



Big Horn Lake, WY

2013 Fishery Update

Bighorn Issues Group meeting November 2013

Overview

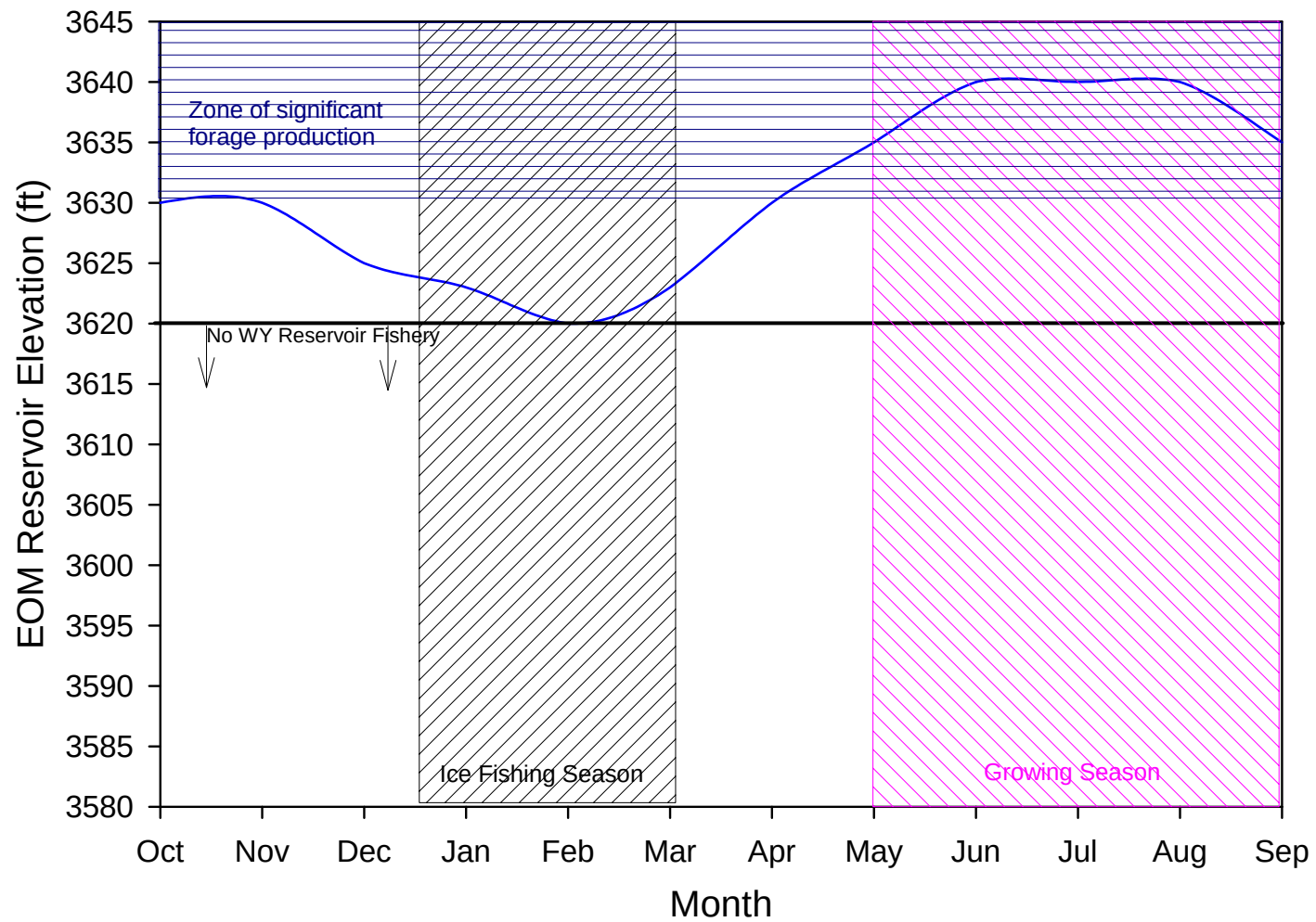
Reservoir fluctuations and fish populations

Status of channel catfish and sauger

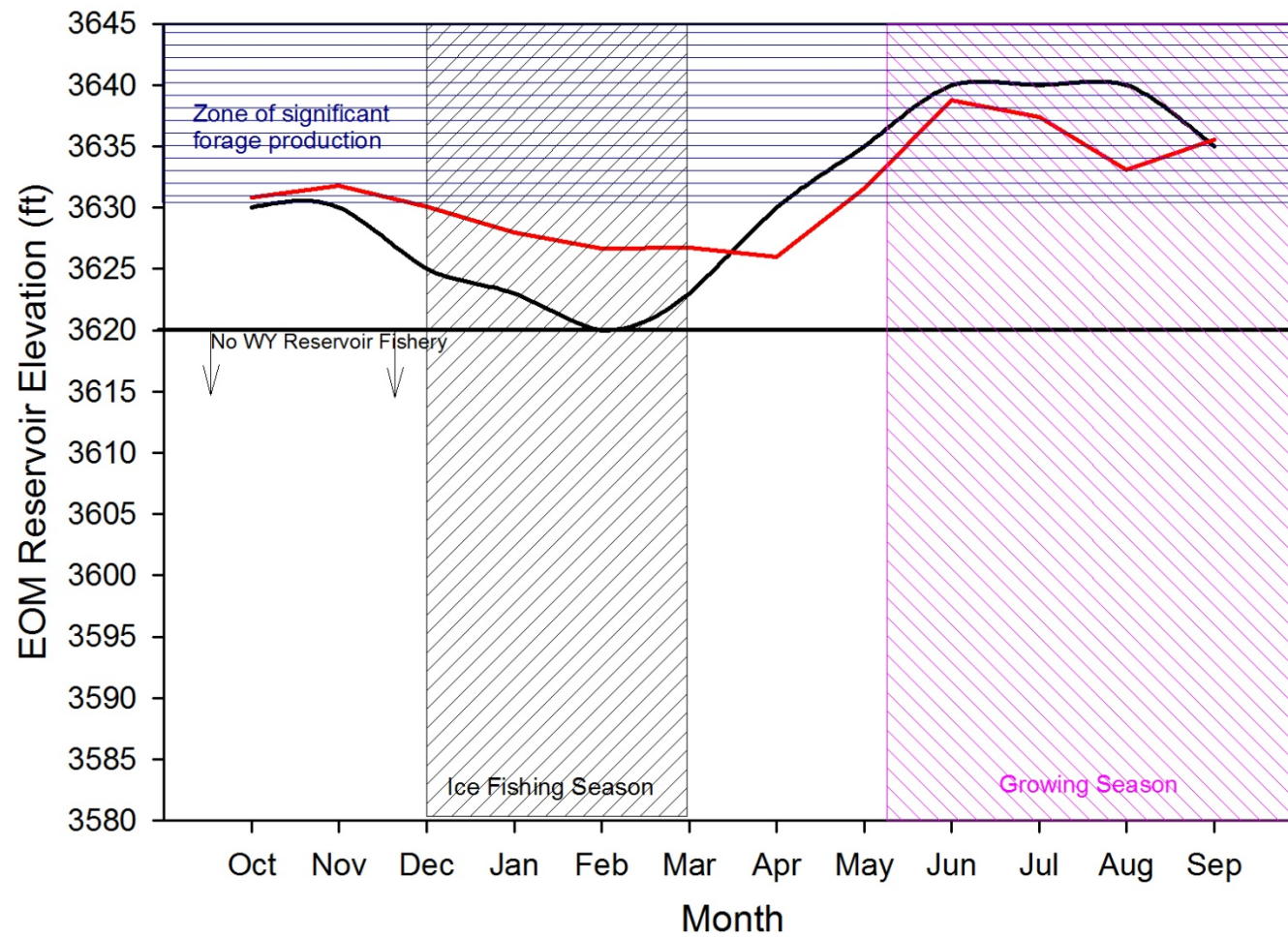
Update on sauger hatchery supplementation project



