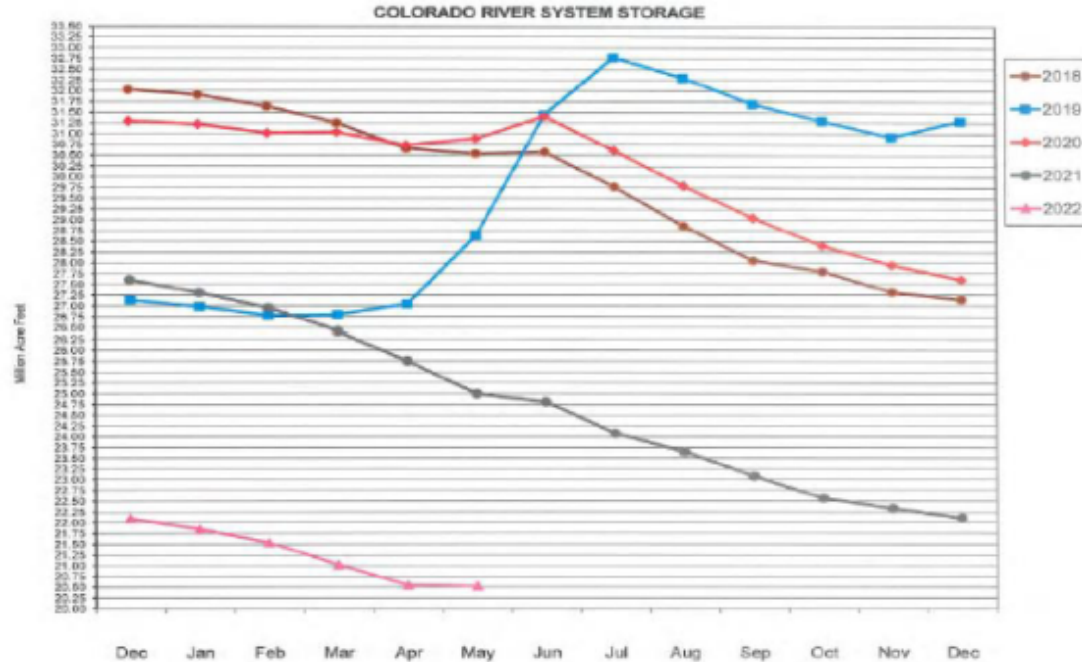


# ISRAEL – The Water Lab

Where necessity forces solutions and efficiency

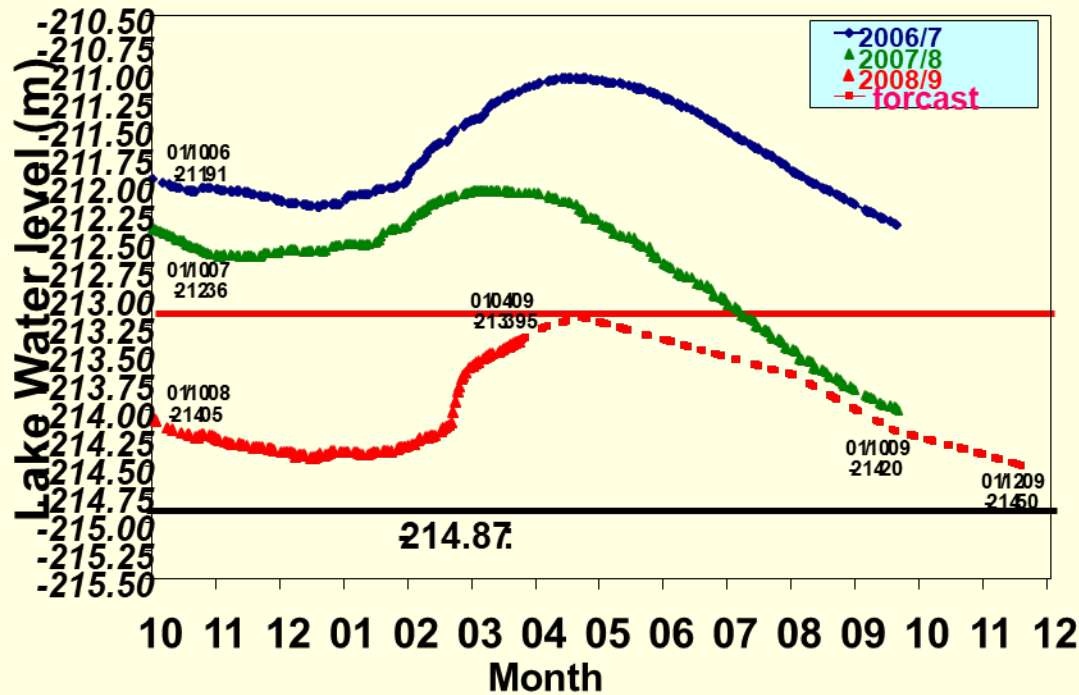


