Supplemental Table S2 The equations of SWC, SNC, cucumber yield.

	The equations
SWC	irri_change + dayrain -runoff_change- ET- day_leach-SW_change
SNC	Soil NO ₃ min+Soil NH ₄ min+Nfert+Deposition N daily-Crop Nup-day leachNO ₃ -Soi N change

irri = irrigation change, ET = evaporation, SW=soil water, Min = mineralization, Nup = N uptake, TDM = total dry matter, HI =

Yield $TDM \cdot HI/(n \cdot c_{DM})$

harvest index, n =the plant population, c DM = dry matter content.