



The Food-Water Nexus Buzz Thompson Woods Institute Stanford Law School

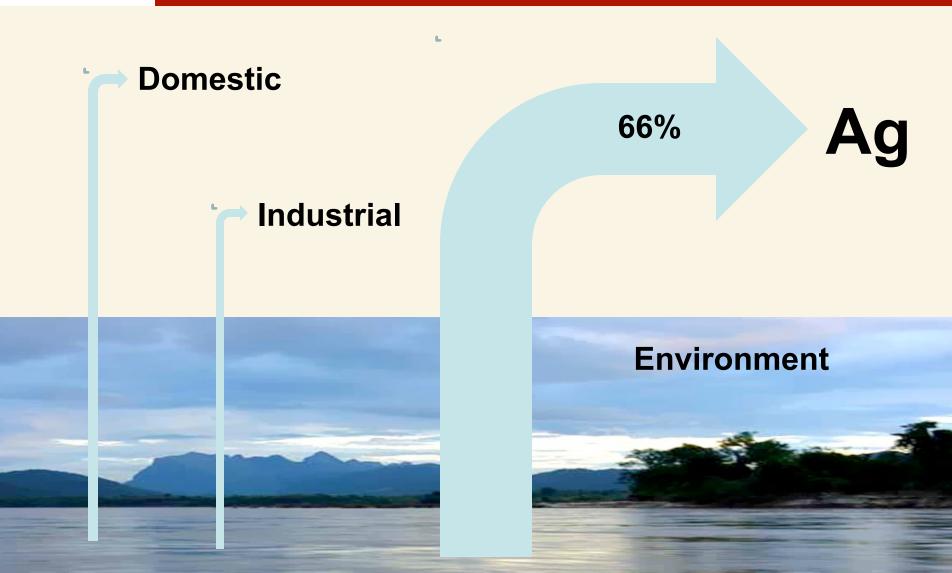


Agriculture Can Directly Impact Supply





But Its Consumption of Water Presents the Greatest Challenge





Agriculture Requires Massive Amounts of Water



1000 cups



650 gallons

1200 cups





Agricultural Consumption & Efficiency





Agricultural Consumption & Efficiency





Hydrologic Modification





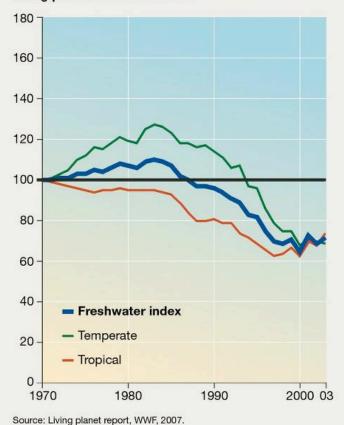
