



**National Agromet Advisory Service Bulletin**  
**Based on**  
**Extended Range Weather Forecast (ERFS)**

**Validity: 10 to 23 August 2018**

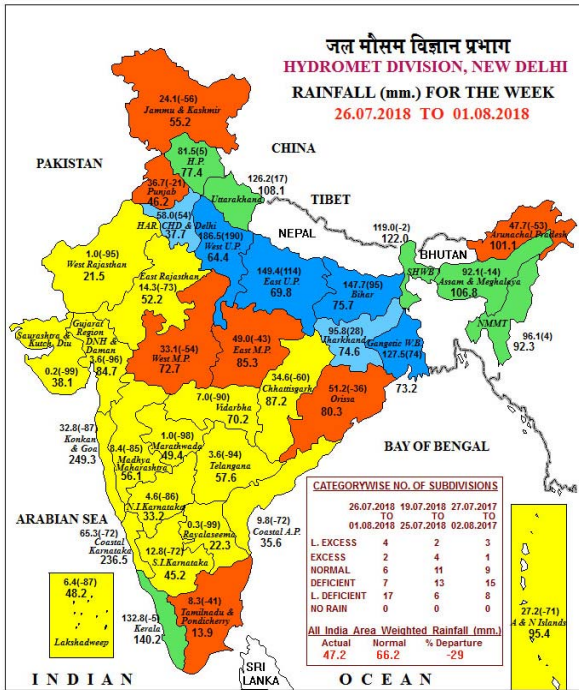
**Date of issue: 10 August 2018**

**Issued by**  
**Indian Council of Agricultural Research (ICAR)**  
**All India Coordinated Research Project on Agricultural Meteorology (AICRPAM),**  
**Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad.**  
**&**  
**Earth System Science Organization**  
**India Meteorological Department**

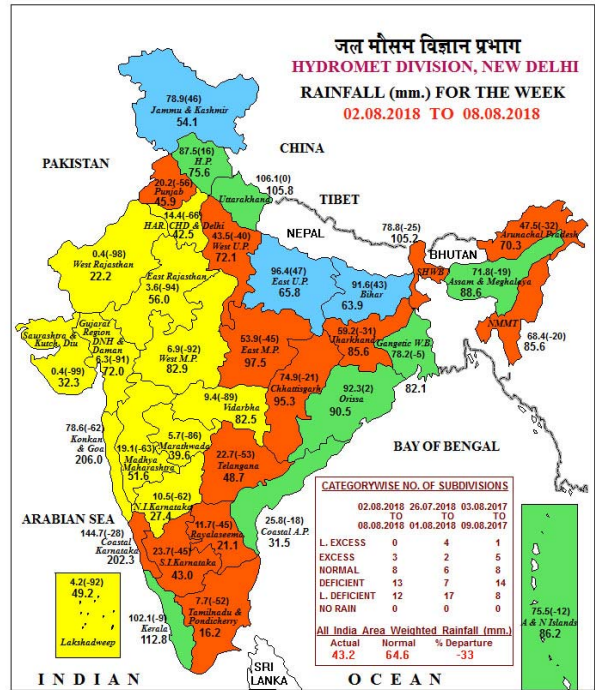
**Realized Rainfall and Extended Range Forecast  
(Rainfall and Temperatures)**

**Realized Rainfall  
(26<sup>th</sup> July to 8<sup>th</sup> August 2018)**

**भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT**



**भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT**



**LEGEND:** L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)  
DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) NO RAIN (-100%) NO DATA

**NOTES:**  
(a) Rainfall figures are based on operational data.  
(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
Percentage Departures of Rainfall are shown in Brackets.

