

Even Beer & Cheese Needs Water During Drought

Water Withdrawals & Drought:

The Ultimate Oxymoron











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Why Withdraw Water?



Municipal





Industrial



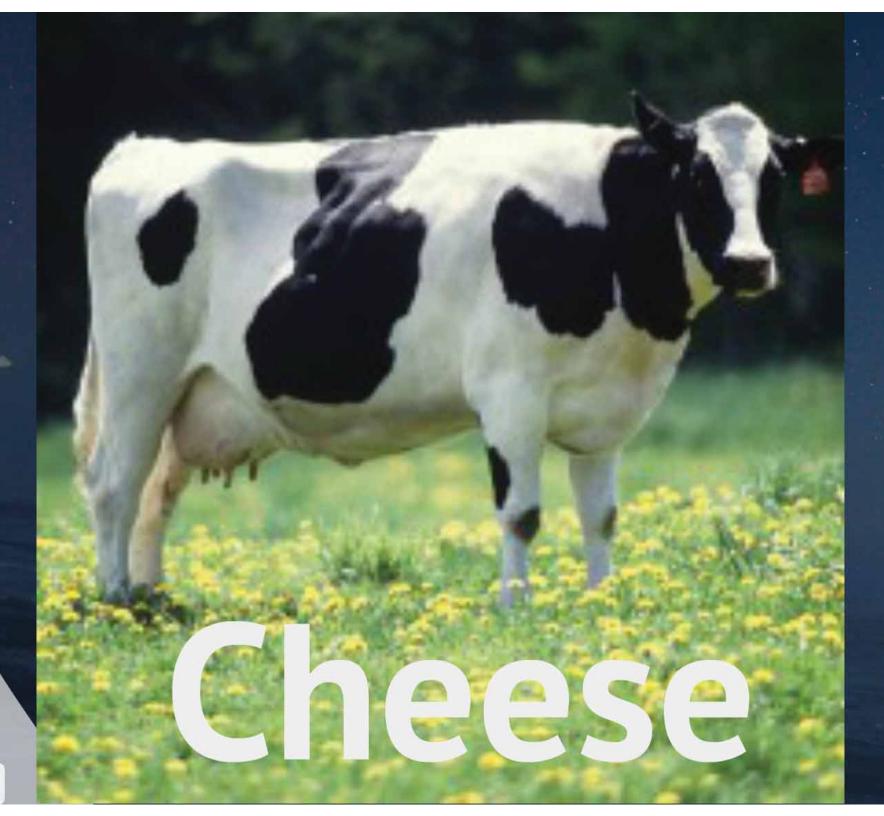
Municipal

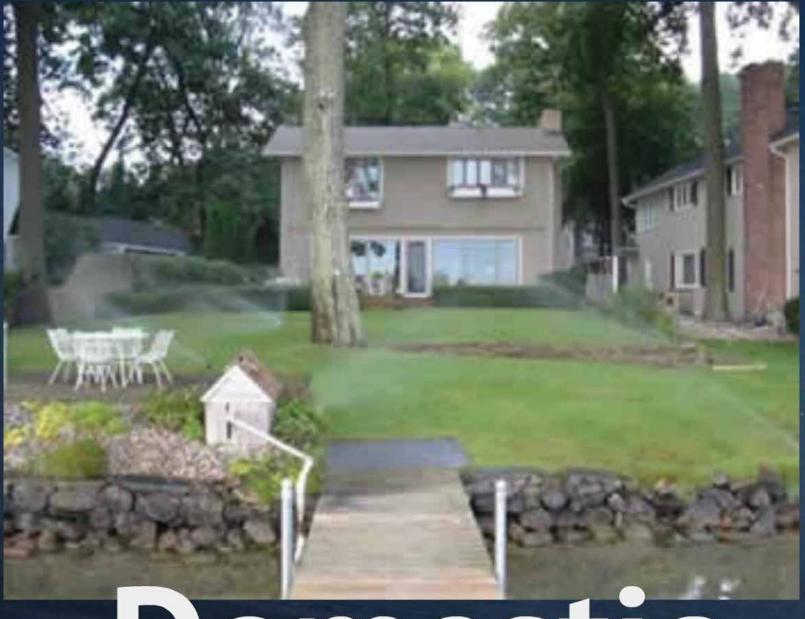


ithdraw Water?









