

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 07 May 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Under the influence of a Western Disturbances, scattered to fairly widespread rainfall/thundershower very likely over Western Himalayan Region and isolated to scattered rainfall/thunderstorms is likely over plains of northwest India during next 3-4 days. Isolated dust storm is also likely over Rajasthan on 07 May, 2021.
- An east-west trough runs from eastern parts of central India to northeast India across east India in lower levels. This east-west trough is very likely to persist during next 3-4 days. The trough in westerlies roughly along longitude 90°E to the north of latitude 18°N in middle & upper tropospheric levels persists.
- Under their influence, fairly widespread to widespread rainfall/thunderstorm activity is very likely over northeastern states and West Bengal & Sikkim; and isolated to scattered rain/thundershower likely over remaining parts of east India during next 3-4 days.
- Isolated heavy rainfall is also likely over Northeast India and Sub Himalayan West Bengal & Sikkim during 7 to 10 May; Gangetic West Bengal on 09 May; isolated very heavy falls also likely over Assam & Meghalaya on 9 & 10 May.
- Under the influence of a cyclonic circulation over north interior Karnataka and a north-south trough over south Peninsula at lower levels, light/moderate scattered to fairly widespread rain/thunderstorms is very likely over Kerala & Mahe, Lakshadweep and Karnataka; and isolated rain/thundershower likely over remaining parts of south Peninsular India during next 4 days.
- No heat wave is likely over any part of the country during next 3-4 days.
- The images showing the latest satellite picture in the figure. 1.

#### **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (from 0830 hrs to 0830 hrs IST of today): at most places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Assam & Meghalaya and Kerala & Mahe; at many places over Madhya Maharashtra, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Arunachal Pradesh and

Chhattisgarh; at a few places over Tamilnadu, Puducherry & Karaikal, West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Odisha, North Interior Karnataka, Coastal Karnataka, Andaman & Nicobar Islands and Lakshadweep and at isolated places over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Rajasthan, Madhya Pradesh, Vidarbha, South Interior Karnataka and Rayalseema.

- Thunderstorm observed (from 1730 hrs IST of yesterday to 0830 hrs IST of today): observed over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh, Madhya Maharashtra, Chhattisgarh, Odisha, Assam & Meghalaya, Jharkhand, Uttar Pradesh, North Interior Karnataka, Gangetic west Bengal, Haryana, Chandigarh & Delhi, Punjab, Uttrakhand, Kerala & Mahe, West Rajasthan and Madhya Pradesh.
- Maximum Temperature Departures as on 06-05-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Gujarat Region, Kerala & Mahe and Lakshadweep; at a few places over Saurashtra & Kutch and at isolated places over West Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (more than -5.1°C) at a few places over West Rajasthan; appreciably below normal (- 3.1°C to -5.0°C) at many places over Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; at a few places over Gangetic West Bengal & Chhattisgarh; below normal (-1.6°C to -3.0°C) most places over Bihar, Himachal Pradesh and South Interior Karnataka; at many places over Andaman & Nicobar Islands and Uttar Pradesh; at a few places over Coastal Andhra Pradesh & Yanam and Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Jhansi (West Uttar Pradesh) and Akola (Vidarbha).
- Minimum Temperature Departures as on 07-05-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Gujarat Region; at many places over Andaman & Nicobar Islands, at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad,, Himachal Pradesh and Odisha; at isolated places over East Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over Punjab, at a few places over East Uttar Pradesh; at isolated places over East Rajasthan and Telangana; below normal (-1.6°C to -3.0°C) at most places over Jharkhand; at many places over Gangetic west

Bengal and Chhattisgarh; at a few places over West Rajasthan, West Madhya Pradesh and Assam & Meghalaya and at isolated places over West Uttar Pradesh, Vidarbha Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.4°C is reported at Narnaul (Haryana) over the plains of the country.

**Weather Warning during the next 5 days (IMD)**

- 07 May (Day 1): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand; thunderstorm with lightning & hail at isolated places over Madhya Maharashtra and Marathwada; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand and Gangetic West Bengal; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Konkan & Goa, Telangana, Lakshadweep and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Kerala.
- 08 May (Day 2): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jharkhand; with (speed reaching 40-50 kmph) at isolated places over Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Telangana and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Lakshadweep. Heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal.
- 09 May (Day 3): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Odisha, with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jharkhand, Kerala & Mahe, Telangana and Gangetic West Bengal and with lightning at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh,

Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Gujarat State, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.

