1. Farms update water availability expectations
2. Farms determine crop choice
3. Irrigation water demand is updated

Farmer Cropping Sub-model

Water Availability Sub-model

Water demand [50k farms]
Crop areas [10 crop types, 50k farms]
Storage volumes [2k reservoirs]

4. Surface water routed through river network
5. Supply allocated to demands
6. Water storage volumes updated

New year? Yes
No, next day

Runoff (VIC)

River flows, Storage volumes

Crop prices & costs
Crop Irrigation Requirement

Model Processes

Exogenous Inputs

Model Outputs