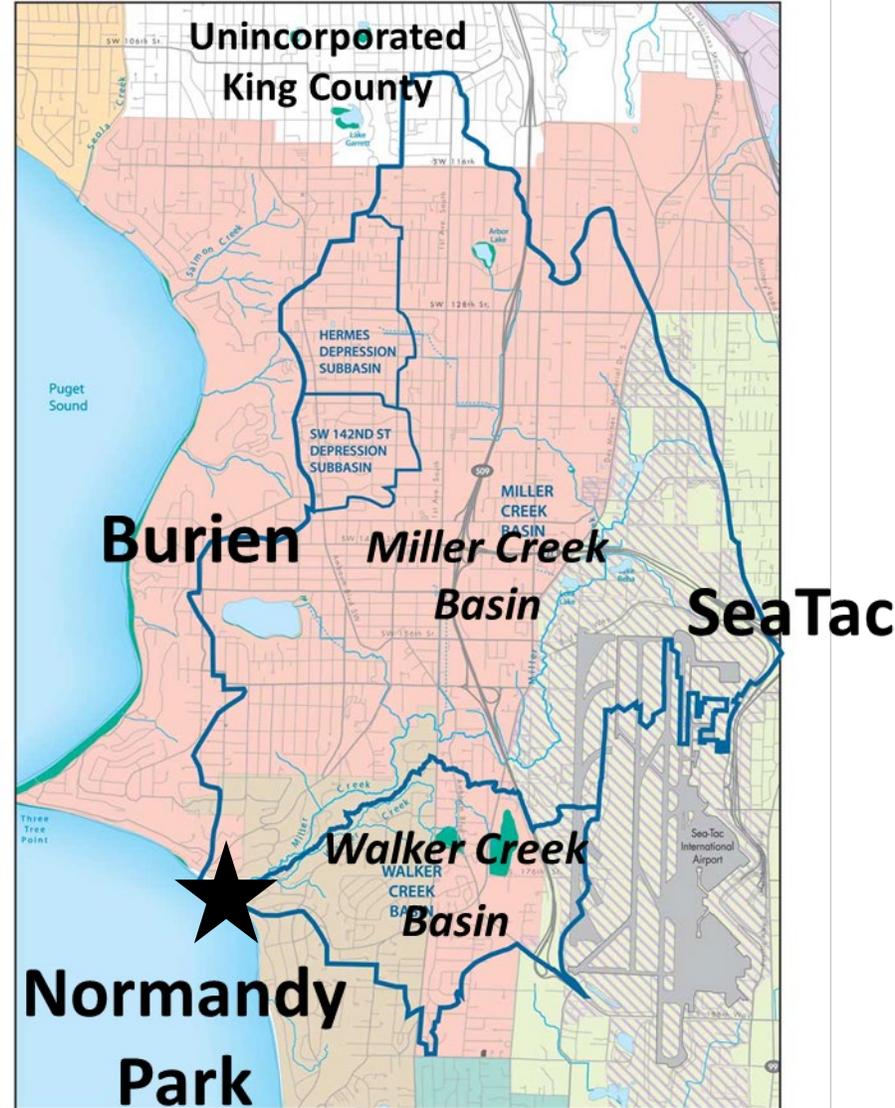




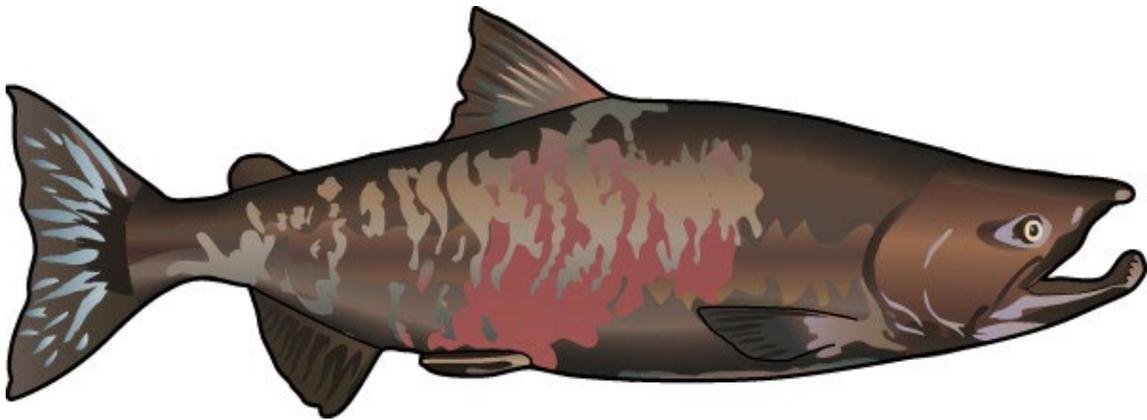
Miller-Walker
Community Salmon
Investigation

