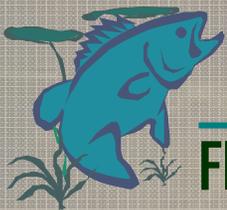


# Root River Steelhead Facility

Bradley Eggold  
Wisconsin DNR



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# Outline

- Tour of Root River Steelhead Facility
- Salmonid stocking history
- Root River Open House
- Salmonid returns to the Root River
- Fisheries Management studies



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Root River Steelhead Facility  
Welcome to the Open House

WELCOME  
An Invasive Species  
Map of Lake Superior  
Map of Lake Superior  
Map of Lake Superior



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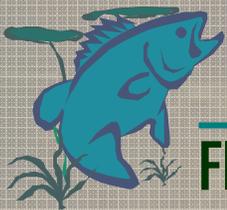
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# Stocking

Chinook, Coho Salmon, Brown Trout and Steelhead Stocking, 1997-2011

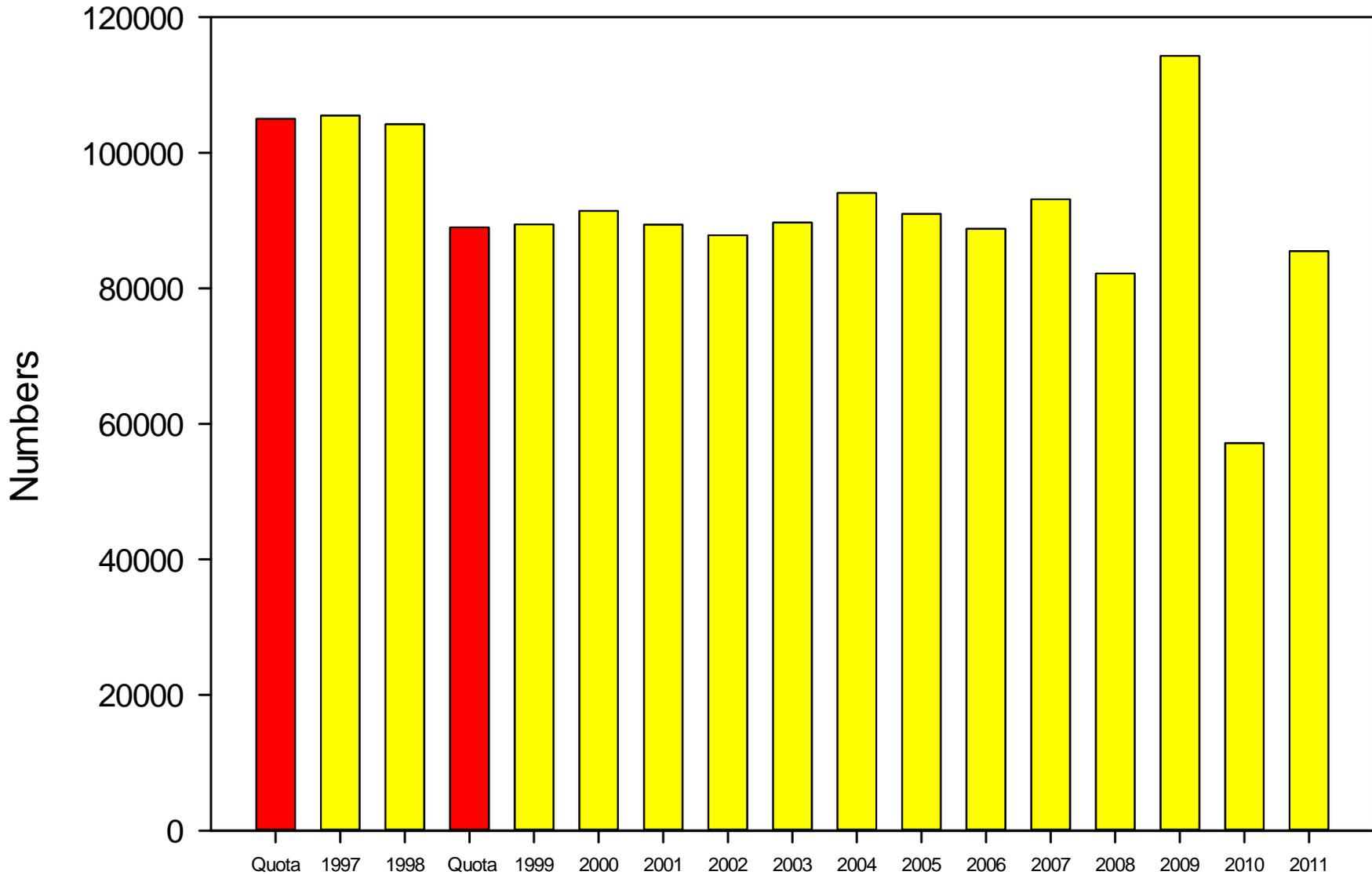


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# Racine County Salmon and Trout Stocking Comparisons