Disappearing Rivers, Lakes, and Deltas





Loss of Freshwater Fish

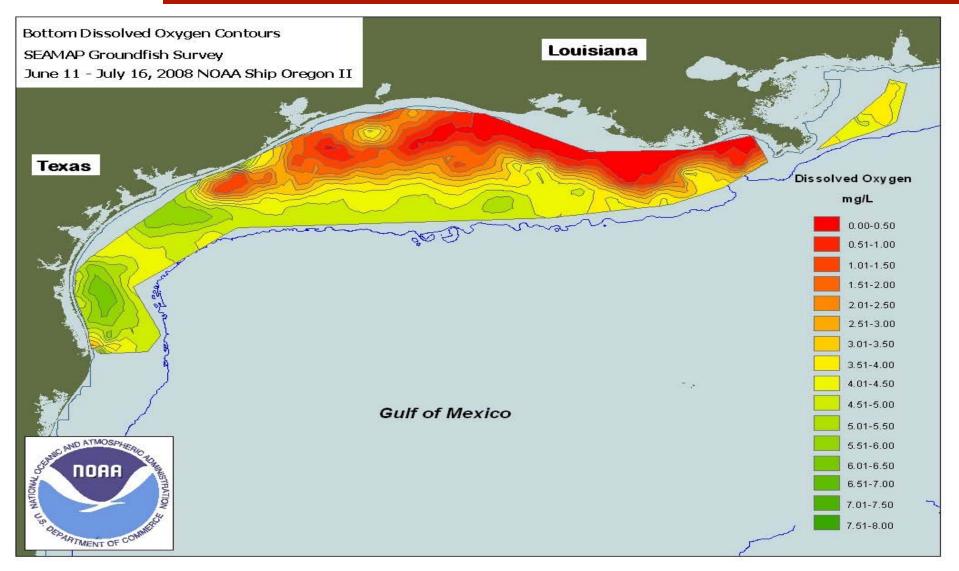




Living planet: index 100 in 1970

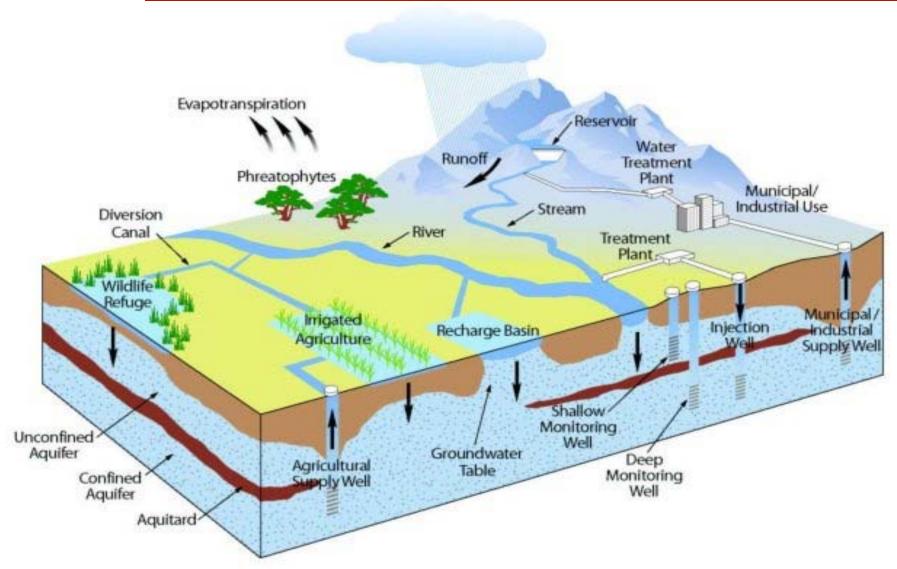


Nitrogen Loading & Ocean Dead Zones





Groundwater Depletion





Subsidence







Groundwater-Dependent Ecosystems





Sea Level Rise





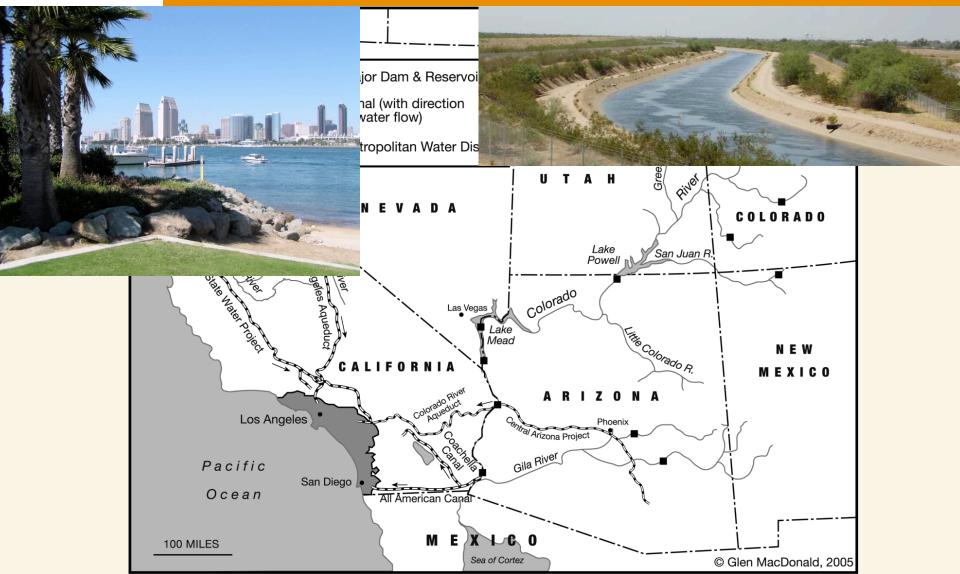
Solutions: Water Conservation







"Ag to Urban Water" Transfers