2022 Results

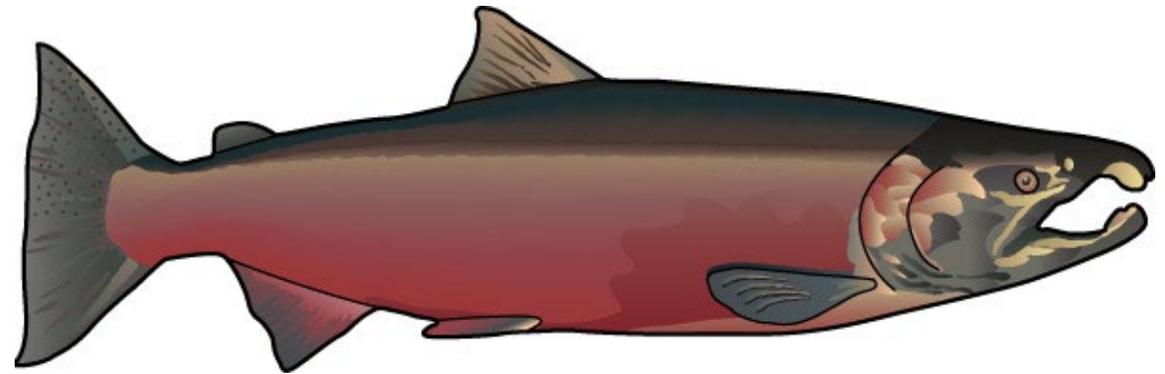
Miller-Walker Basin



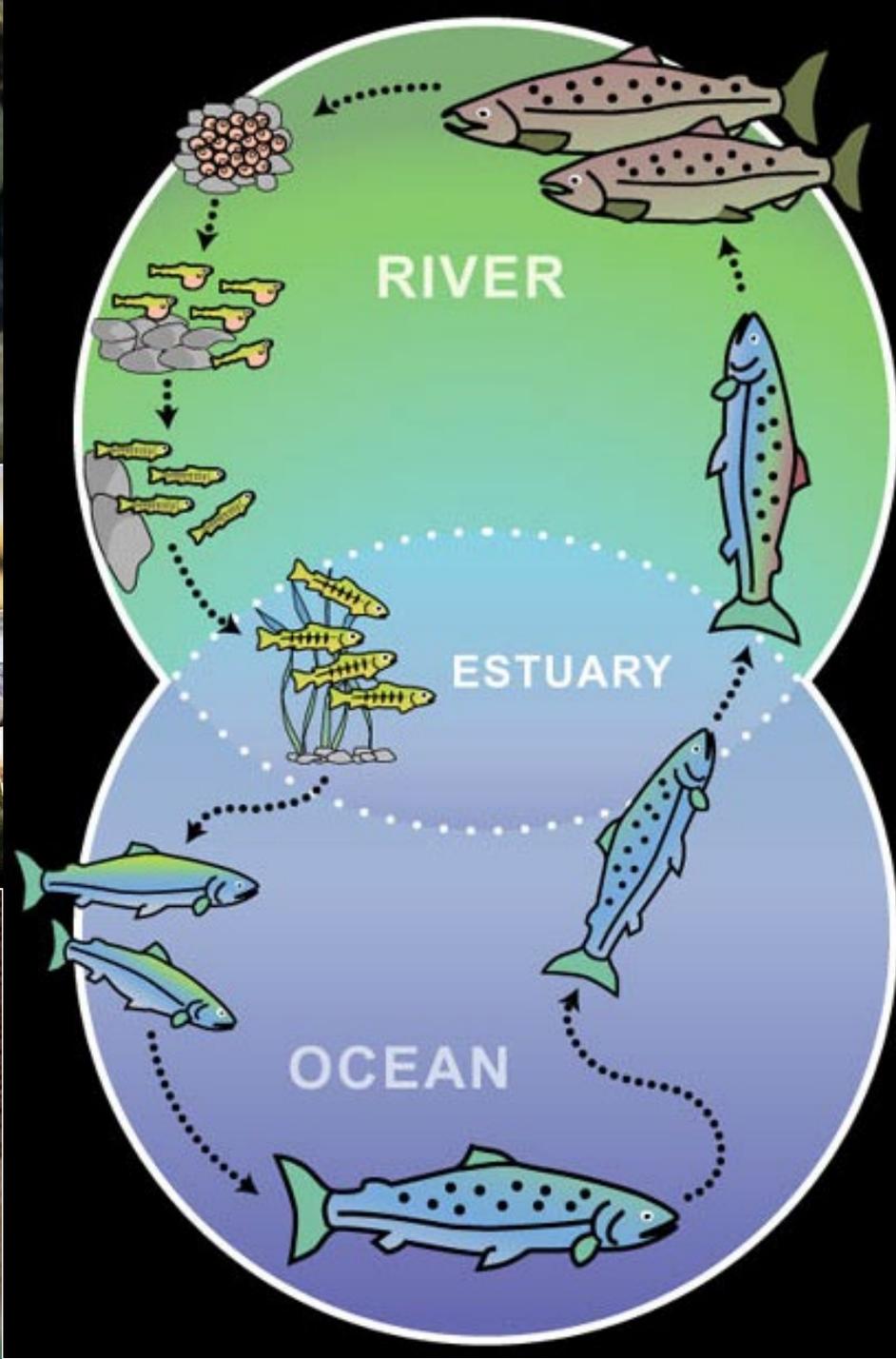
What types of salmon are in Miller and Walker Creeks?



