

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 30th JANUARY"2015 – 2nd FEBRUARY"2015



IMD, GANGTOK IN COLLABORATION WITH *ICAR, GANGTOK, FSAD AND HCCD, GANGTOK*





ISSUED ON "FRIDAY 30TH JANUARY"2015

Meteorological Sub-division of Sikkim

As per India Meteorological Department's classification, Sikkim is a part of Met Sub-Division of Sub Himalayan West Bengal & Sikkim (SHWB & SKM) and is divided into four (4) Districts:

- 1) North District with HQ at Mangan
- 2) East District with HQ at Gangtok
- 3) West District with HQ at Gyalsing
- 4) South District with HQ at Namchi

| | Mangan (AWS) | | | North Sikkim Forecast | | | | | | |
|-----------|--------------|-----------|----------------------|---------------------------------|------------------|------------------|------------------|------------------|------------------|--|
| | | | | Day → Parameter↓ | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | |
| Date | Rainfall | Max. Temp | Min. Temp | Sky Condition | Partly Cloudy | Partly Cloudy | Partly Cloudy | Partly Cloudy | Partly Cloudy | |
| Date | (mm) | (°C) | (°C) | Rainfall | No rain | |
| 27-1-2015 | 000 | 17.9 | 09.7 | Wind (Km/Hr) (Speed/ Dir) | 4(SSE) | 2(WSW) | 3(WSW) | 4(WSW) | 5(WSW) | |
| 28-1-2015 | 000 | 19.0 | 08.0 | Temperature (Min-Max) | 6 - 17°C | 6 - 18°C | 6 - 18°C | 6 - 18°C | 6 - 18°C | |
| 29-1-2015 | 000 | 18.1 | 07.3 | RH (Min- Max) | 52 - 75% | 55 - 72% | 52 - 75% | 55 - 80% | 58 - 85% | |
| | | | | | | | | | | |
| Gangtok | | | East Sikkim Forecast | | | | | | | |
| | | | Day → Parameter↓ | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | | |
| Date | Rainfall | Max. Temp | Min. Temp | Sky Condition | Partly Cloudy | Partly Cloudy | Partly Cloudy | Partly Cloudy | Partly Cloudy | |
| Date | (mm) | (°C) | (°C) | Rainfall | No rain | |

| Date | (mm) | (°C) | (°C) | Rainfall | No rain |
|-----------|------|------|------|---------------------------------|----------|----------|----------|----------|----------|
| 27-1-2015 | 000 | 13.8 | 07.4 | Wind (Km/Hr) (Speed/ Dir) | 4(ESE) | 2(SW) | 2(WSW) | 4(WNW) | 3(WNW) |
| 28-1-2015 | 000 | 14.3 | 06.2 | Temperature (Min-Max) | 5 - 12°C | 5 - 13°C | 5 - 13°C | 5 - 13°C | 5 - 14°C |
| 29-1-2015 | 000 | 11.5 | 05.5 | RH (Min- Max) | 58 - 71% | 55 - 71% | 55 - 70% | 50 - 68% | 58 - 70% |

| | | | | | Sou | th Sikki | m Foreca | ast | |
|-----------|-----------|-----------|----------------------|---------------------------------|------------------|------------------|------------------|------------------|------------------|
| Namthang | | | Day → Parameter ↓ | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | |
| Date | Rainfall | Max. Temp | Min. Temp | Sky Condition | Partly Cloudy | Partly Cloudy | Partly Cloudy | Partly Cloudy | Partly Cloudy |
| Date | (°C) (°C) | (°C) | (°C) | Rainfall | No rain |
| 27-1-2015 | 000 | 18.5 | 08.0 | Wind (Km/Hr) (Speed/ Dir) | 4(ESE) | 2(WSW) | 3(WSW) | 3(W) | 4(W) |
| 28-1-2015 | 000 | 17.5 | 08.0 | Temperature (Min-Max) | 7 - 17°C | 7 - 18°C | 7 - 18°C | 7 - 18°C | 7 - 18°C |
| 29-1-2015 | 000 | N/A | 09.0 | RH (Min- Max) | 55 - 78% | 52 - 76% | 50 - 70% | 48 - 72% | 45 - 70% |

