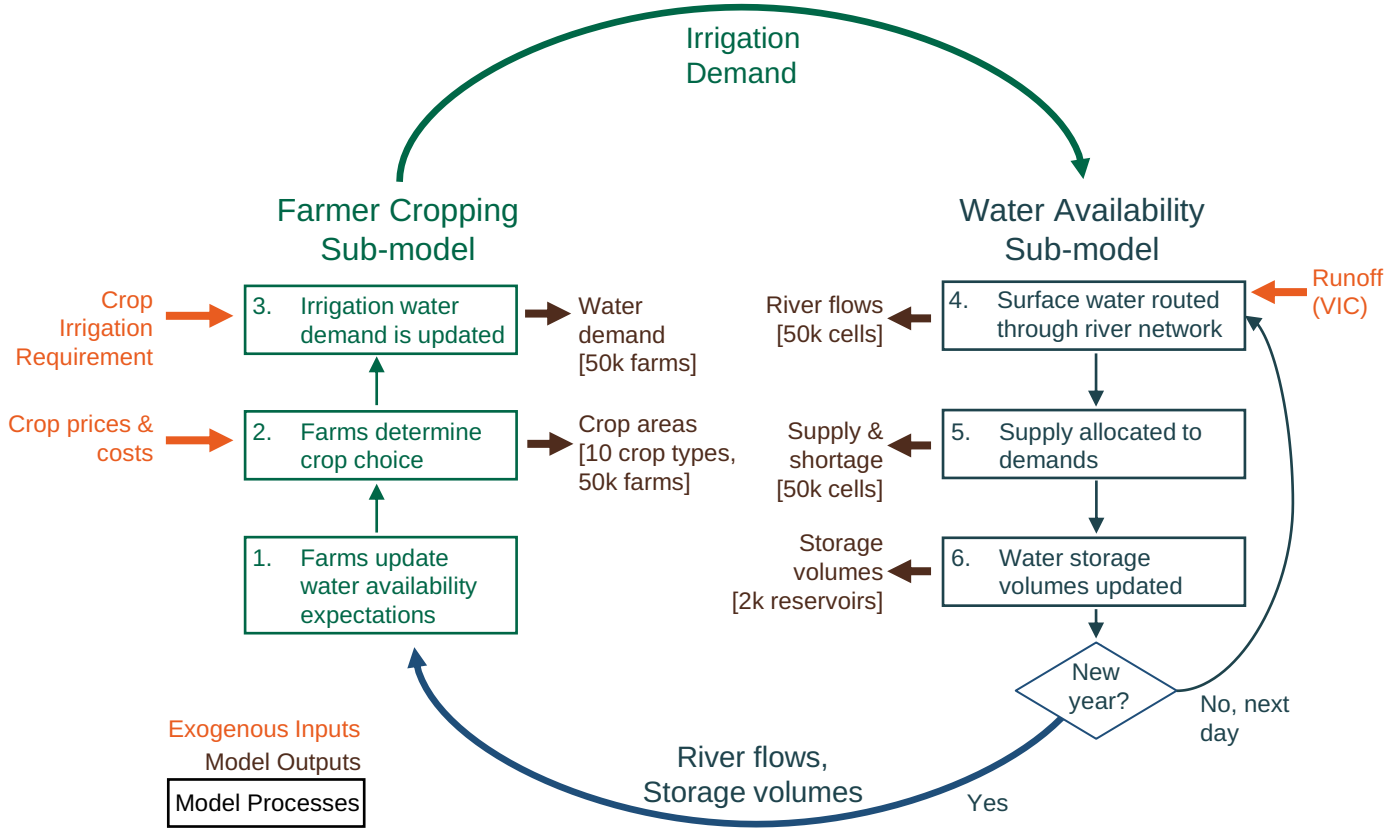
Irrigation Demand
Farmer Cropping Sub-model
Water Availability Sub-model
Crop Irrigation Requirement
3. Irrigation water demand is updated
Water demand [50k farms]
Crop prices & costs
2. Farms determine crop choice
Crop areas [10 crop types, 50k farms]
1. Farms update water availability expectations
River flows [50k cells]
4. Surface water routed through river network
Runoff (VIC)
Supply & shortage [50k cells]
5. Supply allocated to demands
Storage volumes [2k reservoirs]
6. Water storage volumes updated
New year?
No, next day
Yes
River flows, Storage volumes
Exogenous Inputs
Model Outputs
Model Processes