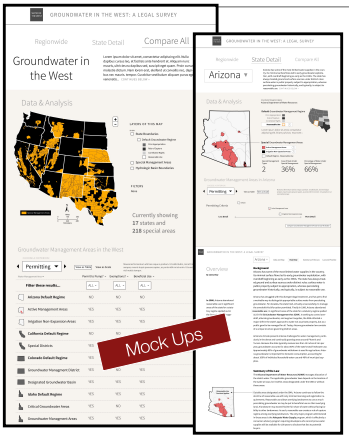
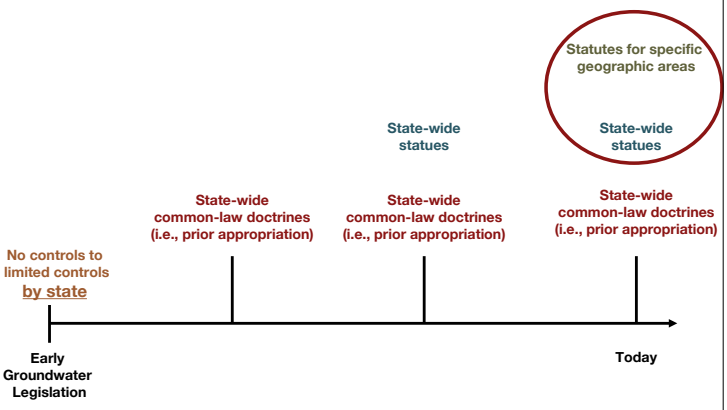
Western Water Dashboard

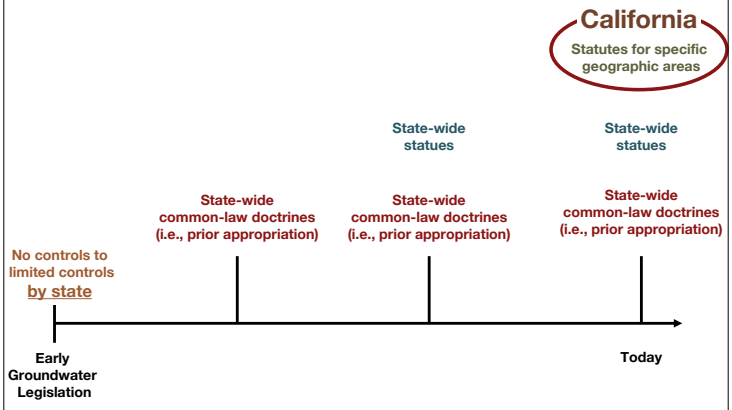


- → Interactive Webpage
- → 17 Western States
- → Merge Science and Law
- → Inform Stateholders

Historical Regulation of Groundwater Withdrawals



Historical Regulation of Groundwater Withdrawals

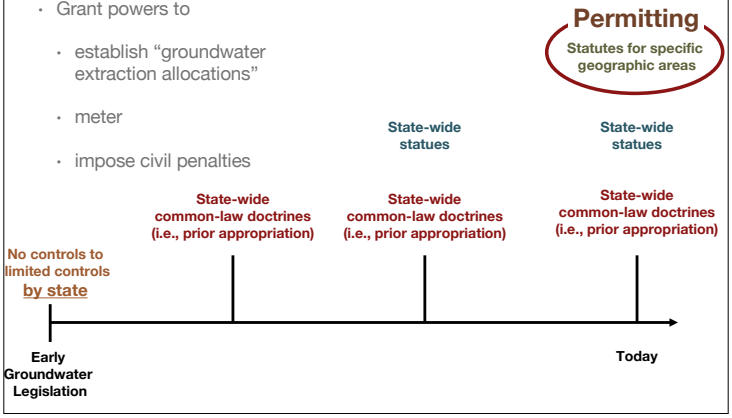


Sustainable Groundwater Management Act (SGMA)

