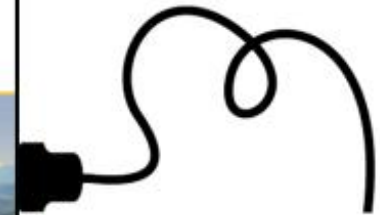
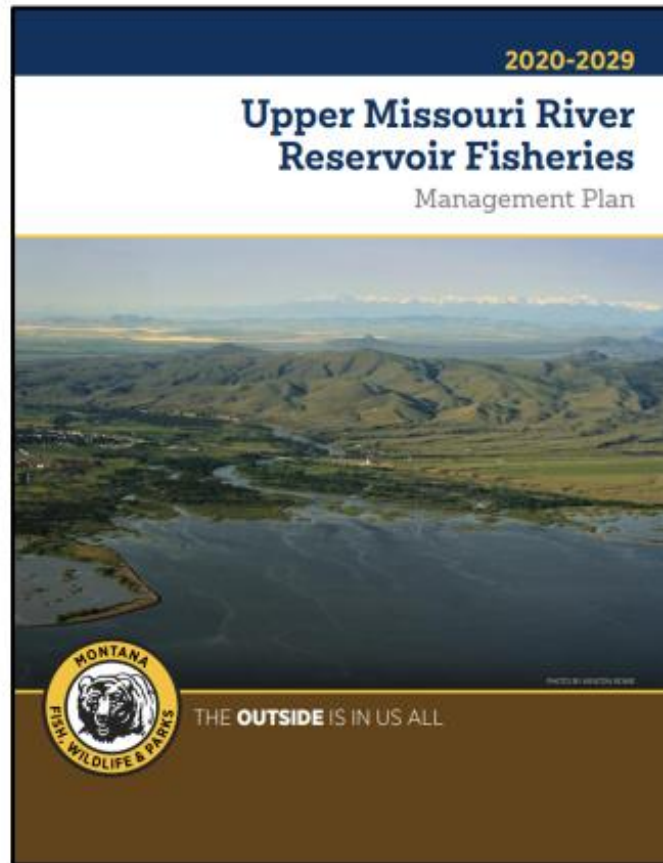


