Redwood Creek Watershed Conditions

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Background
Why Redwood Creek subwatershed?
Why now?

What does the data show?
Conditions are at all-time lows
Estimated water needs exceeds that of surface flow
Water-year alone does not explain observed surface flow

Discussion
The pathway forward
WHY REDWOOD CREEK? WHY NOW?

CULTIVATION
BIODIVERSITY
OBSERVED DATA
LAND USE
INVESTMENTS
POTENTIAL
PAIRING

Coho Salmon
Chinook Salmon
Steelhead
Pacific Lamprey
Western Brook Lamprey
Inland Threespine Stickleback

Foothill Yellow-leggled Frog
Pacific Giant Salamander
Southern Torrent Salamander
Northern Red-leggled Salamander
Tailed Frog
Western Pond Turtle
Boreal Toad

Northern Spotted Owl
White-flowered Rein Orchid
QUESTIONS

1. What are current regional conditions?
2. What is plant need, storage capacity and water availability?
3. Is site or water year significant?
2021 hydrologic conditions

Regional all-time record low flows, second consecutive year

Redwood Creek water deficit

DATA

2021 Observed vs Unimpaired Flow

- Unimpaired flow, all years (USGS-TNC)
- Unimpaired flow, dry years (USGS-TNC)
- Observed flow Redwood Creek (SRF)
2022 hydrologic conditions

Redwood Creek Mean Daily Discharge (cfs)
These are plant-based water need estimates and maximum storage capacity (SWRCB). Water source an extraction timing are not accounted for here.
Estimated water need > surface flow after June 2021
Estimated water need > surface flow August?
Data

3. The role of site and year

Site and year play a significant role in observed flow!
MOVING FORWARD

Outreach and Technical Workshop Events

Compliance Inspections

Continue Monitoring

Granting Opportunities
QUESTIONS & DISCUSSION