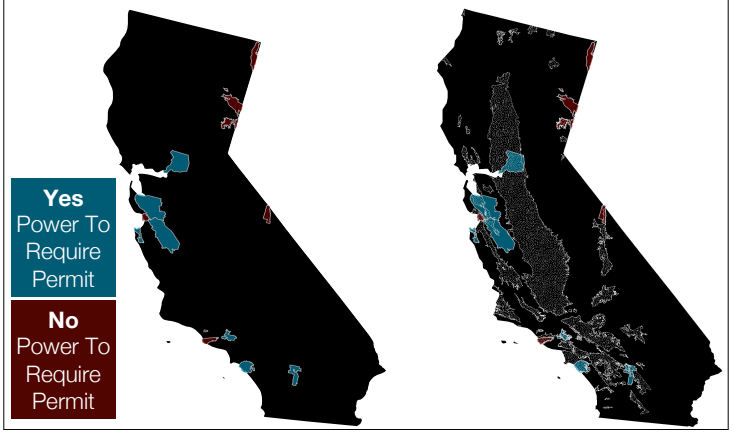
- Grant powers to
  - establish "groundwater extraction allocations"
  - meter
  - impose civil penalties

Why Care About Permitting?

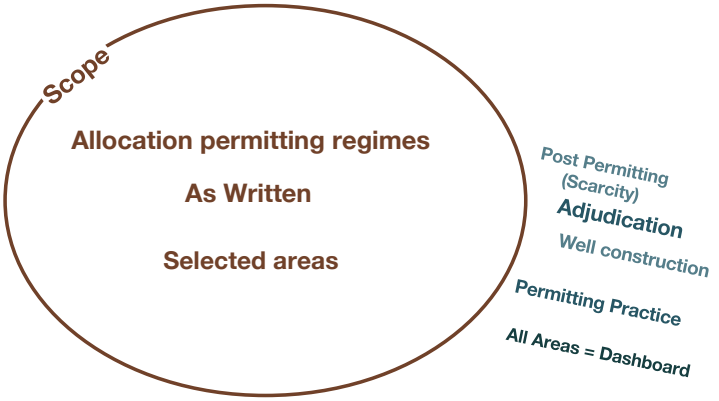
- Grant powers to
  - establish "groundwater extraction allocations"
  - meter
  - impose civil penalties



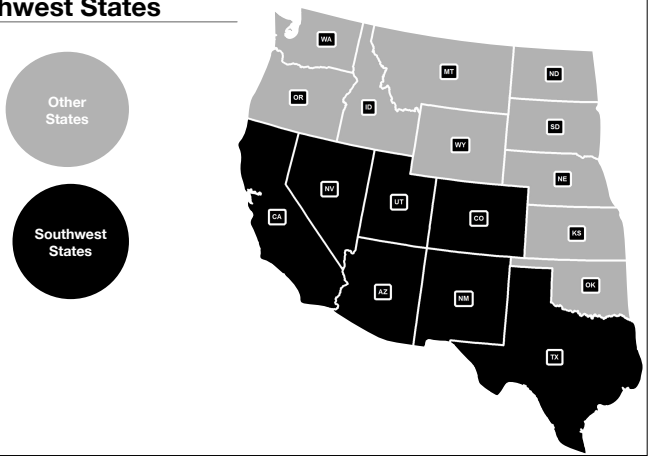
Why Permitting?



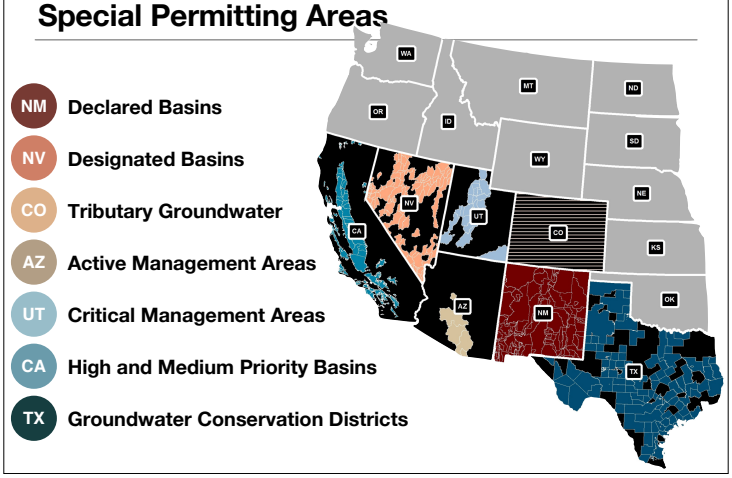
CA's SGMA Compared to Southwest Permitting Areas