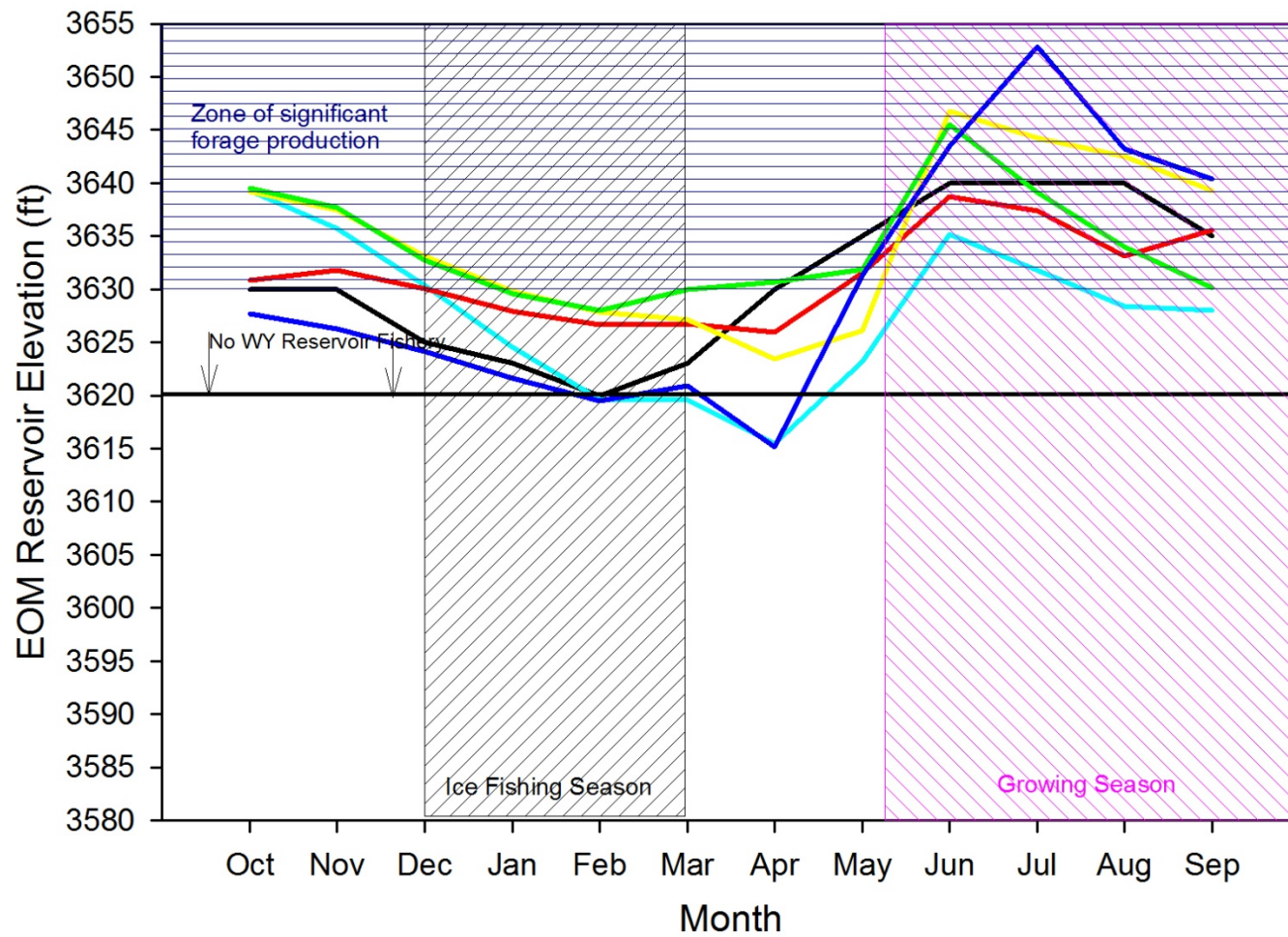
Model



2013



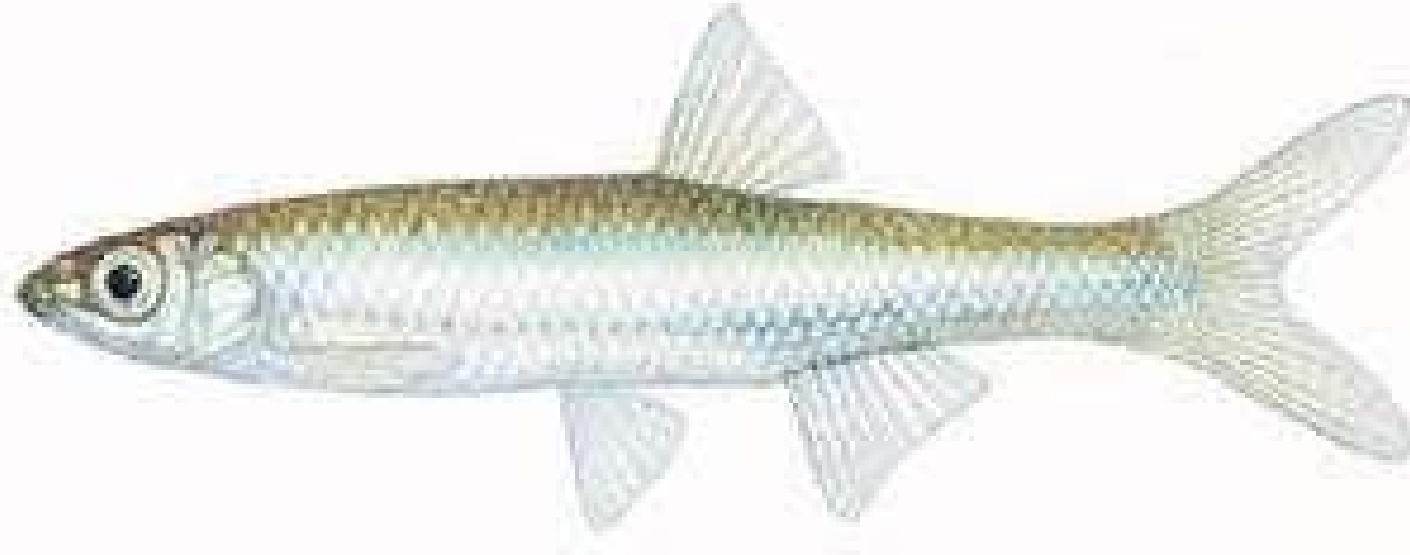
5 years



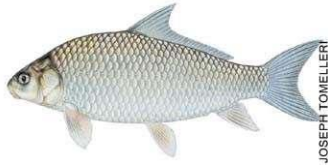