# UMRRFMP CAC Meeting

Winter 2022

Data



Management  
Strategies



# Updates

## HQ Fisheries Staff:

Ryce or Roberts

## CAC Member Reports:

Agee

Bratlien

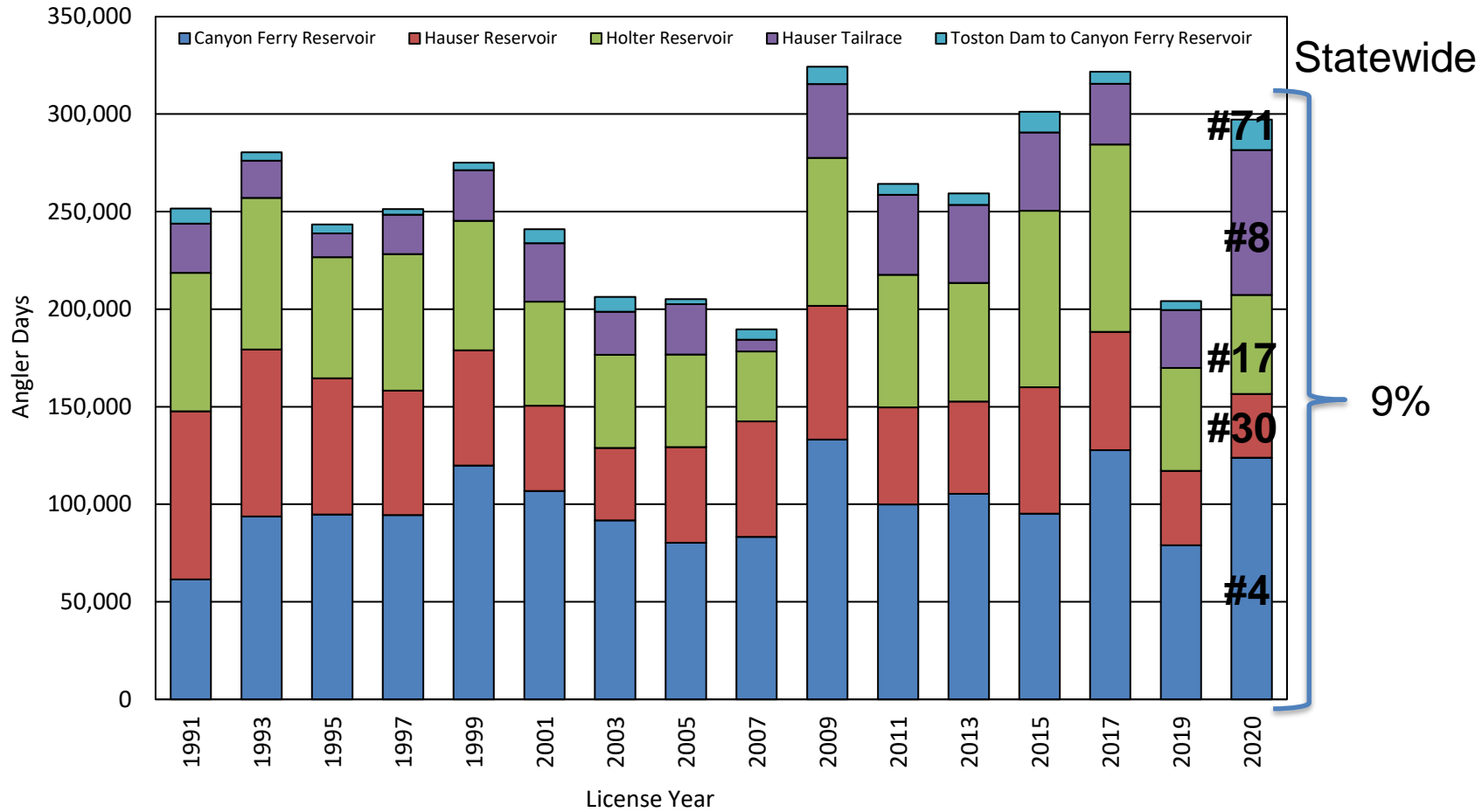
Cardinal

Gilbert

Kresge

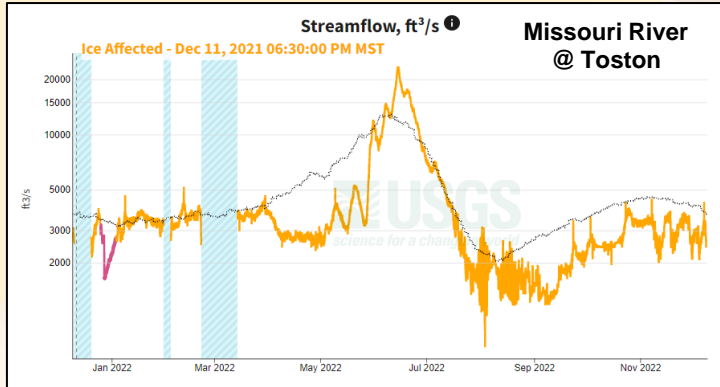


# 2020 Angler Pressure Survey



# Water – 2022 & 2023

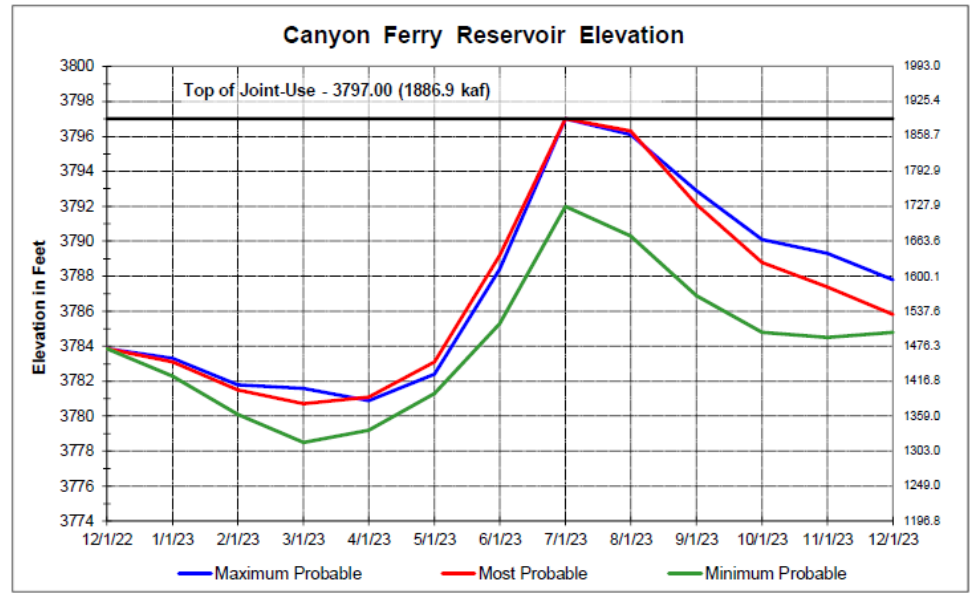
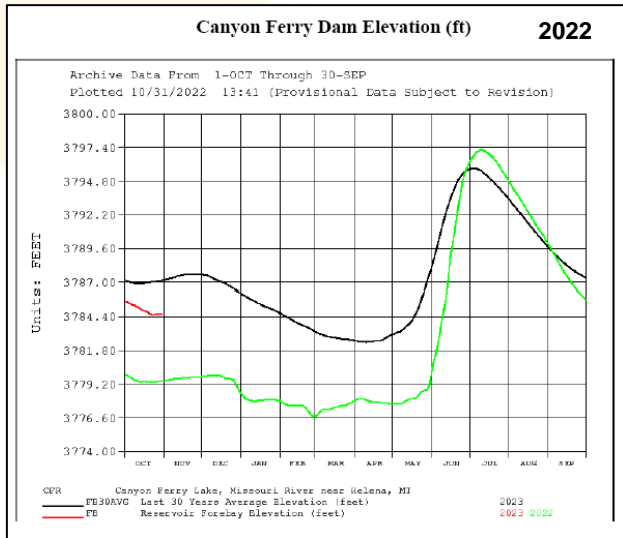
## 2022 Water Levels & 2023 Forecast



### Operating Outlook

2023

The graphs below depict a range of possible reservoir elevations and river releases over time. The most probable plan is based on the December through February volume forecast. The maximum and minimum plans are based upon ranges of possible inflow volumes due to basin variabilities and forecast uncertainties.



# River Section Update

## Missouri River – Toston Dam to Canyon Ferry Reservoir

### River Sections

The primary plan goal for the two river sections is to emphasize management for wild trout while recognizing the importance of walleye, burbot and kokanee (Hauser Tailrace only) for providing additional angling opportunity.

- Management decisions based on standardized CPUE surveys (e.g., electrofishing)

River Section Species Goals					
	Species				
	Rainbow trout	Brown trout	Walleye	Northern Pike	Kokanee
Toston Dam to Canyon Ferry Reservoir	1.0 per minute	0.40 per minute	Monitor	Suppress	Monitor
Hauser Dam to Hoiter Reservoir	3,500 per mile	150 per mile	Monitor	Suppress	Monitor