CHUM



COHO





Why CSI?

- Salmon tell us about ecosystem health. They tie together land, rivers, and ocean.
- Urban Runoff Mortality Syndrome (URMS)
- Community awareness and action

2022 CSI in Action: Teamwork!



35 volunteers; over **400** hours!!

Miller-Walker Basin

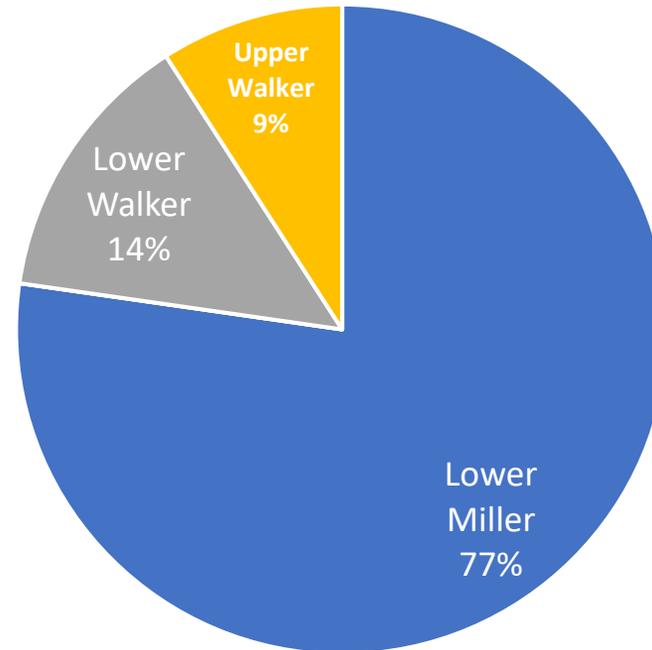
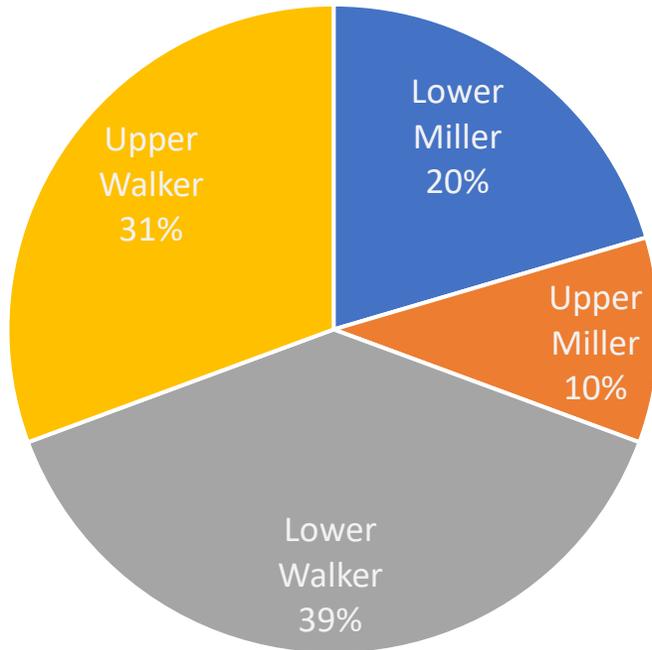