- Normal or above normal rainfall was received during last two weeks in Uttarakhand, Himachal Pradesh, East Uttar Pradesh, Bihar, Gangetic West Bengal, Assam & Meghalaya and Kerala.
- Normal or above normal rainfall occurred in either of the last two weeks in Jammu & Kashmir, Haryana Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, and Andaman & Nicobar Islands.
- Below normal rainfall occurred in both the weeks in Punjab, Rajasthan, Arunachal Pradesh, Gujarat, Madhya Pradesh, Chhattisgarh, Maharashtra & Goa, Karnataka, Telangana, Rayalaseema, Tamil Nadu and Lakshadweep.

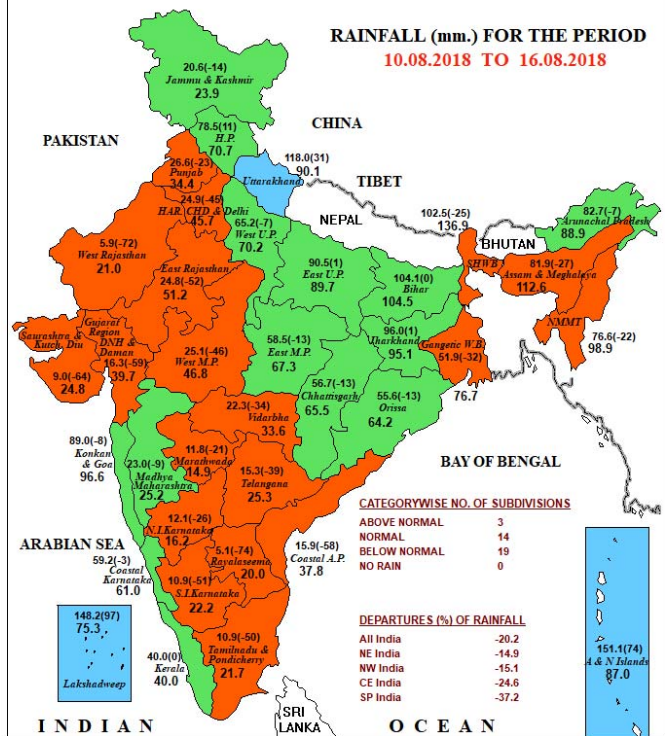
# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 08 August)

(10<sup>th</sup> to 23<sup>rd</sup> August 2018)

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

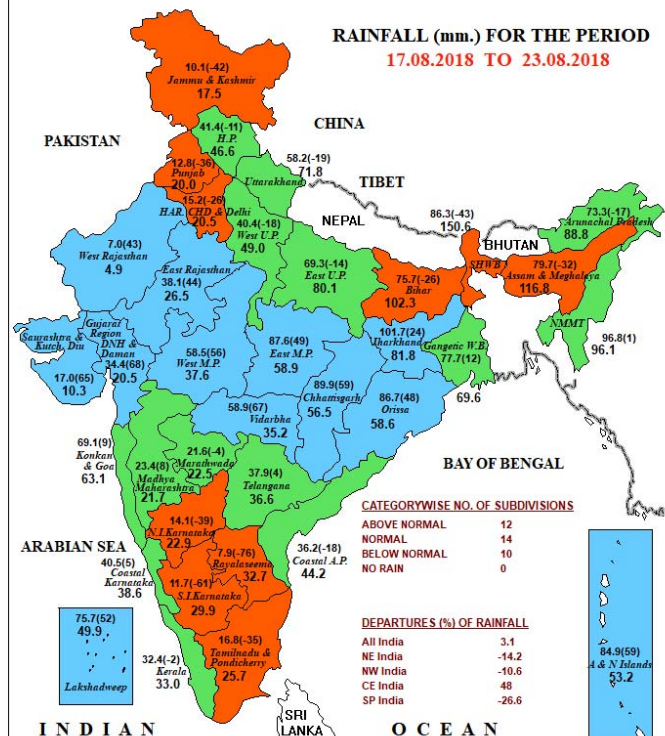


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

NOTES:  
 (a) Rainfall figures are based on MME Forecast data.  
 (b) Small figures indicate actual rainfall [mm.], while bold figures indicate Normal rainfall [mm.]  
 Percentage Departures of Rainfall are shown in Brackets.

