INTERPRETATION IS MORE THAN JUST “FLUFF”

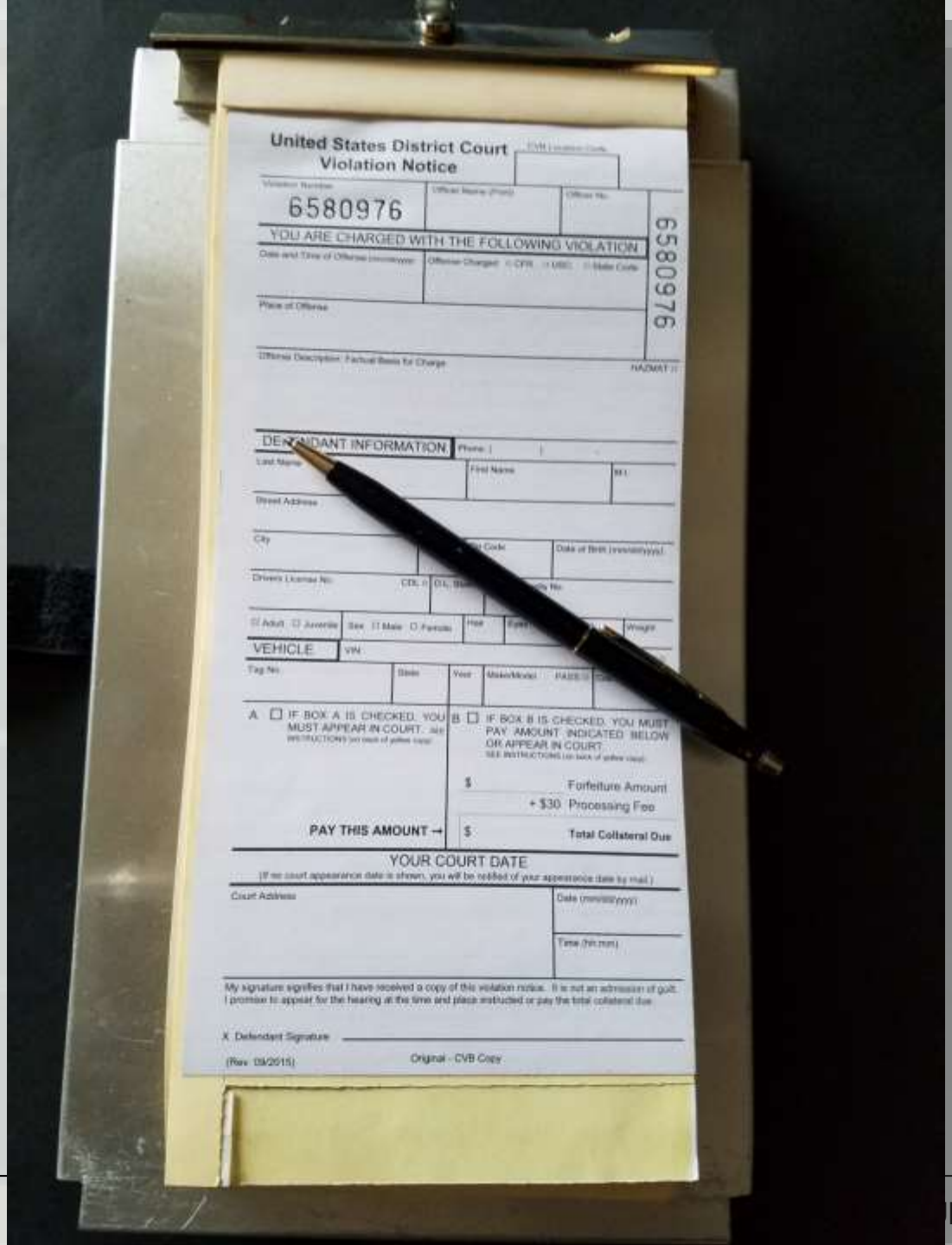
Karla Zeutenhorst

Park Ranger

Gavins Point Project / Lewis and Clark Visitor Center

NRM Workshop – April 18, 2017

BUILDING STRONG®


United States District Court
Violation Notice
6580976
YOU ARE CHARGED WITH THE FOLLOWING VIOLATION
6580976
DEFENDANT INFORMATION
VEHICLE
A. IF BOX A IS CHECKED, YOU MUST APPEAR IN COURT.
B. IF BOX B IS CHECKED, YOU MUST PAY AMOUNT INDICATED BELOW OR APPEAR IN COURT.
Forfeiture Amount
+ $30 Processing Fee
PAY THIS AMOUNT →
Total Collateral Due
YOUR COURT DATE
Court Address
My signature signifies that I have received a copy of this violation notice. It is not an admission of guilt. I promise to appear for the hearing at the time and place instructed or pay the total collateral due.
X Defendant Signature
(Rev. 09/2015)
Original - CVB Copy


