

Keep our water clean! Avoid spilling gasoline, oil, soap,

Pick up litter, including worn line, old hooks, and trash that other people dropped.

recycle to save water and energy and prevent pollution. Reduce how much you buy, reuse old containers, and

Take the Ethical Angler pledge to be respectful when you're fishing (www.boatus.com/angler/survey.htm)

1. 4 2. 500 3. 2 4. 2,000 5. 16.5 6. 60,000 7 35 8 400 60,000 7. 35 8. 100 9. 1 10. 100

saving Water

Tell your friends and family how they can help protect salmon and steelhead habitat.

Fortunate or Unfortunate

2. Unfortunately, rain from a huge storm ... 3. Fortunately, there were lots of trees ... 4. Unfortunately, when Flo was still really young ... 5. Fortunately, schools put labels on the drains ... 6. Unfortunately, just after she got to the ocean ... 7. Fortunately, the people used the Circle Hook ... 8. Unfortunately, it hadn't rained very much that fall ... 9. Fortunately, people living upstream ... 10. Unfortunately, other people built a dam ... 11. Fortunately, the dam was small enough ...

## salmonid Savers is brought to you by the following organizations:



Southwest Regional Office http://swr.nmfs.noaa.gov U.S. Department of Commerce, NOAA-National Marine Fisheries Service

Mission: Stewardship of living marine resources through science-based conservation and management and the promotion of healthy ecosystems.

want more

Mission: Protecting and preserving our nation's living marine resources and their habitat using outreach, education www.weneedflow.info

NOAA Office for Law Enforcement, Long Beach Regional Office

NOAA Office for Law Enforcement



resources, and the habitats upon which they depend, for their www.dfg.ca.gov ecological values and for their use and enjoyment by the public Mission: To manage California's diverse fish, wildlife, and plant

www.riverteachers.org and www.yubariver.org South Yuba River Citizens League (SYRCL) RiverTeachers Program Mission: To deepen students' understanding of ecological

of fun, educational experiences. develop their role as watershed stewards through a wide array principals, foster their connection with their watershed, and

> River Teachers Program Nevada City, CA 95959 (530)265-5961 ×204 /ww.riverteachers.org (530)265-6232 fax 216 Main Street Contact SYRCL's (cobjects)

A special thank you to Sandra Lowry, Yurok basketry design on 'Catch of the Day.' for the story and

This booklet was printed on 30% recycled paper

written & illustrated by Carlyle Holmes & Kathy Dotson (SYROL) Up the Creek without a Paddle Fortunate or Unfortunate? What are Salmonids?! You can be a saver! Catch of the Day Go with the Flow!

0

Race to the Redd



## acts

steelhead like the redwoods You can find of Northern California to California dry lands in Flo all over California Southern from the

different animals eat Over 137 salmon and kinds of

SWELLING

VA ISH MILES AWAY

THE WATER?

FROM HUNDREDS OF

IN FRESHWATER STREAMS AND

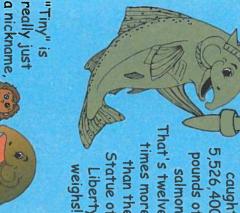
ANADROMOUS FISH ARE BORN

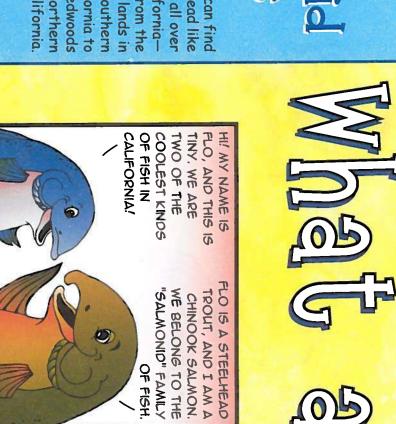
AND FIND OUR WAY HOME

steelhead

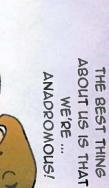
In just one Statue of pounds of Liberty

That's twelve in California year, people times more 5,526,400 than the caught salmon.









