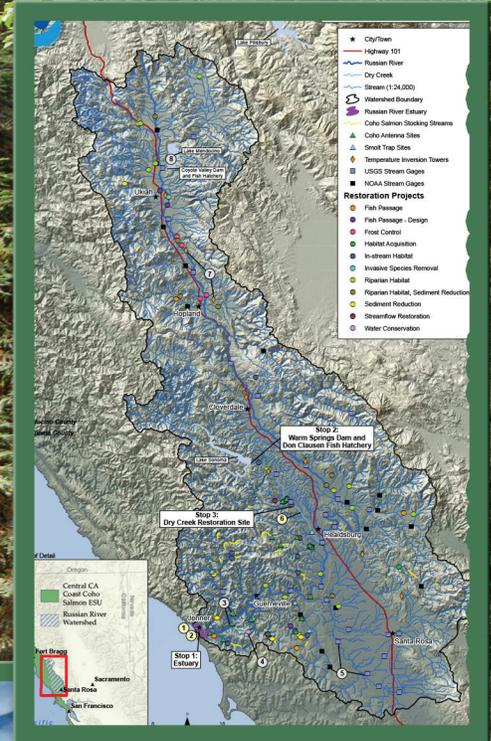


NOAA RUSSIAN RIVER HABITAT BLUEPRINT TOUR AND USACE ANNUAL FISH SQUEEZE

San Francisco, California
2 March 2015

NOAA Administrator Visit to Lake Sonoma
SPN hosted Dr. Kathryn Sullivan (NOAA Administrator) for a luncheon and tour of our Don Clausen Fish Hatchery at Lake Sonoma. The SPN Deputy Commander and the Operations and Readiness Division Chief represented the district (with the SPD Deputy Commander and the SPD Chief of Civil Works Integration), along with leadership from the National Marine Fisheries Service, California Department of Fish and Wildlife, and the Sonoma County Water Agency. Dr. Sullivan was given briefings on the collaborative efforts to recover the endangered Central California Coast Coho Salmon, was given a tour of the fish hatchery operations, and participated in a "fish squeeze" event.



US Army Corps of Engineers
South Pacific Division

NOAA RUSSIAN RIVER HABITAT BLUEPRINT TOUR AND USACE ANNUAL FISH SQUEEZE

3 March 2015

Pictured Left:
MAJ Adam Czekanski, Deputy District Commander, SPN, Cheree Peterson, Chief, Civil Works Integration Division, SPD, COL Eric McFadden, Deputy Division Commander, SPD, and Mike Dillabough, Chief of Operations & Readiness, SPN



The Don Clausen Fish Hatchery was constructed in 1980 to mitigate for the loss of spawning habitat and nursery areas for anadromous salmon and steelhead rainbow trout. This habitat was blocked by the construction of Warm Springs Dam at Lake Sonoma which is located on Dry Creek, a tributary to the Russian River, 10 miles northwest of the town of Healdsburg. Warm Springs Hatchery is 100 percent funded by the U.S. Army Corps of Engineers and we contract with the California Department of Fish and Wildlife's hatchery system to run our Steelhead Hatchery.

The hatchery is one part of the Milt Brandt Visitor Center run by the Corps of Engineers which covers the biological, cultural and anthropological natural history of the Dry Creek Valley. Two hundred thousand people annually visit the hatchery and visitor center.



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3 March 2015

Below: Mike speaking with Joshua Quigley, Senator Boxer's office, Jenny Callaway, District Director for Congressman Jered Huffman, Second District and Eric Waterson, CA Fish & Wildlife.



Above: Migule Nieto and Crew readies BBQ lunch



Mike and Representatives of the Dry Creek Rancheria Band of Pomo Indians



Right: Mike Dillabough and Ben White Lead Biologist for Coho Salmon Program



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NOAA RUSSIAN RIVER HABITAT BLUEPRINT TOUR AND USACE ANNUAL FISH SQUEEZE

3 March 2015

Pictured Left:

MAJ Adam Czekanski, Deputy District Commander, SPN, Cheree Peterson, Chief, Civil Works Integration Division, SPD, Reg Elgin, Dry Creek Rancheria Band of Pomo Indians, and COL Eric McFadden, Deputy Division Commander, SPD



US Army Corps of Engineers, South Pacific Division hosted Dr. Kathryn Sullivan (NOAA Administrator) for a luncheon and tour of our Don Clausen Fish Hatchery at Lake Sonoma. COL Eric McFadden, SPN Deputy Commander and Mike Dillabough, Operations and Readiness Division Chief represented the District, with MAJ Adam Czekanski, SPD Deputy Commander and Cheree Peterson, SPD Chief of Civil Works Integration, along with leadership from the National Marine Fisheries Service, California Department of Fish and Wildlife, and the Sonoma County Water Agency. Event included a hosted BBQ prior to a review and presentation of inter agency efforts to utilize technology to effectively and efficiently manage the Russian River watershed resources, while still providing appropriate flood risk management and conservation efforts to the communities.



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This annual booklet lists a variety of commercial fish stocks. "Traffic" Control booklets like this were used for stocking translocated salmon.