Domestic





Public Trust Doctrine

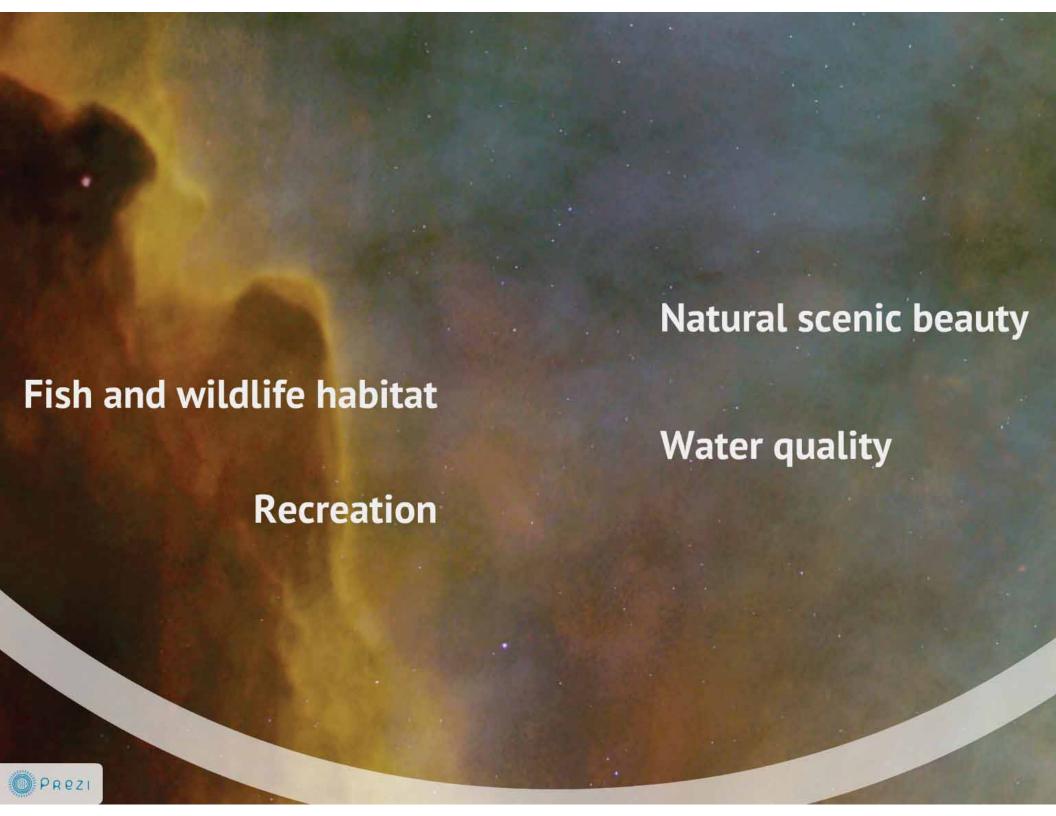
responsibility



protect navigable waters



for everyone!



Jurisdiction 30.18 Wis Stats

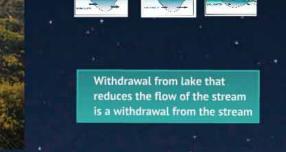
Streams



purpose

Mair





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Maintaining the normal flow of a stream

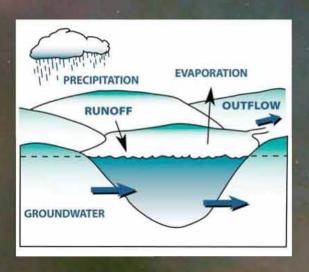
Maintaining the normal level of a lake

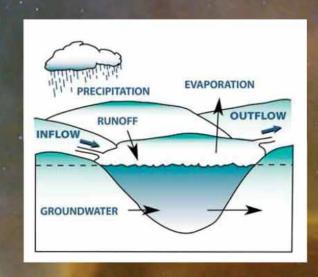
Agriculture

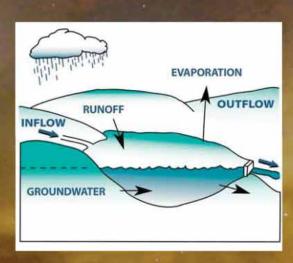
Irrigation



A lake WITH an outlet?





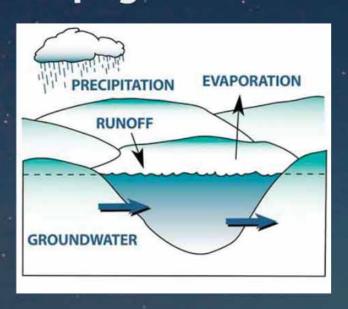




Withdrawal from lake that reduces the flow of the stream is a withdrawal from the stream



Streams & Lakes seepage lake no outlet





Volume

water loss average 2 million gpd over 30 days



- Withdrawals can only be granted to riparian owners
- The withdrawal cannot harm public rights
- Must have consent of downstream users!



- With gran
- The publ
- Mus

Approve or Deny?