LIVE FISH OBSERVATIONS

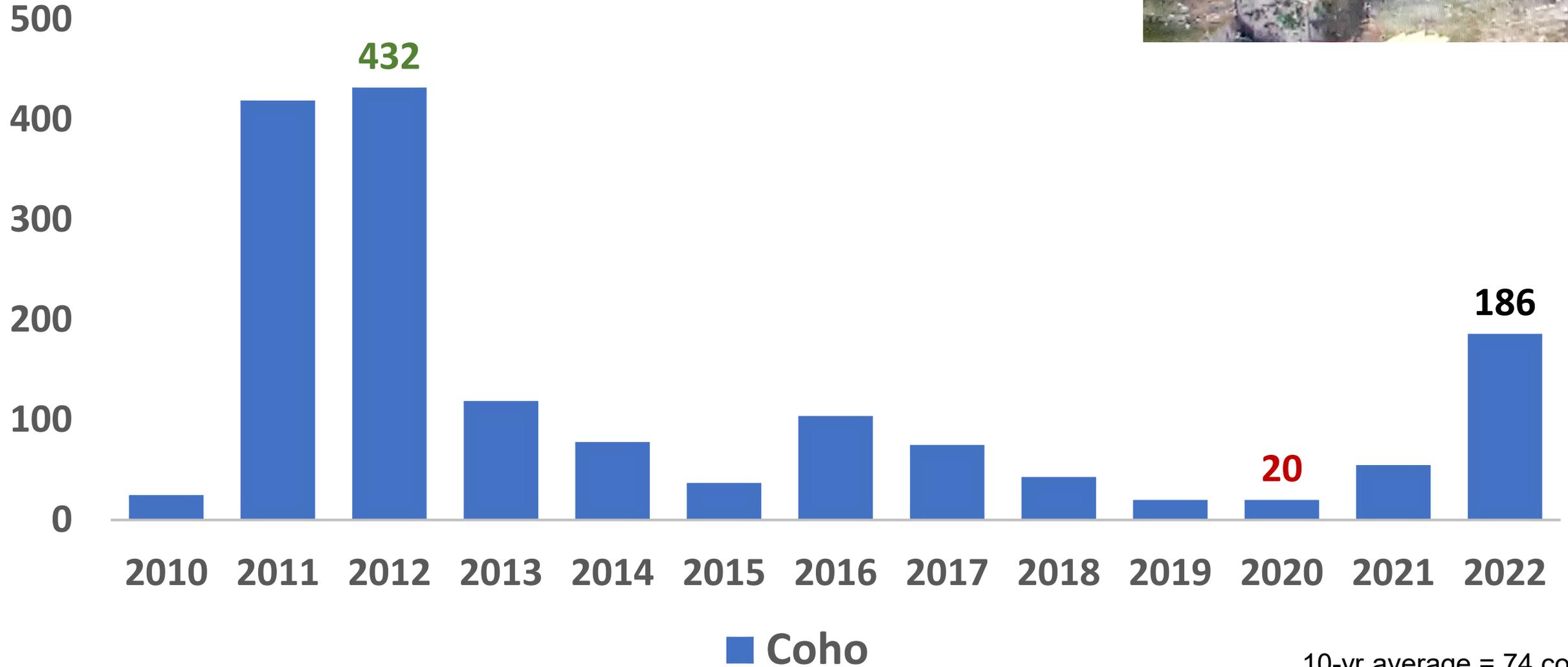


Where did we see salmon?