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories



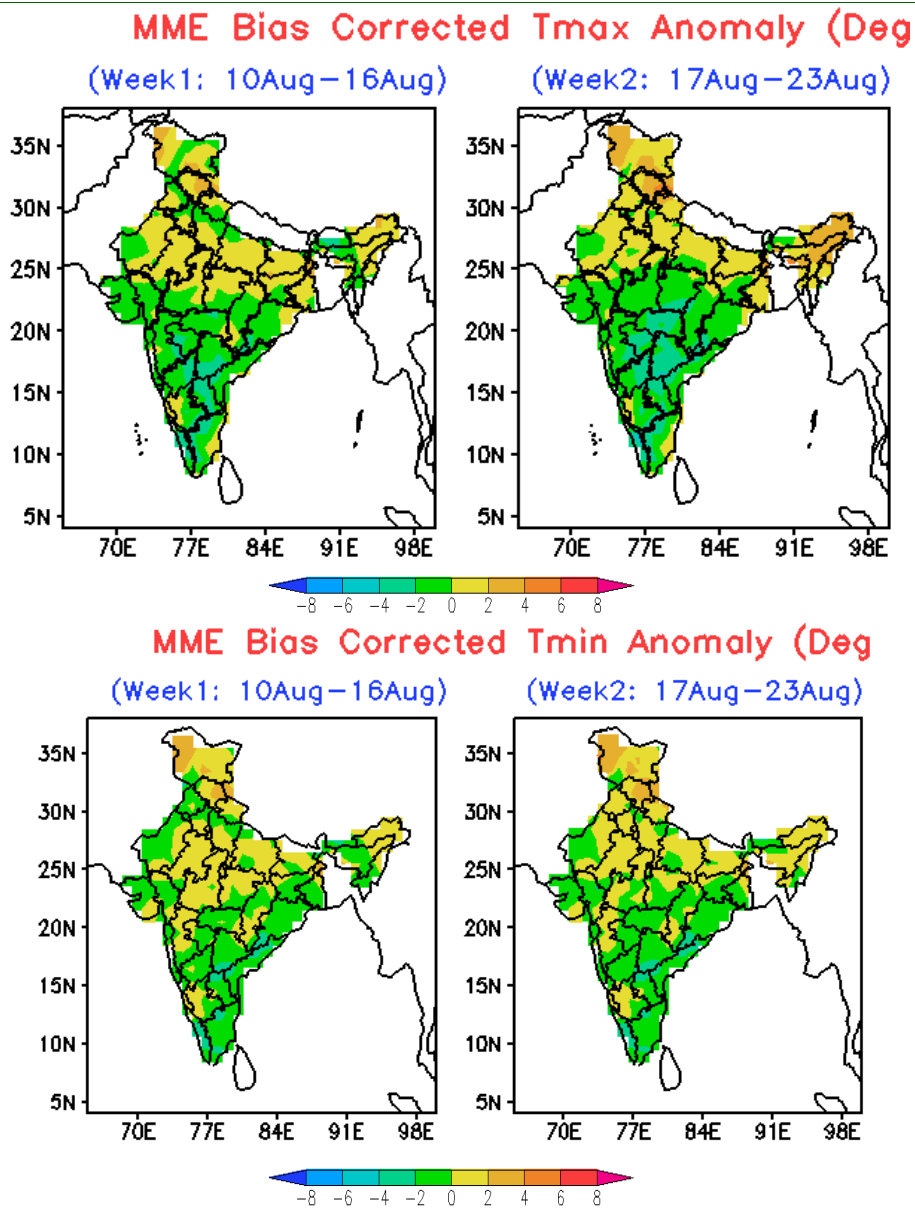
LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

NOTES:  
 (a) Rainfall figures are based on MME Forecast data.  
 (b) Small figures indicate actual rainfall [mm.], while bold figures indicate Normal rainfall [mm.]  
 Percentage Departures of Rainfall are shown in Brackets.