TINY, THEY DON'T LOOK

IMPRESSED











TO GROW UP. THE OCEAN THE WAY DOWN TO RIVERS, BUT THEN SWIM ALL

GROWING, WE SWIM ALL THE WAY BACK WHEN WE'RE DONE UPSTREAM TO THE SAME PLACE WE TALK ABOUT WERE BORN. MUSCLES!



THE BLUEWATER WE'RE CALLED CONNECTION WHITEWATER (OCEAN) TO THAT'S WHY (RIVERS)



THERE WERE MILLIONS OF STEELHEAD AND SALMON SWIMMING UP THE RIVERS IN CALIFORNIA EVERY FALL ....

was 129 pounds!

caught

ever

salmon the largest because

IN MANY PLACES AN "ENDANGERED SPECIES"

DISAPPEAR JUST LIKE THE DINOSAURS DID DON'T TAKE PEOPLE ARE THAT MEANS CARE OF US, WE MIGHT WORRIED THAT IF THEY

THAT'S WHY WE NEED YOUR HELP!



AN EXPERT ON HELPING US SURVIVE BECOME A SALMONIO THIS BOOKLET WILL HELP YOU SAVER -

#### Seramble Mord

Unscramble the words below to complete the sentences Check these two pages for clues.

Fish that are born in the ocean and back are treshwater, but swim to called (radanusmoo.)

2 Salmon and steelhead disappearing, so they are in danger of are called

(eddeeangrn escispe.)

3. Salmon and steelhead connect the whitewater connection. (eriry), so they're called (nceoa) to the the bluewater to

4 Salmon and steelhead are so strong that they can Jump over

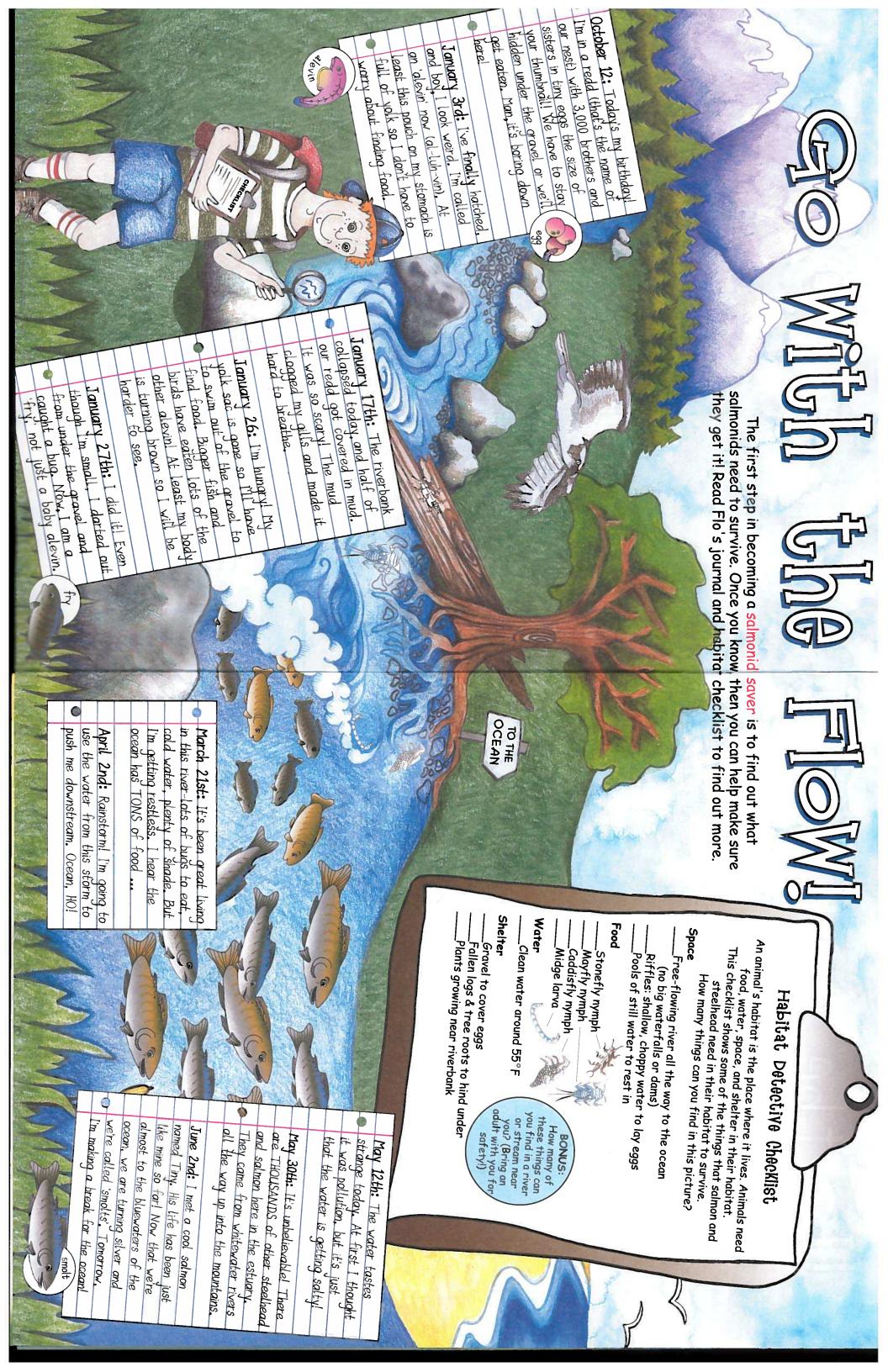
(trllfsaawe.)