Goal: meet the needs of navigation, fish and wildlife, water-based recreation, aesthetic enjoyment, water quality



Need to Know: Location (withdrawal and area irrigated) Timing (when start and end) **Acres irrigated** How many times a year (max) How much per event Withdrawal rate Type of pumping system





Resource Considerations: Establish a "public rights stage"? a seasonal flow regime?



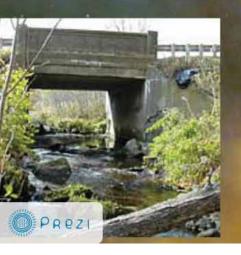
i per event al rate umping system Establish a "public ri a seasonal flow regi

Decision (backed up by Q7-2 (if known), current levels, seasonal average level, HSI curves (if known)

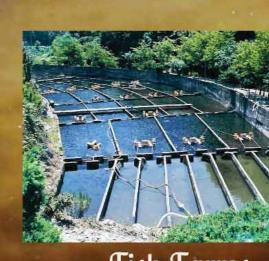


Unregulated Withdrawals (gaps)

Water use registration thresholds & Great Lakes Compact; Existence of water level/flow order or Public Rights Stage allows regulation of some withdrawals





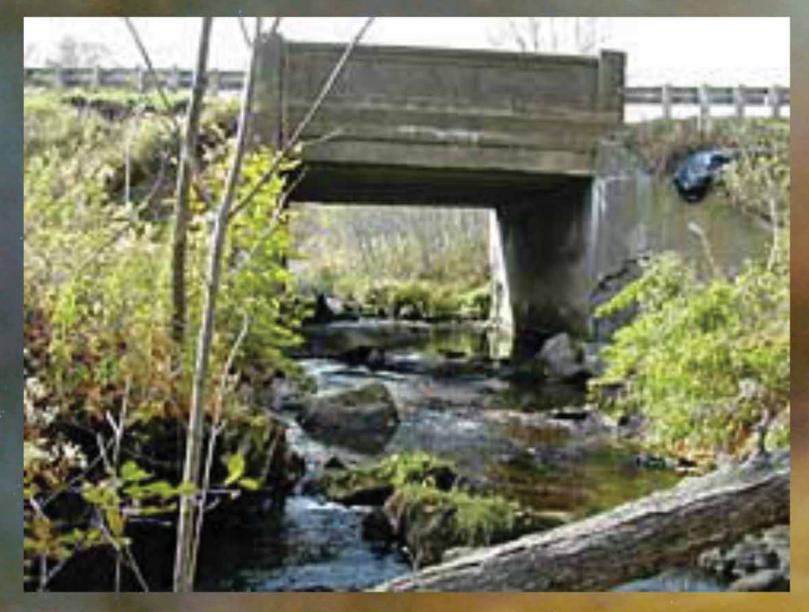


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Water use registration thresholds & Great Lakes Compact; Existence of water level/flow order or Public Rights Stage allows regulation of some withdrawals







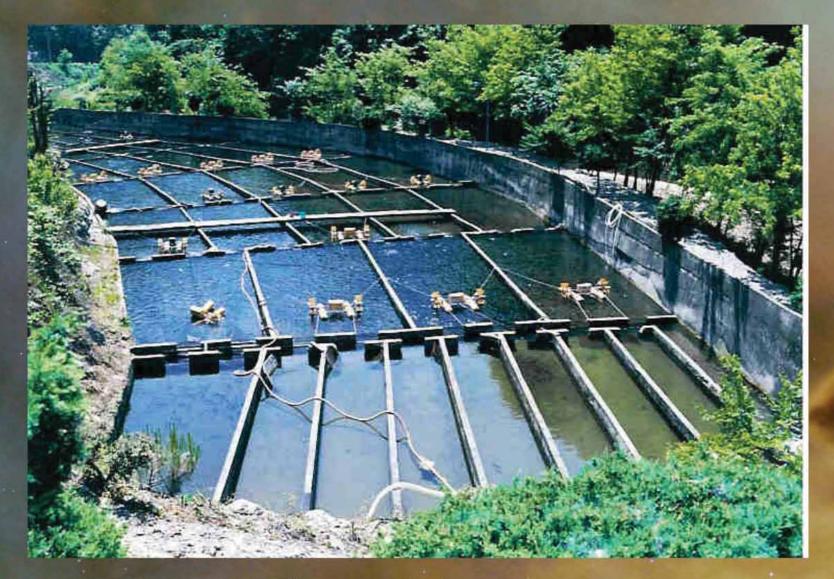
Roadway Stream Crossing





Seepage Lake (under volume threshold)