US Army Corps
of Engineers


there is no poop fairy!
Please clean up after your pet
• Dog waste does not biodegrade like wild animal waste; it sticks around a long time.
• It contains harmful bacteria, pollutes groundwater and smells disgusting.
• Help keep parks and trails free of poop by picking up your pet's waste and disposing of it properly.
SANTA CLARA COUNTY PARKS
County ordinance requires cleanup of pet waste (Sec. B14-34.1(C))

What is Interpretation

- The Corps defines interpretation as:

Communication and education processes provided to internal and external audiences, which support the accomplishment of Corps missions, tell the Corps story, and reveal the meaning of, and relationships between natural, cultural, and created environments and features.

Isn’t Interp Just “Fluff”?

- Outreach and problem solving
- Building partnerships out of our relationships with the public
- Positive community relations

Value of our Programs

- People don’t know the value of what we do
- This includes people in the Corps or at our own projects

Value of our Programs

- Protection of life and property
- Economic
- Social
- Quality of Life
- Intangible

Value of our Programs

- Before our communities will embrace the values of our program
- They must be aware of us as an agency
- They won't if we don't communicate with them

Interpretive Goals

Thanks to Brian Westfall letting me use parts of his Interpretive Services presentation.

Interpretive Goals

- To achieve management objectives using interpretive techniques
- To provide environmental education to foster stewardship of natural, cultural and created environments

Interpretive Goals

- To incorporate Corps civil works and military missions into interpretive programming
- To improve visitor and employee safety using interpretive techniques

Interpretive Goals

- To use environmental education, partnerships, career development, recruitment and special programs and events to encourage students to pursue careers in math and science.

http://www.usace.army.mil/STEM

How do I Support a STEM Awareness Program?

- Identify a school or desired STEM Awareness Program site (location/region) where you would like the program to take place
- Determine the type of STEM Awareness Program desired and period of performance for program
- Contact the USACE Sacramento District (SPK) Contracting POC – who issues the call
- Issue MIPR after call is negotiated (See MIPR SOP)
- SPK issues a call upon receipt of funding (See BPA SOP)
- BPA cost per "Call" (Plus per diem based on JTR)
  - STEM Awareness Program - $17,000
  - STEM Community Events/Fairs - $13,700
  - Science Fair (one day, 100 Students) - $12,300
- GMiS coordinates the STEM Awareness Program and includes federal agency
- GMiS conducts your STEM Awareness Program

Timeline

- Timing is key – There are approximately 27 weeks between September and June that are optimal for programming during the academic school year
- If a relationship needs to be established with a school, an event could take up to three months to coordinate
- Coordinating a STEM Awareness Program can be quicker with schools that have already benefited from a previous program
- School and federal agency schedules must be coordinated when planning a STEM Awareness Program

USACE Contracting Contact Information

Angela Hermanson
Contracting POC
USACE Sacramento District
1325 J Street
Sacramento, CA 95814-2922
Tel: (916) 557-7945
E-mail: angela.hermanson@usace.army.mil

Blanca Roberts
Program Manager POC
USACE Headquarters
441 G. Street, NW
Washington, DC 20314-1000
Tel: 202-761-8688
E-mail: blanca.o.roberts@usace.army.mil

Blanket Purchase Agreement (BPA) available for all Federal Agencies Managed by the U.S. Army Corps of Engineers

National STEM Awareness Program

Promoting Awareness of Opportunities in Science, Technology, Engineering and Math (STEM) among Underrepresented Students

Interpretive Goals

- To enhance visitor's experience and enjoyment by anticipating their needs providing interpretive resources to meet those needs