5. People who help salmon and steelhead are called

(dmsliano aevssr.)

### You Know?

their home streams. That's 72,400 miles to get back to Some salmonids swim over California to Hawaiil like swimming from





## A Salmonid Timeline

and saw Native American tribes catching salmonids for food and clothing. 1500s: European explorers came to California

changed things for 1805: Lewis and Clark and timber clear cuts radically fur trade, gold rush, railroads, by Native Americans, but the plentiful due to careful fishing salmon. Salmonids were still Northwest with a meal of were welcomed to the Pacific

NORTHERN CALIFORNIA STORY FROM THE FOR SALMONIDS THAT SHOWS HOW TO HAVE HEALTHY IMPORTANT IT IS YUROK TRIBE IN TERRE IS A RIVERS.





Savers all over California

TODAY: Salmonid

are a resource for everyone and are held in a Public Trust. This means that people have developed to Ever since people have been in California, salmonids have been an important source of food. Salmonids to take care of them for future generations. Check out the timeline and story to see some of the ways that people take care of the fish AND what happens when they forget. ways



(pronounced woh-gay). There were no people at all—only spirits called woge In the beginning, the world was a very different place.

He gave them examples of the things they might be, how they whatever they wanted to be to help the Yurok in this new world. might look, and what their jobs might be. mao-called all the woge together. He told them it was time to fill food. Wah-pec-ah-mao told the woge that they could each choose the world with people and to give them trees, rocks, water, and the Great Spirit-whose name was Wah-pec-ah-

people forever. So Oregos decided to become that rock. ah-mao told her that if she chose to be a rock at the mouth of the Klamath River, right where it meets the ocean, then she would have a chance to help One of the wage was called Oregos, and she wanted to help people. Wah-pec-

job of Oregos was to guide the fish so the Yurok would have lots of salmon to heavy loads to honor the Yurok women's qualities of hard work and caring. The dry and smoke for their winter food She turned into the image of a woman with a basket on her back for carrying

the river to the spawning grounds where they were born. the sea. They go straight to Oregos to find out if it is safe for them to go up Every fall, when the maple leaves begin to turn red, the salmon return from

dams cut

water. But the dams to store People built

rivers, changing the habitat and

killing salmonids.