	Coho 	Chum 	Unknown	Total Live Fish
Miller Creek	57	17	38	112
Walker Creek	129	5	33	167
Total	186	22	71	279

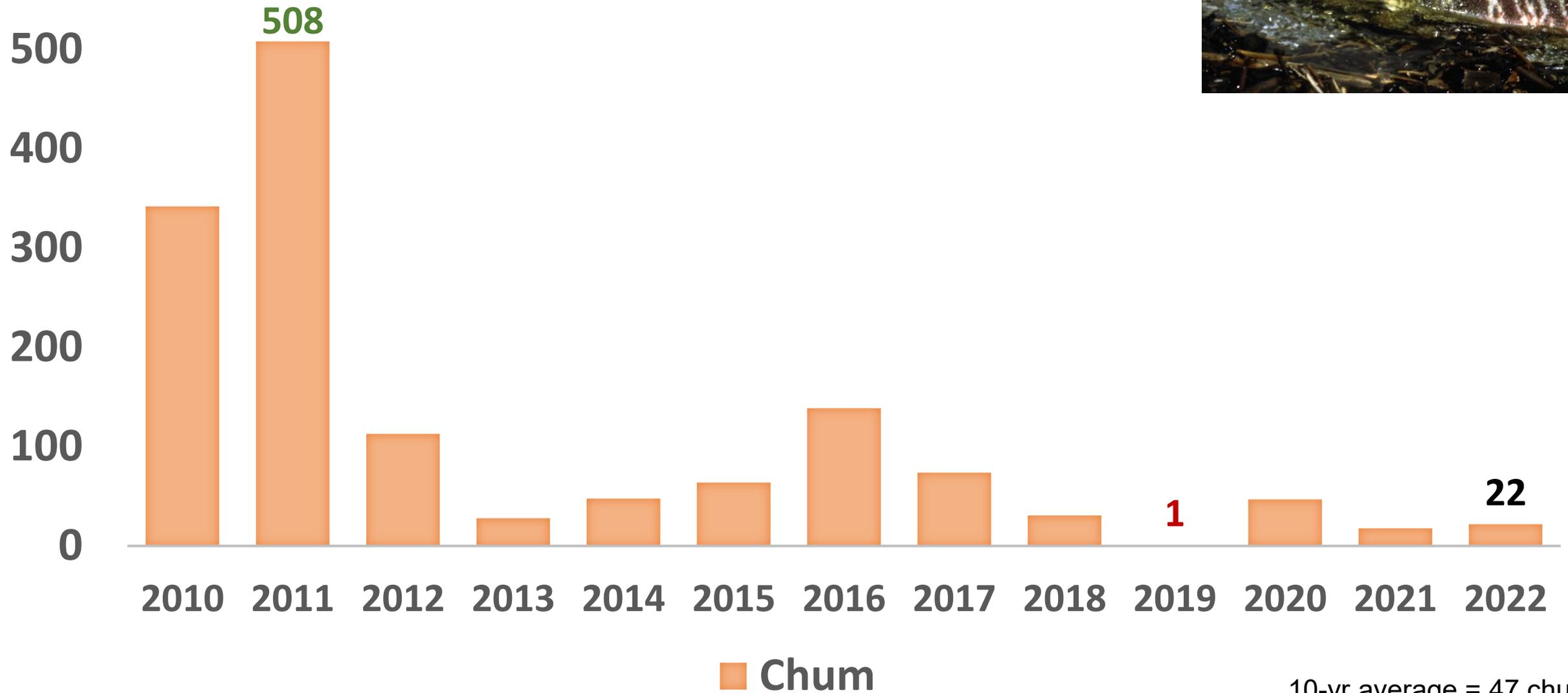


How many coho returned?

