Surface water availability

**EQ1:** Irrigation demand (farmer specific)
- Field capacity
- Soil moisture
- Infiltration capacity

Has irrigation equipment?
- Yes → Surface water availability → **EQ 2:** Surface water extraction → Leftover irrigation demand
- Yes → Reservoir water availability → **EQ 3:** Reservoir water extraction → Leftover irrigation demand
- Yes → Groundwater availability → **EQ 4:** Groundwater extraction → Leftover irrigation demand

Apply irrigation to farmer HRU

Has irrigation equipment?
- Yes → Surface water availability
- Yes → Reservoir water availability
- Yes → Groundwater availability

Has groundwater well?
- Yes