Fish Farms

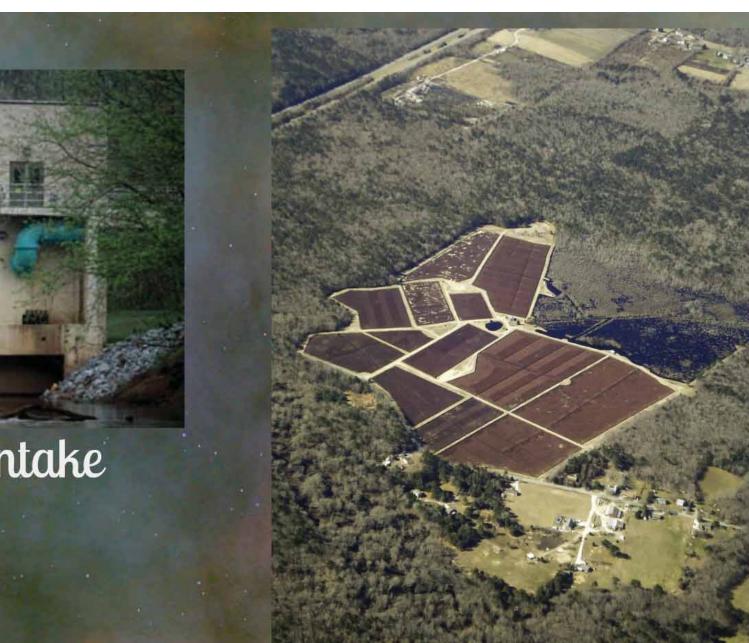
(not defined as Agriculture)





Industrial Intake



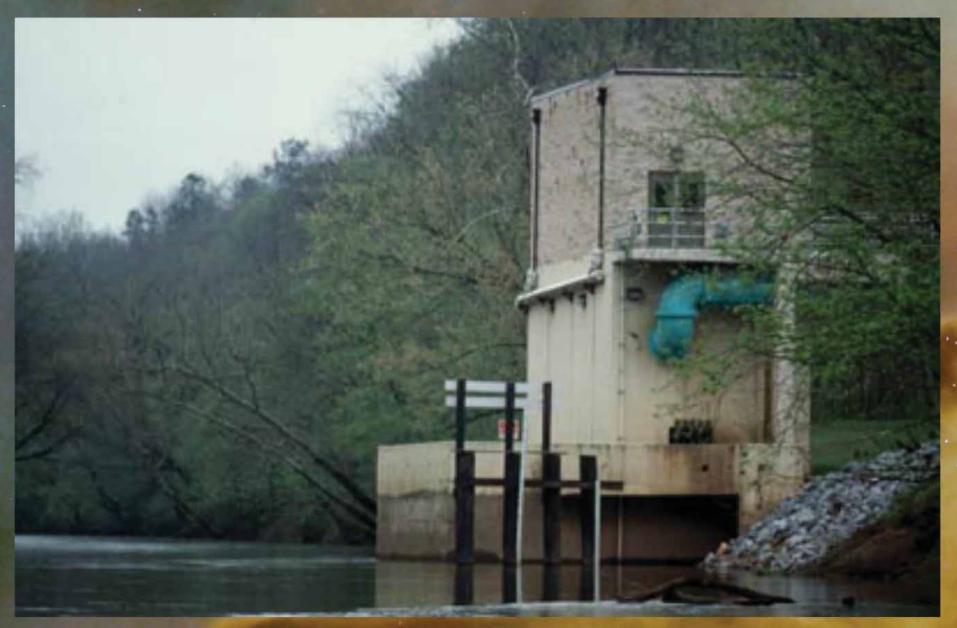




(exempt in statute ss. 94.26)







Municipal Intake





Drought Declaration Emergency Executive Order

an set location, rate, hours, and PREZINCY of withdrawal within a

Agricultural Irrigation
No Public Input
Permits expire with order
Onsite within 3 days

