

Effect of irrigation schedule and lateral spacing on yield and production efficiency of tomato

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ABSTRACT : The marketable yield of tomato under different irrigation levels ranged from 30.85 t/ha to 59.85 t/ha. This increased significantly with an increase in irrigation levels up to 150% of Pan evaporation replenishment (PER) which was 59.85 t/ha. There was further decreased at 200% PER (58.33 t/ha). The irrigation levels significantly influenced the production efficiency of tomato. The production efficiency also decreases significantly with an increase in irrigation levels from 0.5 EP to 2.0 EP. Irrigation at 50% of PER resulted in maximum IPE (13.53 kg/cm) which was minimum (6.39 kg/cm³) at 200% PER.

Key Words: PER, IPE, Lateral spacing, Economic return marketable yield.