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Weekly water balance of pomegranate in Parbhani district

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SUMMARY : Water balance study is carried out to determine the weekly evapotranspiration, irrigation required and available useful rainfall. Daily rainfall data was collected from Metrological Department, Vasantrya Naik Marathwada Krishi Vidyapeeth, Parbhani. Daily rainfall were converted to weekly rainfall. Daily reference crop evapotranspiration values were estimated by Penman-Monteith method with help of DSS_ET software. The weekly water requirement and weekly effective rainfall gives an idea about irrigation required. The Pomegranate evapotranspiration in *Ambia* bahar is more as compare to *Mrig* and *Hast* bahar. It observe that supplemental irrigation required in *Mrig* bahar is highest followed by *Hast* and *Ambia* bahar. Rainfall contribution to the Pomegranate evapotranspiration is maximum for *Ambia* Bahar than *Mrig* and *Hast* bahar. number of water deficit weeks maximum in *Mrig* bahar followed by *Ambia* and *Hast* bahar.

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Key Words :

Water balance,
Pomegranate,
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