

## Crop Water Requirement (CWR) FAQ

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### **Q. 1. What is Crop Water Requirement (CWR)?**

Crop Water Requirement (CWR) is the amount of water needed by the various crops to grow optimally. CWR is defined as amount of water required to meet the need of evaporation and transpiration by the crop throughout its life, called Crop Evapotranspiration (ET<sub>c</sub>). Generally, it is expressed in terms of depth of water (millimeter/centimeter/inch).

### **Q.2. What are the factors affecting Crop Water Requirement?**

- Sunshine
- Temperature
- Wind speed
- Humidity
- Soil type
- Canopy Cover

### **Q. 3. What is the application of CWR?**

Appropriate estimation of CWR facilitates

- better planning of Water Resources Projects,
- hydrologic water balance studies,
- water assessment,
- proper design of Irrigation System,
- eliminates over-irrigation hence better water use efficiency and conservation of irrigation water, as a result more water availability for industry and other sector.

### **Q. 4. What are the Institutions dealing CWR?**

- Indian Institute of Water Management, Bhubaneswar
- Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad
- Indian Agricultural Research Institute (IARI), New Delhi
- Indian Council of Agricultural Research (ICAR)- various Centers
- Water and Land Management Institute (WALMI) - various Centers
- Irrigation Management Training Institute (IMTI) - various Centers

### **Q. 5. What are the IT Tools available for CWR Estimation?**

- CROPWAT
- CLIMWAT
- ISAREG
- GISAREG

