

# Tailoring Climate Information for Water Resources Management

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# Climate Risks and Water Resources

## **LAND DEGRADATION**



## **ENERGY**



## **WATER MANAGEMENT**



## **HEALTH & QUALITY**



## **AGRICULTURE AND FOOD PRODUCTION**



## **DISASTERS**



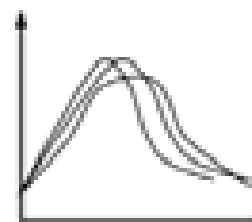
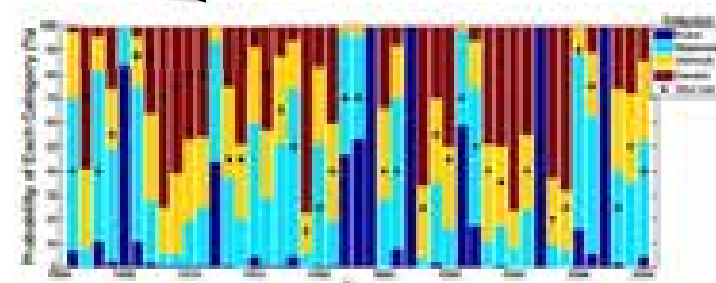
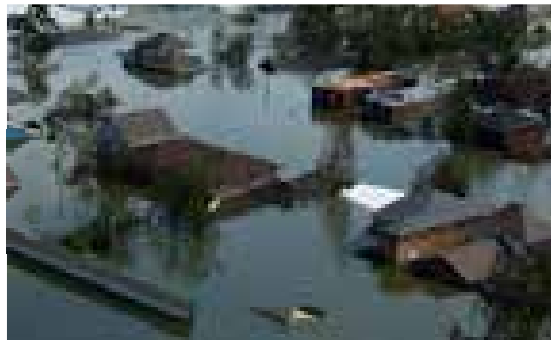
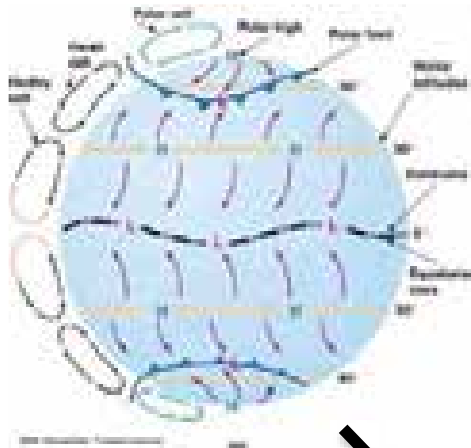


# US Weather and Climate Disasters





# Linking Climate + Water + Society



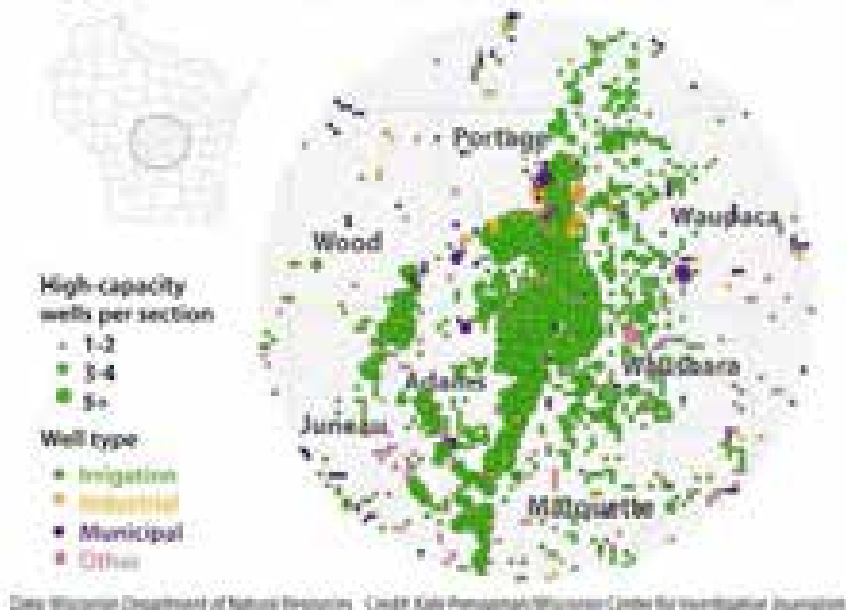


# Wisconsin Applications...

Water **quantity** forecasts → WI River allocations and reservoir ops  
→ Central Sands precipitation and GW

Water **quality** forecasts → Lake Mendota algae blooms

## Irrigation wells dominate the Central Sands





# Other Applications...

- Ethiopia/Nile → Agricultural management and crop yields
- Reservoir operations & hydropower development
- Chile → Water rights values
- Texas → Allocation tradeoffs (agriculture, domestic, energy, environment)