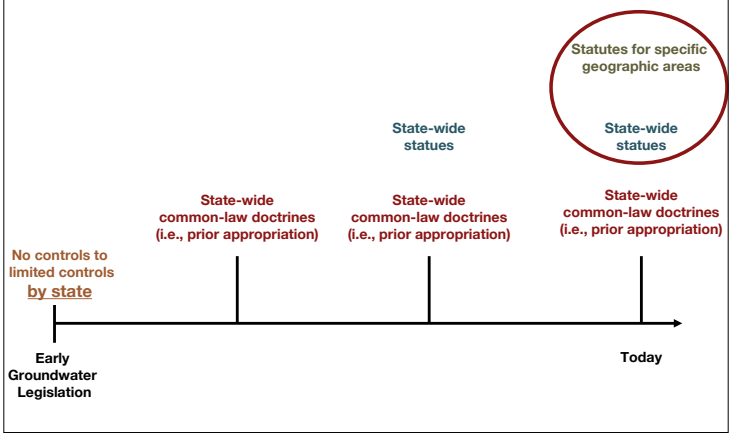
Southwest States

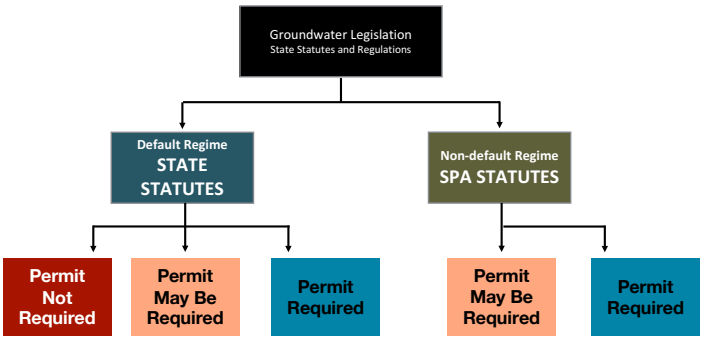


Special Permitting Areas

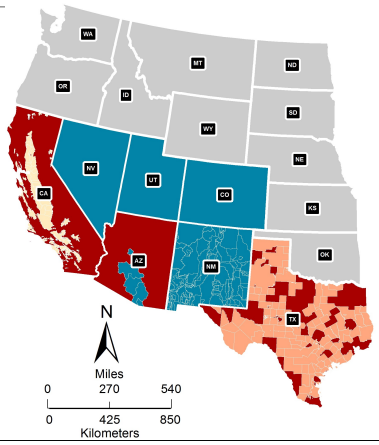


Historical Regulation of Groundwater Withdrawals





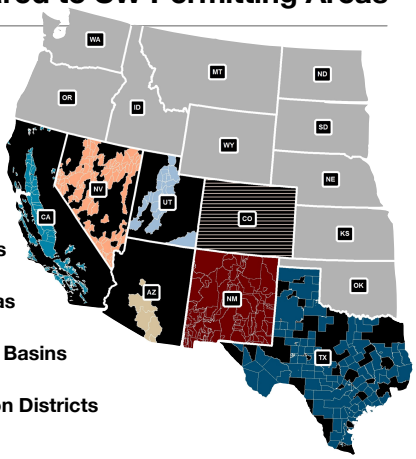
Permitting Powers

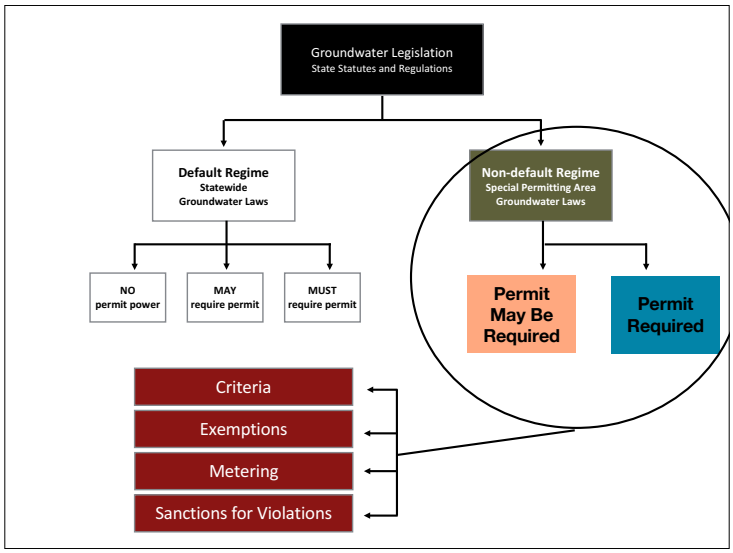


- Permit Required
- Permit May Be Required
- Permit Not Required
- High/Med Priority Basins

CA's SGMA Compared to SW Permitting Areas

- NM — Declared Basins
- NV — Designated Basins
- CO — Tributary Groundwater
- AZ — Active Management Areas
- UT — Critical Management Areas
- CA — High and Medium Priority Basins
- TX — Groundwater Conservation Districts