## Extended Range Rainfall Forecast

- **Week 1 (10.08.2018 to 16.08.2018):** Monsoon rainfall is expected to spread over parts of north India (Himachal Pradesh, Uttarakhand, West Uttar Pradesh) and adjoining east Uttar Pradesh, Bihar, Jharkhand and parts of southwestern coastal region of India during the week. Over most of the central parts of India it is expected to be below normal. Country as a whole, it is expected to be below normal.
- **Week 2 (17.08.2018 to 23.08.2018):** Most parts of central India may receive rainfall in this week. Northeast, extreme north and south peninsula regions expected to get below normal rainfall.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast for next 2 weeks (IC – 08 August)  
(10<sup>th</sup> to 23<sup>rd</sup> August 2018)**



**Tmax (Maximum Temperature)**

- **Week 1 (10.08.2018 to 16.08.2018) and Week 2 (17.08.2018 to 23.08.2018):** Tmax is likely to be normal to below normal except parts of northern India where it is likely to be above normal.

**Tmin (Minimum Temperature)**

- **Week 1 (10.08.2018 to 16.08.2018) and Week 2 (17.08.2018 to 23.08.2018):** Tmin is likely to be normal to below normal except parts of northern India where it is expected to be normal.



## **Strategic Agricultural Planning based on rainfall during next two weeks till 23<sup>rd</sup> August 2018**

### **Agromet Advisories**

#### **Tamil Nadu**

Rainfall received during the period of 01 June to 09 August 2018 over Tamil Nadu is 121.1 mm, which is 8% deficit as compared to the normal. The extended range weather forecast provided for next two weeks (10 to 16 and 17 to 23 August) are below normal for both the weeks.

- Prevailing weather condition is favourable for sucking pest incidence in chilli. The affected plants shows symptom of crinkling, upward curling of leaves and elongation of petiole. Spray Imidacloprid 17.8 % SL @ 3 ml/ 10 litre of water or Dimethoate 30 % EC @ 1.0 ml/litre to control it.
- Farmers are advised to do propping in Banana. Prevailing weather condition is favorable for panama wilt disease incidence, to avoid the damage from high winds, drench the banana with Carbendazim @ 2g/litre of water to control it.
- Prevailing high to moderate cloud cover with moderate humidity, may favour the incidence of boll worm in cotton. For controlling this pest, spray Chlorpyrifos 20% EC 1250 ml/ha.

#### **Kerala**

Rainfall received during the period of 01 June to 09 August 2018 over Kerala is 1738.1 mm, which is 15% excess than normal. The extended range weather forecast provided for next two weeks (10 to 16 and 17 to 23 August) are normal for both the weeks.

- Due to continuous rain, there is a chance of bud rot disease in coconut palm. Small perforated sachets containing 2 g of mancozeb may be tied to the top crown portion and leaf axils.
- Favorable weather may cause soft rot disease in Ginger. Remove weeds and apply urea @ 33 Kg per acre. To control soft rot, drench the soil with 1% Bordeaux mixture/0.3% mancozeb.
- Due to continuous rain and water stagnation, there is a chance of Damping off in vegetables. Drench the soil with 1.5 g copper hydroxide or 2.5 g copper oxychloride per one litre of water to control damping off.

#### **Karnataka**

Rainfall received during the period of 01 June to 09 August 2018 over different meteorological sub-divisions of Karnataka viz, North Interior Karnataka is 207.6 mm (24 % deficit), South Interior Karnataka is 403.6 mm (1% deficit) and Coastal Karnataka is 2196.8 mm (3% deficit). The extended range weather forecast provided from 10 to 16 and 17 to 23 August over North Interior and South Interior Karnataka is below normal for both the weeks and is normal over Coastal Karnataka for both the weeks.

#### **North Interior Karnataka**

- Fallow land should be ploughed across the slope to conserve the soil moisture for rabi crops.
- Vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and Haemorrhagic Septicaemia.
- Vaccinate (ET vaccine) sheep and goats against Enterotoxemia.