# Missouri River Above Canyon Ferry



# 2022 Highlights

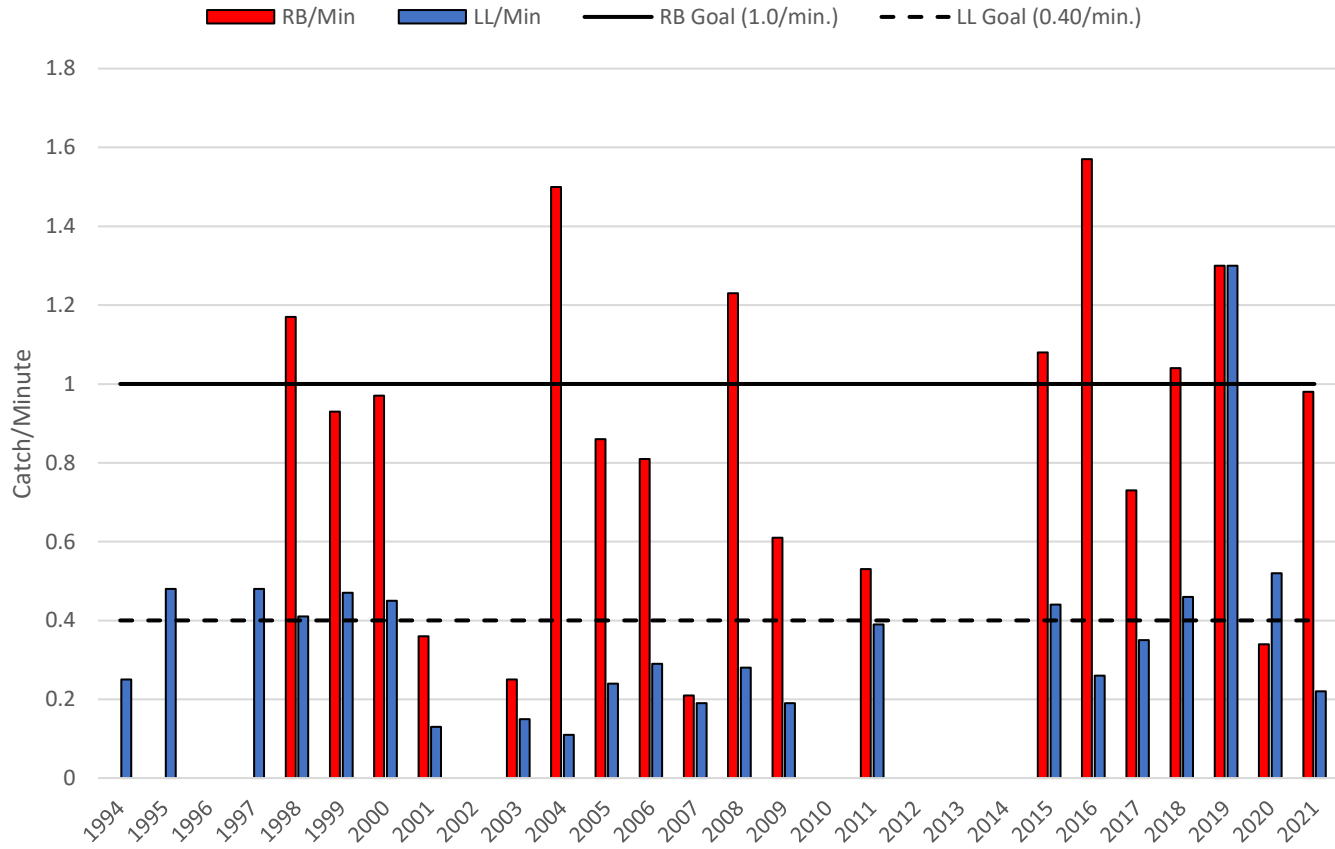


- FWP and DNRC reach new fishery mitigation deal related to hydropower at Toston Dam.
- Water lease to prevent dewatering in Deep Creek implemented.
- Began Brown Trout study to assess habitat fragmentation by Toston Dam.