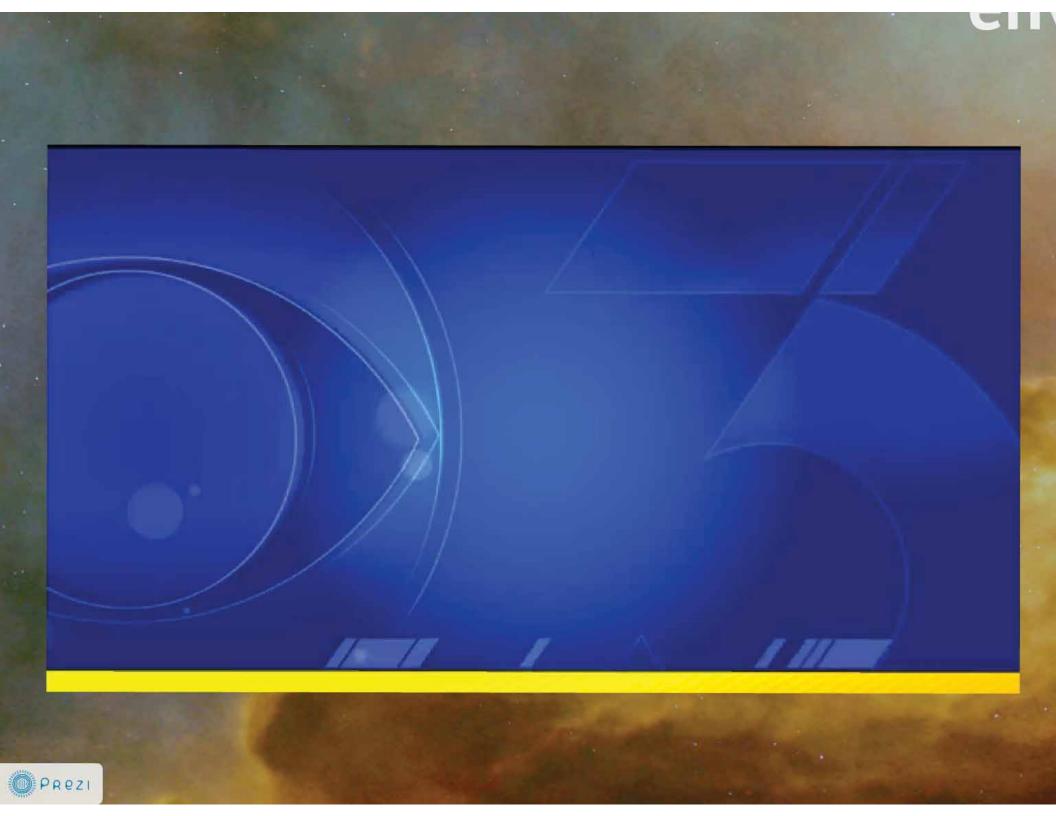


Can set location, rate, hours, and frequency of withdrawal within a specified time period



Able to modify, deny or rescind permit if causing adverse environmental effects







Approve or Deny?

No Publi Decision



Check gauging data to assess to Current range of flow is needed pumpage rate.

permit if causing adverse environmental effects

No Public Rights Stage Decision based on Biological, Habitat, and Water Quality

assess baseline flow/water volume is needed to compare to the requested



Check gauging data to assess baseline flow/water volume Current range of flow is needed to compare to the requested pumpage rate.

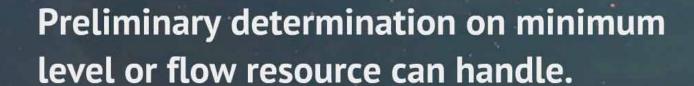
Has a PRS, or minimum level or flow, Q7-2, Q7-10 etc been established?

Has a Aquatic habitat survey identified a snapshot water level?

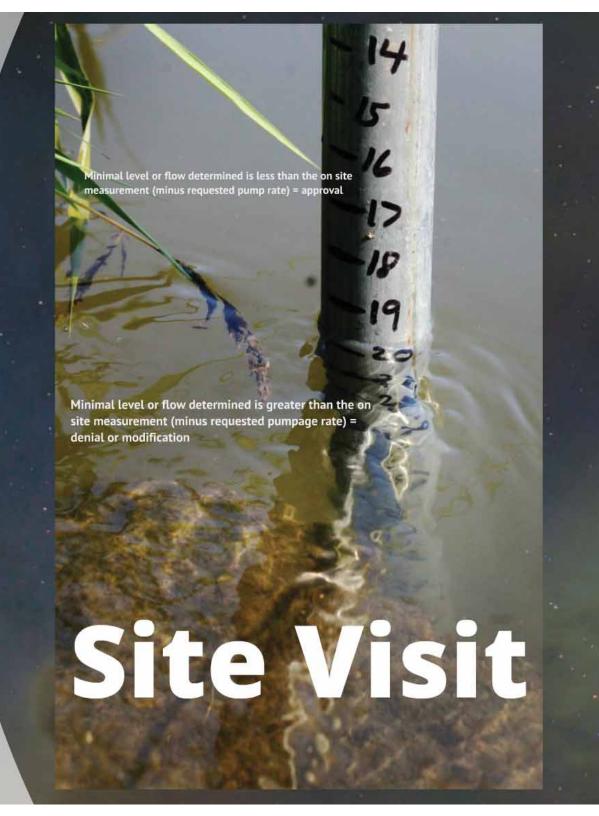
Waterbody special designations? (e.g. trout stream, ORW/ERW, mapped sensitive area)

Is current water level is suitable for target species, or species of concern?

