

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 11th NOVEMBER - 13th NOVEMBER"2014

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





ISSUED ON TUESDAY 11th NOVEMBER'2014 BY

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 | | | | | | |
|--------------|----------|-----------|-----------|-----------------------|---------------------|---------------------|---------------------|------------------|------------------|--|
| Rainfall | Rainfall | Max. Temp | Min. Temp | Day → Parameter↓ | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | |
| Date | (mm) | (°C) | (°C) | Sky Condition | Generally Cloudy | Generally Cloudy | Generally Cloudy | Partly Cloudy | Partly Cloudy | |
| 7-11-2014 | 000 | 24.1 | N/A | Rainfall | No rain | No rain | No rain | No rain | No rain | |
| 8-11-2014 | 000 | 24.6 | 12.3 | Wind (Speed/ Dir) | 2KT(SSW) | 2KT(WSW) | 2KT(SW) | 1KT(SSW) | 1KT(SSW) | |
| 9-11-2014 | 000 | 22.4 | 14.0 | Temperature (Min-Max) | 14 - 23°C | 14 - 23°C | 14 - 22°C | 13 - 22°C | 13 - 22°C | |
| 10-11-2014 | 000 | 23.1 | 14.8 | RH (Min-Max) | 66 - 92% | 66 - 92% | 65 - 90% | 65 - 88% | 63 - 83% | |

| Gangtok | | | | East Sikkim Forecast | | | | | | |
|------------|----------|-----------|-----------|-----------------------|-----------|-----------|-----------|-----------|-----------|--|
| Rainfall | Rainfall | Max. Temp | Min. Temp | Day → Parameter↓ | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | |
| Date | (mm) | (°C) | (°C) | Sky | Generally | Generally | Generally | Partly | Partly | |
| | | | | Condition | Cloudy | Cloudy | Cloudy | Cloudy | Cloudy | |
| 7-11-2014 | 000 | 20.0 | 11.5 | Rainfall | No rain | |
| 8-11-2014 | 000 | 19.8 | 11.6 | Wind (Speed/ Dir) | 1KT(S) | 1KT(SW) | 2KT(SSW) | 2KT(SE) | 1KT(SE) | |
| 9-11-2014 | 000 | 19.3 | 12.5 | Temperature (Min-Max) | 12 - 18°C | 12 - 18°C | 12 - 18°C | 11 - 19°C | 11 - 19°C | |
| 10-11-2014 | 000 | 18.3 | 13.0 | RH (Min-Max) | 68 - 92% | 68 - 92% | 67 - 90% | 60 - 88% | 60 - 88% | |

| Namthang | | | | South Sikkim Forecast | | | | | | |
|------------|----------|-----------|-----------|-----------------------|-----------|-----------|-----------|-----------|-----------|--|
| Rainfall | Rainfall | Max. Temp | Min. Temp | Day → Parameter↓ | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | |
| Date | (mm) | (°C) | (°C) | Sky | Generally | Generally | Partly | Partly | Partly | |
| | | | | Condition | Cloudy | Cloudy | Cloudy | Cloudy | Cloudy | |
| 7-11-2014 | 000 | 23.0 | 12.5 | Rainfall | No rain | |
| 8-11-2014 | 000 | 22.5 | 12.0 | Wind (Speed/ Dir) | 2KT(SSW) | 2KT(WSW) | 1KT(SSW) | 1KT(SSE) | 1KT(SSE) | |
| 9-11-2014 | 000 | 23.0 | 13.5 | Temperature (Min-Max) | 13 - 22°C | 13 - 23°C | 12 - 23°C | 12 - 23°C | 12 - 23°C | |
| 10-11-2014 | 000 | 23.0 | 12.5 | RH (Min-Max) | 60 - 87% | 60 - 87% | 55 - 85% | 55 - 85% | 54 - 80% | |

| Gyalshing (AWS) | | | | West Sikkim Forecast | | | | | | |
|------------------------|----------|-----------|-----------|--------------------------|-----------|-----------|----------|----------|----------|--|
| Data | Rainfall | Max. Temp | Min. Temp | Day → Parameter↓ | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | |
| Date | (mm) | (°C) | (°C) | Sky | Generally | Generally | Partly | Partly | Partly | |
| | | | | Condition | Cloudy | Cloudy | Cloudy | Cloudy | Cloudy | |
| 7-11-2014 | 000 | N/A | N/A | Rainfall | No rain | No rain | No rain | No rain | No rain | |
| 8-11-2014 | 000 | 22.3 | 10.3 | Wind (Speed/ Dir) | 2KT(W) | 2KT(W) | 1KT(SW) | 1KT(SSE) | 1KT(SSE) | |
| 9-11-2014 | 000 | 21.7 | 11.5 | Temperature (Min-Max) | 22/11 | 22/11 | 22/11 | 21/11 | 21/11 | |
| 10-11-2014 | 000 | 20.7 | 11.5 | RH (Min-Max) | 65 - 90% | 65 - 90% | 62 - 88% | 61 - 84% | 58 - 82% | |