NOAA RUSSIAN RIVER HABITAT BLUEPRINT TOUR AND USACE ANNUAL FISH SQUEEZE

3 March 2015



Above: Dr Kathryn Sullivan meeting Carrie Brown, Mendocino County Supervisor
Below: Meeting Mike Dillabough Dave Manning, Somoma Water Dist., Eric Waterson, Cal F&G



Above: COL Eric McFadden, SPN Deputy Commander and MAJ Adam Czekanski, SPD Deputy Commander meet and speaking with Dr Kathryn Sullivan, Under Secretary of Commerce and NOAA Administrator



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3 March 2015

Right:

Reg Elgin introduces
Chris Wright, Chairman of
the Dry Creek Rancheria
Band of Pomo Indians,
to Dr Kathryn Sullivan,
Under Secretary of
Commerce and NOAA
Administrator



Invited guests and participants included: Grant Davis, General Manager, Sonoma County Water Agency, Efren Carrillo, 5th District, and James Gore 4th District, Sonoma County and Mendocino County Board of Supervisors, Carrie Brown, Mendocino County Supervisor, Sean White, General Manger, Russian River Flood Control District, representatives from Senator Boxers Office, and Senator Feinstein, Congressman Jared Huffman, California Senator Mike McGuire, Representatives from Dry Creek Rancheria Band of Pomo Indians, Eric Larson, CA Dept of Fish & Wildlife Environmental Program Director, several experts from NOAA and local agricultural and wine growing concerns.



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3 March 2015



The Russian River Watershed Habitat Focus Area: An Objective-Driven Effort to Produce Significant Habitat Progress at a "Summit to Sea" Scale

Dr. Sullivan Russian River Summit March 2, 2015

WHY THE RUSSIAN RIVER AND WHY SHOULD NOAA INVEST?

- Habitat restoration needed for ESA-listed endangered coho salmon and threatened Chinook salmon and steelhead populations = **Recovery**
- Competing uses for the River's water = **Observation Technology**
- Communities, businesses and ecosystems subject to frequent and severe flooding/drought = **Coastal Resilience and Environmental Intelligence**
- Active partner / stakeholder

NOAA LINE OFFICES INVOLVED

| | | | | |
|--------------------------------------|--------------------------------|--|-------------------------------|--|
| Office of Atmospheric Research (OAR) | National Weather Service (NWS) | National Marine Fisheries Service (NMFS) | National Ocean Service (NOS) | Program Planning and Integration (PPI) |
| Climate Adaptation and Mitigation | Weather Ready Nation | Healthy Habitats and Fisheries | Resilient Coastal Communities | |

An informed society anticipating and responding to... Society is prepared...

OBJECTIVES: RUSSIAN RIVER HABITAT FOCUS AREA

- Rebuilding endangered coho salmon and threatened Chinook salmon and steelhead stocks to sustainable levels through habitat protection and restoration.
- Improving frost, rainfall, and river forecasts in the Russian River watershed through improved data collection and modeling.
- Increasing community and ecosystem resiliency to flooding and drought through improved planning and water management strategies.

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3 March 2015



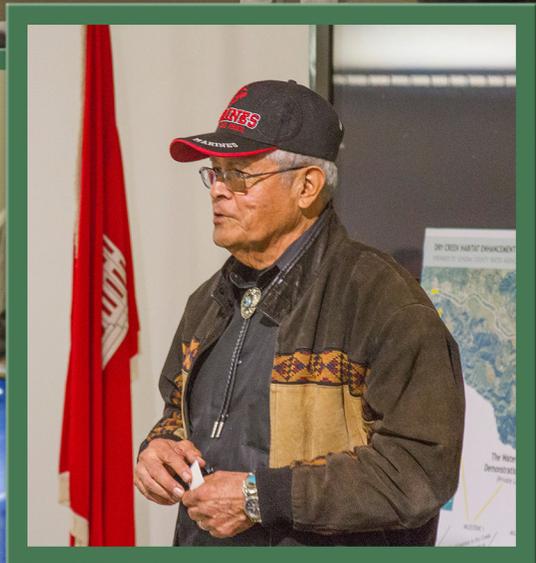
Left: Carrie Brown, Mendocino County Supervisor, Efron Carrillo, 5th District and James Gore, 4th District, Sonoma and Mendocino County Board of Supervisors



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Right:
Dave Manning,
Sonoma County
Water Agency,
Robert "Bob" Coey,
Fishery Biologist
for NOAA and Eric
Larson, California
Fish And Game,
introduced by Mike