cannons to blast the hills and

1848: Gold Rush! Gold miners used water

find gold. Soil washed into

from their

salmonids off

salmonids today. these dams still affect drastically. Many of

CANNERY

that huge piles of

caught so many fish bank to bank, people

of eggs, were left salmon, many full stretching fishing nets from

cannery opened on the 1863: First salmon

Sacramento River. By

water flows and temhome rivers and altered

peratures in rivers

or covered with mud. She knows how many bear, otter, and eagles might try deep the water is and whether the river is blocked by dirt or rocks or fallen trees. She knows whether the gravel where the salmon lay their eggs is clean fish—not just salmon, but steelhead, eels, candlefish, trout, and sturgeon. rains will come. It is her job to know about everything that will affect the to harm them as they swim up the river. And she knows exactly when the Oregos knows every stream, the big ones and the small ones. She knows how

making it easier for the fish to swim. When the conditions are just perfect, Oregos tells the fish that it's time. their spawning grounds, their silver As the salmon gather around Oregos, the rains Happily, they dash upstream to bodies flashing in the light. come and fill the streams

and cleaning rivers

Oregos has helped the fish get back

home once again.

river meets the ocean, still can see Oregos where the the fish they depend on Yurok people by guiding for food. If you go to the anyone can remember Klamath River today, you Oregos has assisted the For as many years as

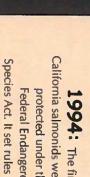
guiding the fish home

salmon and steelhead. are working to help 2002: 34,000 salmon died on the Klamath River in Northern California because the water was too hot and they got sick. There is still work for Salmonid Savers like you!

Others helped Salmonids blocking salmonids from replanting trees, creating 25 miles of river habitat. Butte Creek near Chico, by restoring riverbanks, spawning sanctuaries, California, that were removed 2 dams on 1999: People



1994: The first



California salmonids were limit harmful activities like removing too much water Species Act. It set rules to rivers, over-fishing, and clear-cutting trees near Federal Endangered protected under the

1884: Mining with water cannons was

WILD & SCENIC

made illegal. Clean water flowed once again, and fish could breathe and grow strong! States Congress created 1968: The United salmonid rivers from the Wild and Scenic protects important Rivers Act, which



**Environmental Protection** Later that year, the Agency (EPA) was

new dams.



Clean Water Act to protect water quality and keep 1977: The United States Congress passed the our rivers clean.



#### Habitat

ocean. Anything that hurts our rabitat, by putting pollution or Our habitat is the place we mud in it, or by taking too live, from streams to the much water out of it, Destruction can really hurt us.

## Hydro (Dams,

to swim home. water in the river Flo needed lots of

much that fall, and

hadn't rained very Unfortunately, it

fall down over the dam on their reservoirs, and our babies will way to the ocean. Not all of Even with fish ladders, Tiny and I can't get back With a dam in the way, we can get lost in the upstream to spawn. them will survive.

#### Harvest.

fish and don't follow fishing When people catch too many regulations, there aren't enough of us left to lay eggs for next year.

dam was small

Fortunately, the

enough that people

built a fish ladder

## Hatcheries

get back upstream

and Flo was able to around the dam,

and dig her very

own nest.

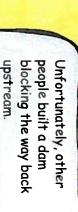
do ensure high survival of fry grow up) to replace habitat blocked by dams. Hatcheries diseases and fight with wild but hatchery fish can spread buildings where salmon can People build hatcheries fish for food.

# OPIGMAIG G

One day, Flo's parents made a lovely nest in her with gravel, to keep her safely hidden. eggs. Fortunately, Tiny's parents covered the gravel and had 3,000 steelhead trout



Will Flo and Tiny's the story in order fate be fortunate Put the pieces of The first piece is or unfortunate? done for you. to find out.





Unfortunately, rain from headed right towards landslide, and the mud a huge storm made a Tiny's nest!



