SCCWRP's fact sheet series

Scott Martindale Commission Meeting June 6, 2025

Background

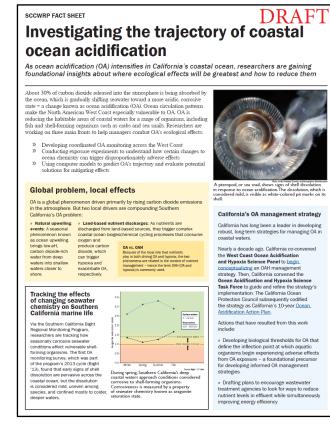
- 2 fact sheets have been drafted for your review today
 - We spend 2-4 quarters working with CTAG on each fact sheet
- CTAG decides when a fact sheet is ready to be advanced to you
 - We have published 8 fact sheets so far



OA fact sheet

- CTAG worked with us over 3 quarters to craft our ocean acidification fact sheet
- Can we get approval today?

OA fact sheet (draft)



Ecohydrology fact sheet

- CTAG worked with us over 2 quarters to craft our ecohydrology fact sheet
- We received a Commissioner request to rework one section
 - We'll bring this fact sheet back to you next quarter

Ecohydrology fact sheet (draft)

scowrp FACT SHEET DRAFT Balancing competing demands on limited flow resources

The science of ecohydrology is helping watershed managers take an informed, integrated approach to setting flow patterns that protect ecosystem health while balancing human uses for flowing water

Humans have made dramatic modifications to how water flow across landcacepes statewide. These modifications bring dinking water and inguino water to communities, power hydroelectric dams, provide cultural and of diverse plant and animal like. But these flow modifications also can harm aquatic ecosystems. Against this backdrop, California's water resources management community is turning to the science of ecolydrology to identify Solutions that balance the many human uses for flowing water with the need to protect ecosystem health.

ecological health is an area of study known as ecohydrology. This relationship, which is

complex and site-specific, is shaped by flow

patterns at a given site over the course of the

year, local topographic and environmental

conditions, and the composition of aquatic life. Watershed managers use the science

patterns are necessary to protect the health

of aquatic life that are sensitive to changes in

of ecohydrology to understand what flow

Flow alterations: A major

source of ecological stress

The wide range of ways that humans have

altered how water flows naturally through

California has become a major source of

ecological stress on waterways - a bigger stressor than common pollutants like heavy metals, pesticides and excess nutrients that

degrade water quality.

flow patterns.

What is ecohydrology? This relationship between flow patterns and



Treated wastewater effluent is discharged into the Los Angeles River from a nearby water reclamation plant. These year-round flows support plant and animal life, but in drought-pro California, there's pressure to recycle some of these discharges for human uses instead.

California Environmental Flow Framework

California uses a standardized scientific approach known as the California Environmental Flows Framework (CEFF) to help managers make decisions about how to allocate limited flow resources that balance both human and ecosystem needs for flowing water.

 Unveiled in 2021, the approach consists of a methodical, multi-step process for determining the magnitude, duration and frequency of stream flows needed to protect ecological integrity, recreational opportunities and other beneficial uses.

Instead of focusing narrowly on a single species at a specific life stage or a single beneficial use that may not be representative of overall costsoft mutchioning. CEFF focuses on protecting the most ecologically significant attributes of a walker body's generated by some mail, in the early spring that support breading and migration. Researchers refer to the range of flow patterns necessary to support sensitive aquatic life and other uses for walters a motionmental flows.

 Among CEFF's key benefits is it gives managers a systematic, structured way to incorporate climate change, changing land-use practices, and changing water-use practices into long-term flow management planning.

Diverting flows via 1211 wastewater change petitions

Altered flows are the No. 1 cause of degradation to aquatic life in Southern California streams, according to foundational work published in 2015 by the Southern California Stormwater Monitoring Coalition (SMC).

As dought-prono California tools fo opportunates to respite and reuse more water, wastewater where a sub-transfer target. But diverting watchmeater contarges can have ecological corresponders - opporting plant and animal file. Tack's why California requires watewater bacterior diros supporting plant and animal file. Tack's why California requires watewater transferred agences and animal file. Tack's why California requires watewater transferred agences. Ecological california direction and animal file. Tack's why California requires watewater transferred agences beer registratory and california direction and animal file. Tack's why California requires watewater transferred agences beer registratory and california directions and the subbegin respirate to the sub-registratory and the sub-registration and the sub-registratory and the sub-registration and the sub-registration and the sub-registration and sub-registration an

Future fact sheet topics

- Our next fact sheet topic is coastal resiliency
 - Do you still want to move forward with this topic?
- Are you still using these fact sheets?
 - We produce these documents because you requested them

Topics for SCCWRP fact sheets (Commission-approved list)

- 1. Rapid beach testing methods \checkmark
- 2. Water-quality modeling \checkmark
- 3. SCCWRP's value √
- 4. eDNA √
- 5. Regional monitoring \checkmark
- 6. Harmful algal blooms √
- 7. PFAS 🗸
- 8. Microplastics \checkmark
- 9. Ocean acidification (today)
- 10. Ecohydrology (today)
- 11. HF183 (in progress)
- 12. Coastal resiliency
- 13. Wastewater-based disease surveillance
- 14. Bioassays
- 15. Eutrophication
- 16. Bioassessment