Predators



Prey



JOSEPH TOMELLERI



JOSEPH TOMELLERI



JOSEPH TOMELLERI



JOSEPH TOMELLERI



JOSEPH TOMELLERI

Monitoring

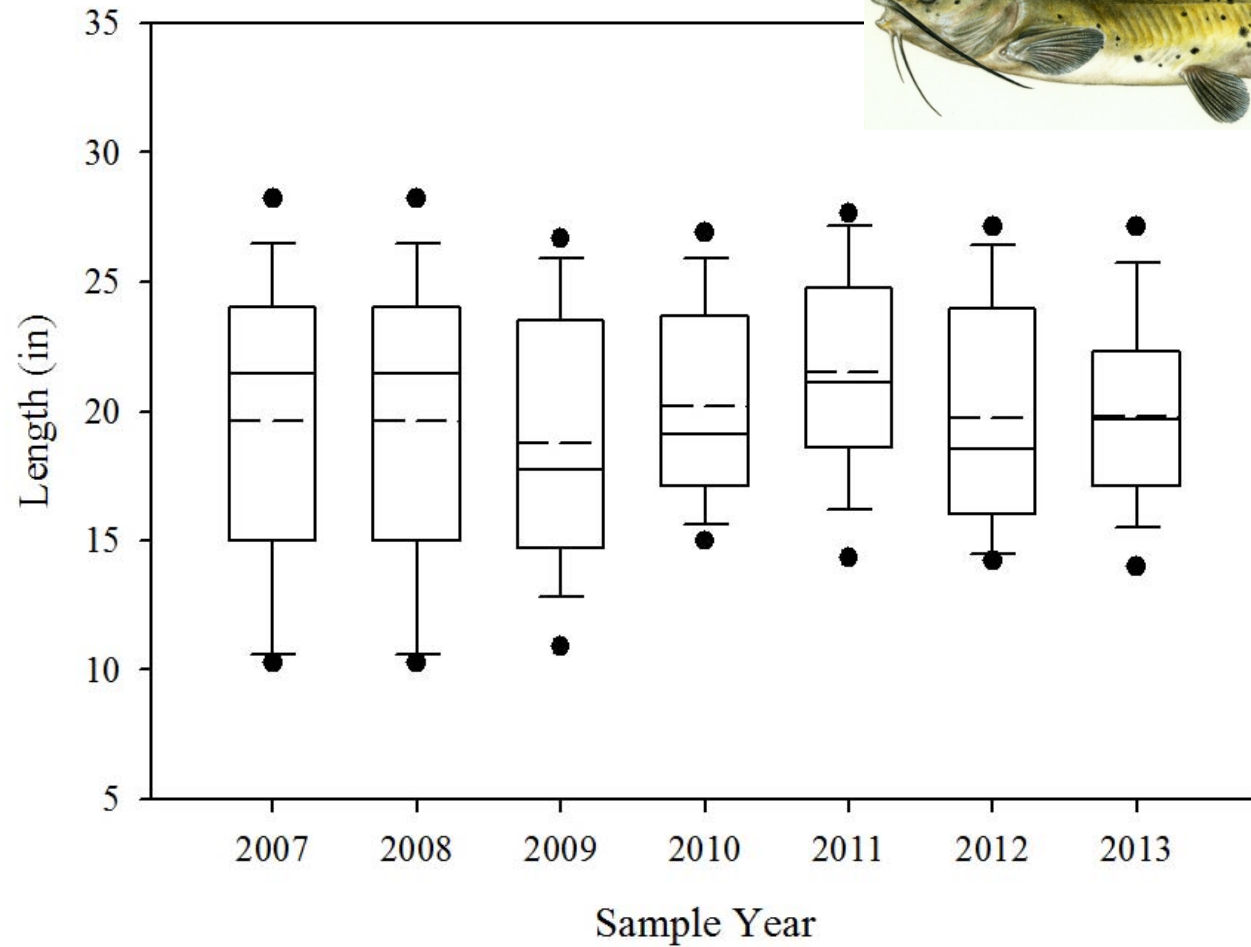