- 10 May (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 50-60 kmph) likely at isolated places over Gangetic West Bengal; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand and Kerala & Mahe and with lightning at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Bihar, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalseema, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya and heavy rainfall likely at isolated places over Coastal Karnataka, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- 11 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Gangetic West Bengal; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalseema, Telangana, Tamilnadu, Puducherry & Karaikal, Karnataka and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Assam & Meghalaya ,Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka
- The weather outlook for seven days i.e., 07 May to 15 May 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

### **Agricultural activities (AICRPAM-CRIDA)**

## Konkan region

### Weather condition:

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 6.5 to 10.1 Bright sunshine hours was recorded during last week. During last week 0.0 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 33.0 to 35.2 and 16.6 to 22.8 oC respectively. Wind velocity ranged from 4.2 to 5.3 km and wind was blowing from south westerly Direction.

### Contingency measure:

- General advisory: There is possibility of wild fire due to increase in heat during summer months, it is advise to provide irrigation immediately to mango and cashewnut orchards affected by wild fire till initiation of new vegetative flush. Detop tall trees (25 to 30ft) upto half the height, otherwise detop upto 8 feet to reduce the load of branches. apply bavistin 5 gm by mixing with 1 liter of coltar to the cut portion of branches. Spray all affected mango and cashewnut tree with Chlorpyrifos 20%EC @ 20ml per 10 liter of water to protect from stem borer. Apply white wash by preparing solution of 1 kg lime + 150 gms copper sulphate to protect tree from sunrays.
- SMS: Due to forecast of thunderstorm along with lighting and rain at isolated places over district from 7th to 9th May, 2021, keep farm animals at safe place and away from open water, pond or river. Also harvest and stored the matured pulse crop at protective and safe place.
- Mango: There is forecast for very light rainfall from 5th to 9th May 2021, harvest the matured mango fruits at 80 to 85% maturity in the morning or evening hours during clear weather (no rainfall) and keep the harvested fruits in shade to prevent spongy tissue disease and from heat. To prevent incidence of post-harvest diseases fruit rot on fruits, place the fruits in hot water of 52oC for 10 minutes and then keep for ripening. Use C.F.B. (corrugated fiber box) for packing. Transport of harvested fruits should be done preferably during night hours. There is possibility for incidence of fruit fly on mango fruits. Collect and destroy all fallen fruits and install ?Rakshak fruit fly trap? developed by University @ 2 traps per acre. To protect the Mango tree from increasing temperature, apply bordopaste to the base of stem
- Kharif rice: Start the land preparation operation for kharif season and expose soil to sun which will help in controlling weeds effectively. Procure the rice seed as per requirement for kharif season. Early rice varieties Ratnagiri-1, Karjat-3 for bold seeded, Ratnagiri-5, Ratnagiri-24, Phondaghat-1, Karjat-7, hybrid Sahyadri-2