**Water Crisis...**

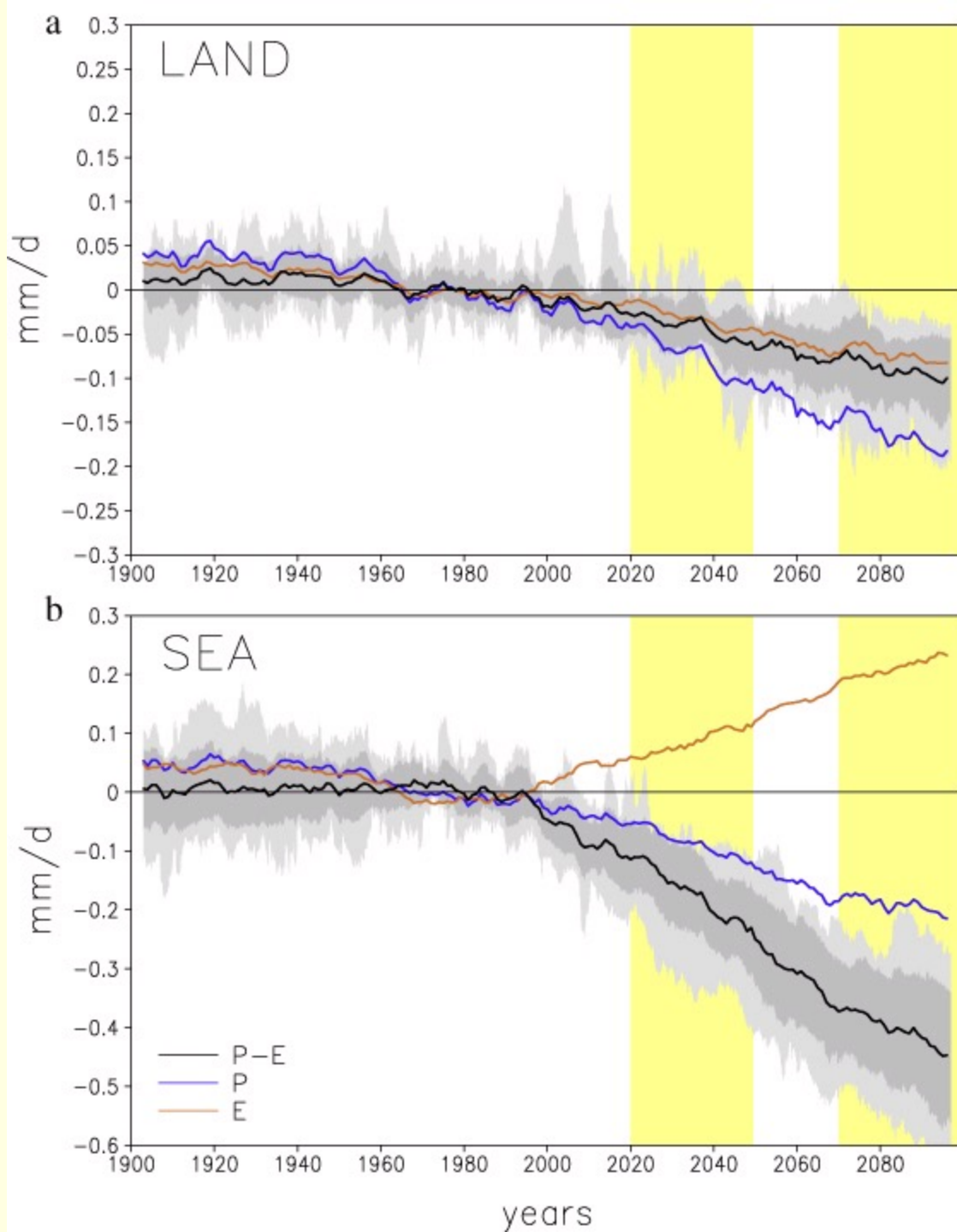


# Shrinking Colorado System Storage Catastrophe

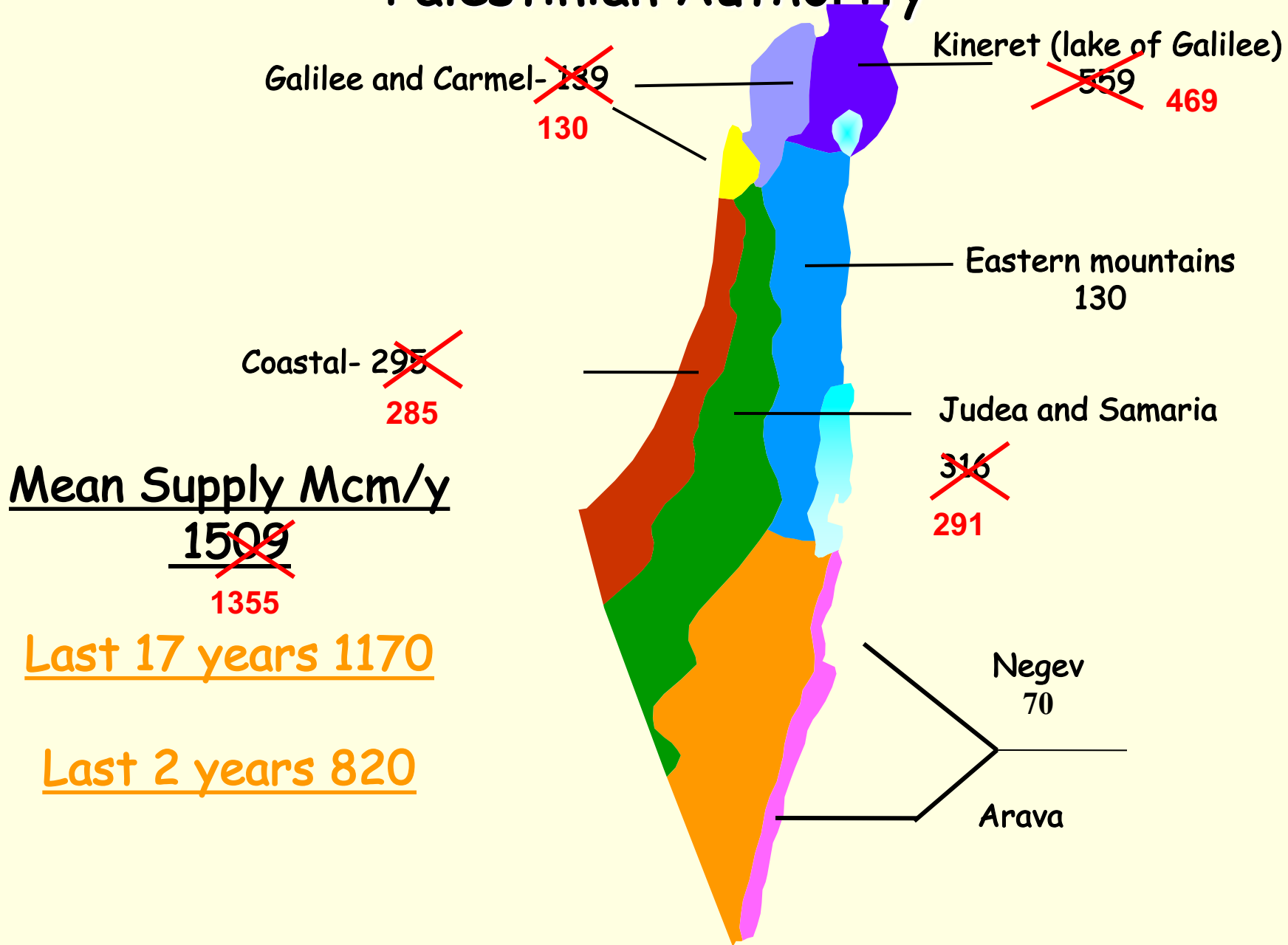
## Lake of Galilee Water level



# The