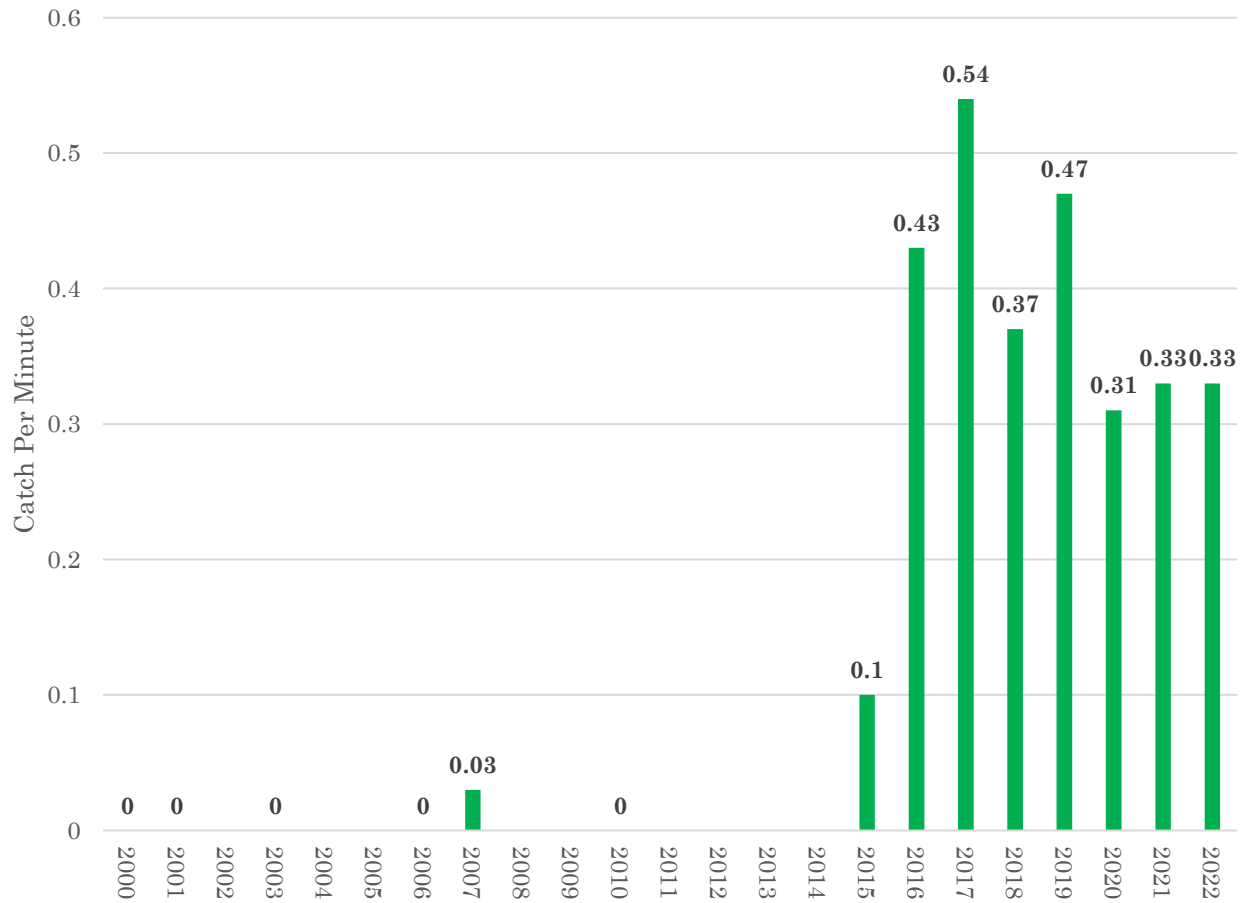
# Missouri River - Trout

Toston Dam to CFR - CPUE E-Fishing Survey Section





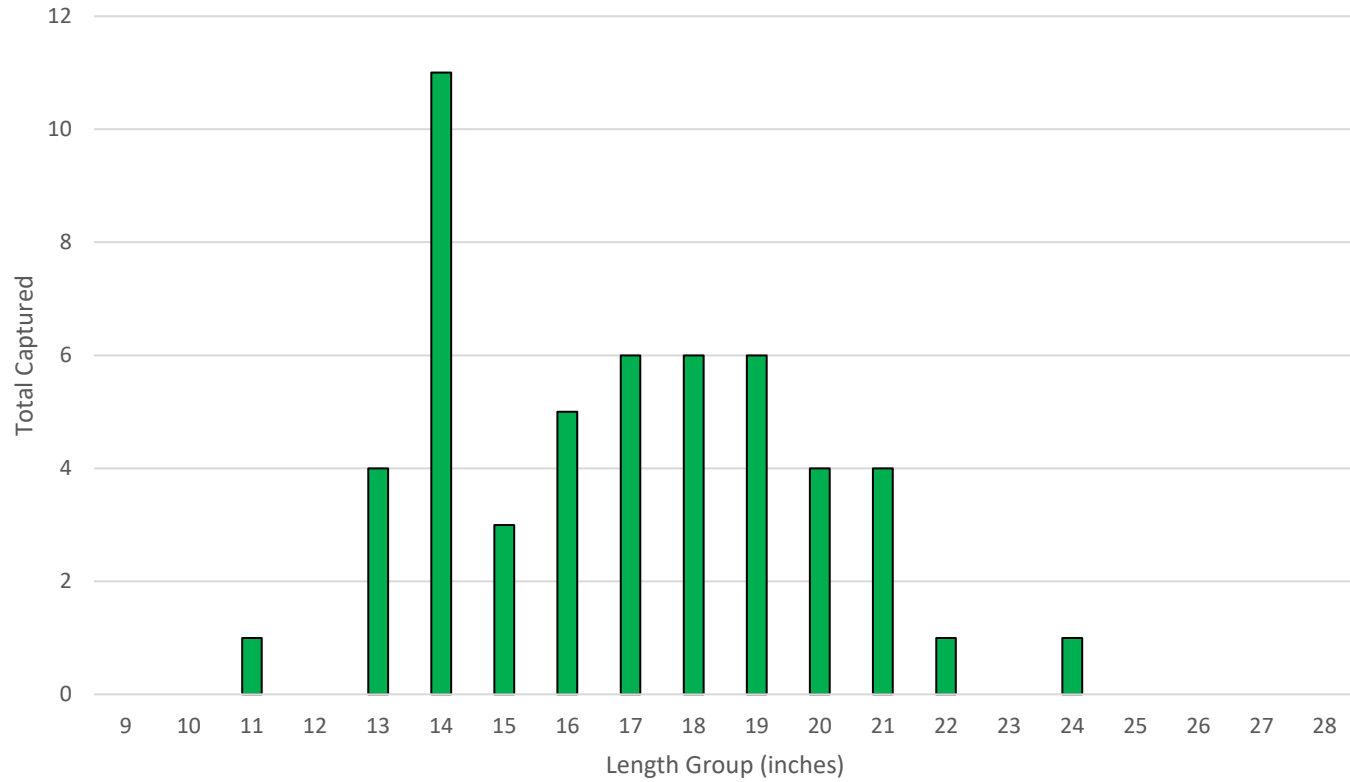
## Missouri River Catch Per Unit Effort Trend (Spring) Walleye



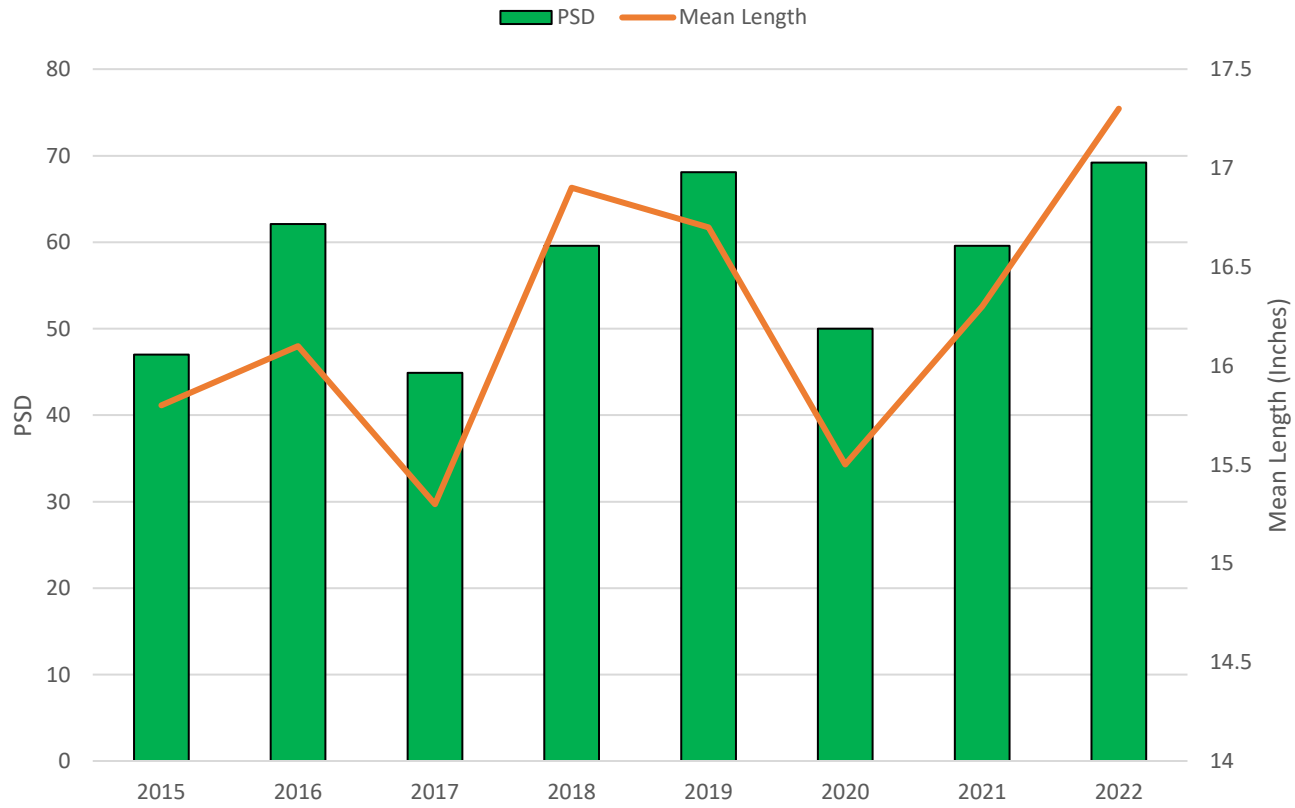
# Missouri River - Walleye

2022 Spring E-fishing Survey - Histogram

(PSD = 69; Mean Length = 17.3 ")