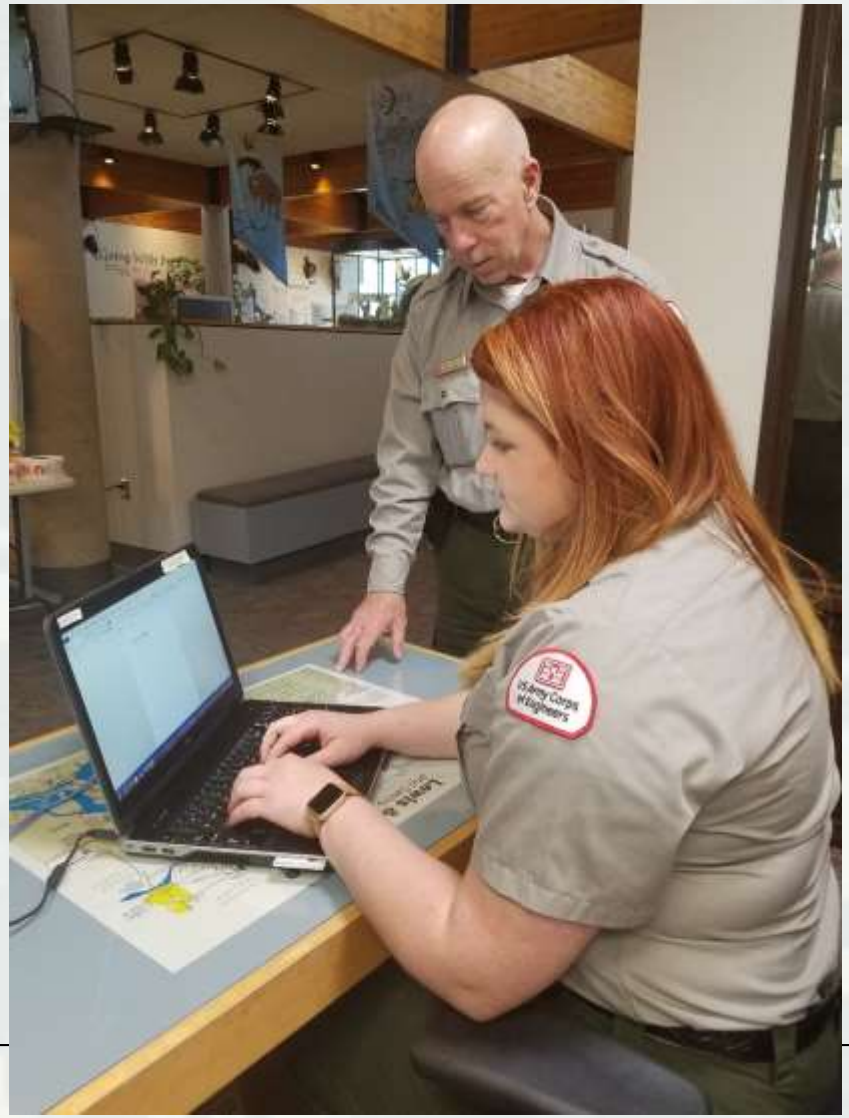
Where Do We Start?

Behavioral Objectives

Brainstorming

Cost to Visitor Ratio

Bring it to the Boss



Examples

Printables


Anglers & Boaters
Help Slow the Spread of
Zebra Mussels at
Lewis & Clark Lake
ALERT!
Help Stop the Spread of
AQUATIC
INVASIVE SPECIES
Zebra Mussels
Nebraska Invasive
Species Project
ANGLERS & BOATERS
PULL YOUR PLUGS
IT'S THE
LAW
SOUTH DAKOTA
Game, Fish & Parks
THE LAWS HAVE CHANGED
LEARN THEM.
SDLEASTWANTED.COM
The 100th Meridian Initiative
ZAP
THE
ZEBRA
E SPREAD OF ZEBRA MUSSELS
eport any sightings by calling
1-800-437-2744


WOW! What an embarrassing way to go.
Don't let a fall overboard put you under.
Nearly 90% of drownings on Corps of Engineers lakes could have been prevented had the victim been wearing a life jacket.
US Army Corps of Engineers
Be safe. WEAR a life jacket.
http://watersafety.usace.army.mil/

US Army Corps of Engineers
Portland District

Anglers - Leave No Trace

Know Before You Go

Know the regulations and special concerns for the area you'll visit.
Recreation hours vary seasonally. Be prepared!
Bring supplies for extreme weather, hazards, boating and emergencies.

Pack It In, Pack It Out!

Take all trash and food with you when you leave- there are no garbage services in this area!
Inspect your area for any trash or spilled foods.