Supply

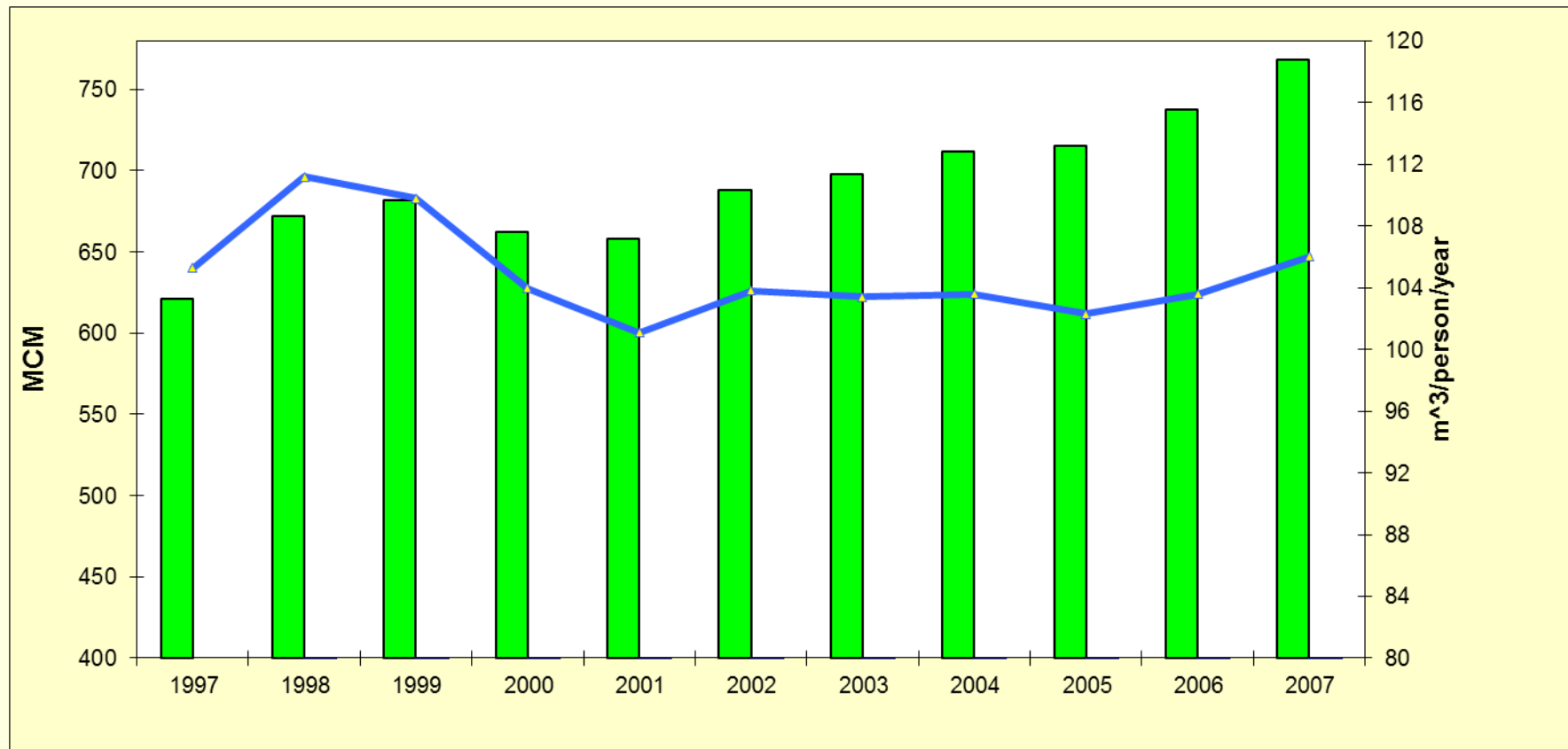


# Aquifers and reservoir in Israel and Palestinian Authority



# The Demand

## Domestic and per Capita Water consumption



# Saving

- 30% increase in domestic water tariff
- Agreement with farmers on gradual price increase - about 70% over 10 years
- Metering – water meters of any household, public