Channel Catfish

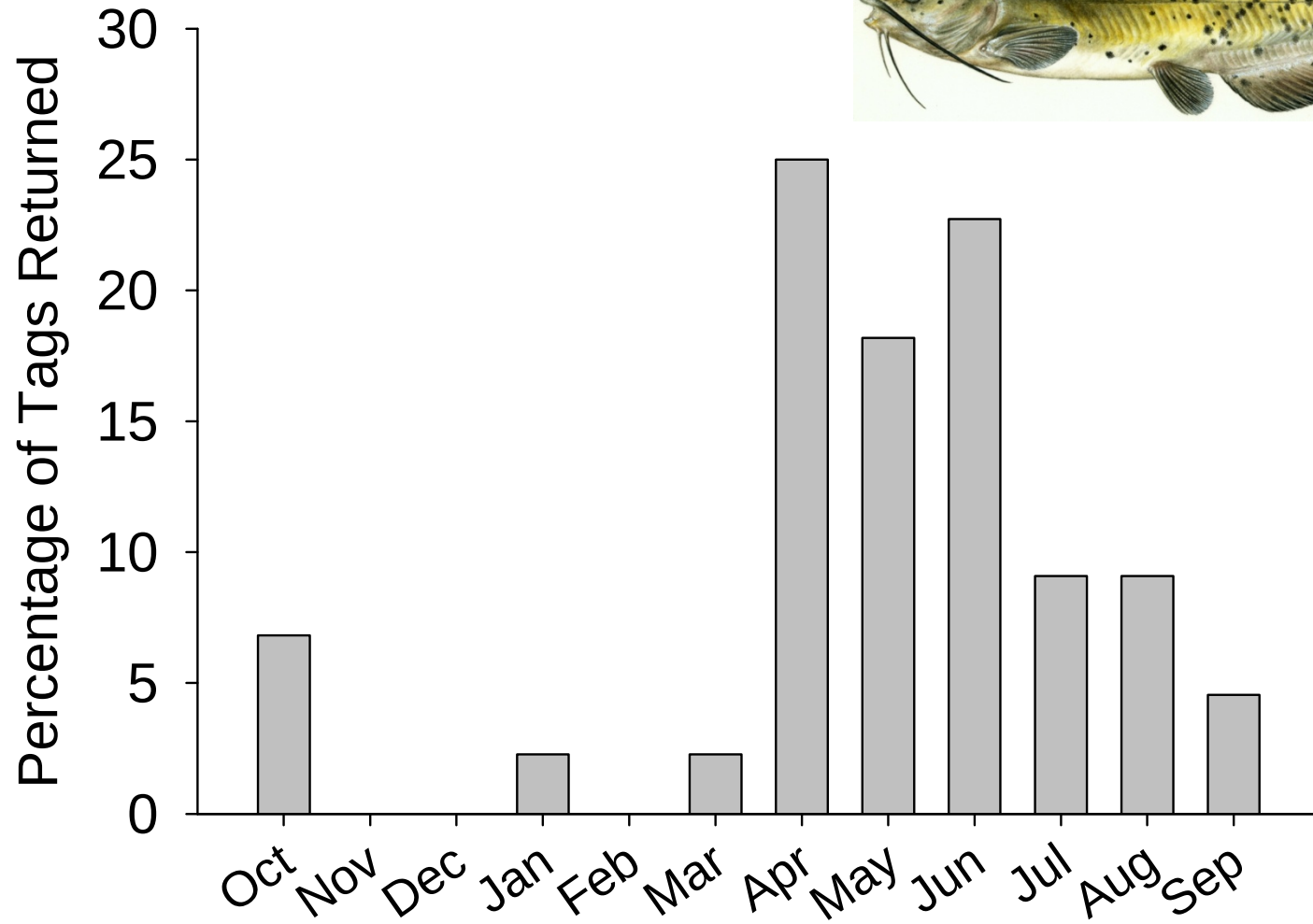
- Trot-lines
 - June
- Tagging
 - Trot lines in lake
 - Electrofishing in river



