C - 26⁰C and the **min temp** 5⁰C to 8⁰C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 34% to 90%.
- **Wind speed** may reach upto 1-2 kmph
- **Wind direction** will be mostly southeasterly

General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Field crops

| Main Crops | Stage | Pest/ Diseases | Agro-meteorological Advisories |
|-----------------------|------------------|-----------------------|---|
| <i>TRC/WRC paddy</i> | Storage | | <i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i> |
| <i>Toria</i> | Flowering stage | - | <i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i> |
| <i>Rabi maize</i> | Silking stage | | <i>Weeding and earthing up should be carried out</i> |
| <i>Linseed/lentil</i> | vegetative stage | | <i>Soil moisture conservation techniques like mulching with crop residue is recommended</i> |

Horticultural crop

| | | | |
|-----------------------|------------------|--|--|
| <i>Khasi mandarin</i> | Harvesting stage | | <i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i> |
|-----------------------|------------------|--|--|

| | | | |
|--|--|-------------------------|--|
| Vegetables | Harvesting | | <i>Intercultural operations in vegetables are advised to remove the weeds.</i> |
| Cauliflower, cabbage, | Maturing stage | Black spot | <i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i> |
| | | Cut worm | <i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i> |
| Litchi | | Bark eating caterpillar | <i>The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.</i> |
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