Water Recycling & Reuse





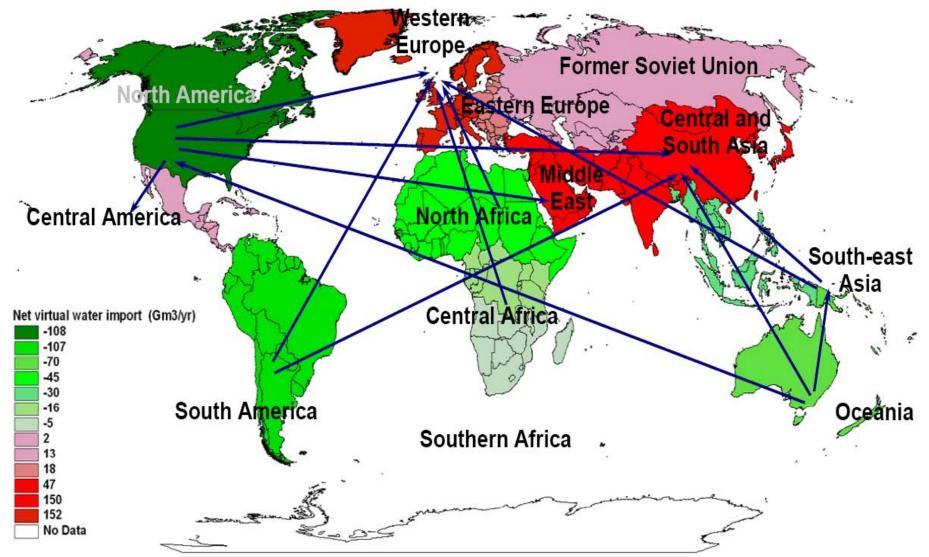
Import Crops from Water-Rich Regions





Virtual Water







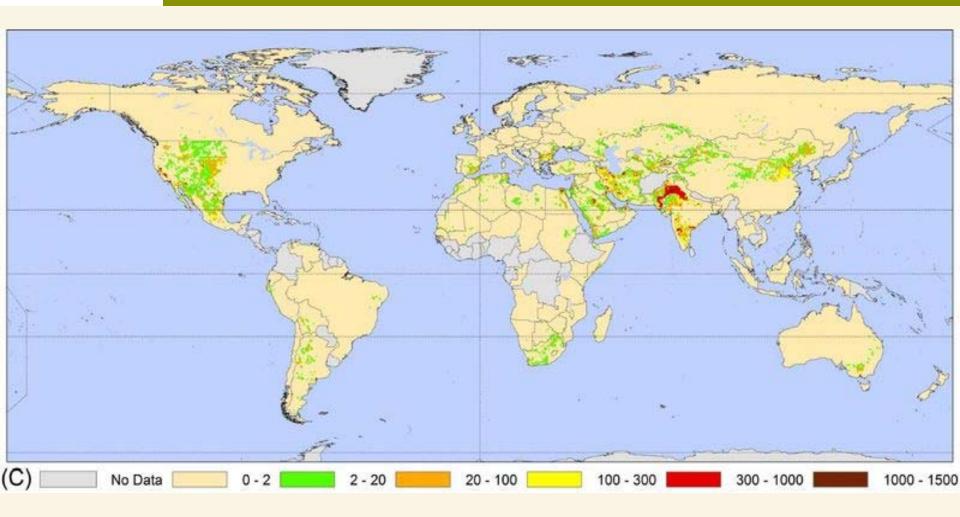
Virtual Water in Representative Countries



Country	National Ag Consumption (Gm ³ /yr)	"Virtual Water" (Gm³/yr)	Total (Gm³/yr)
China	711	29	740
Germany	36	32	68
Jordan	21	78	109
South Africa	27	7	34
United States	334	- 64	270



Do We Need to Worry about "Leakage"?





Questions?