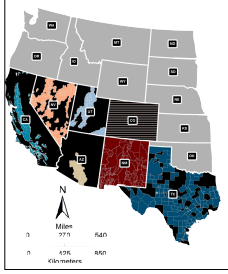


Power Balance

Local Centric → **State Centric**

Formulates Rules
Administers Rules
States may step in or provide direction

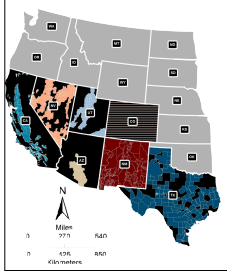
Formulates Rules
Administers Rules

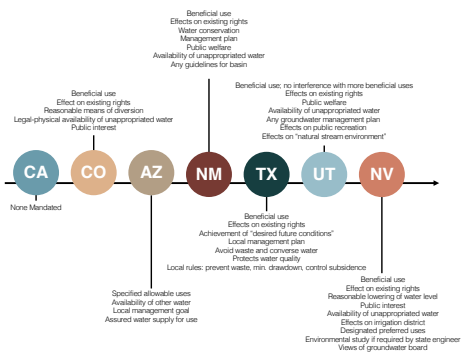


TX, CA — NV — UT, AZ, NM, CO

Permitting Criteria

Less Criteria → **More Criteria**





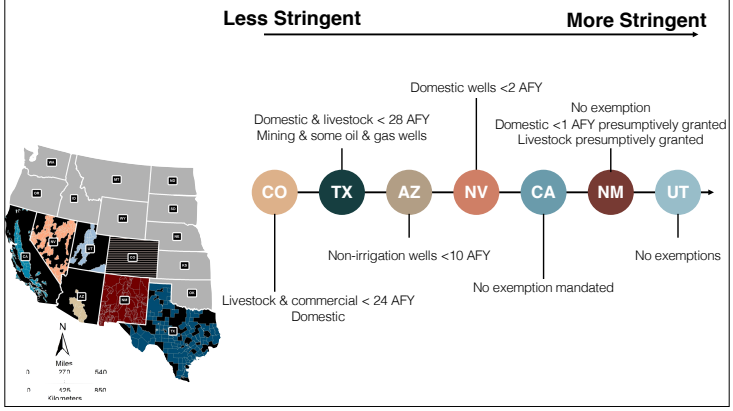
Permitting Criteria

Concept Occurs Frequently

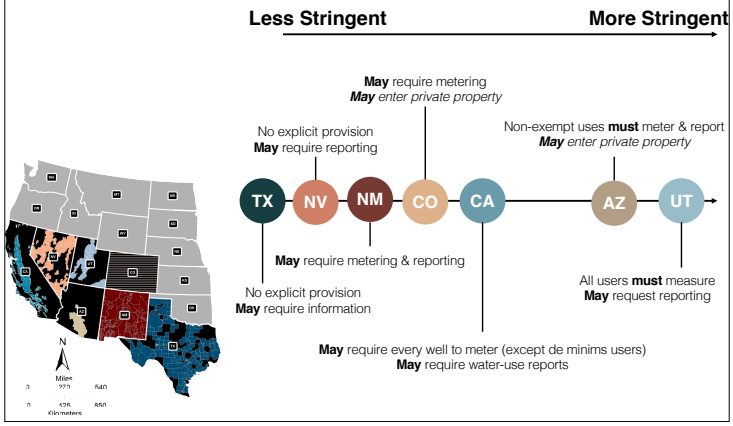
- "Beneficial use"/"reasonable use"
- Sustainability, "safe yield" or similar
- Impacts on other water users
- Public interest/welfare or similar