## Rainbow Trout

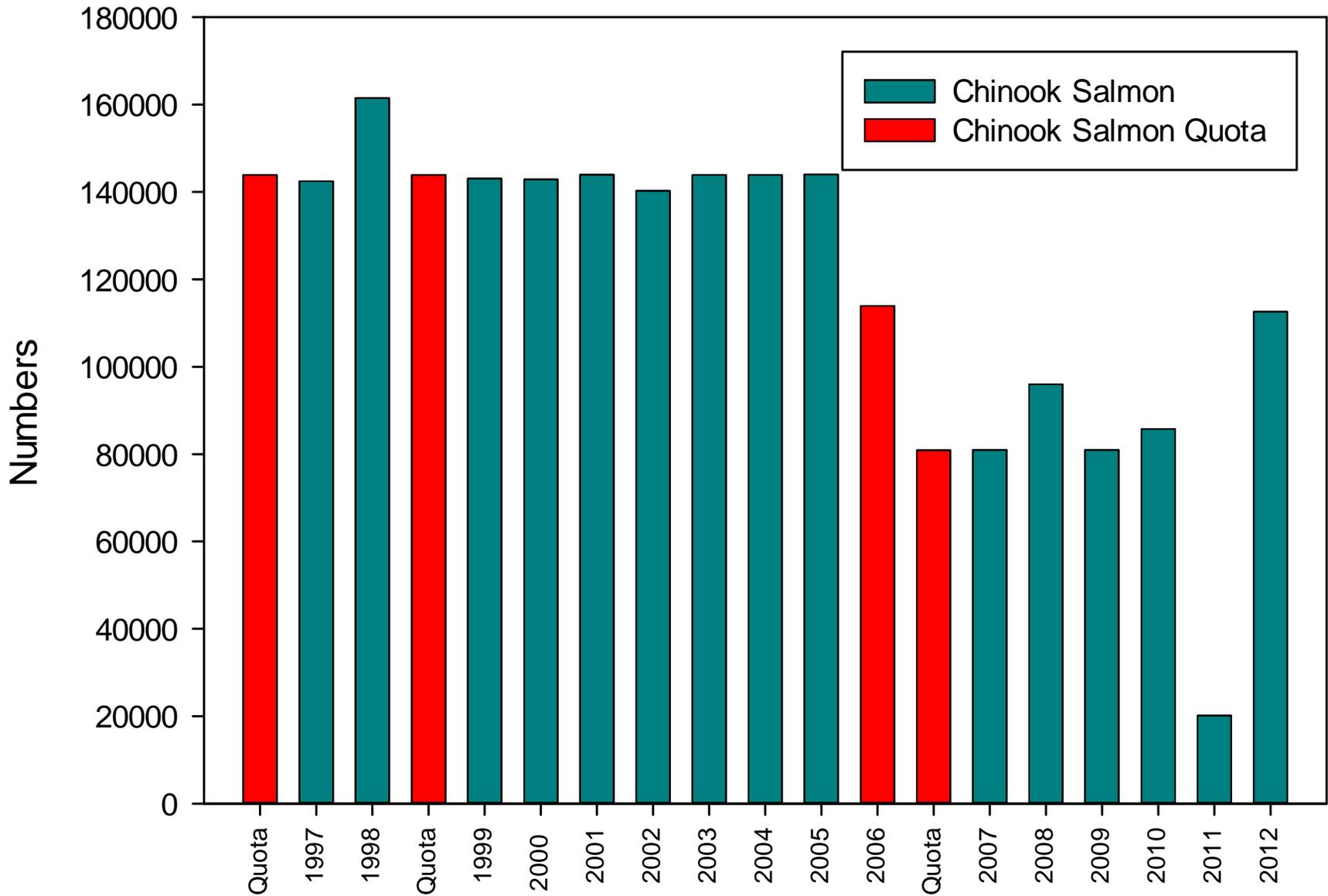


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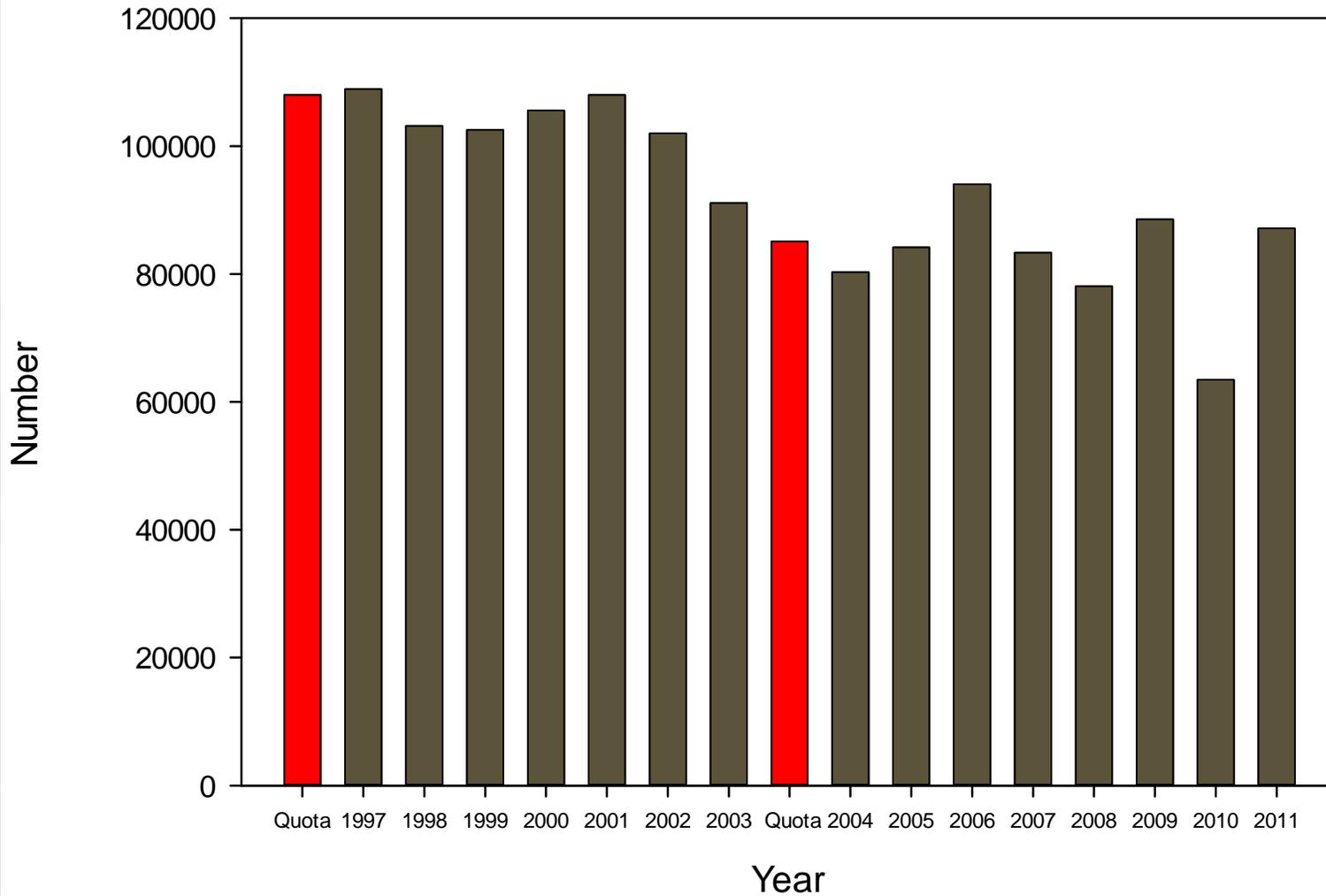
# Racine County Salmon and Trout Stocking Comparisons

## Chinook Salmon



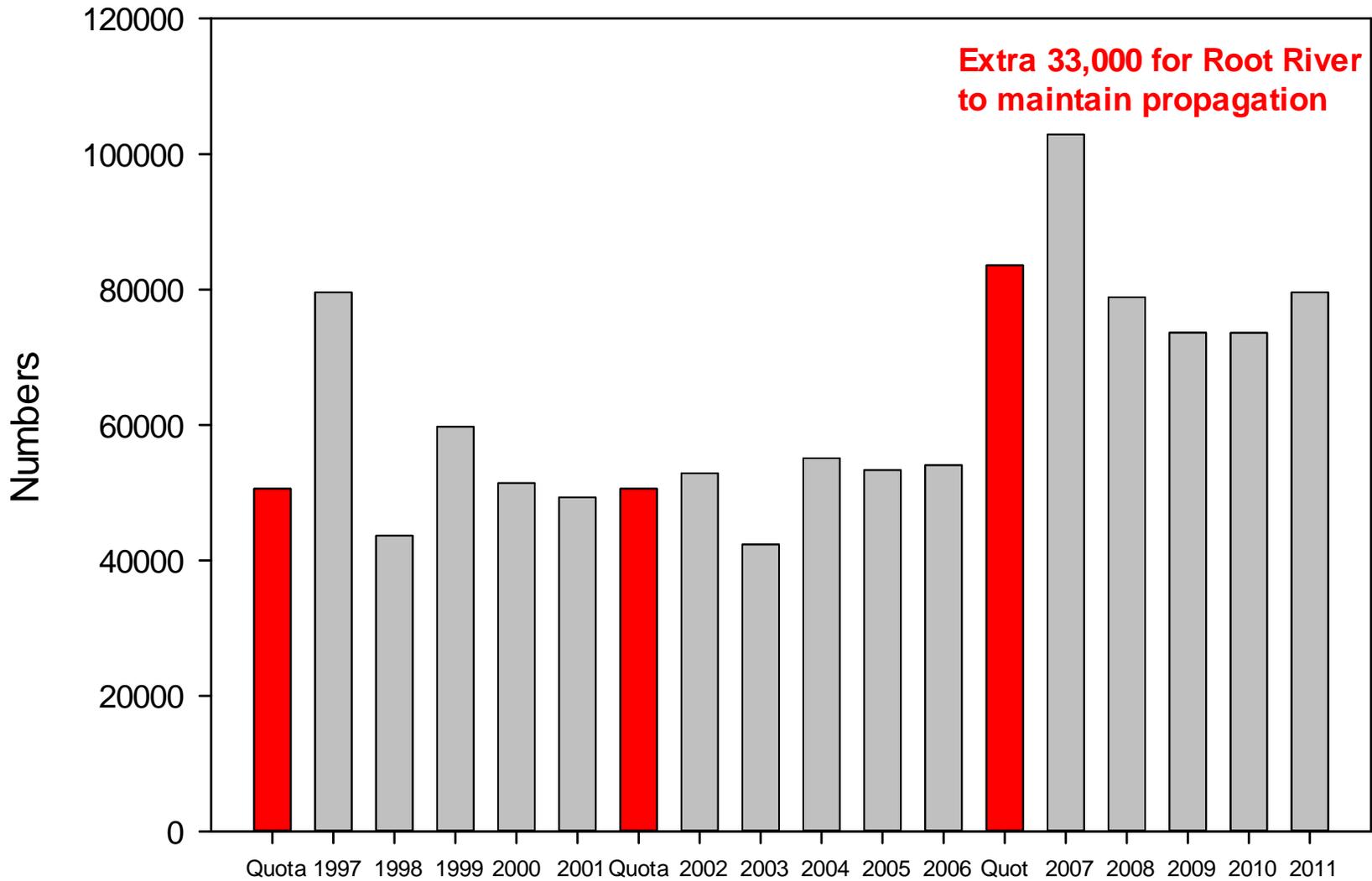
# Racine County Salmon and Trout Stocking Comparisons

