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Katz v.s Wilkinshaw, 1903

- . Use of groundwater is a "usufructuary" right that is an appurtenance of the overlying land (not extinguished by non-use)
- Ownership lies with the state's people
- Use must be 'reasonable' relative to:
  - 。 Use by others
  - Characteristics of the parcel
  - Characteristics of the aguifer
- In case of conflicts: no prescription, rather seek optimal solution (often through courts)

For California water law and groundwater governance, see Harter & Rollins, Chapter 3

#### California Groundwater Rights

- Correlative Rights Doctrine
- California constitutional mandate for beneficial use
- Special districts (20 different types, about 2,300 districts)
  - Water districts, irrigation districts, private water companies, reclamation districts, water conservation districts, water replenishment districts, water storage districts,
- County police power controls groundwater exports
  - Baldwin vs. Tehama County, 1994
- Basin adjudication / "physical solution" controls extraction
- 。 City of Barstow vs. Mojave Water Agency, 2000:
  - Right of water users to negotiate physical "equitable, practical" solution, regardless of water rights
  - Individual water rights holders cannot be forced into a voluntary agreement
- State Water Resources Control Board
- The Courts

## California Groundwater Management Policies, 1

- No statewide groundwater use permitting system
- Local Groundwater Management Act of 1992 (AB 3030)
  - 。 Encourages local districts / counties to develop groundwater management plan
  - No specific guidelines
- No enforcement required, but agencies are given enforcement authority
- Local Groundwater Management Assistance Act of 2000 (AB 303)
- o Sets financial incentives for local/regional agencies to develop groundwater
- 。 Water project infrastructure only funded if groundwater management plan has been adopted
- Amendment to Land Use Laws 2001 (SB 221)
  - Ties landuse permits to availability of water
- Amendment to Urban Water Management Act 2001 (SB 610)
  - Requires urban water agencies to prepare urban water management plans
  - 。 Sets specific minimum guidelines, much more rigorous than groundwater management plans

## California Groundwater Management Policies, 2

- Groundwater Management Water Code Amendment 2002 (SB 1938)
  - Sets specific minimum guidelines for elements of groundwater management plan
    - Basin characterization

    - Management objectives
      Management tools must be specified to meet objectives
    - Monitoring levels
      Governance
- Does NOT require enforcement
- Integrated Regional Water Management Act of 2002
  - 。 Sets guidelines for governance
  - 。 Encourages integration of surface water and groundwater management, water supply and water quality management, land use planning
- Groundwater Level Monitoring Act 2009 (SBX7 6)
  - Requires groundwater level monitoring in all California groundwater basins, starting 2012
  - Guidelines developed subsequently by state agency (Dept. Water Resources) require at least one monitoring well per 100 sq.miles (2.6 sq. km)
  - Annual groundwater level reporting
  - o Local agencies may organize the monitoring program
  - Data are available through statewide public website

# Groundwater Management Portfolio: Potential Elements

- Managing groundwater demand
- Managing different water sources conjunctively
- Protecting, and enhancing recharge
- Groundwater banking
- Protecting surface water flows
- Identifying and protecting groundwaterdependent ecosystems
- Maintaining / achieving economic/financial sustainability



## Key Elements of (Local/regional) California Groundwater Management Plans

Key Actors in Environmental Resource Management - connected via communication / information flow -

Courts

Lawmakers

- Context / Basin Description
- Public and agency involvement
- Basin management objectives
- Monitoring
- Accountability and review

## Currently Lacking:

- Enforcement mandate
- Empowerment for demand management (in addition to supply management)
- Integration with surface water management
- Integration with water quality management (source control, remediation, containment)
- State oversight / enforcement

