

Development of growth-stage-specific crop co-efficient for different crops of Parbhani district

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■ **ABSTRACT** : A study was carried out to develop crop wise crop co-efficient (K_c) of different crops for Parbhani district of Maharashtra state. The development of regionally based and growth-stage-specific crop co-efficients (K_c) helps in irrigation management and provides precise water applications for this region. Crop wise crop co-efficient of each of the crop was determined by using 32 years climatic data. The crop co-efficients were determined by following the detail procedure given in FAO 56. The result shows that amongst the various crops grown in the study area some of the values corresponded and some did not correspond to those from FAO-56. Hence, there is strongest need of development of crop wise crop co-efficient of different crops in order to determine crop water requirement.

■ **KEY WORDS** : Crop water requirement, Climatic data, Crop co-efficients

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