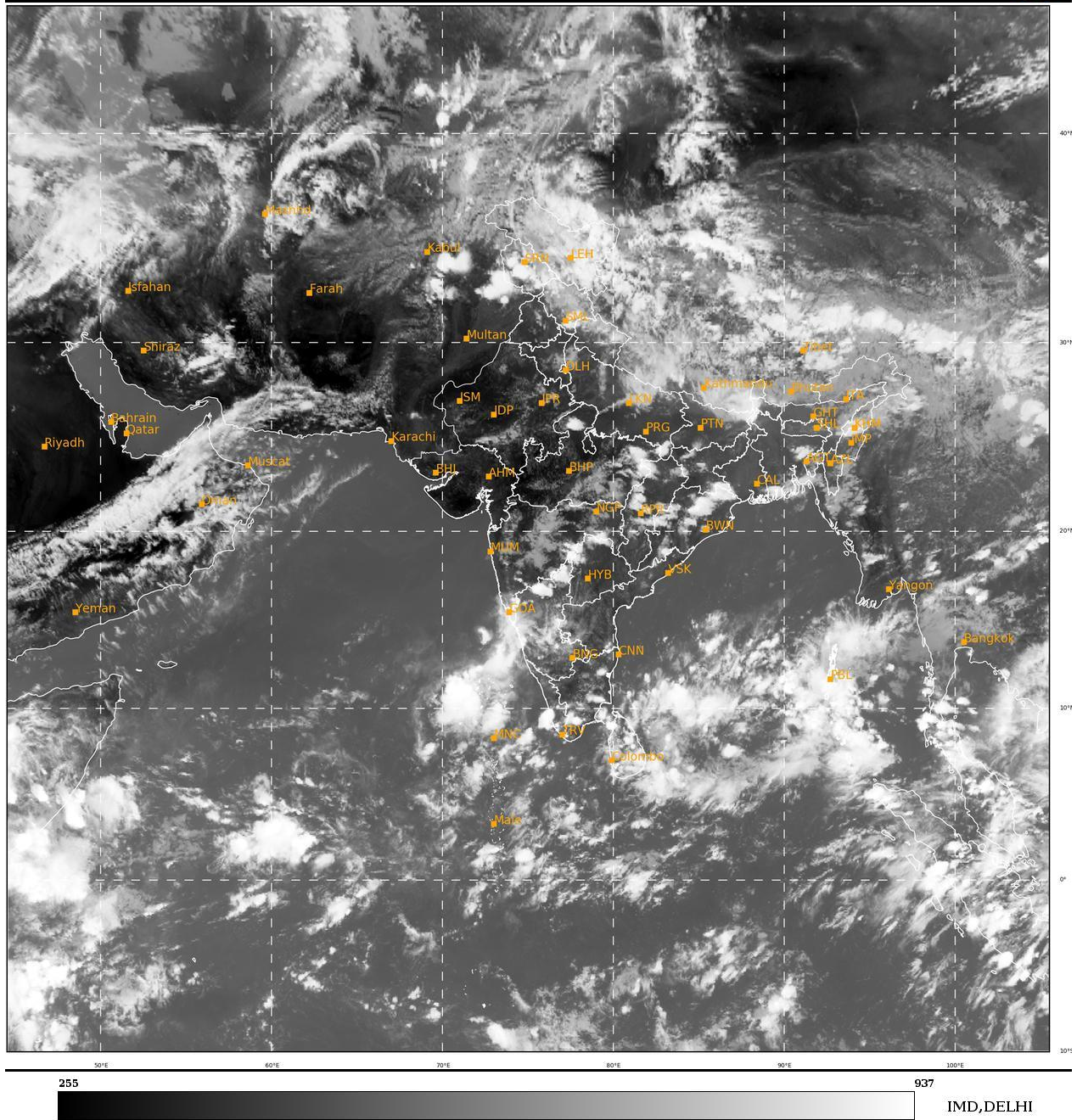
and Sahyadri-4 for fine seeded and Karjat-4 is for very fine seeded, mid-late rice varieties Ratnagiri-7, Karjat -5 for bold seeded, Ratnagiri-4, Ratnagiri-6, Palghar-1, Palghar-2, Karjat-6, Karjat-9, hybrid Sahyadri, Sahyadri-3 for fine seeded and late rice varieties Ratnagiri-2, Ratnagiri-3 for bold seeded, Karjat-2, Karjat-8, Karjat-10, hybrid Sahyadri-5 for fine seeded, and Panvel-1, Panvel-2 and Panvel-3 for Kharlands categories are recommended by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli for cultivation in Konkan region during Kharif.