## Brown Trout

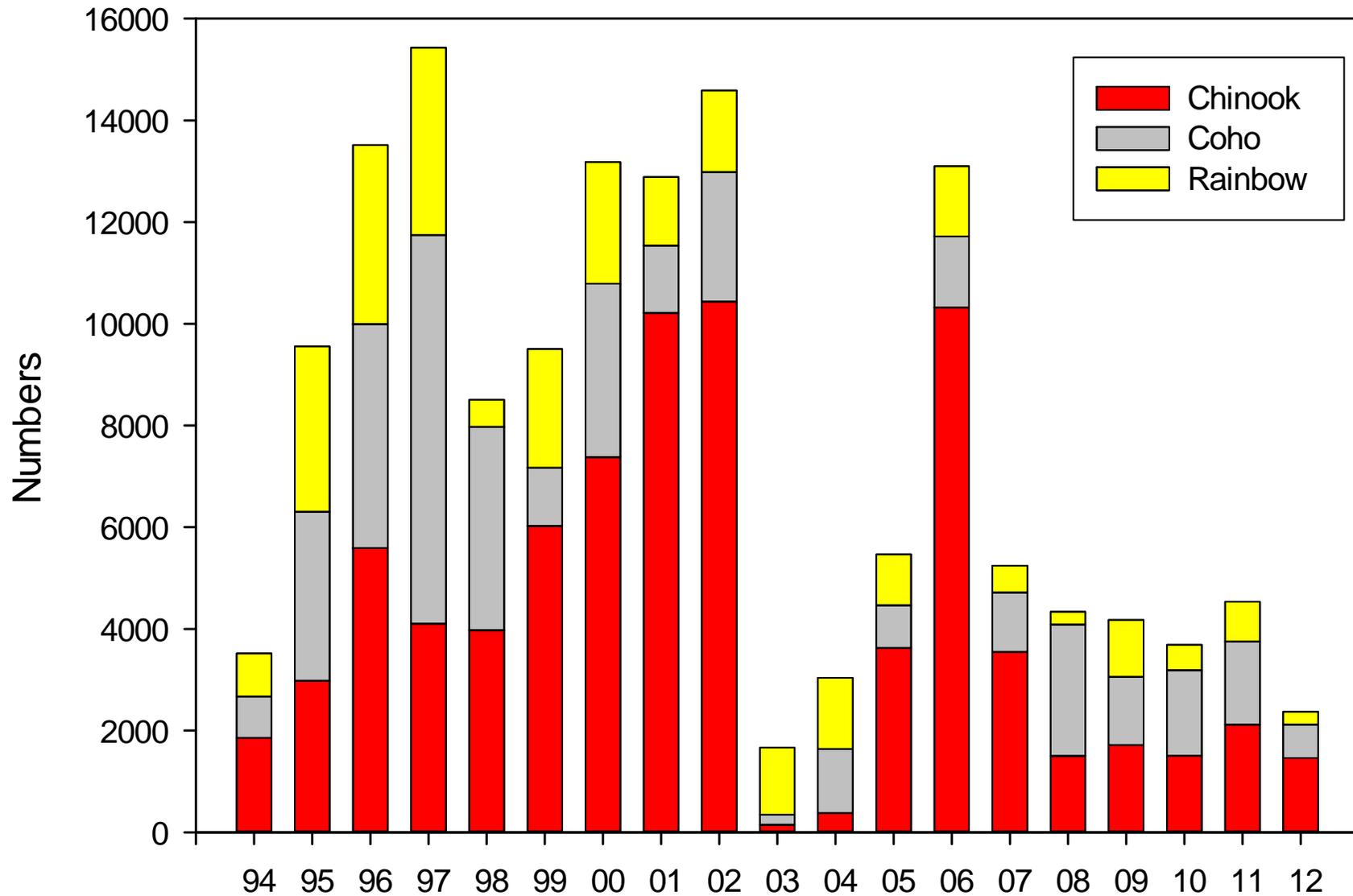


# Racine County Salmon and Trout Stocking Comparisons

## Coho Salmon



# Return of Trout and Salmon to the Root River Steelhead Facility, 1994 - 2012





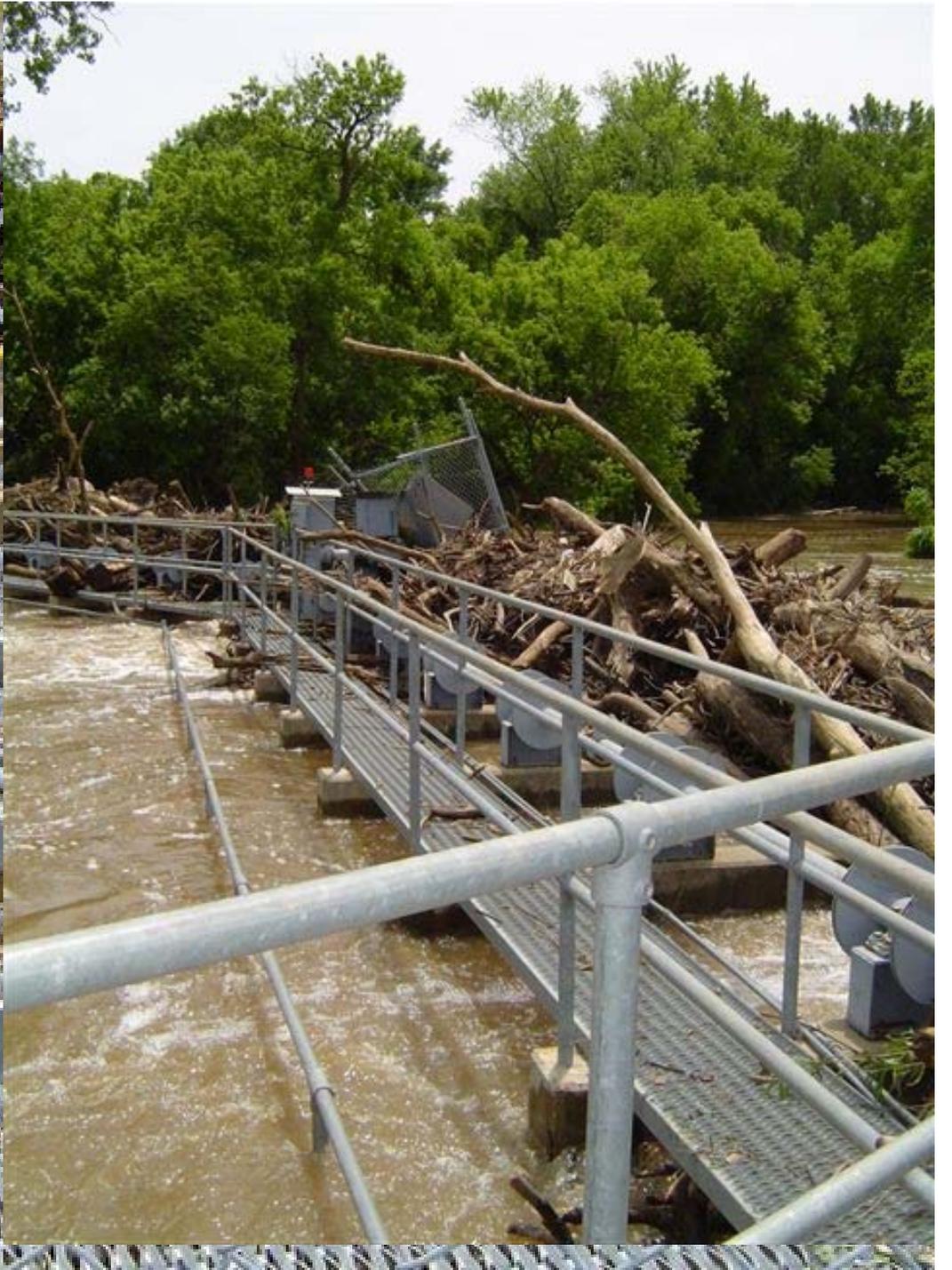
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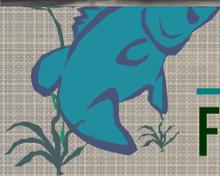








