

Groundwater budget =  $R1 + R2 - D1 - D2 - D3 - D4 - D5$

R1 = Recharge from precipitation

R2 = Recharge from runoff, losing reaches of streams, and unconsumed surface-water and groundwater irrigation

D1 = Discharge to gaining reaches of streams

D2 = Discharge to springs

D3 = Discharge to well withdrawals

D4 = Discharge to evapotranspiration

D5 = Discharge to subsurface outflow to Colorado River

**EXPLANATION**  
 ← Recharge  
 ← Discharge  
 ← Direction of groundwater flow

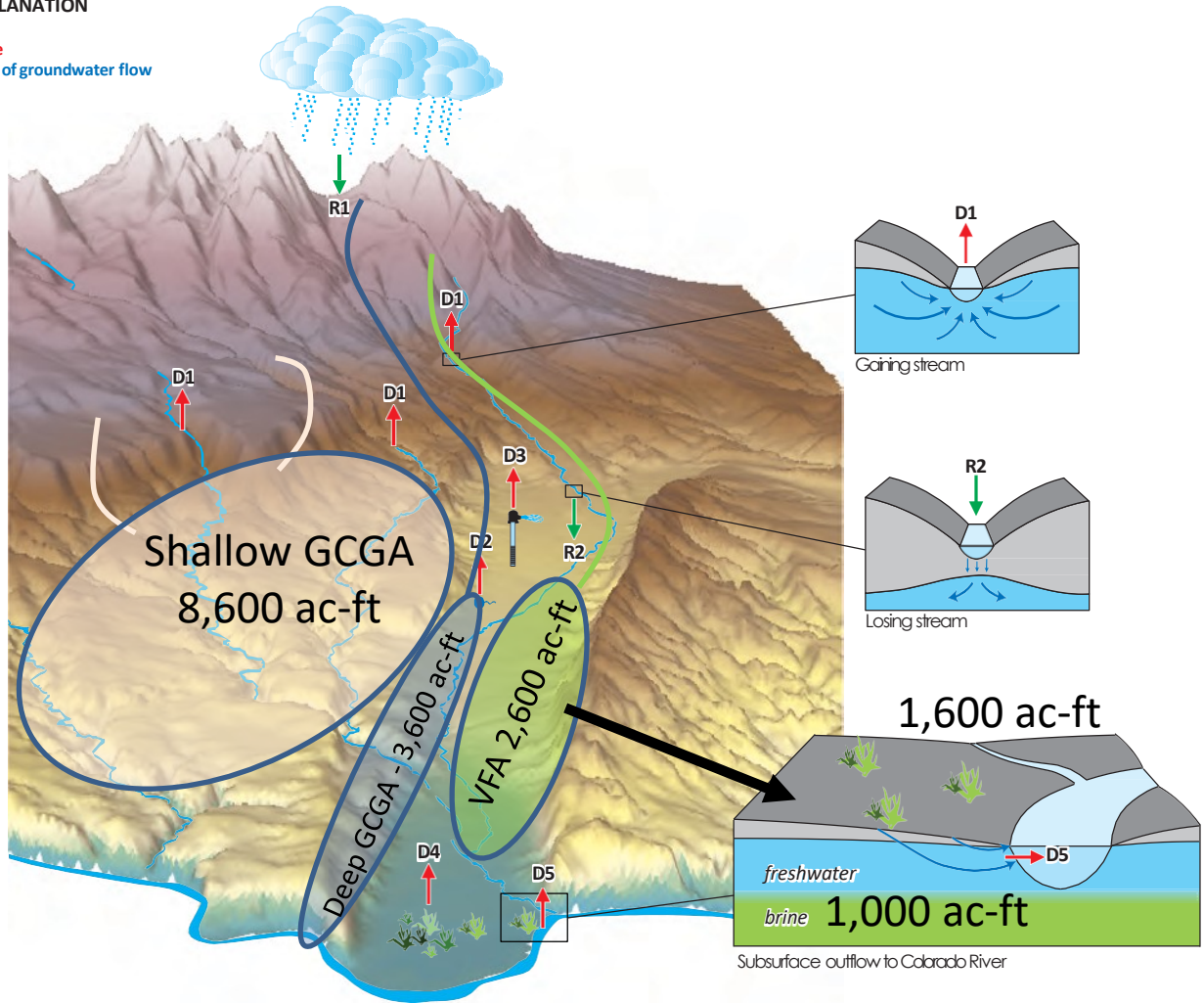


Figure 18. Conceptualization of the groundwater flow system and budget components for the Spanish Valley study area, Utah.

- Shallow GCGA are springs and baseflow discharge to upper Mill creek
- Deep GCGA is discharge to Moab City wells and springs
- VFA is Valley Fill Aquifer
- Total=14,800 ac-ft per yr