Ooes a water control structure have orders setting a water level or flow?











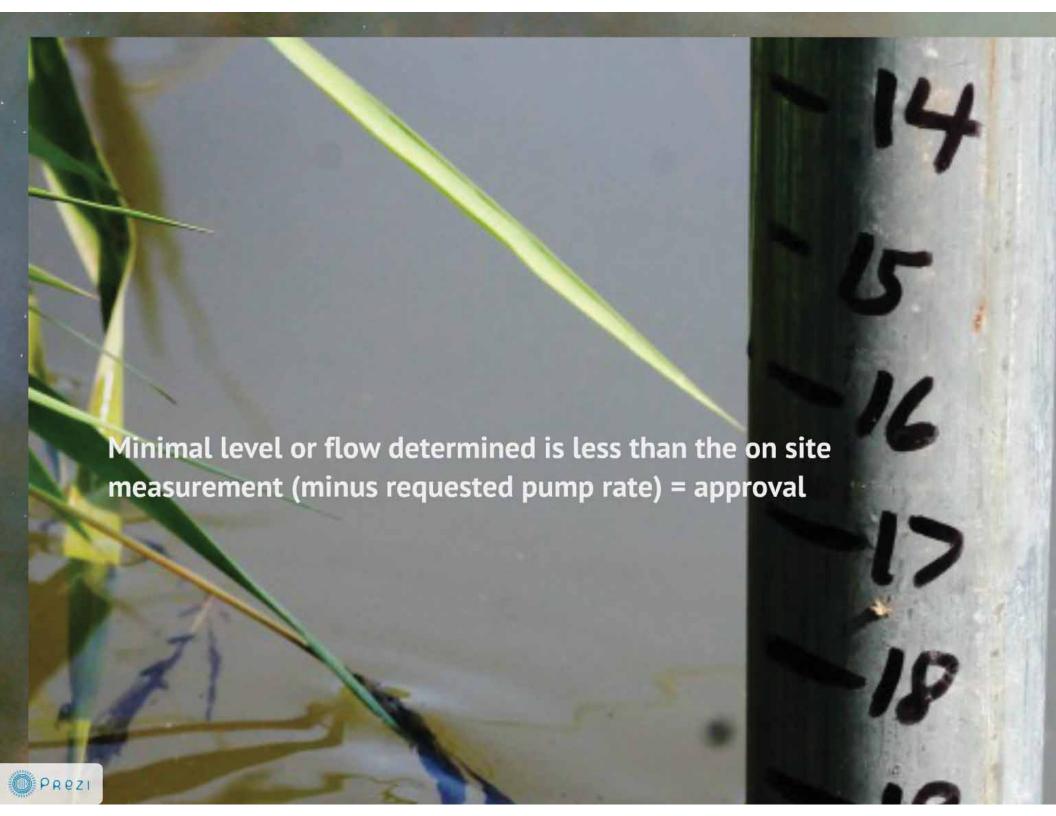


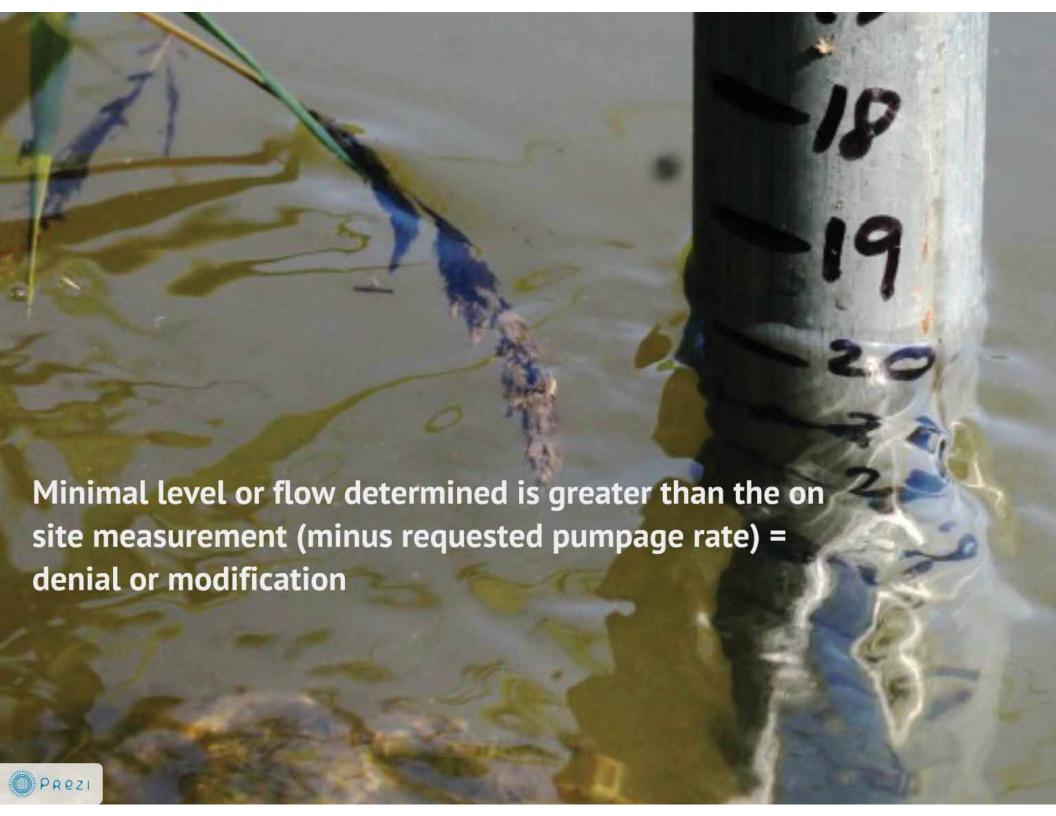






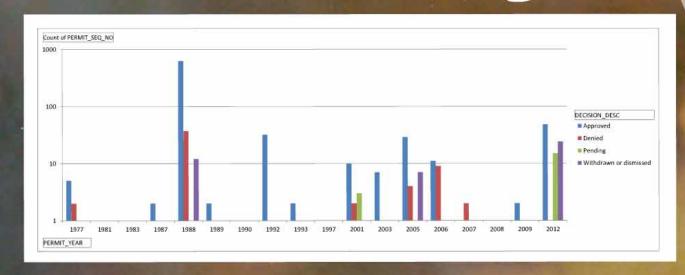






A NOTE ON DAMS: Law: At least 25% of the natural low flow of the river must be released through a dam at all times. Policy: Emergency withdrawal request that is below a dam passing the minimum flow = Denial