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# Waukesha Water Diversion

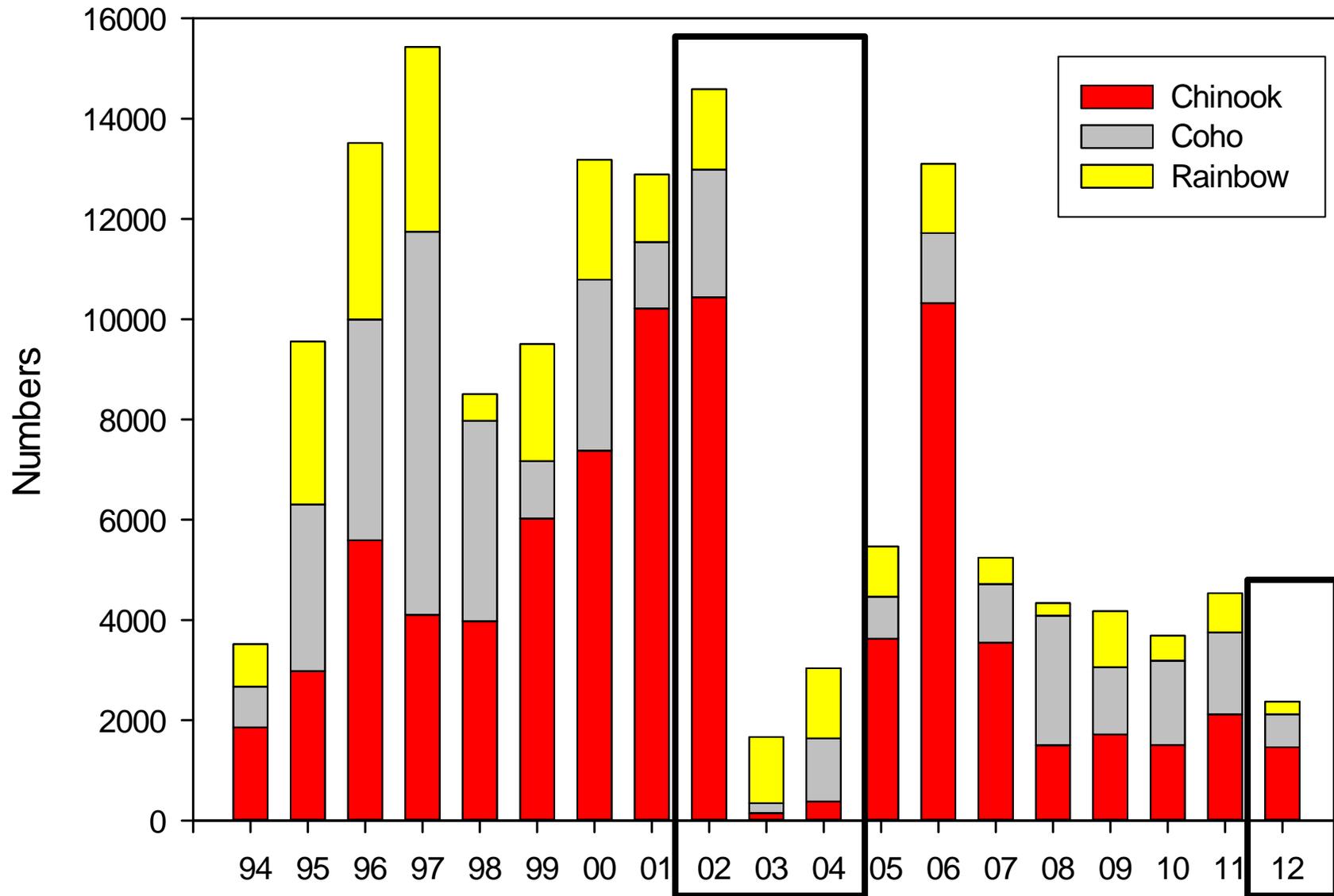
- City of Waukesha is submitting request to use Lake Michigan water
- All water must be returned to the basin
- DNR wrote a letter detailing the benefits to the salmon and trout program in the Root River
- Water return would be on average 15 cfs



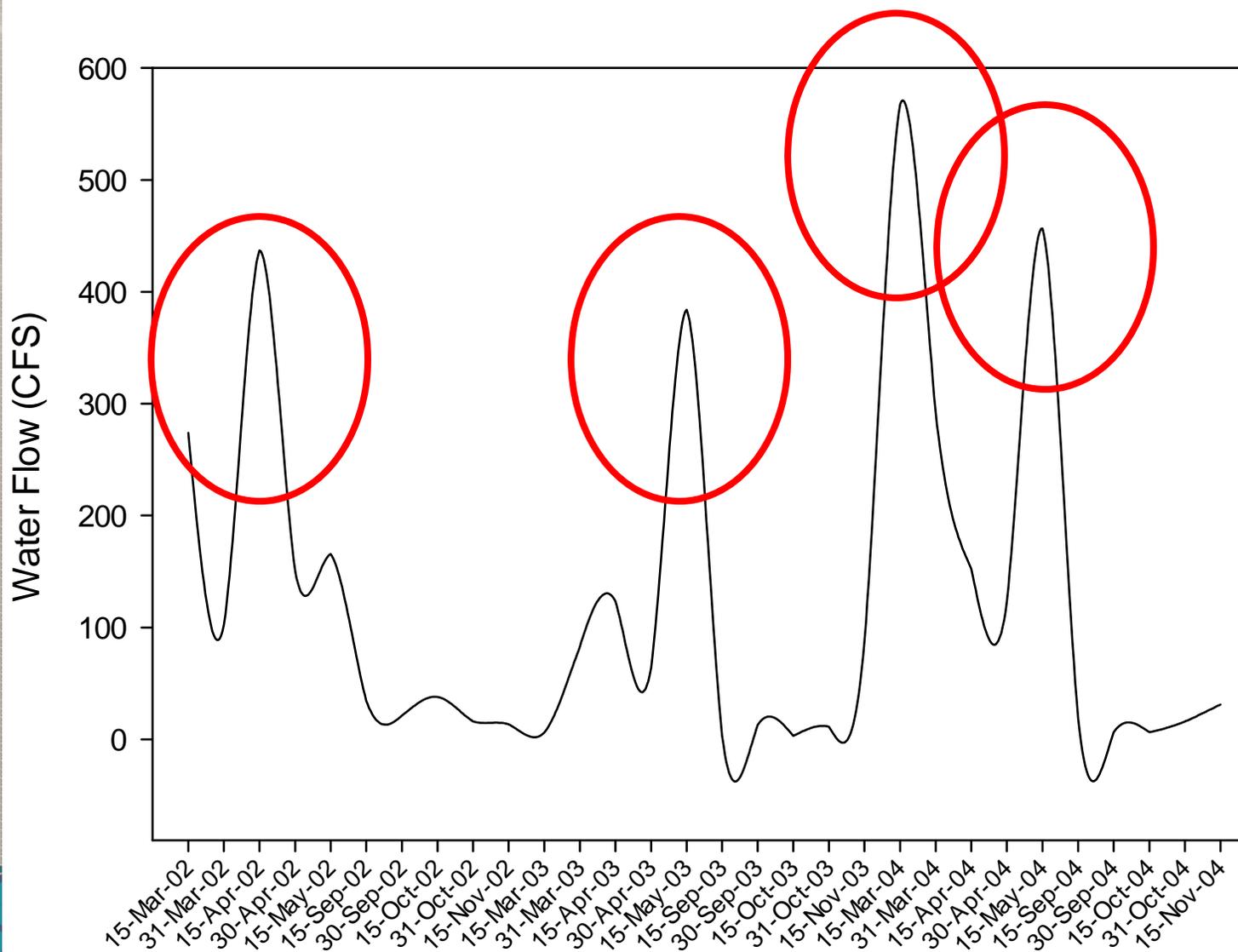
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# Return of Trout and Salmon to the Root River Steelhead Facility, 1994 - 2012



