Section 7 of 22 (7g – Furrow Irrigation Water Management)

**Transpiration**

Consumptive Use: 0.05 - 0.3”/day

**Evaporation**

**Irrigation Water**

Gpm or cfs & Ac.-in. applied

**Stratified Soils?**

- **Wetting front**
  - 40% H2O extraction
  - 30% H2O extraction
  - 20% H2O extraction
  - 10% H2O extraction

**Leaching Requirement**

Field Capacity is reached within 24 - 48 hr. for most soils

**To maintain salt balance**

Irrigate when 40-50% of the “Available Water” is depleted in the 0-12” root zone.

Only about 15-30% of the “Available Water” is depleted in the 12-24” root zone.

The water content below the root zone is at “Field Capacity” for many flood irrigated soils

**Important Considerations:**
- Solar radiation
- Wind
- Humidity
- Air Temperature
- Precipitation
- Root zone depth
- Canopy Development
- Surface Wetness
- Water holding capacity
- Soil Water Content
- Crop variety
- Soil drainage
- Irrigation efficiency
- Water quality (ECiw & SAR)

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