Advertising water saving •

Educational activities: •

schools, kindergartens

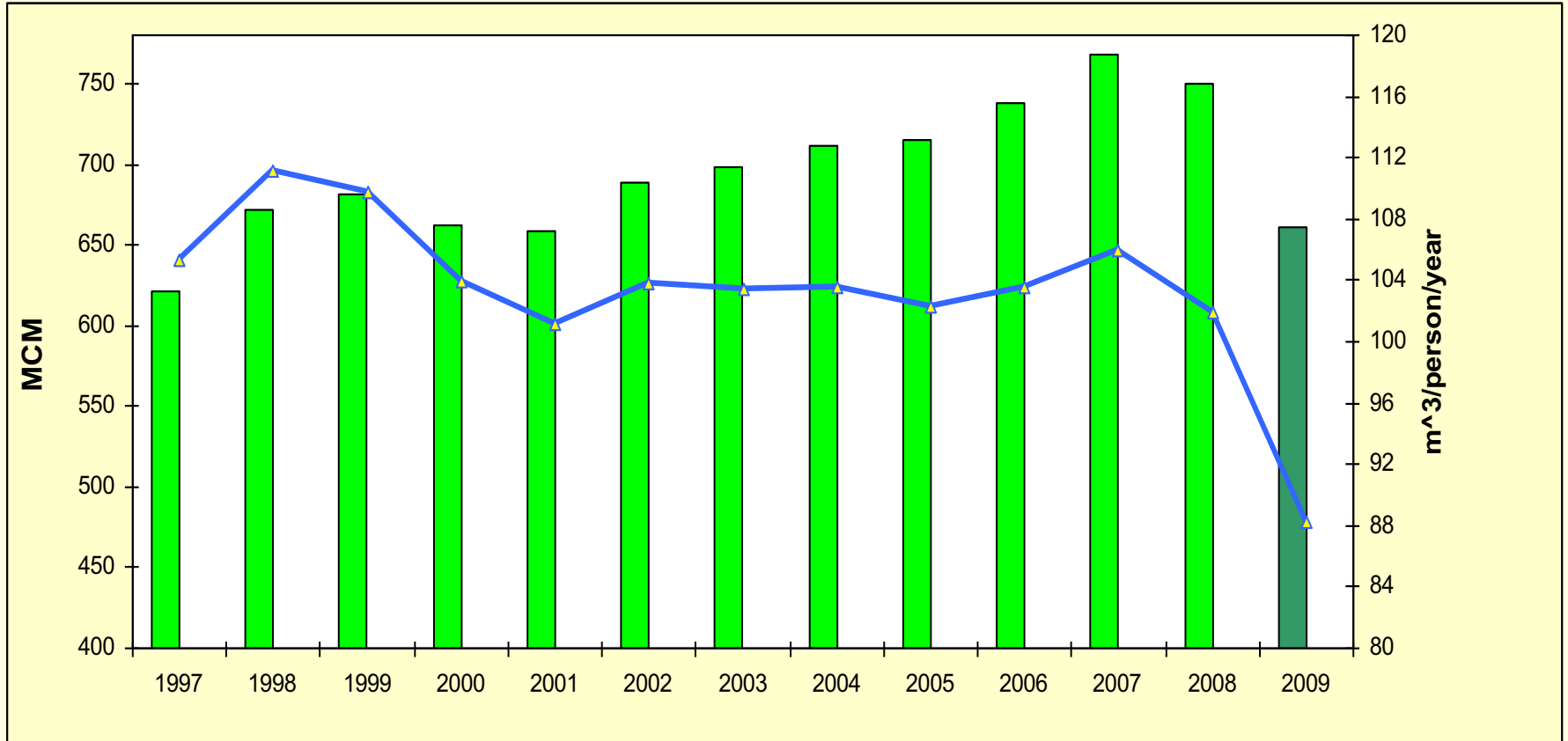