# Water Flow (CFS) in the Root River from 2002 - 2004

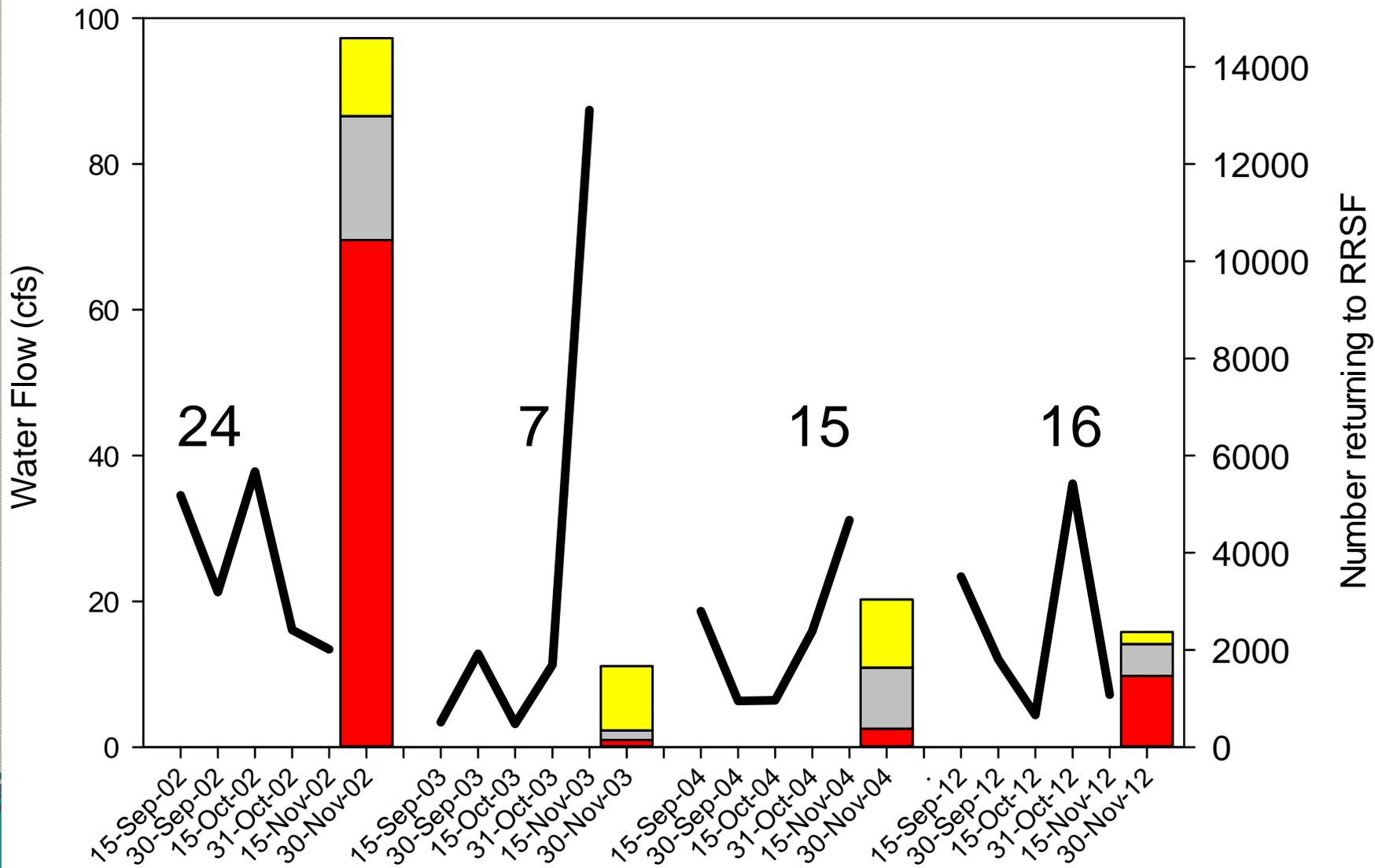


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# Water flow (CFS) and number of chinook, coho and steelhead returning to the RRSF, 2002-2004 and 2012



A comparison of two  
methods of rearing and  
stocking coho salmon: fall  
fingerlings versus spring  
yearlings