### **South Interior Karnataka**

- Wherever, the long duration crops like Redgram, and Castor has been sown, undertake earthing up operation for better availability of soil moisture to the crops.
- If Wilt disease in redgram field is observed, drench the soil with Carbendazim 50 WP 2 g/litre of water.
- To control stem borer in Maize, farmers are advised to spray Quinolphos-25 EC @ 2ml/litre of water.

### **Maharashtra**

Rainfall received during 01 June to 09 August 2018 over different meteorological sub divisions of the state viz., Konkan: 2302.9 mm (12% excess), Madhya Maharashtra: 449.3 mm (1% excess), Vidarbha: 543.5 mm (5% deficit) and Marathwada: 307.4 mm (18 % deficit). The extended range weather forecast provided for next two weeks (10 to 16 and 17 to 23 August) are normal over Madhya Maharashtra and Konkan region, Marathwada is below normal for week-1 and normal for week-2 and Vidarbha region is below normal for week-1 and above normal for week-2.

### **Marathwada**

- Spray Potassium Nitrate @ 200 gm per 10 litre of water in soybean crop at 30 DAS. To control incidence of girdle beetle and leaf eating caterpillar in soybean crop, spray of Triazophos 40 % @ 13 ml or Chlorantraniliprole 18.5 % @ 4 ml per 10 litre of water.
- Collect and destroy leaf roller infected plant parts in pigeonpea crop and spray 5 % Neem cake extract to control it.
- To control pink bollworm in cotton crop, spray Profenofos 50 % @ 20 ml or Profenofos 40 % + Cypermethrin 4% @ 20 ml per 10 litre of water.

### **Madhya Maharashtra**

- Carry out frequent hoeing operation in Pigeonpea, Bajra and Sunflower crops.
- Cloudy weather is congenial for the incidence of leaf eating caterpillar on kharif crops, vegetables and fruit crops which can be checked by spraying of chloropyriphos/ quinolphos/ trizophos @ 15-20 ml + 10 ml water + 5 ml sticker.

### **Vidarbha**

- To monitor incidence of pink boll worm in cotton, install 4 to 5 pheromone traps/ha and destroy the trapped male moth.
- Undertake intercultural operations (weeding/hoeing) for timely control of weeds in soybean, pigeonpea and blackgram.

### **Chhattisgarh**

Rainfall of 619 mm received over Chhattisgarh during 01 June to 09 August 2018 which is 8% deficit as compared to normal . The extended range weather forecast provided for next two weeks (10 to 16 and 17 to 23 August) are normal for week-1 and above normal for week-2.

- In low rainfall area, there is possibility of infestation of cut worm in rice. If cut worm is observed in the field, spray Dichlorvas @ 1 ml / litre of water using 200 litre water per acre.
- If leaf eating caterpillar is observed in soybean crop, farmers are advised to apply Trizofas @ 2 ml/ acre or Flubendiamide @ 0.5 ml/litre of water using 200 litre water per acre.
- Nursery vegetables may affected by damping off, spray the Metalaxyl @ 1.5 g/ litre of water on affected plant parts.

### **West Bengal**

Rainfall of 617.0 mm received over Gangetic West Bengal during 01 June to 09 August 2018 which is 8% deficit as compared to normal . The extended range weather forecast provided for next two weeks (10 to 16 and 17 to 23 August) are below normal for week-1 and normal for week-2.

- Complete the harvesting operations in Jute. After shedding the leaves, it is advised to ret the jute in clean and slow moving water in order to obtain good quality fibre.
- Transplanting may be continued in Aman rice with assured irrigation as no heavy rainfall is forecasted in next few days.
- The present weather conditions are favorable for occurrence of thrips and mite in chillies. To control, spray dipheniuran @ 1.25 gm/litre of water is recommended.