| Cuelching (AWC) | | | West Sikkim Forecast | | | | | | |
|-----------------|-----------------|-----------|----------------------|---------------------------------|------------------|------------------|------------------|------------------|---------------------|
| | Gyalshing (AWS) | | | Day → Parameter↓ | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| Data | Rainfall | Max. Temp | Min. Temp | Sky Condition | Partly Cloudy | Partly Cloudy | Partly Cloudy | Partly Cloudy | Generally Cloudy |
| Date | (mm) | (°C) | (°C) | Rainfall | No rain |
| 27-1-2015 | 000 | 16.4 | 07.4 | Wind (Km/Hr) (Speed/ Dir) | 4(ENE) | 3(WNW) | 3(SW) | 4(WSW) | 5(WSW) |
| 28-1-2015 | 000 | 16.7 | 05.4 | Temperature (Min-Max) | 4 - 15°C | 4 - 16°C | 4 - 16°C | 5 - 16°C | 5 - 16°C |
| 29-1-2015 | 000 | 13.2 | 05.1 | RH (Min- Max) | 55 - 72% | 50 - 70% | 50 - 68% | 55 - 70% | 58 - 72% |

<u>Part II</u>

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops

- Solution Of soil moisture through locally available biomass mulching in all the crops.
- Preventive spray and soil drenching with copper oxychloride @2.5 g/l of water at weekly intervals.
- Spraying of plant protection biopesticides in the evening.
- Utilization of harvested water stored in various structures like *Jalkund* is recommended through drip and sprinkler irrigation system for cultivation of *Rabi* crops.
- Incorporate organic sources of nutrients (FYM, Vermicompost, Poultry manure, Pig manure, Goat/ Sheep manure, Mixed compost, Neem cake *etc.*) in to the soil for cultivation of all *Rabi* crops.

| Name of the crop/Animal | Stage | Pest/ Disease | Agro-Met Advisories |
|----------------------------|---|---------------|---|
| Crops | | | |
| Rapeseed and mustard | Flowering /Pod formation stage | Aphid | One irrigation is recommended to avoid moisture stress. Remove the infected inflorescence/ pod. Spray Neem based formulation @3ml/lit for the management of aphid. |
| Buckwheat | Flowering / grain filling | | Regular monitoring of crop. |
| Garden pea | vegetative/ flowering/ harvesting | Rust | Hand weeding should be done to reduce the weed pressure. Weeded plants can be used as surface mulch to conserve soil moisture. One irrigation is recommended to avoid moisture stress. Preventive spray with 0.25% wettable sulphur for the management of rust and powdery mildew. Pod harvesting should be done carefully to avoid plant damage. |

| | | Powdery mildew Disease Disease Disease Disease Disease | |
|-------------------|--|---|--|
| Large cardamom | Vegetative/ floral bud formation | | Removal and burying of blight infected leaves. Two irrigations in a month are recommended. Field sanitation and removal of unproductive tillers. |
| Ginger | Storage | | Harvested rhizome should be dried for two weeks under shade condition and stored in cool and dry place for seed material. |
| Cole crops | Vegetative/ Harvesting | Damping off Output of the second second | Drenching with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1% at 10 days interval for the management of damping off and root rot. Removal of club root infected plant and drenching with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1%. Application of Neem cake/ mustard oil cake @ 50kg/1000sqm. Drenching of plant with mixture of water, cow urine and Neem oil 8 litre, 2 litre and 50 ml, respectively at weekly interval to avoid red ant and cut worms. Earthing up for early transplanted crop is recommended. Over watering should be avoided. |