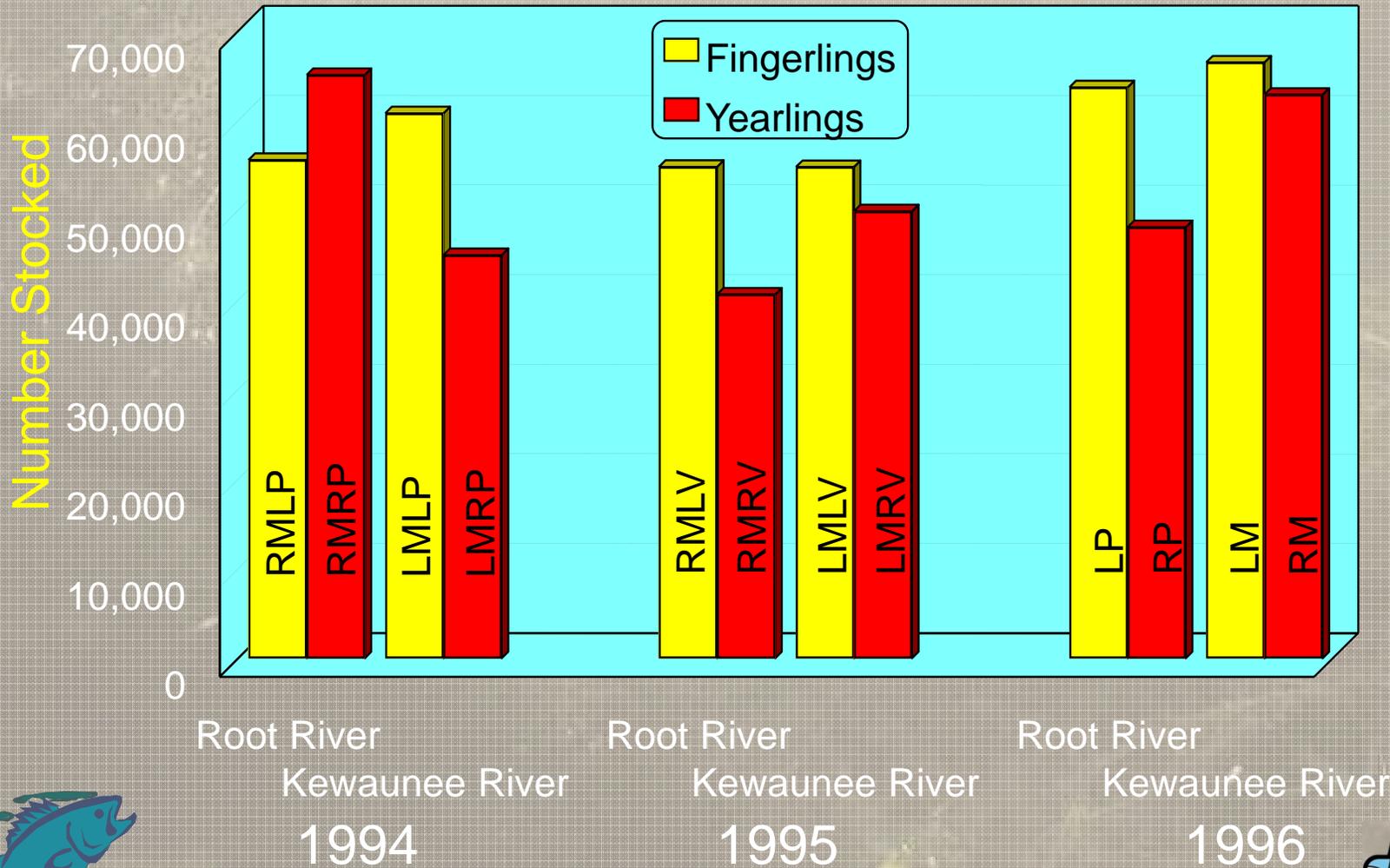


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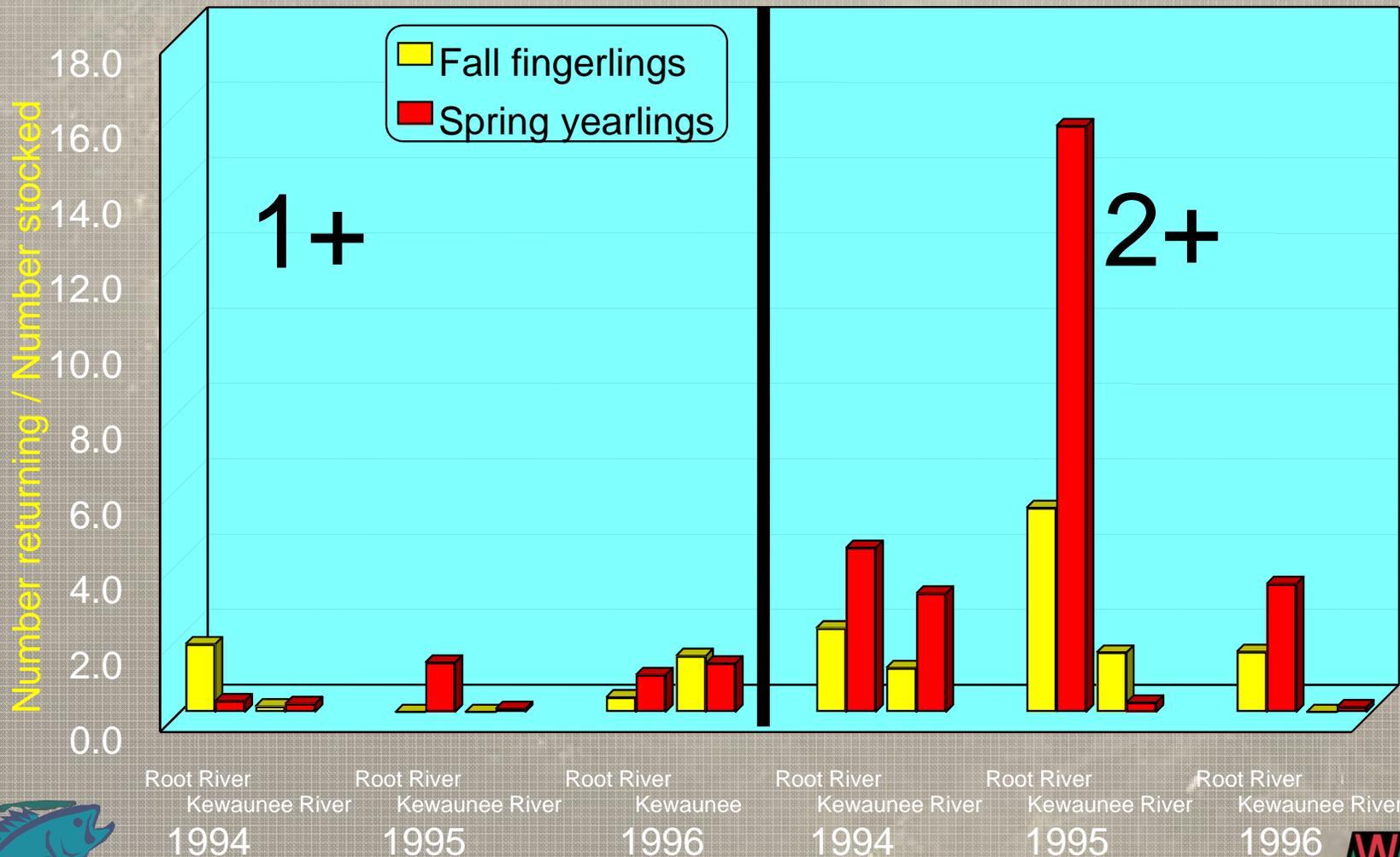
# Study design showing number of coho salmon stocked by year class, location and treatment



