

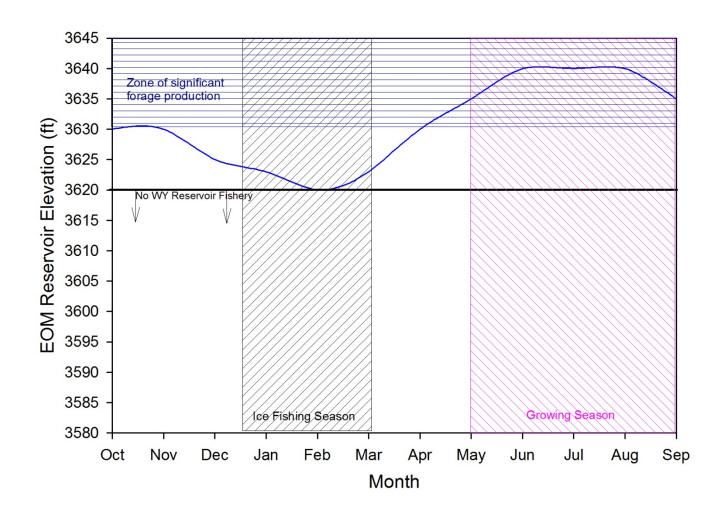


- -Overview of sauger fishery
- -Update on sauger egg-take.