Channel Catfish



Channel Catfish

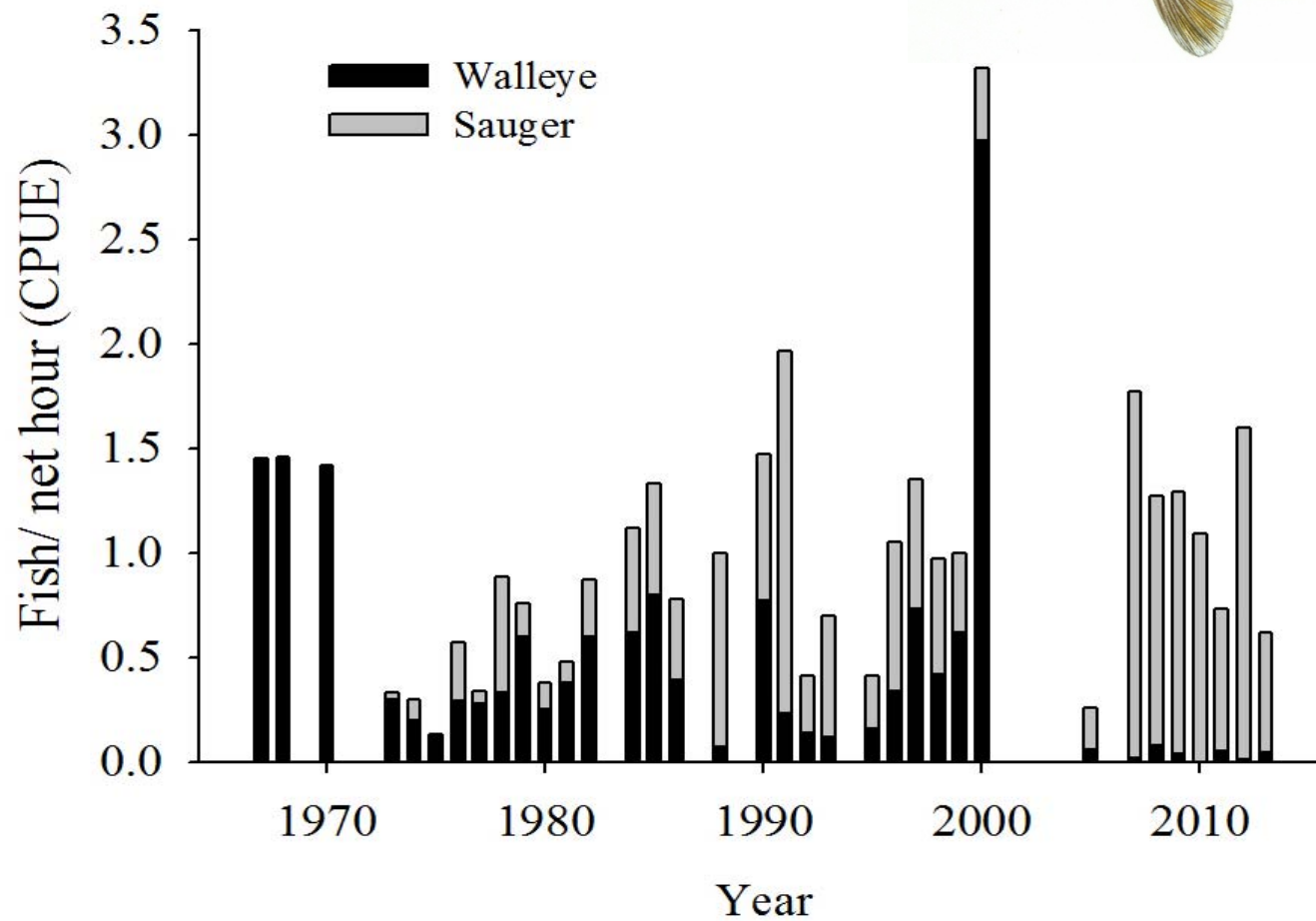


Sauger & Walleye

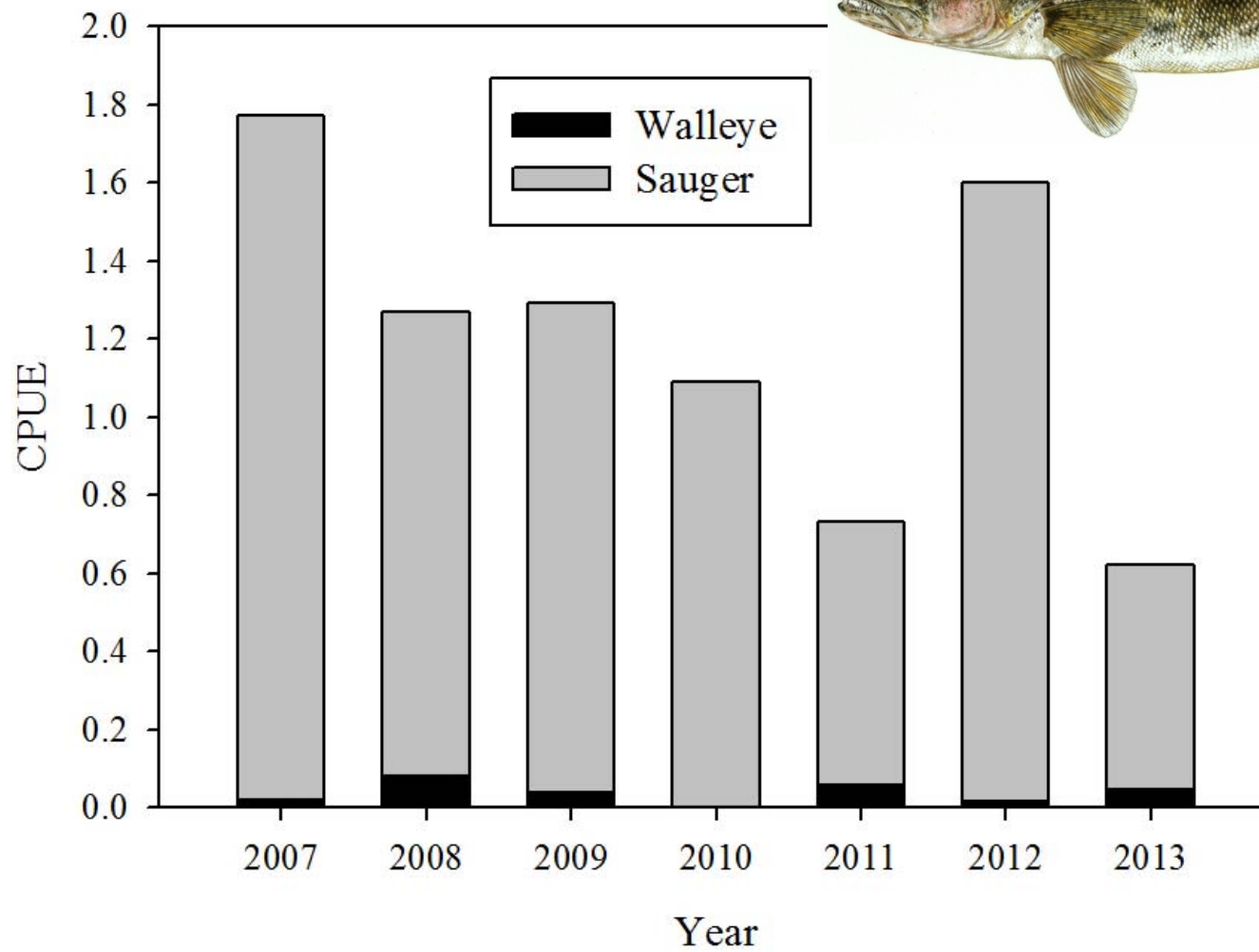
- Gill Nets
 - Fall
- Tagging
- Shoreline electrofishing
- Spawning grounds in river