| - | | | | ~ |
|------------|---------------|---------------------------|---|--|
| Tomato | Nursery/ | Late blight of | | Seed should be sown for commercial |
| | vegetative / | tomato | | production in raised bed of 4inches |
| | fruiting | A CONTRACTOR | | and 1m width. |
| | | | | Seed treatment with Trichoderma |
| | | | | viride @ 4g/kg seed. |
| | | | | Soil treatment with Trichoderma |
| | | | | viride @ 2.5 kg/50kg FYM or sand. |
| | | | | Bed should be prepared to a fine tilth |
| | | | | and incorporate well decomposed |
| | | | | FYM @ 2kg/sqm. |
| | | | ۲ | Regular watering should be done. |
| | | | ۲ | Removal of diseased leaves and |
| | | 3 | | branches and weekly spraying of |
| | | | | copper oxychloride @ 0.25% for the |
| | | | | management of late blight disease. |
| Potato | vegetative | Late blight of | ١ | Removal of diseased leaves and |
| | | potato | | branches and weekly spraying of |
| | | A AND A | | copper oxychloride @ 0.25% for the |
| | | Contraction of the second | | management of late blight disease. |
| | | | ۲ | Regular watering should be done |
| | | HAP A TH | ۲ | Regular weeding should be done and |
| | | | | followed by earthing up. |
| Sikkim | Nursery stage | | ۲ | Seeds of elite mother plant should be |
| Mandarin | | | | sown in raised nursery bed for raising |
| | | | | nucellar seedlings. |
| | | | ٨ | Nursery bed should be prepared with |
| | | | | mixing of sand, FYM and soil at the |
| | | | | ratio of 2:1:1. |
| | | | ۲ | Diseased and unwanted branches |
| | | | | should be removed and spray with |
| | | | | copper oxychloride @ 0.25 %. |
| | | | ٨ | Well decomposed FYM @ 10-20kg |
| | | | | /plant should be applied in the basin of |
| | | | | trees. |
| | | | ۲ | Avoid FYM application near the tree |
| | | | | trunk. |
| | | | ٨ | Regular watering should be done. |
| Kiwi fruit | Training | | | Dormant kiwi fruit plant should be |
| | /Pruning | | | pruned to give proper shape to the |
| | 6 | | | vine. |
| | | | ۲ | Well decomposed FYM @ 10-20kg |
| | | | · | /plant should be applied in the basin of |
| | | | | trees. |
| | | | ۲ | Avoid FYM application near the tree |
| | | | Ť | trunk. |
| | | | 1 | |

| Animal Scie | nces | | | |
|---------------------------|---------------|---------------|-------------|---|
| Tibetan Sheep | Sheared sheep | | ۲ | Provide winter shelter for lambs. |
| Yak | Pregnancy | Weight gain | * * | Pregnancydiagnosisisrecommended.Feedingofconcentratefeedwith mineral mixture and salt.Provide winter shelter for calves. |
| Cattle, Sheep and Goat | All stages | | * | Chances of coming into estrus so farmers are advised to look for heat sign especially during early morning or late evening and ensure breeding of the animal after 12 hr of 1 st heat observe. Feeding of colostrums within 2 hrs of birth. Feeding of concentrate feed along with jaggery, mineral mixture and salt. De-worming with Fenbendazole @ 10 mg / kg body weight. |
| Poultry | All stages | High humidity | * * * | Frequent raking and liming of deep litter materials. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Maintenance of brooder temperature for chicks with the help of electrical bulbs. Ranikhet vaccination at 5 th day and at 30 th day of age. Calcium and multi vitamin supplementation is strongly recommended to optimize egg production. |
| Pig | All stages | | * * | Keep floor dry to avoid skin diseases. De-worming with Fenbendazole @ 10 mg / kg body weight. Swine fever vaccine at the age of 8- 10 week is recommended. |