Leave It As You Find It

Walk or bike on designated trails only.
Use only authorized fishing access trails. Leave rocks, plants and other objects of interest as you find them.
Avoid introducing or transporting non-native species.

Be Careful with Fire

Fires are allowed in grills only- no open fire pits!
Don't bring firewood from other areas as it can harbor tree killing insects and diseases. Many states regulate the movement of untreated firewood.

Keep Wildlife Wild

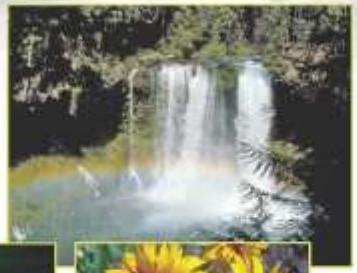
Observe wildlife from a distance and never approach, feed or follow them. Human food is unhealthy for all wildlife and feeding them starts bad habits.

Share Our Trails and Manage Your Pet

Keep your pet under control to protect it, other visitors and wildlife.
Listen to nature. You will see more wildlife if you are quiet and remember, other visitors are there to enjoy the outdoors too!






leave no trace
CENTER FOR OUTDOOR ETHICS

BUILDING STRONG®

Zebra and Quagga Mussel Sightings Distribution

Dreissena polymorpha and D. rostriformis bugensis

- Zebra mussel occurrences
- Quagga mussel occurrences
- Zebra or Quagga mussel occurrences
- Both species occurrences
- Zebra/Quagga mussels eradicated
- Zebra/Quagga mussels failed

Map produced by the U.S. Geological Survey
Nonindigenous Aquatic Species Database, February 27, 2017.

US Army Corps of Engineers ®

Omaha District

Anglers & Boaters

Help Slow the Spread of Zebra Mussels at

Lewis & Clark Lake

These small invaders can completely clog pipes and water intakes and their sharp shells can make beaches dangerous for bare feet. They are filter feeders and may directly compete with forage fish and small game fish for food.

Each female mussel can produce over 1 million offspring per year. Mussel larvae, called veligers can survive in trace amounts of water in a boat for up to 30 days!

Reproducing colonies of Zebra Mussels have been found throughout Lewis & Clark Lake and the Missouri River below Gavins Point Dam. Without your help the may quickly spread to new waters in South Dakota and Nebraska.

How Can You Help?

- **Clean**

  Remove all vegetation from water-related equipment after each use and regularly power wash your boat and trailer with hot water.

- **Drain**

  Open or remove all drain plugs when your boat is not in the water.

- **Dry**

  When possible, allow your boat to fully dry for at least five days.

- **Dispose**

  Always place unused bait in the fish grinder and dump water from your bait bucket or livewell on dry ground before leaving your fishing area.

For more information visit:

SD LEAST WANTED .COM

or

www.neinvasives.com

US Army Corps of Engineers

NEBRASKA Invasive Species Program

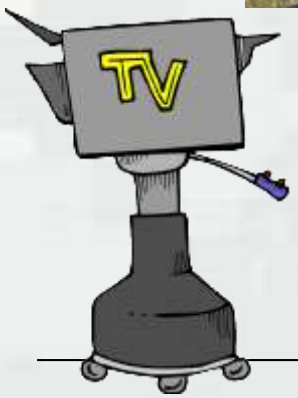
Direct Contact

Public Programs / Outreach


US Army Corps
of Engineers

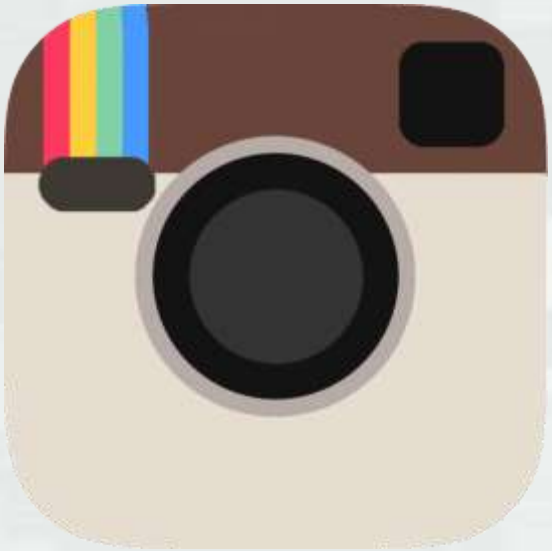

Natnal Public Lands Day
TOYOTA

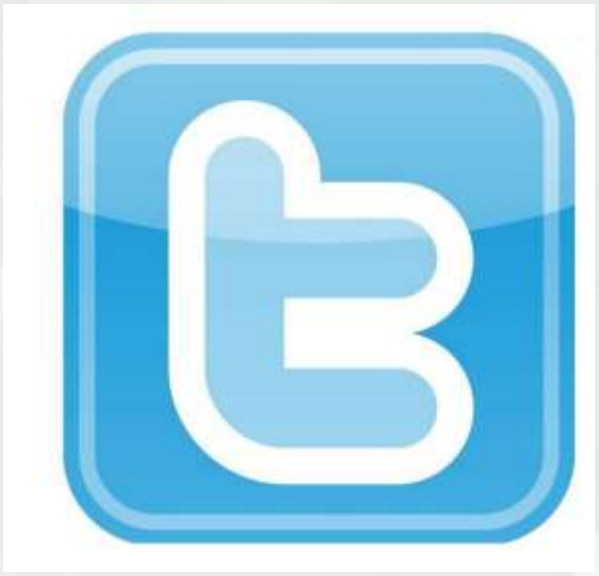
Media


TV


NEWS


You
Tube





Coho Salmon Project

Experiencing interruptions? Find out why

Collaboration at its Best: Saving the Central Coast California Coho Salmon


COHO
THEATER

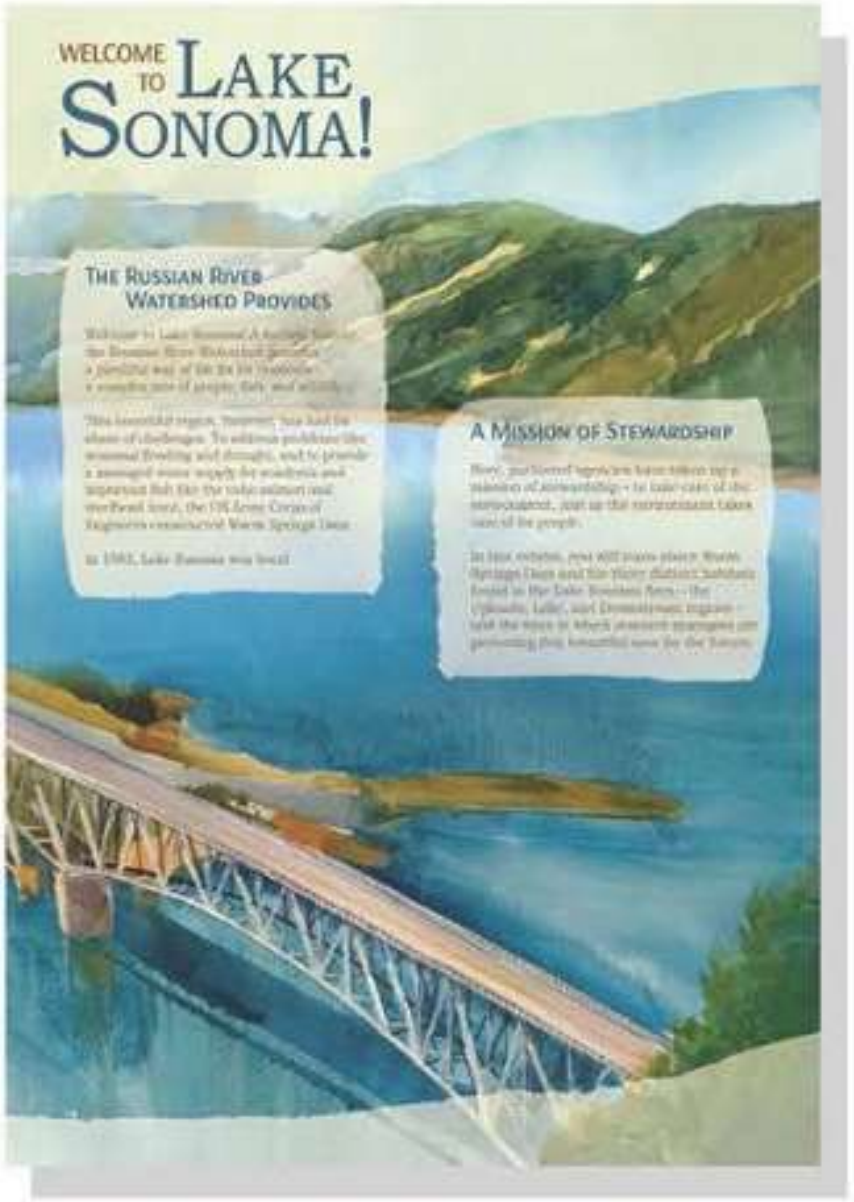
Experiencing interruptions? Find out why