History

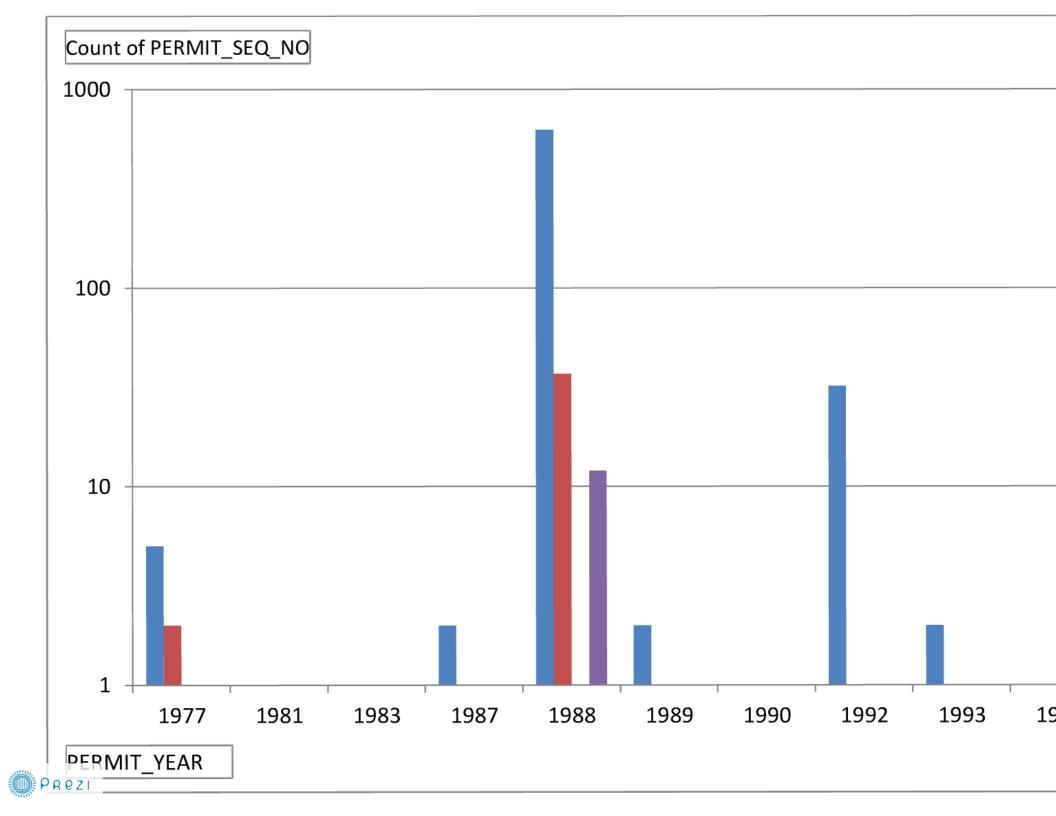


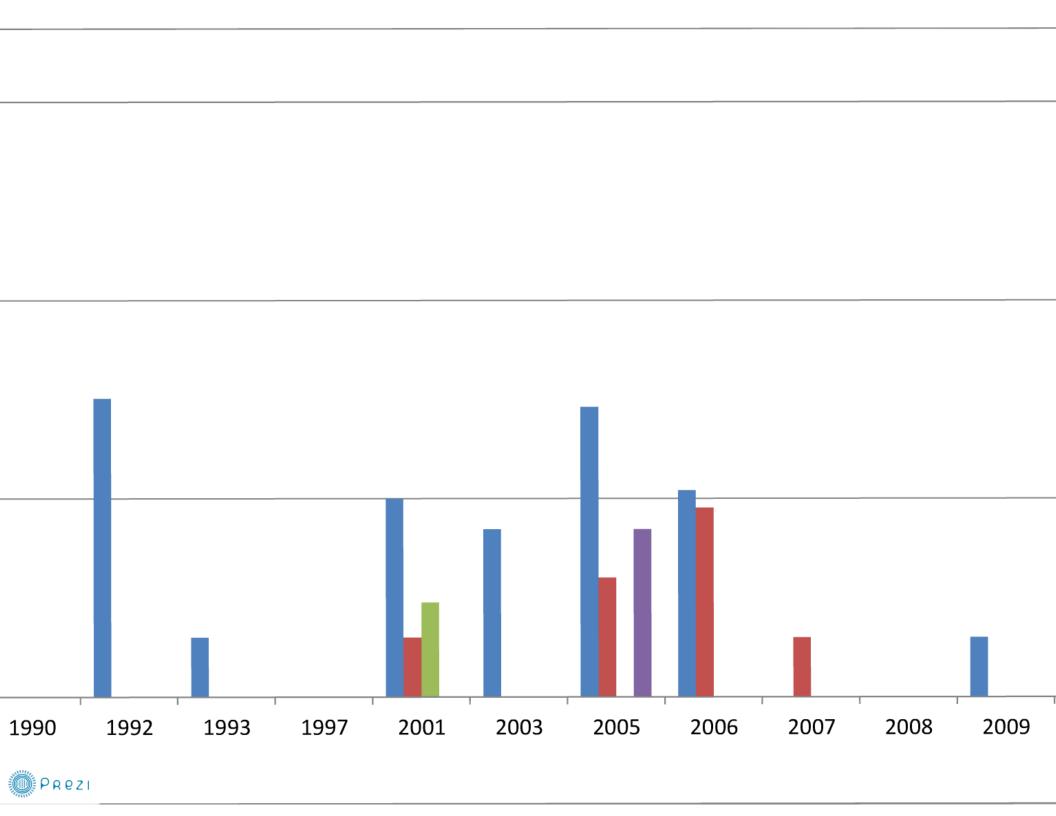
DECISION_DESC