**Water Crisis...**

2008



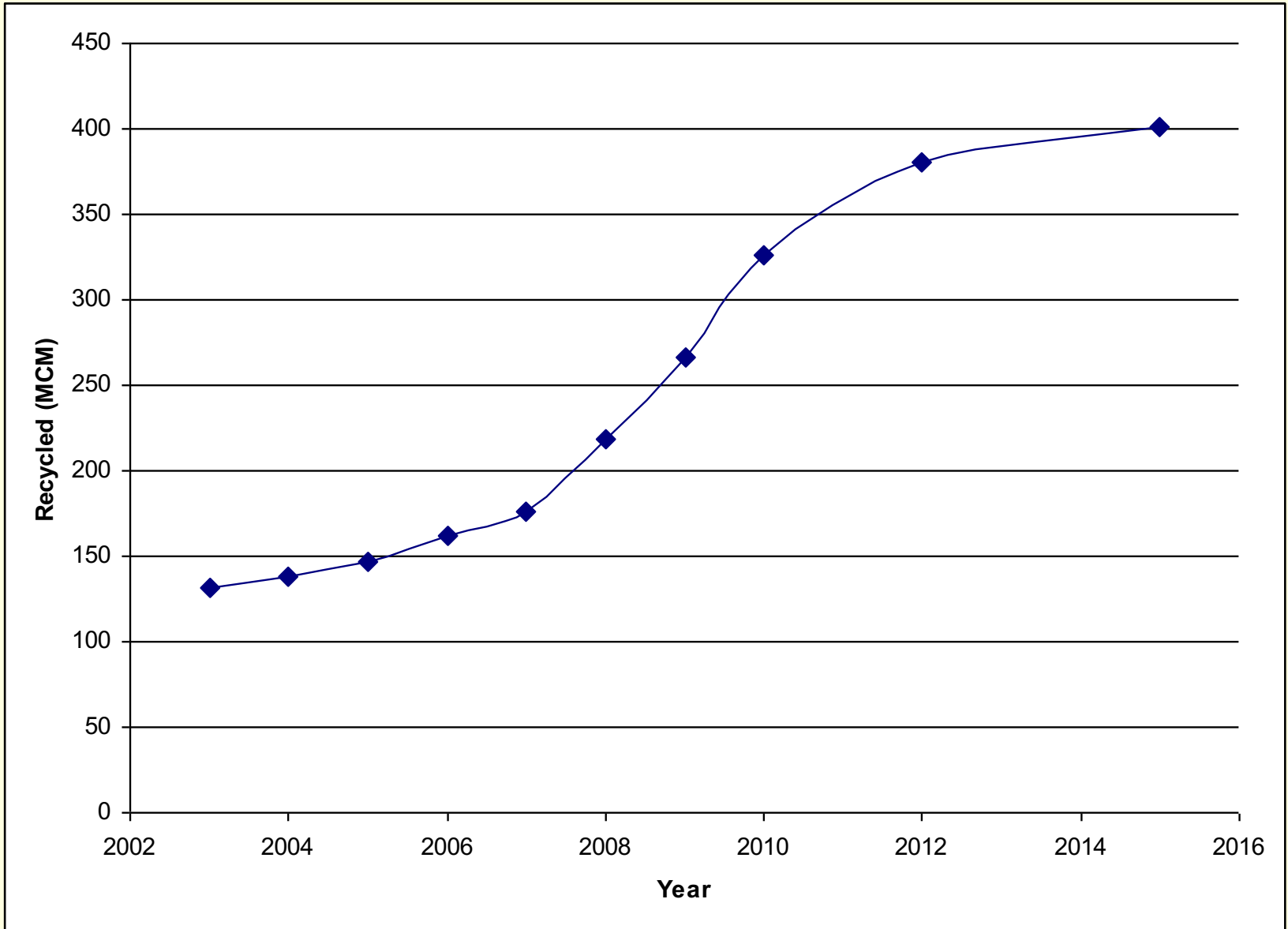
## Domestic and per Capita Water consumption