# Missouri River Walleye Size Trend - 2015-22



# River Section Update

## Missouri River – Hauser Dam to Holter Reservoir

### River Sections

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- Management decisions based on standardized CPUE surveys (e.g., electrofishing)

River Section Species Goals					
	Species				
	Rainbow trout	Brown trout	Walleye	Northern Pike	Kokanee
Coston Dam to Canyon Ferry Reservoir	2.0 per minute	0.40 per minute	Monitor	Suppress	Monitor
Hauser Dam to Holter Reservoir	3,500 per mile	150 per mile	Monitor	Suppress	Monitor



# Missouri River Tailwater Surveys

Holter Dam Tailwater E-fishing – % Hatchery RB's



Hauser Dam Tailwater Creel

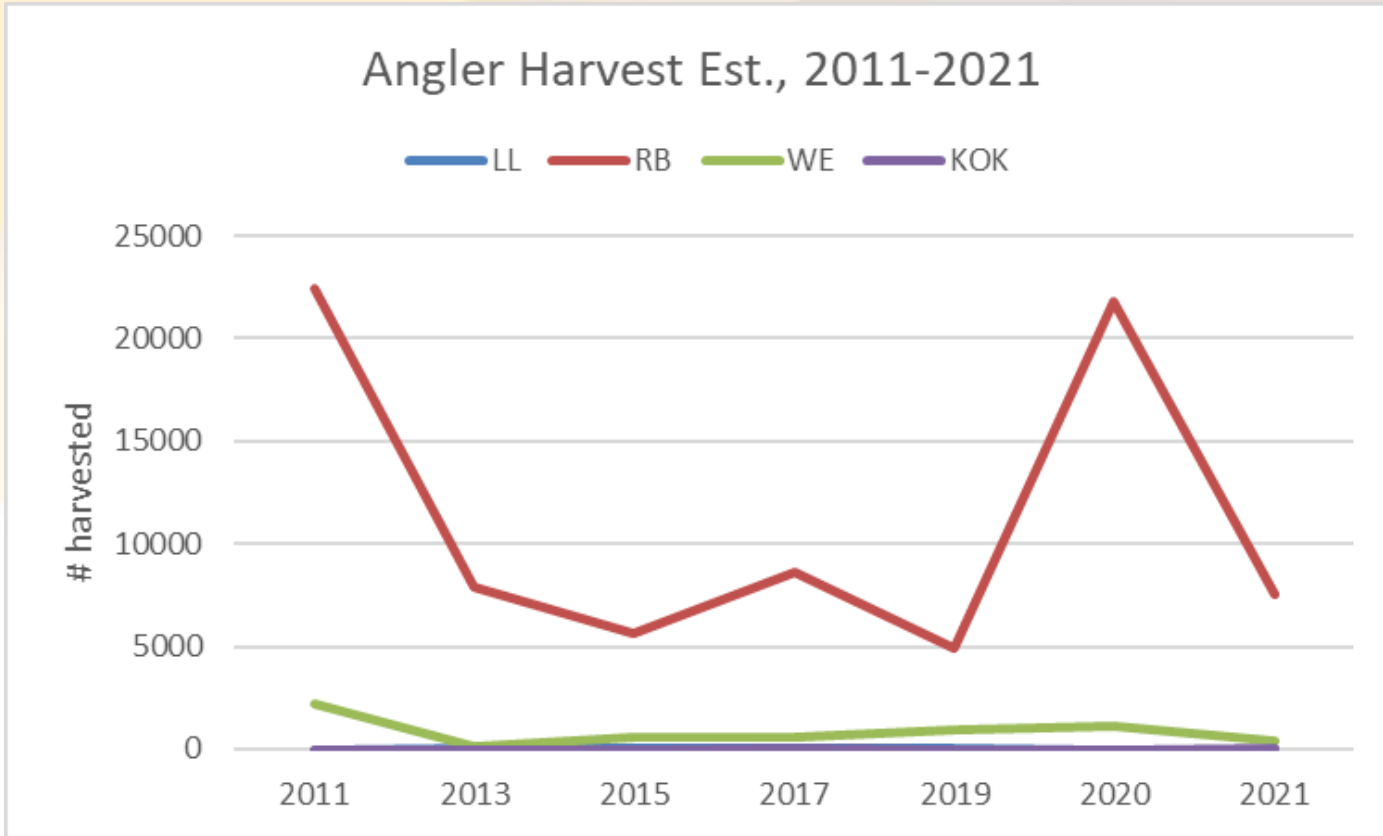
	Year	RB % Hatchery	
	1986	19.3	
	1987	3.4	
	1993	14.8	
	2004	2.3	
	2006	1.3	
	2008	9.7	
2011	2010	9.9	MO @ Toston
	2012	37.6	29.5K CFS
	2014	27.9	
	2016	14.8	
	2018	15.4	MO @ Toston
	2020	13.6	
	2022	4.6	