- Groundnut:Groundnut crop shows maturity sign like 70-80% of the pods develop blackish streak inside the shell and the kernels are plump with original seed colour develop on the kernel, Uproot the plant when there is enough moisture in the soil during morning hours. As there is forecast for very light rain, strip off the pods from the plant and keep for drying in protective place.
- Turmeric:For cultivation of turmeric, carryout ploughing operation and incorporate 250-400 kg/guntha FYM or compost at the time of ploughing. For management of Rhizome fly, place small earthen pot or plastic bottle with moist spoiled dry fish at 4 to 5 places in the field 10 to 15 days before sowing, the female of the rhizome fly is attracted to this bait and lays eggs there. Destroy this dry fish bait after 4 to 5 days by burning.
- Vegetable crops:If irrigation facility is available then go for sowing nursery of brinjal, chilli and tomato vegetables crops for kharif season. Prepare raised bed of 3 m length x 1 m breadth x 15 cm height.Use wilt resistance varieties and follow crop rotation with other than solanaceous crop for management of wilt disease

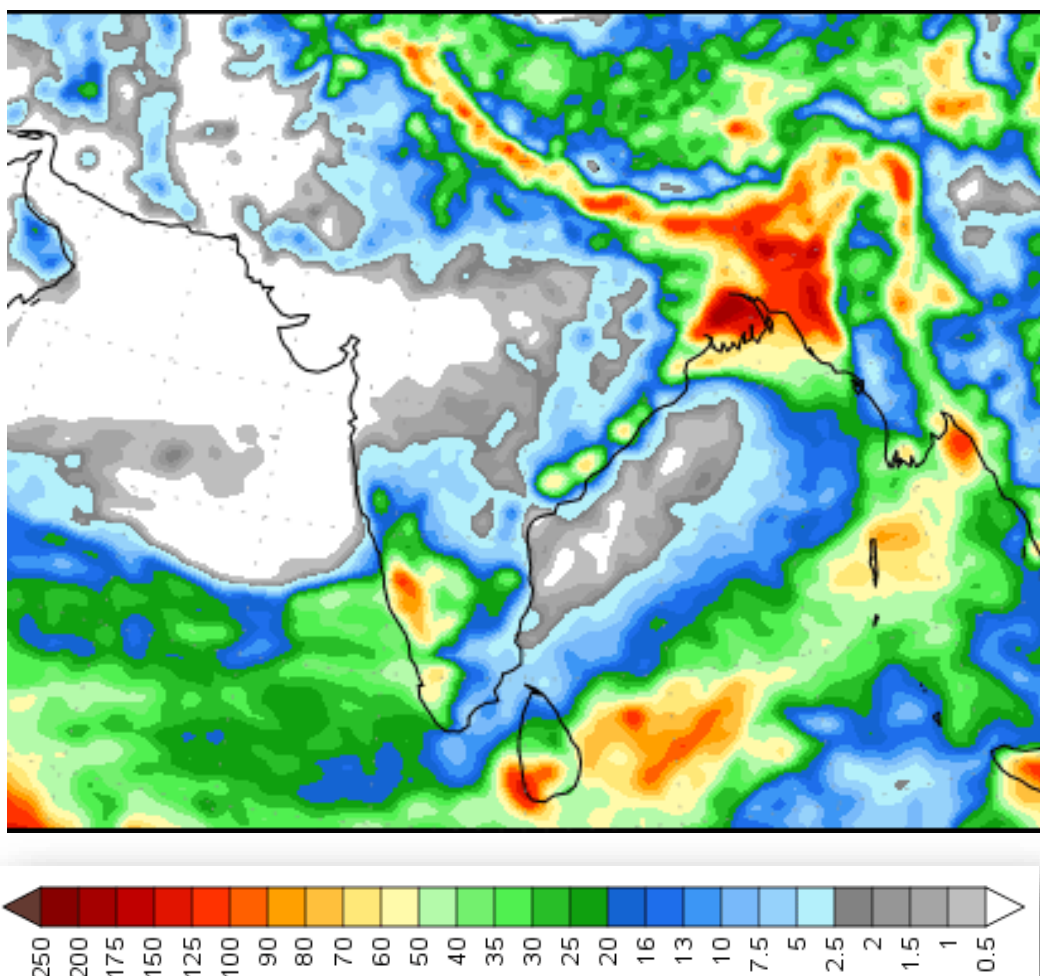


SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

07-05-2021/(0830 to 0856) GMT  
07-05-2021/(1400 to 1426) IST



**Figure: 1. Latest available satellite picture as on 07 May 2021 at 1426 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 07 May to 15 May 2021 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*