- Economic priorities
- Impacts on species/ecosystems

Concept Occurs Rarely

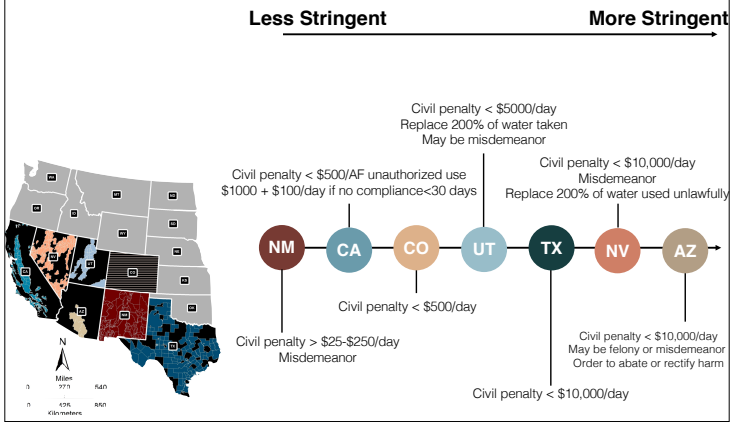
Permitting Exemptions



Metering Withdrawals



Penalties



Take Away

Questions?

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http://waterinthewest.stanford.edu

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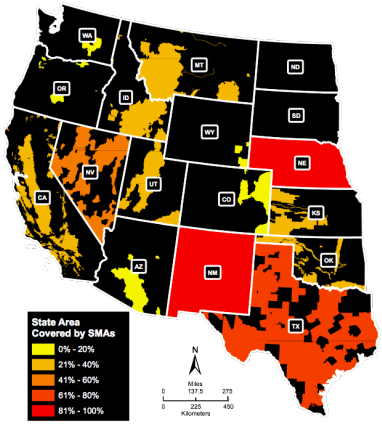
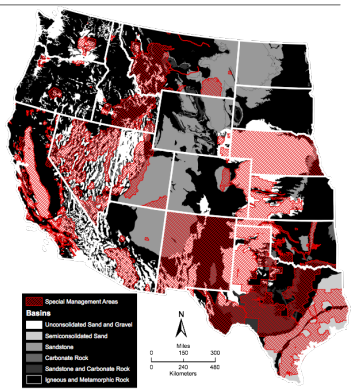
STANFORD WOODS INSTITUTE FOR THE ENVIRONMENT
THE BILL LANE CENTER FOR THE AMERICAN WEST

Growing Use of Special Permitting Areas



Take Away #2

Common pool resource with spectrum of management regimes