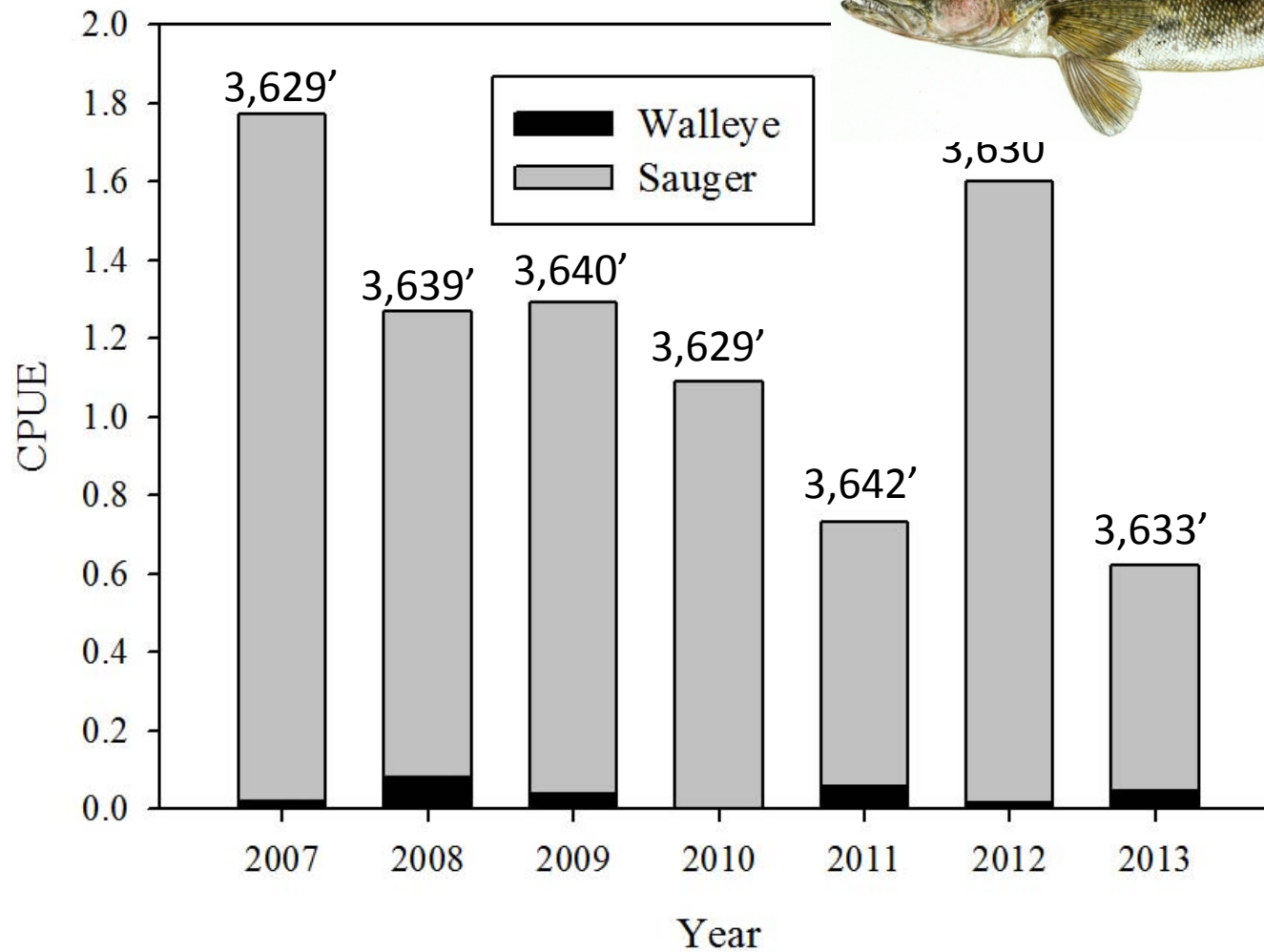
Sauger & Walleye



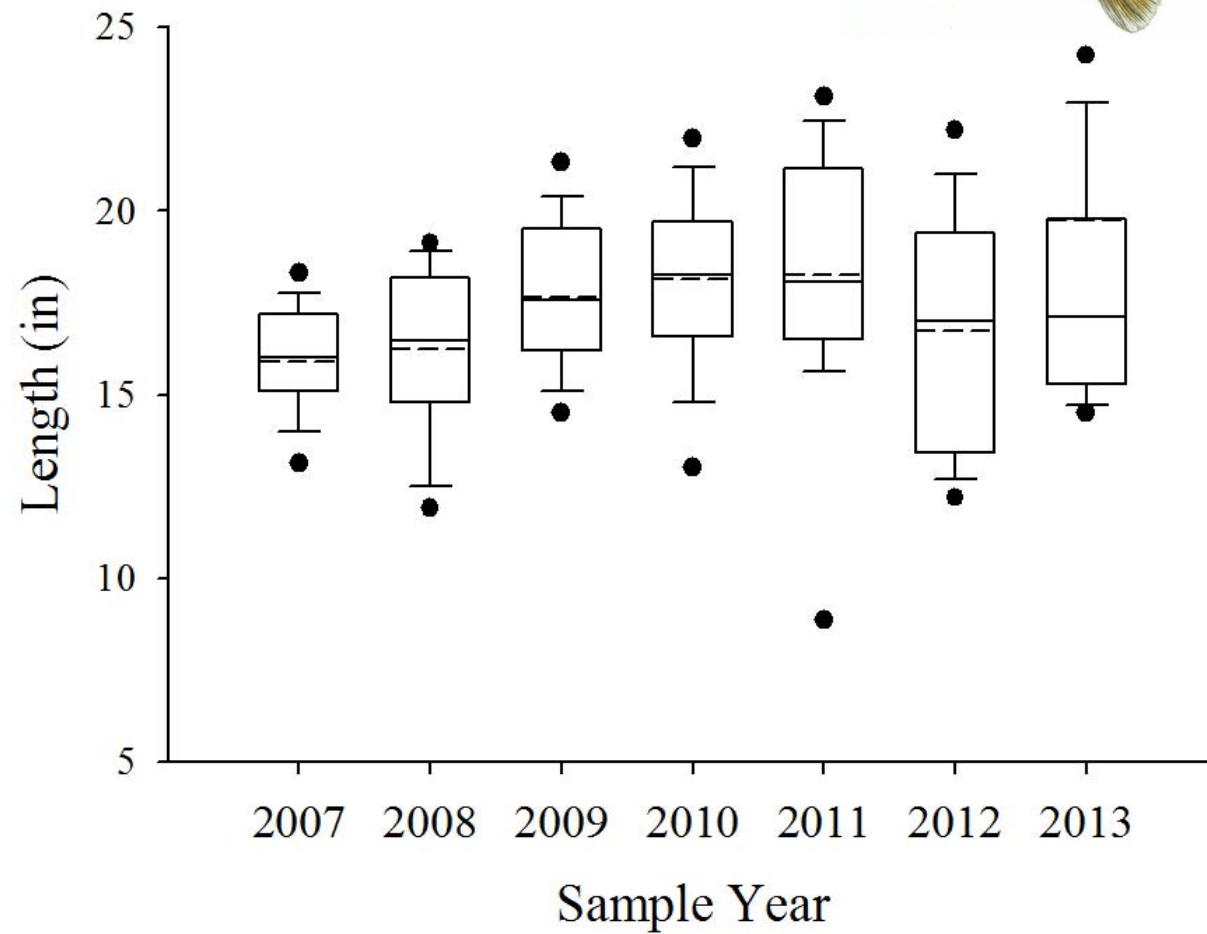
Sauger & Walleye



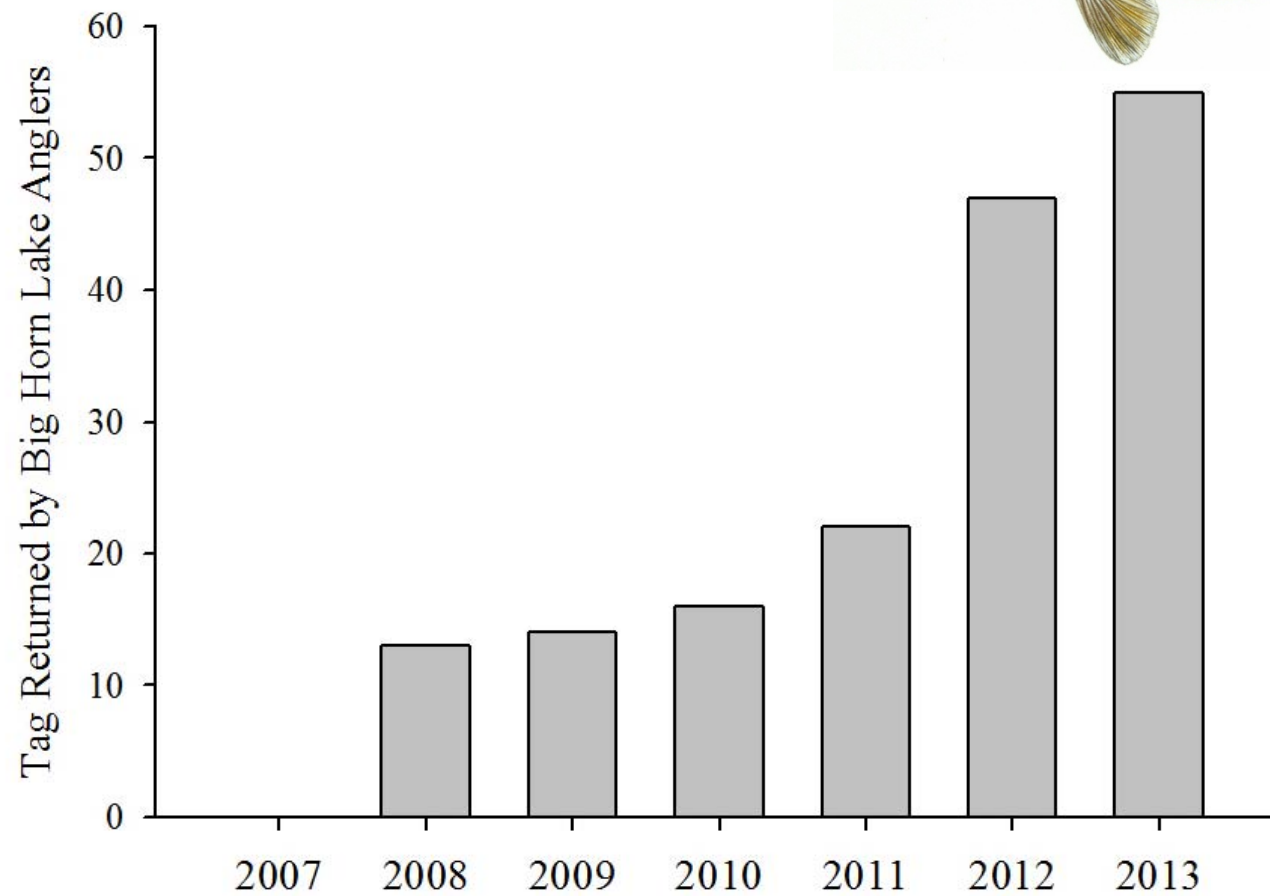
Sauger & Walleye



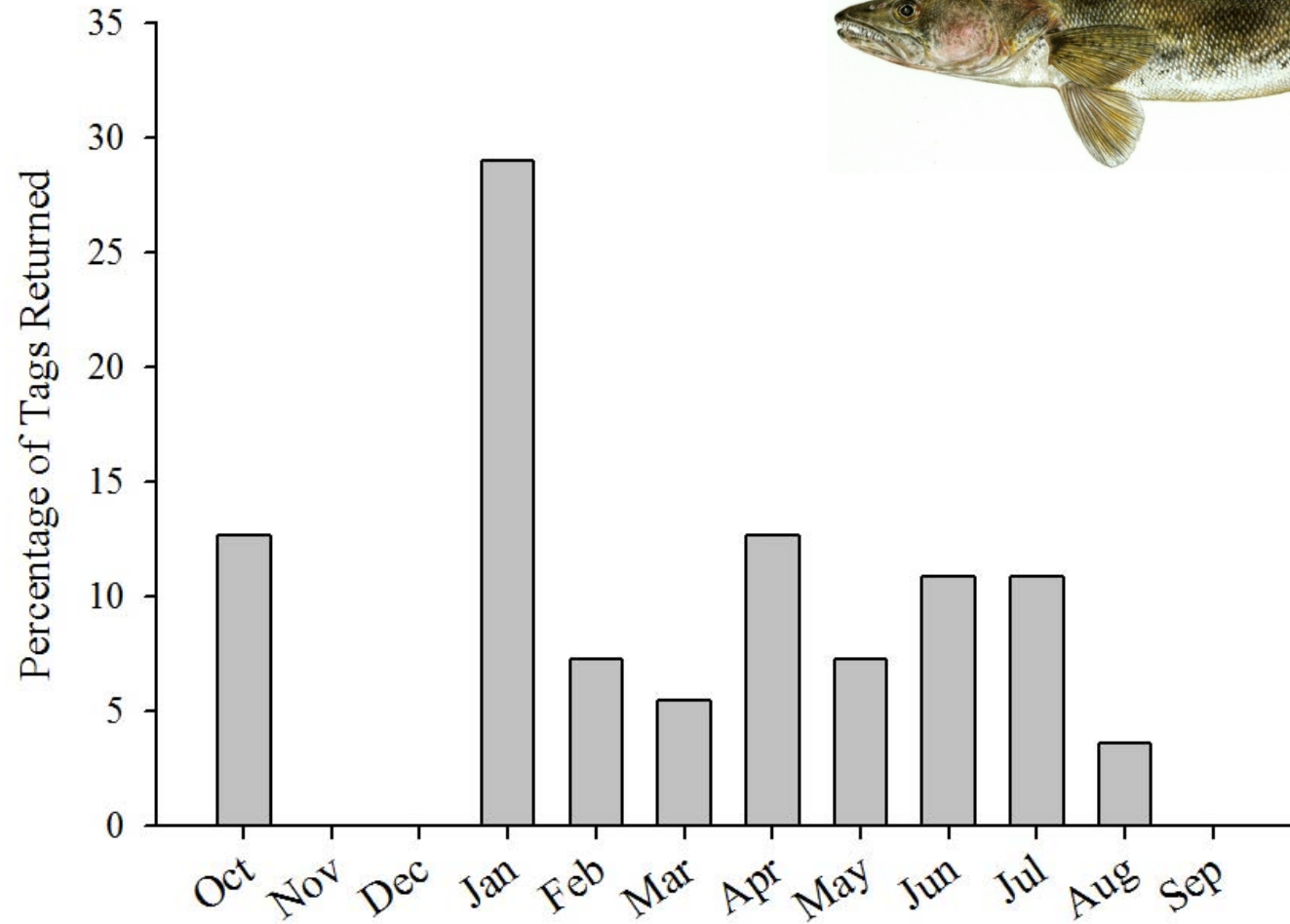
Sauger



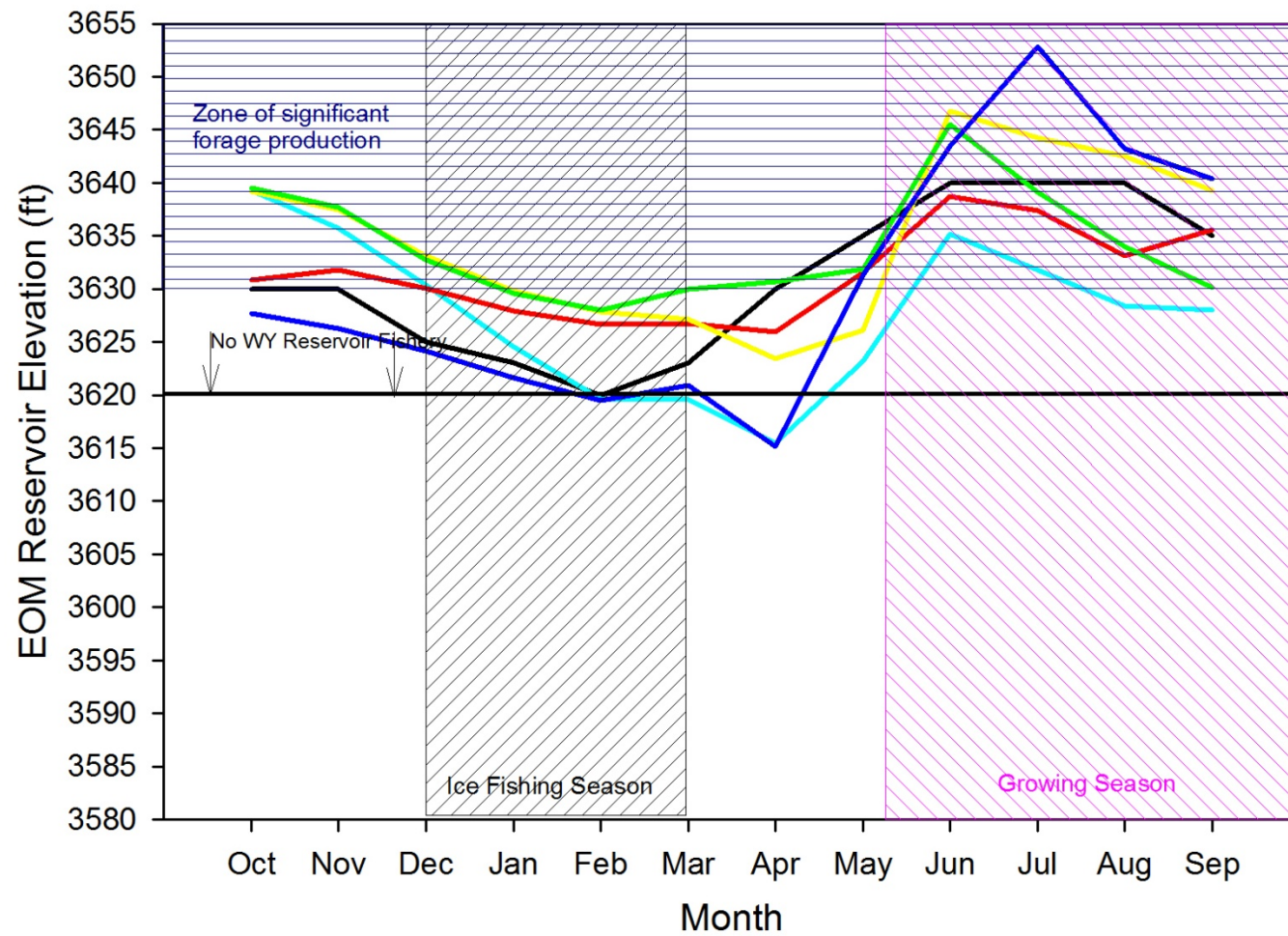
Sauger



Sauger



Model



Hatchery Supplementation of Sauger



Goal:

- Stock 250k – 500k sauger in MT portion of reservoir for up to 3 consecutive years.



Hatchery Supplementation of Sauger



2011

- 716 captured
- 19 females spawned
- 1.5 million eggs
- 350k hatched
- 48k fingerlings stocked

2012

- 925 captured
- 48 females spawned
- 6 million eggs
- 60k hatched
- 0 fingerlings stocked



Hatchery Supplementation of Sauger



2013 – year 3:

- Determine ways to increase the percentage of captured females that ripen.
 - 1) Alternative holding environment (water tank)
 - 2) Use of gonadotropin hormone



Hatchery Supplementation of Sauger



Treatment	Total Number	Number Spawned	Prop. Spawned
CR	28	4	0.14
CT	21	1	0.05
HR	23	2	0.09
HT	20	5	0.25

2013

- 244 captured
- 15 females spawned
- 1.2 million eggs
- 800k hatched
- 105k fingerlings stocked

Questions?