#### waste water, and being careful not to river for Flo. water in the they left enough Fortunately, people living upstream were WATER stopped the mudslide, stream. The tree roots lots of trees near the Fortunately, there were d Flo was able to hatch



HHE

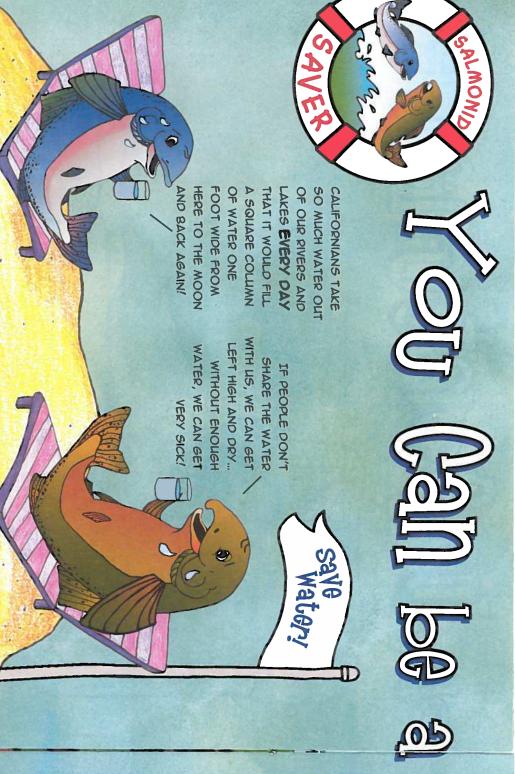
they released her without hurting her. She before heading back upstream to lived in the ocean for two whole years ortunately, the people used a Circle Hook, and

make a nest of



Flo grew bigger and started to labels kept the water clean, so pollution on the street. These telling people not to dump put labels on the drains Fortunately, schools swim to the ocean.





# You can help! Guess how much water you can save by...

(Match each number with the correct sentence)

1. Turning off the faucet while you brush your teeth. Save gallons per brushing

2. Finding and fixing leaky toilets. (Put food dye in the tank, wait 15 minutes, and see if it turns your

3. Taking a shorter shower. Save gallons per minute.

toilet water blue. If it does, you have a leak!) Save up to

gallons per year

2,000

16.5

100

- 4. Washing only full loads in your washing machine and dishwasher. Save gallons per year
- 5. Drinking a glass of water instead of a can of soda. Save gallons per glass.
- 6. Using recycled paper instead of non-recycled paper. Save gallons per ton of paper.
- 7. Using a broom to clean the driveway (not a hose.) Save. gallons in 5 minutes
- 8. Washing your car with a bucket of water instead of a hose (or take it to a car wash that recycles

500

- their water). Save gallons for a 15 minute wash.
- 9. Putting plastic bottles filled with water in your toilet tank. Save. gallons per flush
- 10. Watering your lawn at night (instead of when the sun is out). Save up to watering. gallons per

100

Most people use 160 gallons of water every day. That doesn't even include all of the water that we use to grow

our food and to make things like paper, clothes, and cars. Be a Salmonid Saver, and use less water!



THE ONLY THING YOU CAN CONSERVING WATER ISN'T DO TO PROTECT OUR HABITAT!

Cross out the letters to find out what else you can do to become a salmonid saver. and C

gajsozline, qoil, soqap jor zotxhejr pxollqutaznts Xkejezp ozur qwzatxer cljezan! Javozid spzqilljing waqtezr zor jon jlanxd zin tqhe

Opzick jup lizttger, zingcludjing zwojrn glizne, jold hoxojks gand jtrxaszh txhazt zotaher pezopale jdroapped.

cojntazingers, jaznd grecjyxcle toz sajvxe wajtger xajnd Zrejduące hozw jmuzch yoqu bquy, zrejuse jenexrgzy zanjd pxrejvegnt pxollqutzijon ploz

Qtajke thjex Ejthixcaql Aqngljer pljeqdge tox bze qrejspecxtfuql whxejn yjoqu'rxe fjixshiqng (www.boatus.com/angler/survey.htm)

hqejlp prjoxteqct saxljmozn zand stjexelhqeazd hzabjitqat Jtejll yjoqur fxrijenqds xajnd fjaxmqily hozw jthxey cxan



SOAP 윤 You Know? KEEP THE **CLEAN!** RIVER

only two salmon will survive to lay In a nest of 3,000 salmon eggs, eggs of their own