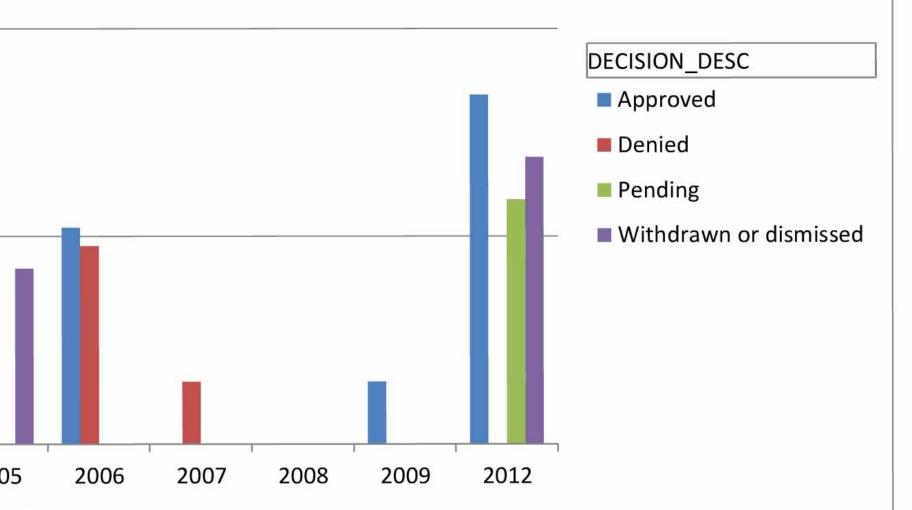
- Approved
- Denied

- Pending
- Withdrawn or dismissed













Drought Data