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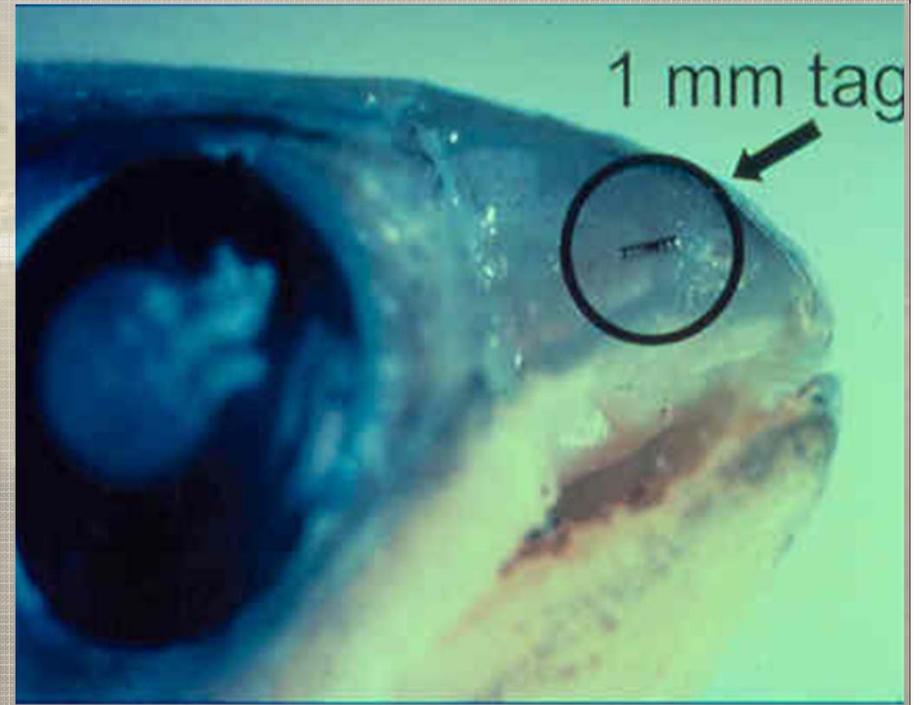
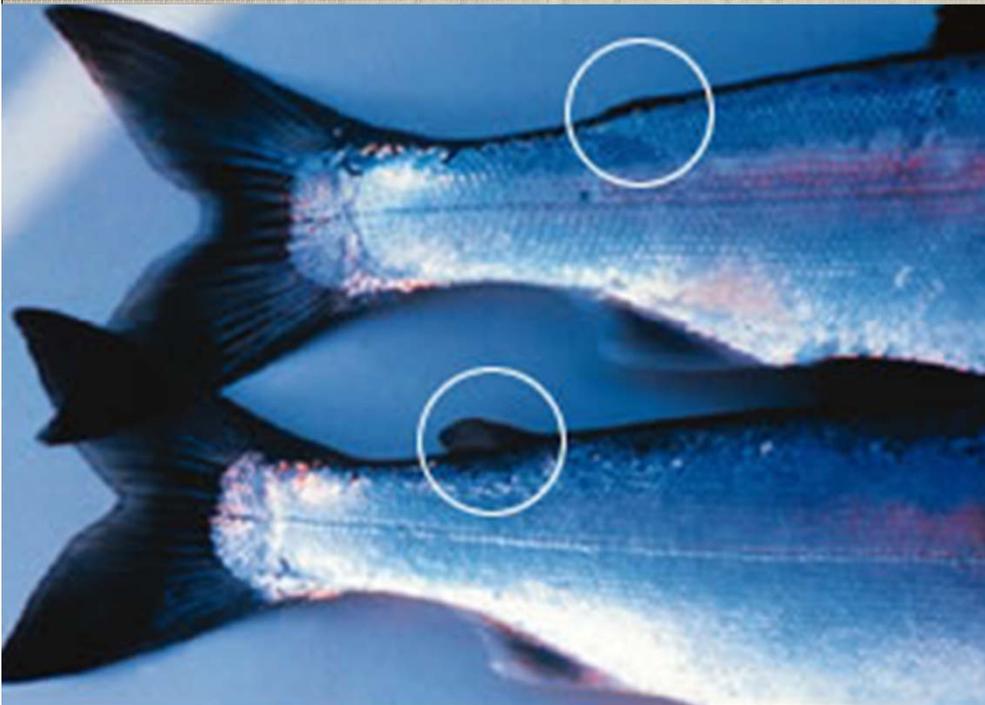
# Return rate of coho salmon at age and treatment to Wisconsin Anglers



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# Great Lakes Mass Marking: *Marking Techniques*



Adipose Fin Clip

Coded Wire Tag

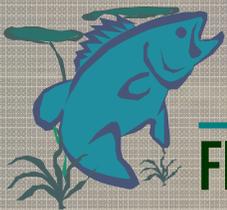
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# Coded Wire Tag



What hatchery,  
where & when stocked?



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# Tagged at Hatcheries



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# Automated Tagging Trailers



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# Automated Tagging Trailers



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# Automated Tagging Trailers



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# Number of Chinook tagged & marked by USFWS for Lakes Michigan and Huron

Year	# Tagged & Clipped	Efficiency (fish / hour)
2011	4,689,947	7,242
2012	3,931,206	8,288



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# Tag Recovery: Agency Surveys & Anglers

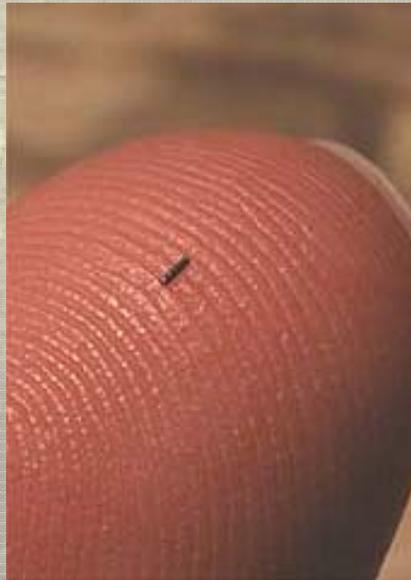


Length, weight, location, snout, etc.

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# Tag Extraction

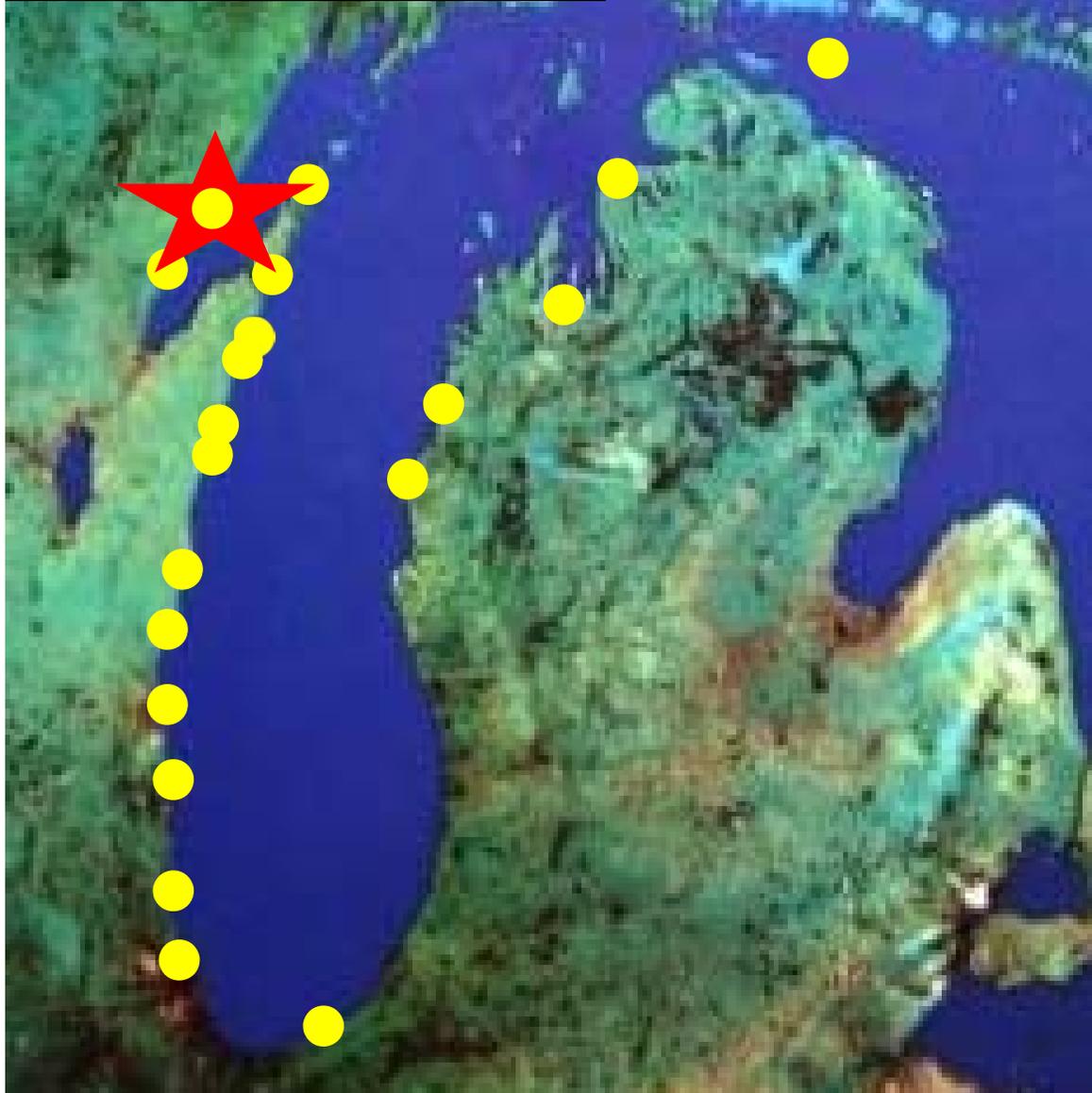


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# Marinette / Menominee

N = 49 CWTs



Preliminary  
Results 2012:

★ = Sampling  
Location

● = Stocking  
Sites

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# Marinette / Menominee

N = 49 CWTs



Preliminary  
Results 2012:

4 States

★ = Sampling  
Location

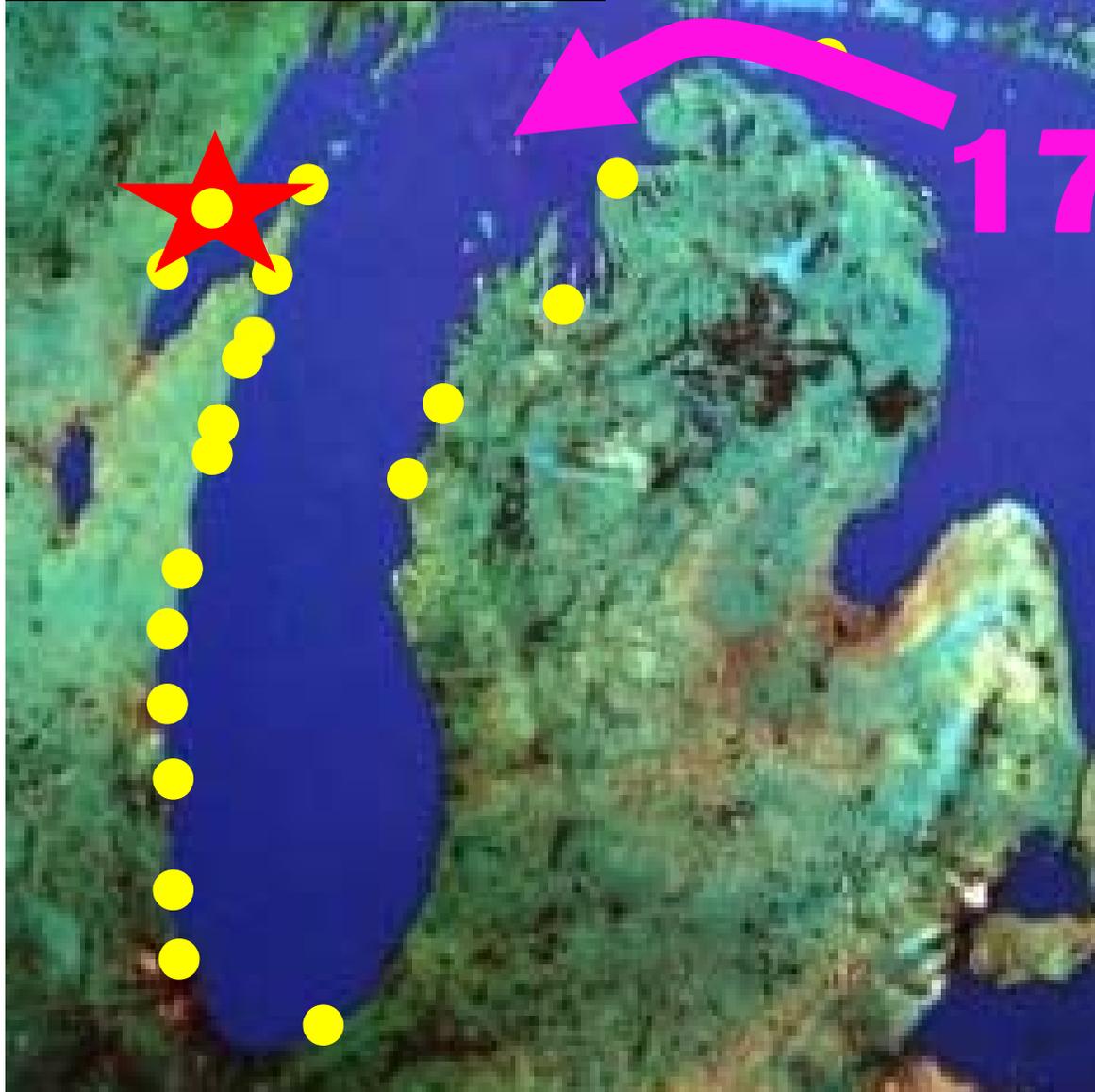
● = Stocking  
Sites

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# Marinette / Menominee

N = 49 CWTs



Preliminary  
Results 2012:

Lake Huron

★ = Sampling  
Location

● = Stocking  
Sites

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# Stocking locations of CWT Chinooks returning to Root River in 2012

183 tags Recovered

★ Root River, Racine

Strawberry Cr./Ellison Bay/Algoma/Two Rivers n=1

Medusa Creek n=5

Sheboygan/Port Washington/Milwaukee n=4

Milwaukee/Racine n=139

Kenosha n=10

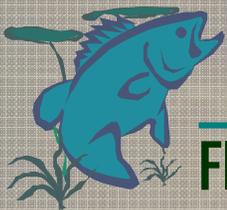
Waukegan n=10

Diversey Harbor n=7

Jackson Harbor n=4

Little Calumet n=2

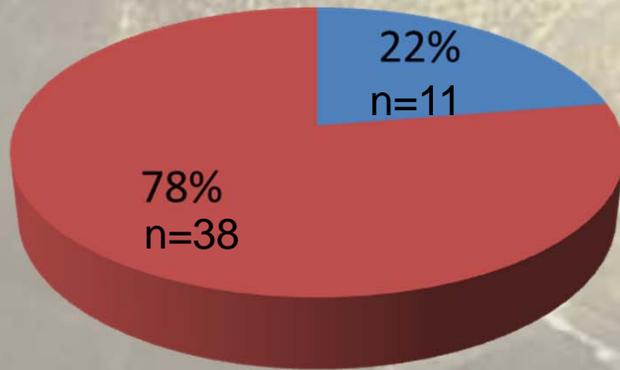
Trail Creek n=1



# Rate of Chinook strays\* returning to Root River in 2012 by year class

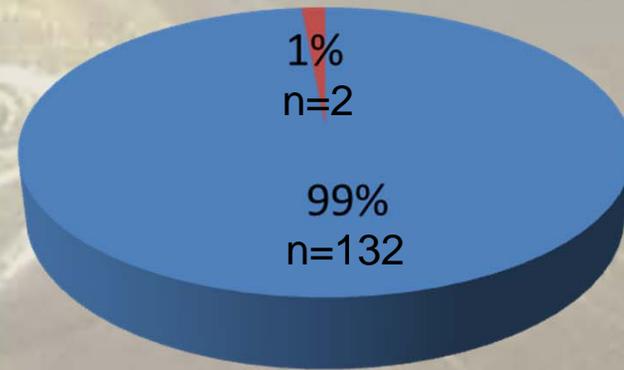
2011 Year Class "Jacks"

■ Stocked in Racine/Milwaukee ■ Strayed

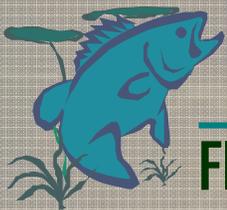


2010 Year Class

■ Stocked in Racine/Milwaukee ■ Strayed



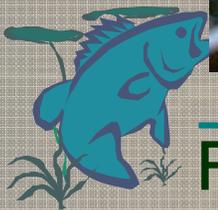
\*Assumes fish stocked in Racine/Milwaukee are not strays



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# QUESTIONS ??



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