Month	# Interv	Hours	RB	KOK	LL	WE	RB/HR	KOK/HR	LL/HR	WE/HR	# Boats
January	23	48.1	15	0	1	0	0.31	0.00	0.02	0.00	0
February	24	57.2	42	0	0	0	0.73	0.00	0.00	0.00	0
March	187	493.8	309	0	3	8	0.63	0.00	0.01	0.02	30
April	433	1465.4	1704	0	3	9	1.16	0.00	0.002	0.01	130
May	309	850.4	619	0	17	4	0.73	0.00	0.02	0.005	81
June	264	827.8	381	0	6	17	0.46	0.00	0.007	0.02	68
July	280	716.7	362	0	9	13	0.51	0.00	0.01	0.02	92
August	247	618.5	584	0	4	4	0.94	0.00	0.01	0.01	60
September	229	558.0	352	0	8	5	0.63	0.00	0.01	0.01	56
October	234	632.5	556	68	9	10	0.89	0.12	0.01	0.02	55
November	72	129.6	94	5	5	0	0.73	0.04	0.04	0.00	0
December											
Totals	2302	6398.0	5018	73	65	70	0.78	0.01	0.01	0.01	572

Missouri River Sec 10A (HA Dam to American Bar) = **74K Angler Days** in 2020



# Missouri River – Hauser Tailwater



Missouri River Sec 10A (HA Dam to American Bar) = **74K Angler Days** in 2020



# Reservoir Section Update

## Canyon Ferry Reservoir

### Reservoir Sections

The UMRRFMP emphasizes management for trout and walleye while recognizing the importance of yellow perch as a game fish and a forage species.

- Management decisions based on standardized Relative Abundance surveys (e.g., gillnetting)
- Introduce Proportional Stocking Density (PSD) to walleye management in reservoirs throughout the plan area. PSD goal for all reservoirs is 30-60.

Reservoir Section Species Goal Ranges (number per net)					
	Species				
	Rainbow trout	Yellow perch	Walleye	Brown trout	Burbot
Canyon Ferry Reservoir	4 to 6	6 to 10	5 to 7	0.5 to 1.5	0.25 to 0.5
Hauser Reservoir	3 to 5	6 to 8	4 to 6	0.5 to 1.5	0.5 to 1.5
Holter Reservoir	4 to 6	8 to 12	4 to 6	NA	0.25 to 0.5





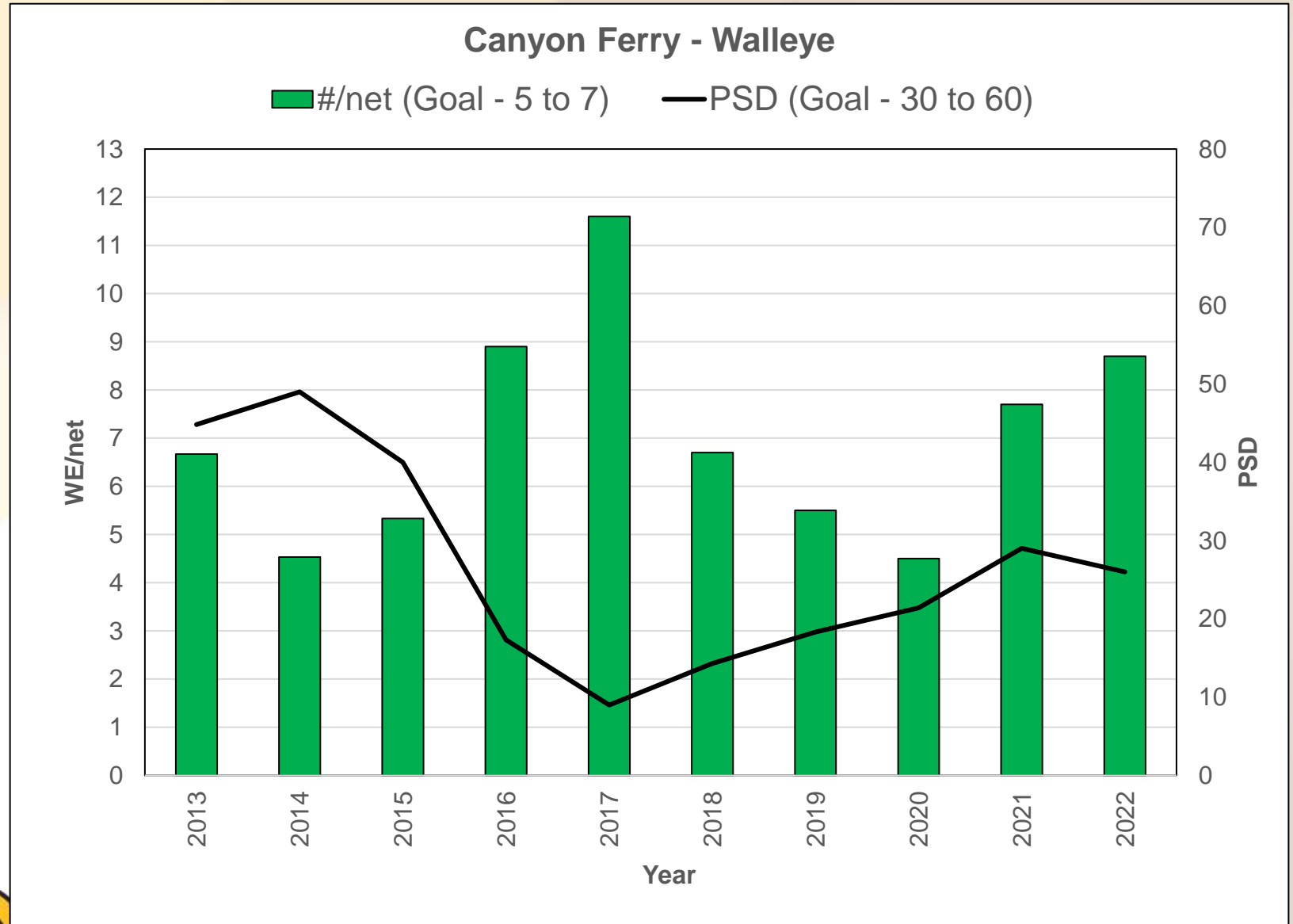
# Canyon Ferry Reservoir – 2022 Fisheries Trends