### **Bihar**

Rainfall of 496.6 mm received over Bihar during 01 June to 09 August 2018 which is 15% deficit as compared to normal . The extended range weather forecast provided for next two weeks (10 to 16 and 17 to 23 August) are normal for week-1 and below normal for week-2.

- Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery.
- Drain out the excess water from the field as water logged condition arised due to heavy rainfall.

### **Rajasthan**

Amount of rainfall received over West Rajasthan is 142.2 mm (10% deficit) and East Rajasthan is 339.6mm (3% deficit) during 01 June to 09 August 2018. The extended range weather forecast provided for two weeks (10 to 16 and 17 to 23 August) for West and East Rajasthan is below normal for week-1 and above normal for week-2.

- Earthing up should be avoided in groundnut where the crop is at pegging stage.
- In soybean, weed management should be done where the crop is at 15-20 days by manual weeding or applying herbicides. The recommended post emergence herbicide for the control of weed in soybean are Imazethapyr @ 100g/ha or Quizalofop ethyl @ 50g/ha.
- If sucking pests insect population is above ETL in Soybean, spray Imidacloprid 17.8 % SC @ 1.0 ml / 3 litre of water is recommended against white flies (sucking pests).

### **Assam**

Rainfall received over Assam is 791.4 mm rainfall (32% deficit) during 01 June to 09 August 2018. The extended range weather forecast provided for 10 to 16 and 17 to 23 August is below normal for both the weeks.

- Farmers are advised to complete the transplanting of late sali rice variety seedlings such as Manohar Sali, Biraj, Andrewasali in the main field.
- Sowing of early varieties of Cauliflower like Early Kunwari, Pusa Katki and Pusa Deepali can be started in nurseries under poly house condition.
- Due to favourable weather Sigatoka leaf spot and Panama wilt disease may be observed in banana crop. To control Sigatoka disease, spraying of Mancozeb + Carbendazim @ 2g/litre of water at first appearance followed by 4 sprays at 30 days interval may be advocated in fair weather condition.

### **Punjab**

Rainfall received over Punjab is 262.3 mm rainfall (8% deficit) during 01 June to 09 August 2018. The extended range weather forecast provided for 10 to 16 August and 17 to 23 August is below normal for both the weeks.

- Apply irrigation to paddy/basmati crop, two days after the ponded water has infiltrated into the soil. Care should be taken that the field does not develop cracks. Apply third dose (1/3) of fertilizer 42 days after transplanting.
- To control Jassid in cotton, spray Osheen 20 SG @ 60 g or Thomson 25 WG @ 40 g or Imidacel 17.8 SL @ 40 ml per acre.
- To check the attack of maize borer, farmers are advised to spray Coragen 18.5 SC @ 40 ml in 60-80 litres of water per acre against the maize borer, when attack is noticed.

### **Haryana**

Haryana has received 229.5 mm of rainfall during 01 June to 09 August 2018, which is 12% deficit. The extended range weather forecast provided for next two weeks (10 to 16 August and 17 to 23 August) is below normal for both the weeks.

- Farmers are advised to take up intercultural operation to conserve soil moisture in Bajra/Guar.
- Farmers are advised to keep the animals under well ventilated place and provide clean drinking water and green forage as per requirement. Provide the 50 grams iodized salt and 50 to 100 grams mineral mixture daily with feed & green fodder to keep them healthy.



## **Jammu**

Rainfall received during 01 June to 09 August 2018 over Jammu is 338.1 mm, which is 6% excess. The extended range weather forecast provided for next two weeks (10 to 16 and 17 to 23 August) over Jammu is above normal for week-1 and below normal for week-2.

- Farmers are advised to go for intercultural operations in maize, pulses, bajra & kharif oilseed crops in order to conserve moisture in the soil.
- Protect the vegetable crops viz. Ladyfinger (Okra), Brinjal & Chilies from water logging. Keep the field weed free.

***Disclaimer:** The predictability of weather depends on many factors which are dynamic in nature. 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 to 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.*