Part II

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops

- Conservation 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.
- Sowing and transplanting of *Rabi* vegetable crops like cole crops, pea, leafy vegetables, tomato *etc* and fodder crops (oat/berseem).
- 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 in to the soil for cultivation of all Rabi crops.

| Name of the crop/Animal | Stage | Pest/ Disease | Agro-Met Advisories |
|-------------------------|---|---------------|--|
| Crops | | | |
| Rice | Maturity and Harvesting stage | | Use of birds scaring ribbon for preventing bird's damage. Early threshing of rice crop is recommended after harvest to avoid shattering. Select healthy/ disease free panicles for seed purpose. Store seed in cool and dry place after proper drying. |
| Finger millet | Grain filling | | Use of birds scaring ribbon for preventing bird's damage. |
| Rapeseed and mustard | Sowing after harvest of rice/ Vegetative stage | | Line sowing is recommended @ 6kg/ha. Maintain row to row and plant to plant spacing of 30x10 cm respectively. One irrigation and mulching with locally available bio resources and one is recommended. Seed treatment with <i>Trichoderma viride / T. harzianum</i> @ 4g/kg. FYM application @ 5-10 t/ha and |

| | | | | vermicompost @ 2 t/ha is |
|-------------------|----------------------------|-------------|---|--|
| | | | | recommended. |
| Buckwheat | Sowing/ Flowering | | | Line sowing @ 35 kg/ha maintaining row to row and plant to plant spacing of 30x15 cm respectively to maintain optimum plant population. Light pre sowing irrigation is recommended. |
| Rajmash | Fruiting / harvesting | | * | Harvest at proper maturity stage and store after sun drying. |
| Large cardamom | Harvesting | | | Spray wettable sulphur @ 0.25 % for the management of rust. Application of 500g vermicompost / 2kg well decomposed FYM per clump is recommended. Two irrigations in a month is recommended. |
| Cole crops | Transplanting / Vegetative | Damping off | ♦♦♦ | Transplanting of seedlings should be done immediately. Soil application of <i>Trichoderma viride/ Pseudomonas fluorescens</i> @ 2.5 kg mixed with 50kg well decomposed FYM for 1 ha. Drenching with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1% at 10 days interval for the management of damping off and root rot. Application of Neem cake/ mustard oil cake @ 50kg/1000sqm. Drenching of plant with mixture of water, cow urine and Neem oil 8 ltr., 2 ltr. and 50 ml respectively at weekly interval to avoid red ant and cut worms. Earthing up for early transplanted crop is recommended. |
| Tomato | Transplanting | | * | Watering should be done at the base of the plant. Removal of diseased leaves and branches and weekly spraying of copper oxychloride @ 0.25% for the management of late blight disease. |

| Potato | Planting | | Kufri Jyoti, K. Giriraj, K. Sheeti K. Badshah are recomment varieties. Tubers with two eyes, weighing 50 g are to be planted. Ridge to ridge spacing of 45 cm plant to plant distance of 30 cm h be maintained. FYM @ 10-15 t/ha and Neem 500 kg/ ha is recommended. | y 40- a and as to | | | | |
|------------------------|---------------|---------------|---|---|--|--|--|--|
| Sikkim Mandarin | Harvesting | | Pluck the fruit along with the two avoid injury. Harvesting to be done careful avoid breakage of produbranches. Collect fallen fruits and destroprevent further multiplication of flies. Packing of graded fruits in corrugibre boxes cushioned with dry pastraw to reduce post harvest loss. | ly to active by to fruit | | | | |
| Animal Sciences | | | | | | | | |
| Tibetan Sheep | Sheared sheep | | Dipping the animal / spraying ectoparasitic drug at 3 mor intervals. Provide winter shelter for lambs. | | | | | |
| Yak | Pregnancy | Weight gain | Pregnancy diagnosis recommended. Feeding of concentrate feed a with mineral mixture and salt. Provide winter shelter for calves. | is | | | | |
| Cattle, Sheep and Goat | All stages | | ♦ Chances of coming into estrust farmers are advised to look for sign especially during early more or late evening and ensure bree of the animal after 12 hr of 1st observe. ♦ Feeding of colostrums within 2 of birth. ♦ Feeding of concentrate feed a with mineral mixture and salt. ♦ De-worming with Fenbendazole 10 mg / kg body weight. | heat rning eding heat 2 hrs | | | | |
| | | High humidity | | deep | | | | |

| | | | litter materials. |
|-----|------------|--|--|
| | | | 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. |
| Pig | All stages | | Keep floor dry to avoid skin diseases. |
| | | | De-worming with Fenbendazole @ |
| | | | 10 mg / kg body weight. |
| | | | Dipping the animal / spraying with |
| | | | ectoparasitic drug at 3 monthly |
| | | | interval. |