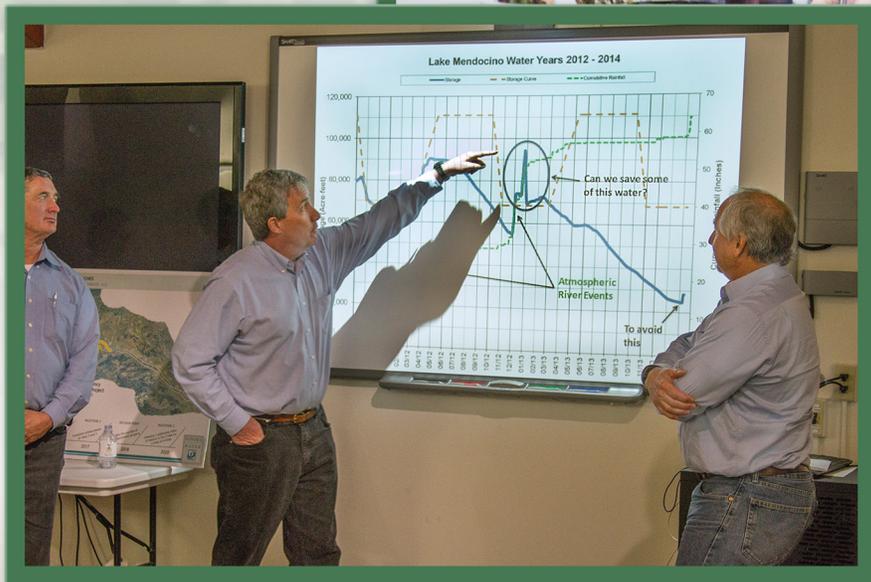


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Left: Carrie Brown, Mendocino County Supervisor, Efron Carrillo, 5th District and James Gore, 4th District, Sonoma and Mendocino County Board of Supervisors far right Dr Sullivan



Below: COL Eric McFadden, Carrie Brown, Mendocino County Supervisor and Cheree Peterson



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Right: The work-stations showing the “calming tank”, actual “squeezing collection stations and holding tanks



Volunteer participants suit up in protective rain gear



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After the volunteer participants suit up, they watch while each fish is netted and placed into a special "calming tank" that allows the fish to reduce stress and be sedate enough to actually handle.



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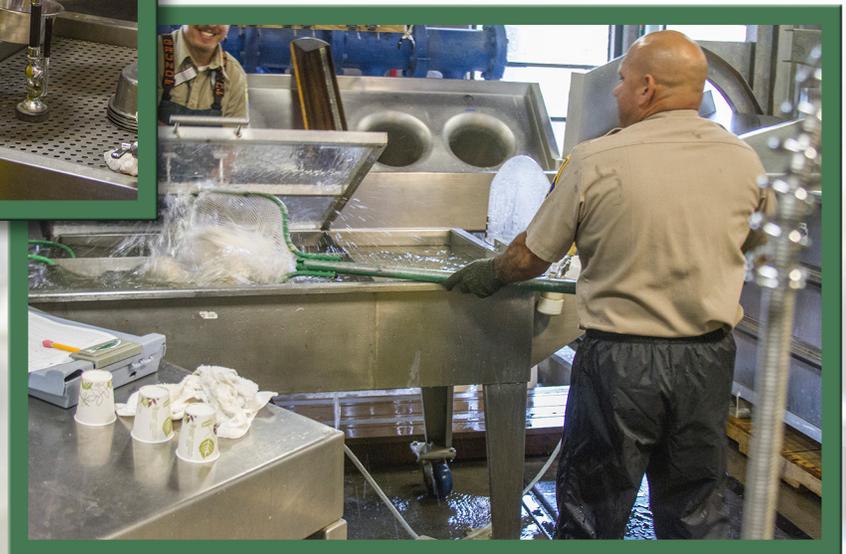
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The fish, the facility and the biologists are all part of a million dollar multi-agency recovery effort set up to restore coho to the Russian River. "In 2001, we knew we needed to start bringing in fish," said White. "We collected a couple 100 fish each year to start our source population here at the hatchery."

They made it three years. By 2004, finding coho in the 1485-square-mile large Russian River Watershed was "few and far between," said White. "We were lucky we started when we did."

It would be the start of the Russian River Coho Captive Broodstock Program at Warm Springs Hatchery, a facility entirely funded by the U.S. Army Corps of Engineers, San Francisco District. "Basically what you see here are the last remaining wild fish of the Russian River Watershed brought into captivity," said White. Coho spawn from December to January. It is during this period that biologists will strip eggs from females, mix them with male sperm and monitor their growth in incubation dishes.

It is the young of this captured source population that is eventually stocked back into the tributaries that historically had coho. This is the beginning of a three-year maturation cycle for coho. "They spend one year in fresh water, two years in the ocean, and then they return as three-year old fish," said White. "Our hope is that these fish return to the same streams that we put them in and spawn on their own. We're not trying to create a hatchery run of fish."

Since its inception, the program has completed six spawning cycles and released nearly 300,000 juveniles back into the Russian River.



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Right:
Danny Garcia,
Darrick Muir,
Ellen McKenna
and Kaley Vincent
with the California
Fish & Wildlife
Department
managing the
Steelhead Hatchery
Program.



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Coho Broodstock Program



Group tours the sheltered raising tank where the young fingerlings are allowed to grow and reach suitable size and strength to be re-introduced into their native habitat. The facility also houses the rotating adult broodstock which are released as they mature.



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Design & Photography: Larry Quintana, JG196, USACE-IT



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