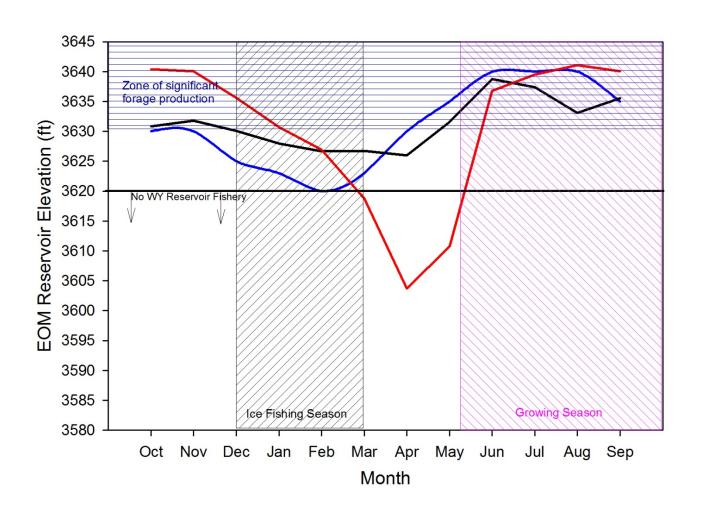




#### Model

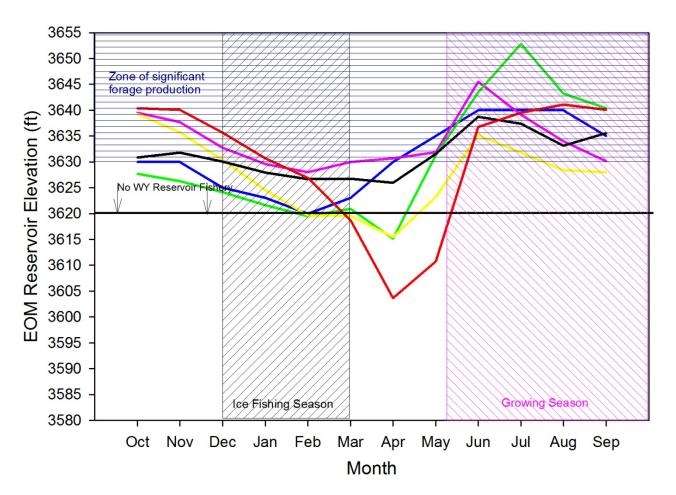


#### 2013 and 2014



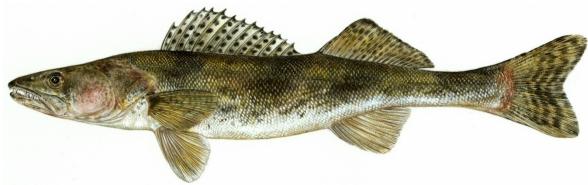


## 5 years





# Monitoring



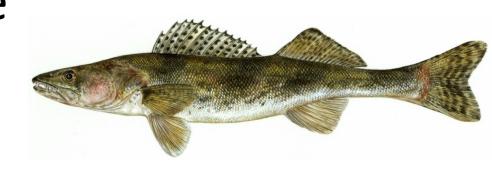






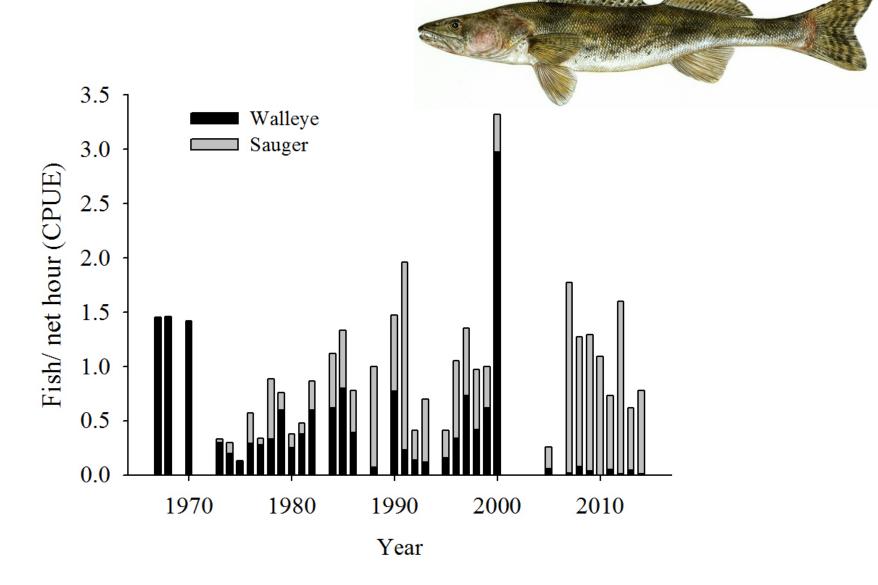
## Sauger & Walleye

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



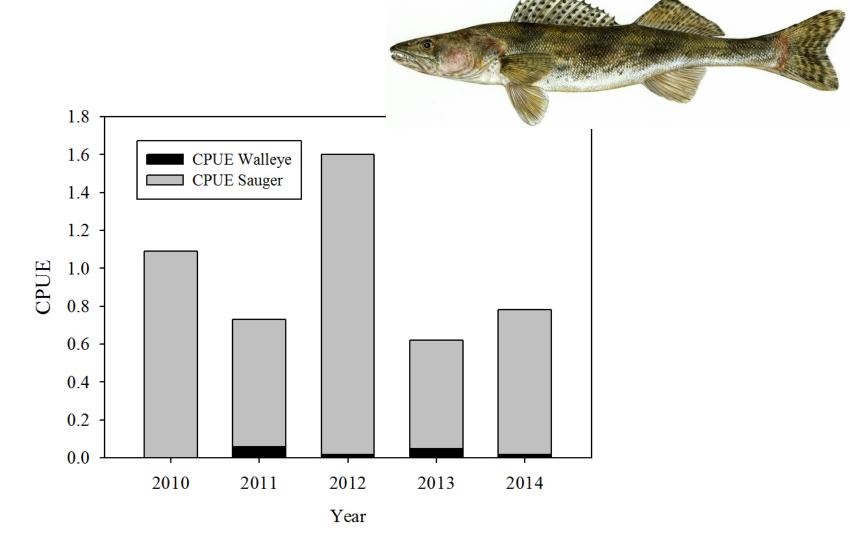


Sauger & Walleye

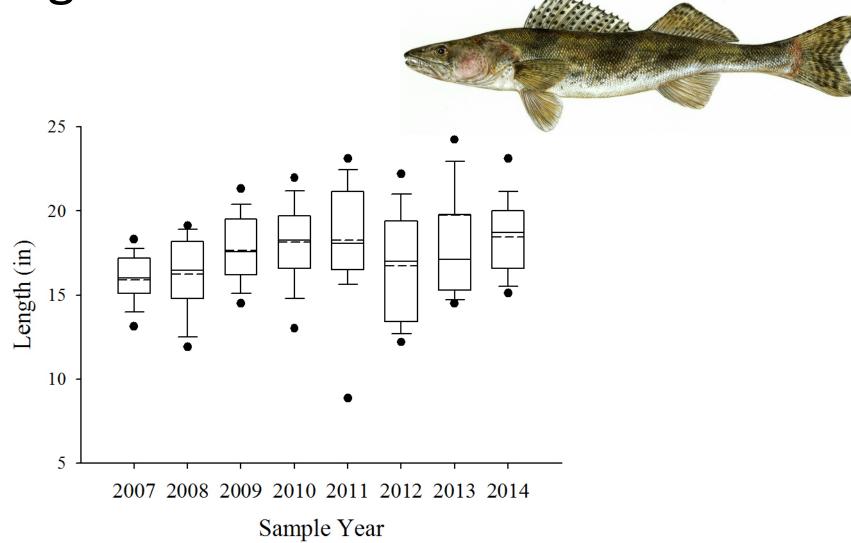




Sauger & Walleye









## The Plus Side of Big Water Years

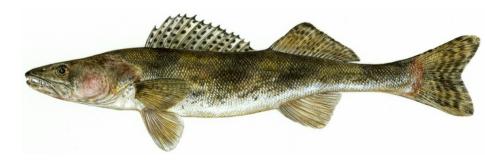
River flows and temperature patterns more optimal for recruitment