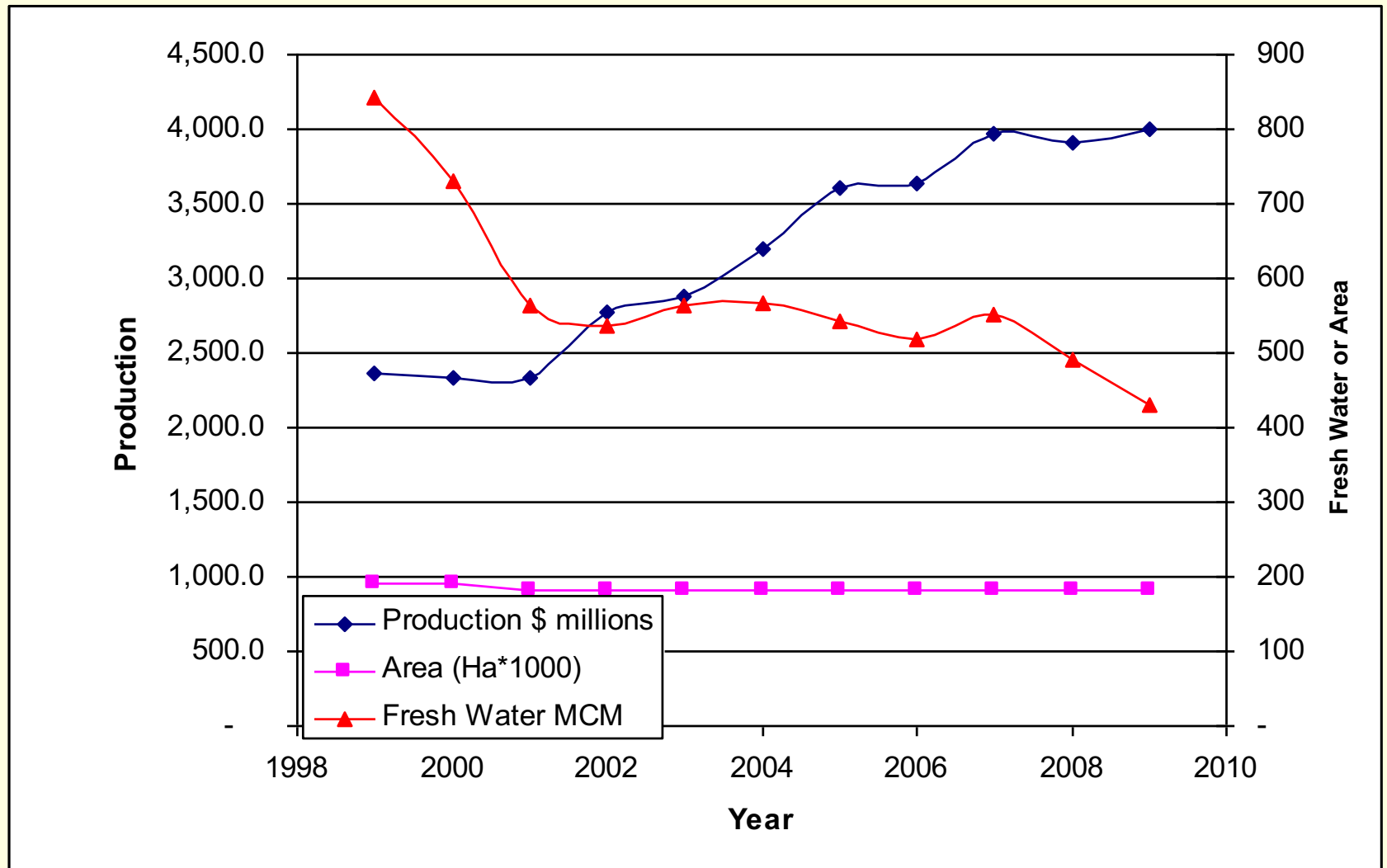
# Efficiency

Urban water leakage  
decreased from 13-15% to  
6-8%

# Recycled Water (treated effluents) allocated to agriculture

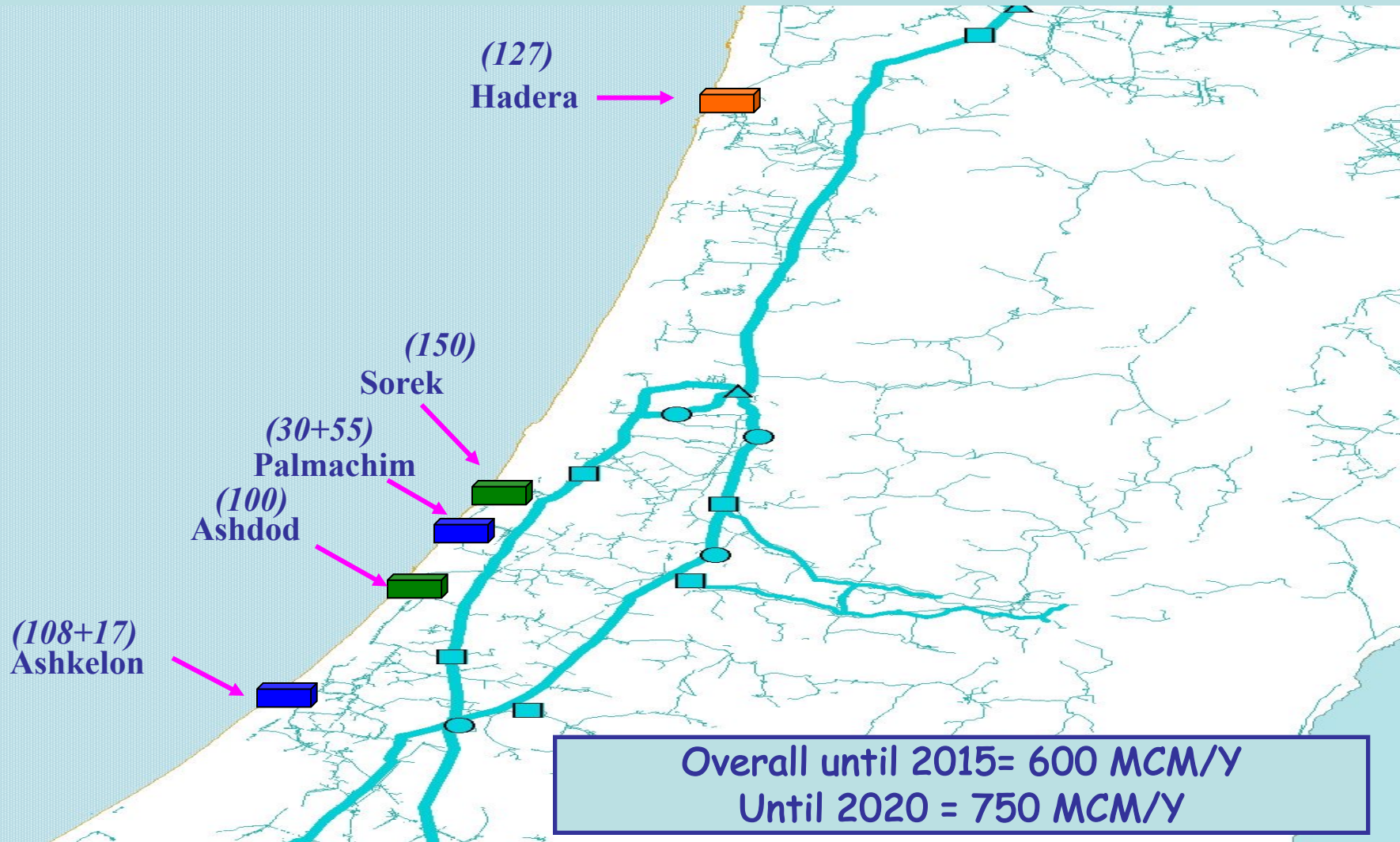


# Fresh Water Allocation to Agriculture, Irrigated Area and Production



# “New Water” - Sea Water Desalination

According to government decisions (between the years 2001-2008) sea water desalination facilities are being built :



# Efficiency – New Solutions

# N-Drip Transforms Flood to Gravity-Powered Micro-Irrigation



Citrus in Yuma, Arizona - Before and after the transition from flood to N-Drip