Collaboration at its Best: Saving the Central Coast California Coho Salmon

Displays / Exhibits


THE
UPLANDS
REGION
A Golden Patchwork
Challenging Hikes
A Native Habitat
Peregrine Population Problem –
A Restoration Effort
A Successful Swap

156 in (13')


WELCOME TO LAKE SONOMA!
THE RUSSIAN RIVER WATERSHED PROVIDES
A MISSION OF STEWARDSHIP
54 in (4.5')
38 in (3'2")

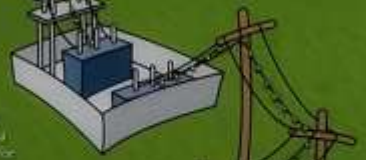

Hydropower
Water Supply
Flood Damage Reduction
Fish and Wildlife
Navigation
Recreation
Irrigation
Water Quality
CORPS MISSIONS on the MISSOURI RIVER

Where DOES the POWER GO?

Gavins Point Powerplant generates enough electricity for 30,000 households—but that does not mean 30,000 homes are hard-wired to the powerplant. Where does the power go?

First stop: the switchyard next to Gavins Point Powerplant, where electricity is distributed to 115,000-volt power lines.

Long-distance lines carry the current to the regional power grid. The grid combines electricity generated by many different sources—including other hydropower plants, coal plants, and nuclear plants—and distributes it across a broad area.



Somewhere within the service area, the current is drawn off the grid at a local substation and stepped down for residential and commercial use.

Utility poles distribute the power to households.

Wayside Signs


The love for all living creatures
is the most noble human attribute.
Charles Darwin
Do Not Disturb
Oct. 1 - April 30

Kaloko-Honokōhau National Historical Park

National Park Service
U.S. Department of the Interior

Maliu Point Resource Area

You are entering an area sacred to the Hawaiian people, a place deserving of our respect and protection. To protect important cultural resources, the following regulations apply in the Maliu Point Resource Area.

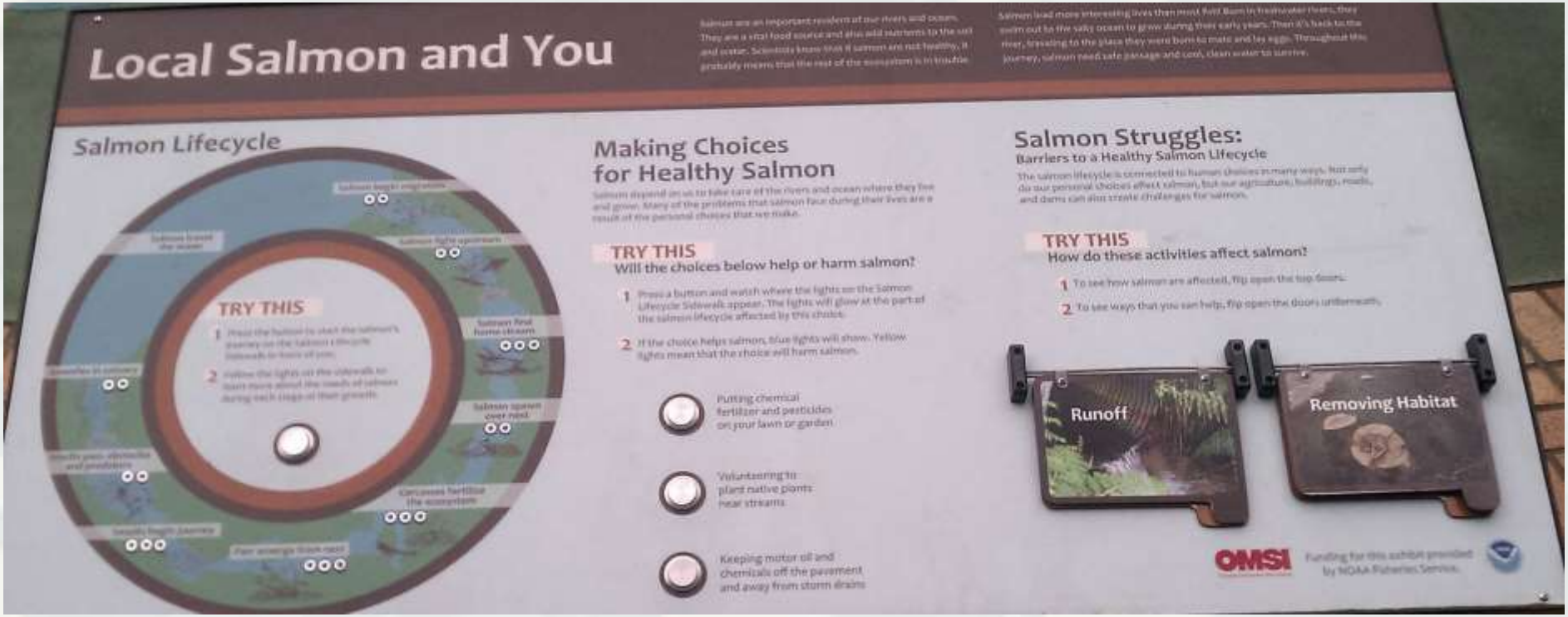
No sunbathing
(towels, beach chairs and beach mats are prohibited).