Troy Humphrey

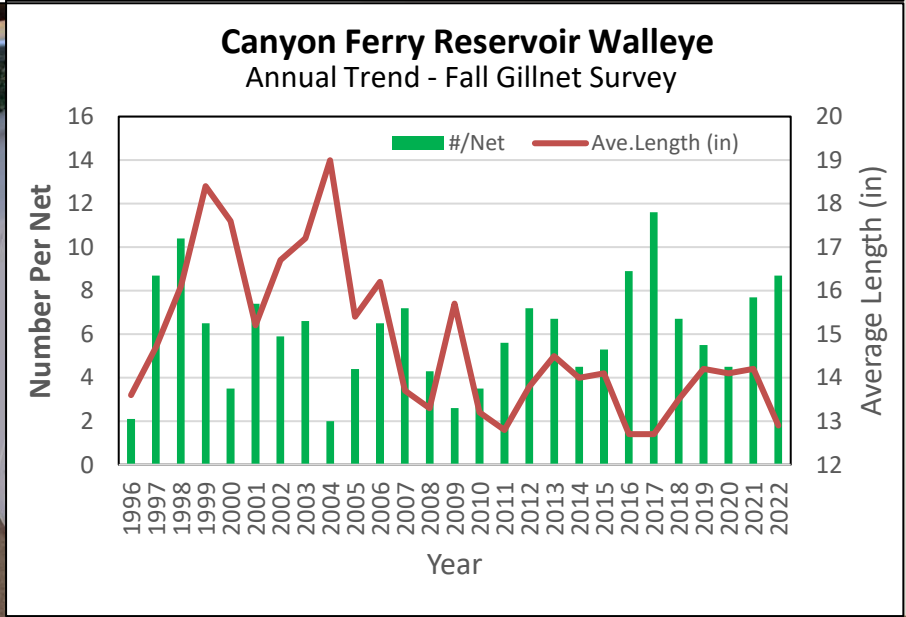
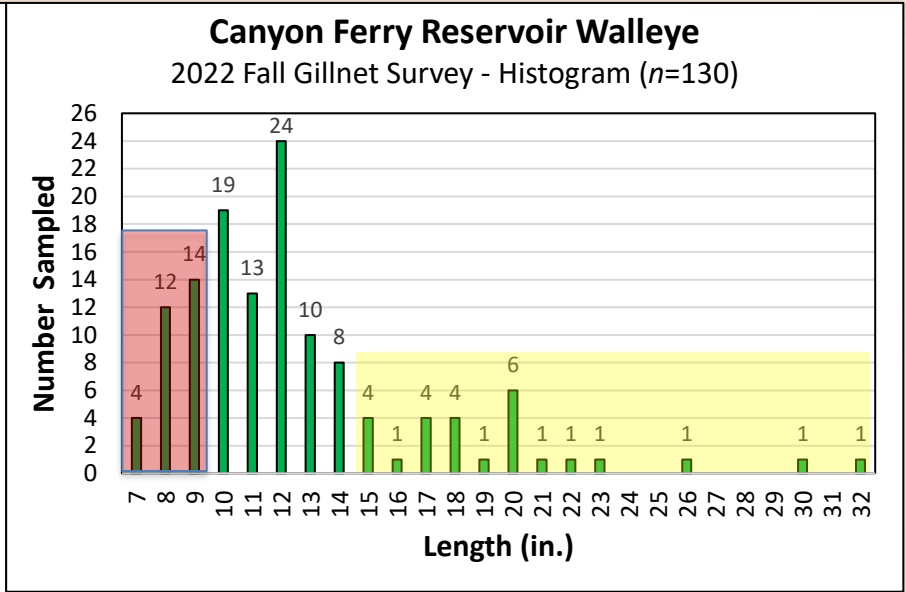
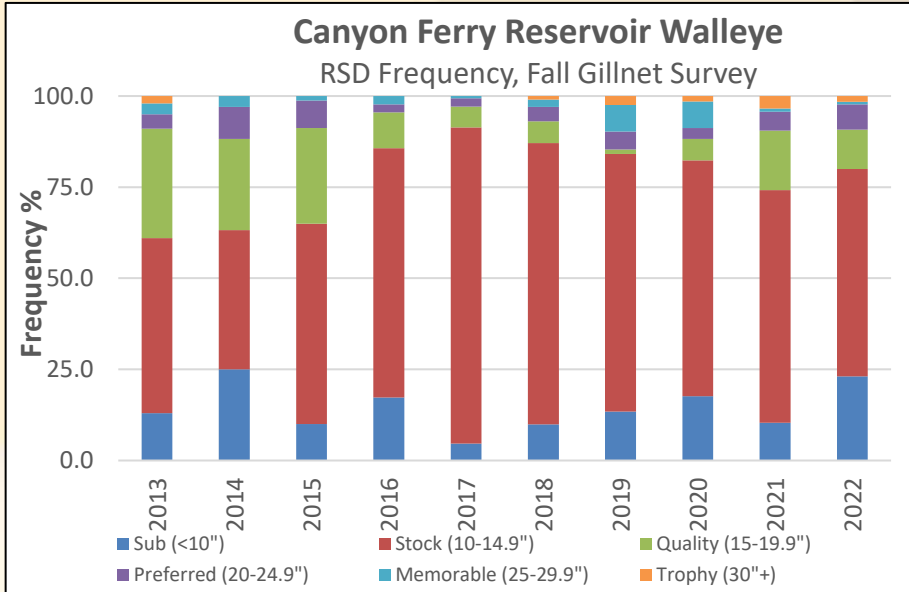