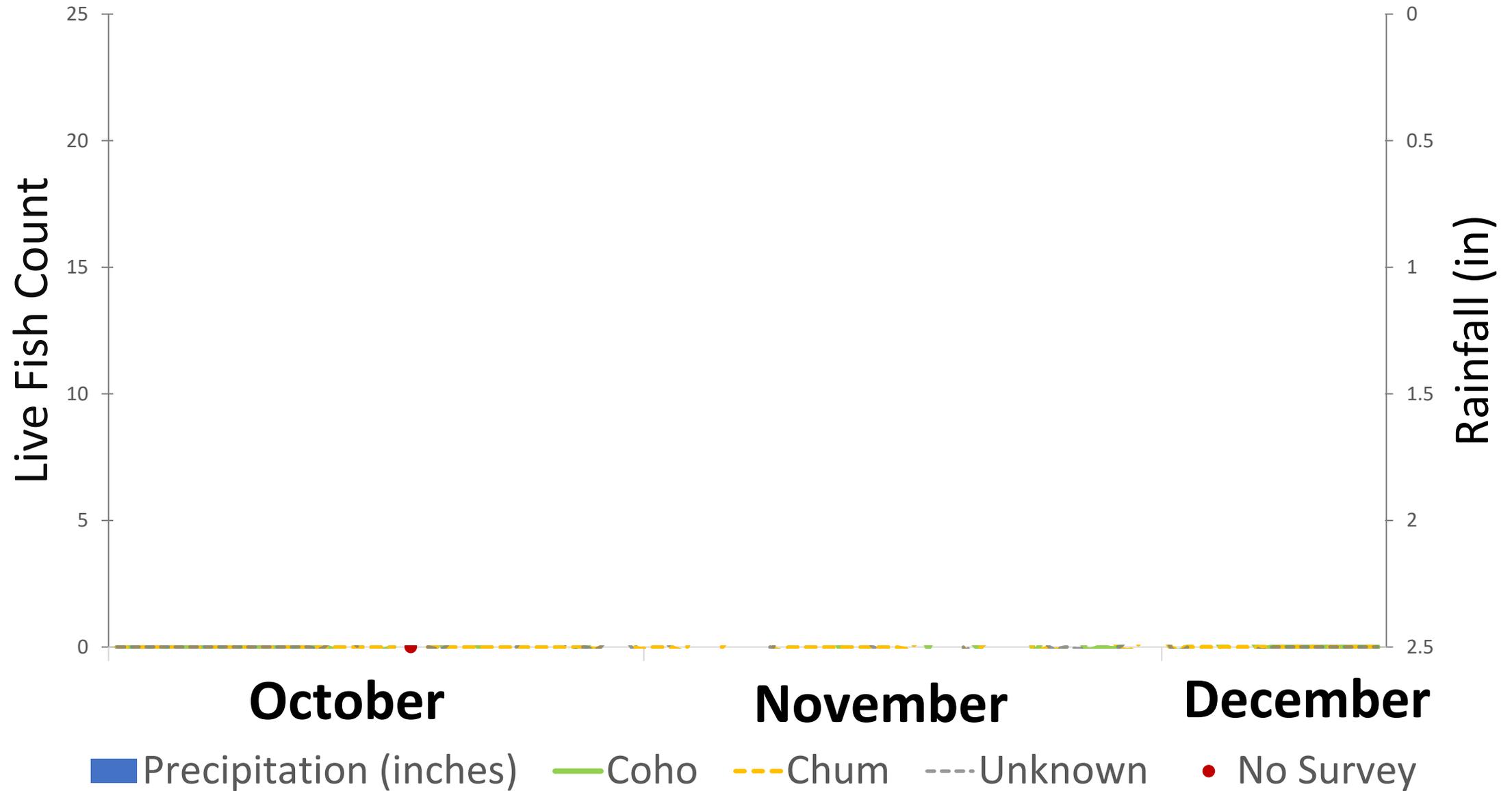


10-yr average = 74 coho

How many chum returned?



When did fish enter the streams?