No throwing or tossing games.

No picnicking (coolers are prohibited).

No entry into areas marked with KAPU (sacred) signs.

Mālama i nā mea kahiko – care for the things of the past.
Once altered they are gone forever.


Local Salmon and You
Salmon are an important resident of our rivers and ocean. They are a vital food source and also add nutrients to the soil and water. Scientists know that if salmon are not healthy, it probably means that the rest of the ecosystem is in trouble.
Salmon lead more interesting lives than most fish! Born in freshwater rivers, they swim out to the salty ocean to grow during their early years. Then it's back to the river, traveling to the place they were born to mate and lay eggs. Throughout this journey, salmon need safe passage and cool, clean water to survive.
Salmon Lifecycle
TRY THIS
1 Press the button to start the salmon's journey on the salmon lifecycle sidewalk in front of you.
2 Follow the lights on the sidewalk to learn more about the needs of salmon during each stage of their growth.
Salmon begin migration
Salmon travel the ocean
Salmon fight upstream
Salmon find home stream
Salmon spawn over nest
Carcasses fertilize the ecosystem
Young begin journey
Fish emerge from nest
Making Choices for Healthy Salmon
Salmon depend on us to take care of the rivers and ocean where they live and grow. Many of the problems that salmon face during their lives are a result of the personal choices that we make.
TRY THIS
Will the choices below help or harm salmon?
1 Press a button and watch where the lights on the Salmon Lifecycle Sidewalk appear. The lights will glow at the part of the salmon lifecycle affected by this choice.
2 If the choice helps salmon, blue lights will show. Yellow lights mean that the choice will harm salmon.
Putting chemical fertilizer and pesticides on your lawn or garden
Volunteering to plant native plants near streams
Keeping motor oil and chemicals off the pavement and away from storm drains
Salmon Struggles:
Barriers to a Healthy Salmon Lifecycle
The salmon lifecycle is connected to human choices in many ways. Not only do our personal choices affect salmon, but our agriculture, buildings, roads, and dams can also create challenges for salmon.
TRY THIS
How do these activities affect salmon?
1 To see how salmon are affected, flip open the top doors.
2 To see ways that you can help, flip open the doors underneath.
Runoff
Removing Habitat
OMSI
Funding for this exhibit provided by NOAA Fisheries Service.

Rogue River Basin Project

US Army Corps of Engineers Portland District

COLD WATER CAN KILL

Hot weather doesn't mean the river water is warm. A life jacket can save you from the effects of cold water year-round.

Current Temperatures (F°)

Air Temperature	Water Temperature

River water can remain dangerously cold all year

Cold Shock

The moment you fall in, the sudden cold can cause a gasp reflex, making you inhale water and drown quickly. Other cold shock responses include difficulty swimming and holding your breath, and dangerous heart rate and blood pressure leading to fainting or even heart attack.

Hypothermia

After a few minutes in cold water, a drop in core body temperature can lead to confusion, dizziness, or fainting, the effects of hypothermia. Wearing a life jacket can keep you warm and gives you time to catch your breath, stay afloat, and get help.

Tying it all Together

- Interpretation isn't all just "birds and bunny" programs
- It's a tool we can use to help us do our jobs
- A way to get the visitor to care about and protect our resources

Questions?