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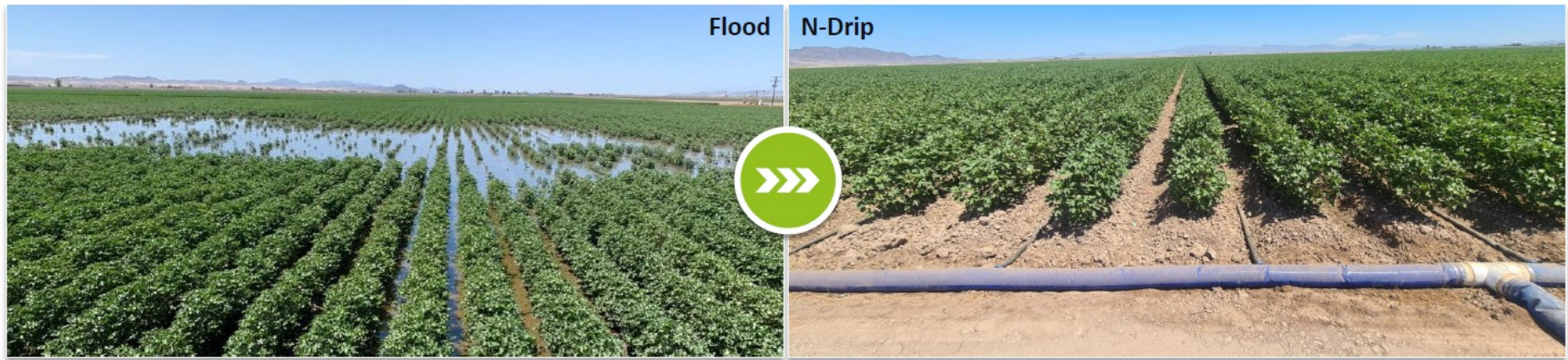
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## N-Drip – The only sustainable solution to save significant amount of water

✔ Uses existing flood infrastructure

✔ Efficiently irrigate based on gravity power alone

✔ Operates with natural water without expensive filtration



*Resource efficiency*

6 SDG

**Up to 70%**  
Water saving

*Higher food security*

1 SDG 2 SDG

**Up to 45%**  
Yield increase

*Reduce CO<sub>2</sub> footprint*

13 SDG

**Up to 71%**  
CO<sub>2</sub> reduction

*Soil conservation*

15 SDG

**Up to 50%**  
Fertilizer usage reduction