CARCASS OBSERVATIONS







**5 pre-spawn females
had predation marks**

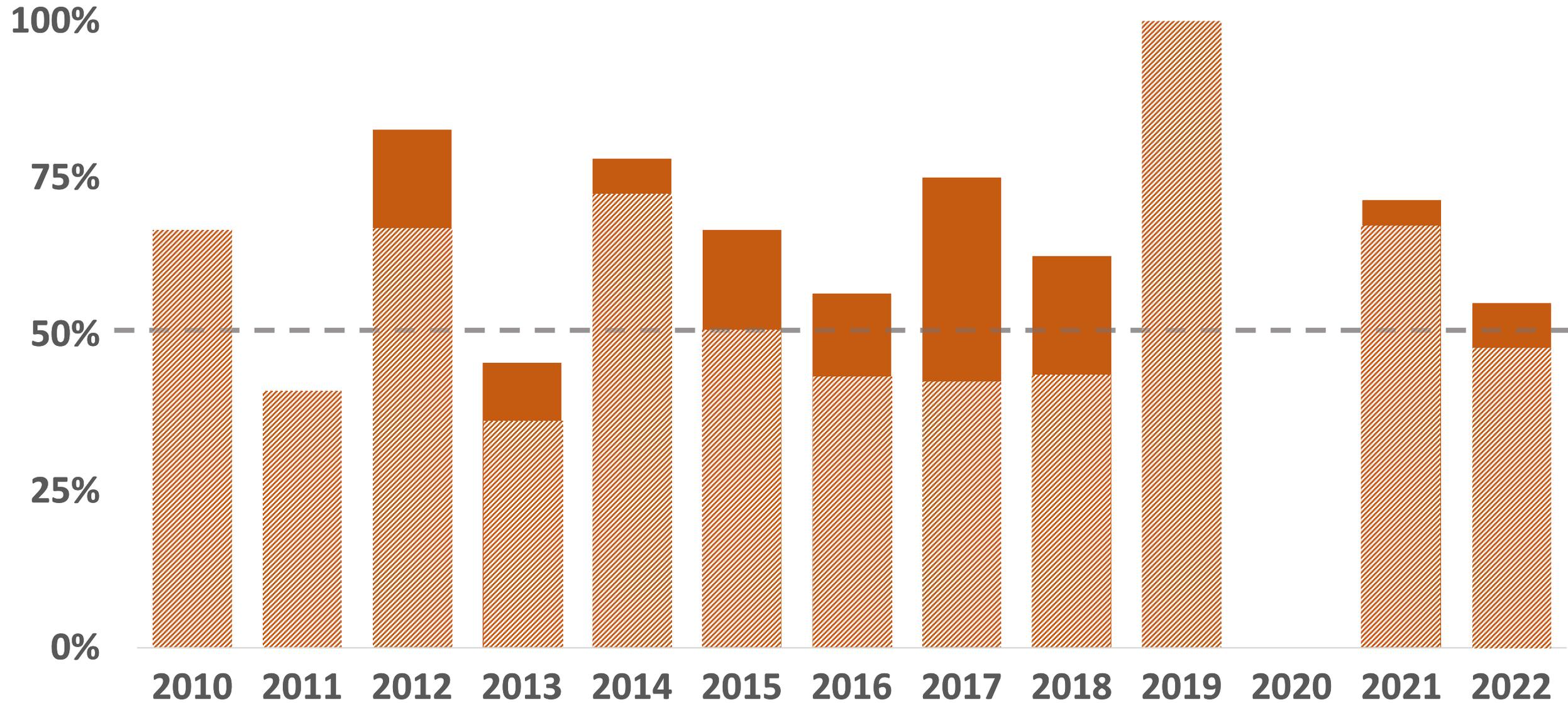


**28 pre-spawn females
had no signs of
predation**



**27 females
spawned/uncertain status
due to heavy predation or
degradation**

How many female coho died before spawning?





W

Emerging science on

Coho Salmon & Car Tires

Please welcome Ed Kolodziej!

How Urban Lands Affect Streams

- **Stream flow**

- Faster, higher flowing water more often
- Less and warmer water in summer

- **Water pollution**

- Warmer, low dissolved oxygen, altered pH, more turbid
- More pollution - bacteria, metals, pesticides, oil, salt, etc.

- **Physical habitat conditions**

- Substrate: hardened, more silt/sand, less gravel
- Salmon nests in gravel are smothered
- Streamside vegetation: native, invasive, absent
- Reaches inaccessible to resident and anadromous fish

Things *You Can Do*: clean up runoff

- Check for oil leaks in your car. Contain leaks until you can get the car fixed.
- Wash your car **at a carwash** or **on the lawn**. Keep soap and oil out of the storm sewer and out of the creeks!
- Pick up after your pet. Put dog poop in the trash!



Things *You* Can Do: remove ivy & save your trees



Before

After



Things *You Can Do*: leave downed logs & branches in the stream



Great

Not so great



Things You Can Do: Volunteer!



Thank you!





MILLER CREEK

WITHIN THE GREATER PUGET SOUND WATERSHED



Miller Creek Trail

March 25, April 22, May 13

Walker Preserve

March 18, May 6, May 20

www.kingcounty.gov/miller-walker

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