## Update on Sauger Egg-Take



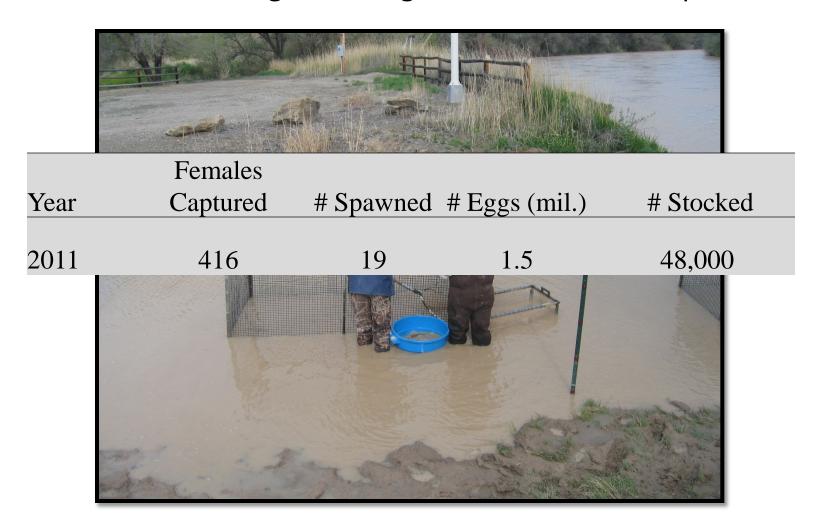
#### **Goal:**

-Determine the feasibility of supplementing the Big Horn Lake sauger population with hatchery produced fish.

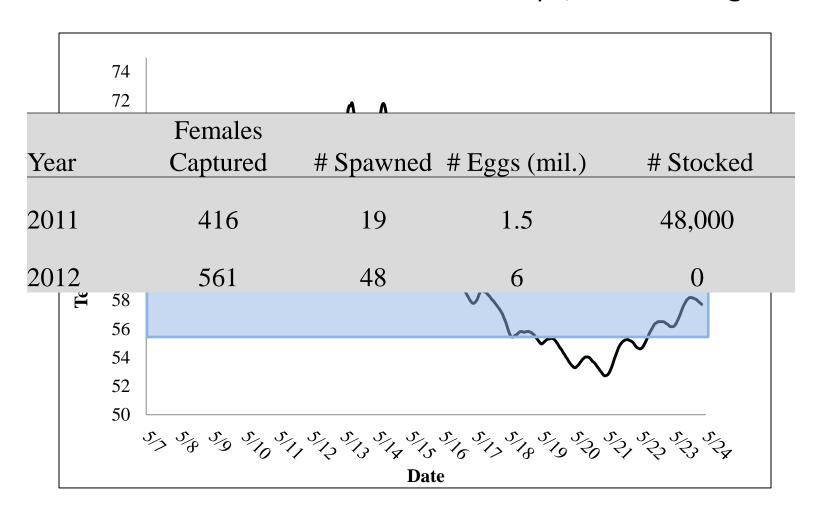
#### **Objectives:**

- -Collect up to 5 million eggs in WY and incubate, rear, and stock fish in MT.
- -Annually stock 250 500 k fingerling sauger in the MT portion of Big Horn Lake.

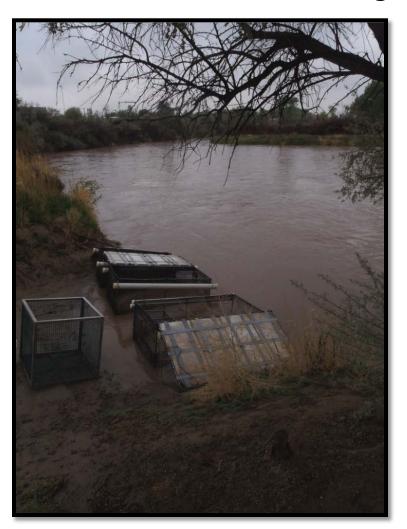
**2011** – high discharge and low water temps



2012 and 2013 – elevated water temps, low discharge



2013 – Designed Experiment







#### **2013 Controlled Experiment**

Treatment	N	% Spawned
Hormone – Net pen	23	9
Control – Net pen	28	14
Hormone – Tank	20	25
Control – Tank	21	5





Year	Females Captured	# Spawned	# Eggs (mil.)	# Stocked
2011	416	19	1.5	48,000
2012	561	48	6	0
2013	144	15	1.2	105,000





# Sauger Egg-Take

2014 - 4th Year







#### **2014 Results**

Treatment	N	% Spawned
Hormone – Tank	123	55
Control – Tank	42	14





	Females			
Year	Captured	# Spawned	# Eggs (mil.)	# Stocked
2011	416	19	1.5	48,000
2012	561	48	6	0
2013	144	15	1.2	105,000
2014	165	61	7.1	176,202

329,202

## Sauger Egg-Take Summary

- -It's proven harder than we originally thought.
- -Stable holding environment and hormone key to improving female ripening.
- -Still a lot to learn on the hatchery end.
- -Future of the project in limbo.