# 2022 Relative Abundance Gillnetting Surveys - Walleye

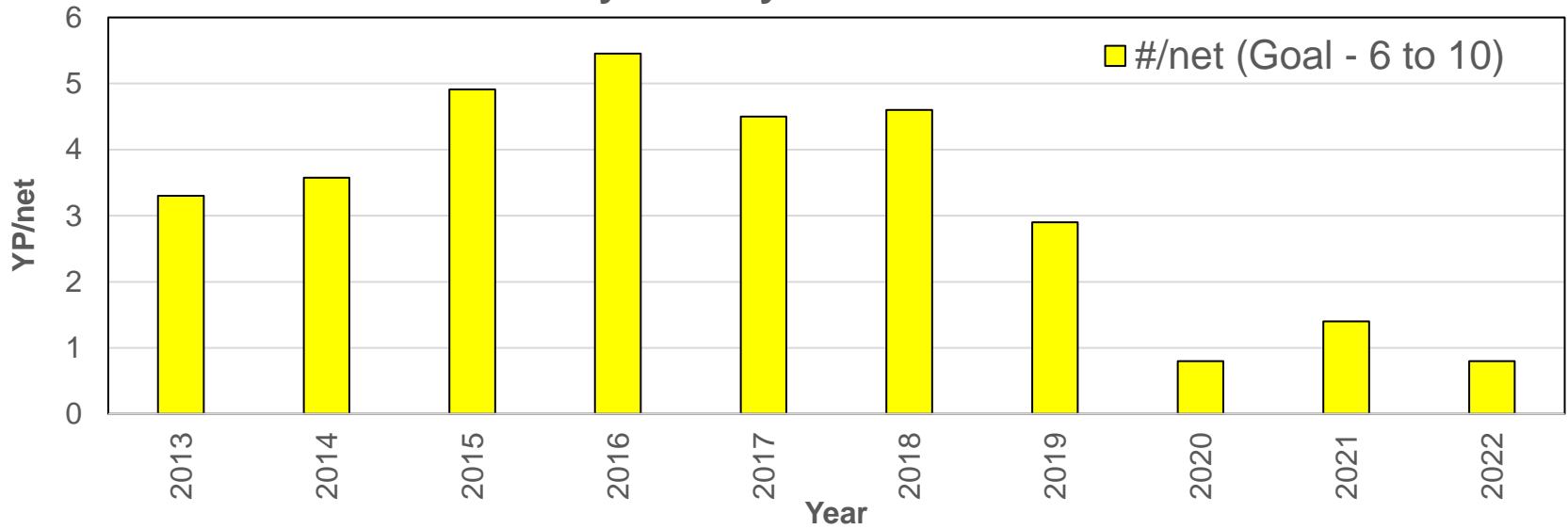


# Canyon Ferry Reservoir Walleye

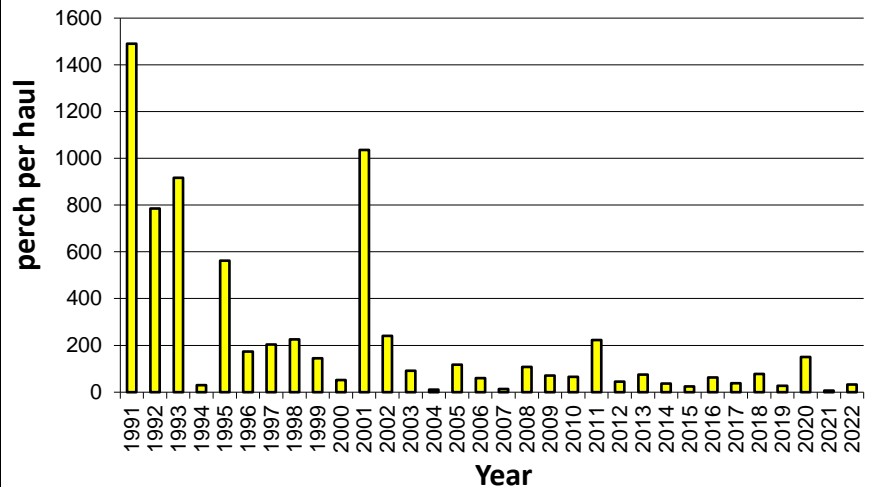


# 2022 Relative Abundance Gillnetting Surveys - Yellow Perch

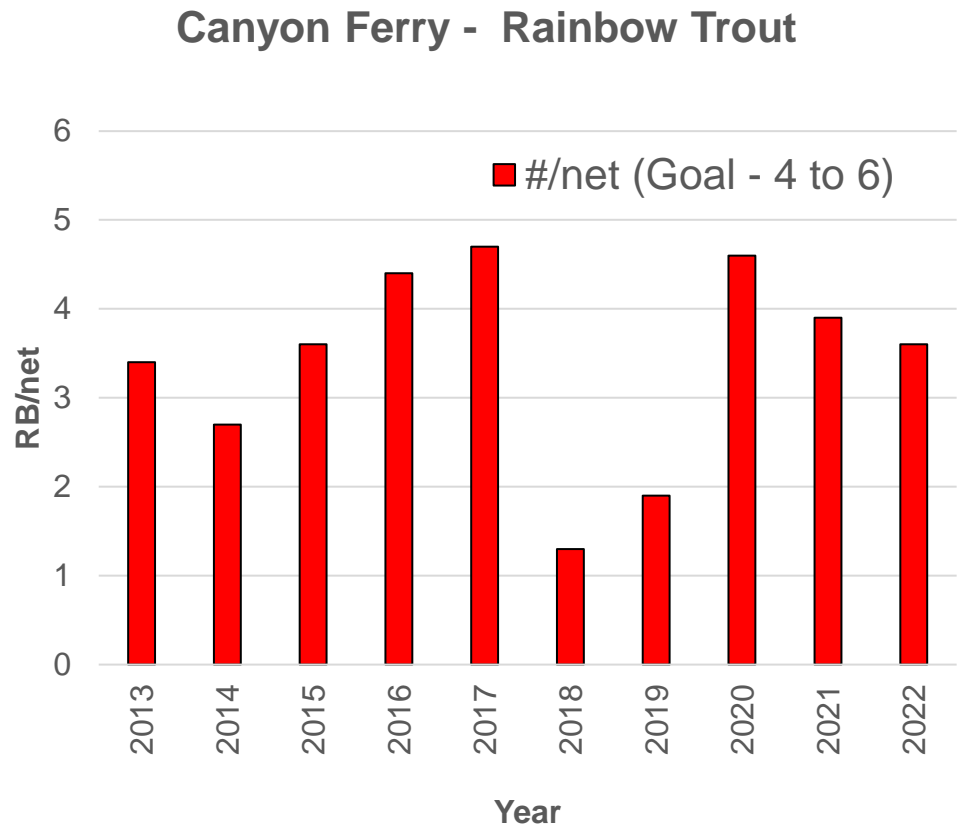
## Canyon Ferry - Yellow Perch



## Summer Beach Seine Survey Yellow Perch Per Haul



# 2022 Relative Abundance Gillnetting Surveys – Rainbow Trout



Stocked 300,000 rainbows in 2021 and 2022. First time since 2015 Canyon Ferry has received its full compliment of stocked rainbows.



## 2022 Highlights:

-Walleye densities increased to 8.7 per net and were above the goal range of 5-7 per net for the second consecutive year

-Walleye average length in nets decreased to 12.9 inches, which dropped PSD's to 26.0 (under minimum goal of 30)

-Second year of Walleye regulation of 10 daily, only one over 15"

-Walleye catch rates were 0.43 for general angler and 0.62 for target angler. Percent kept decreased to 48%

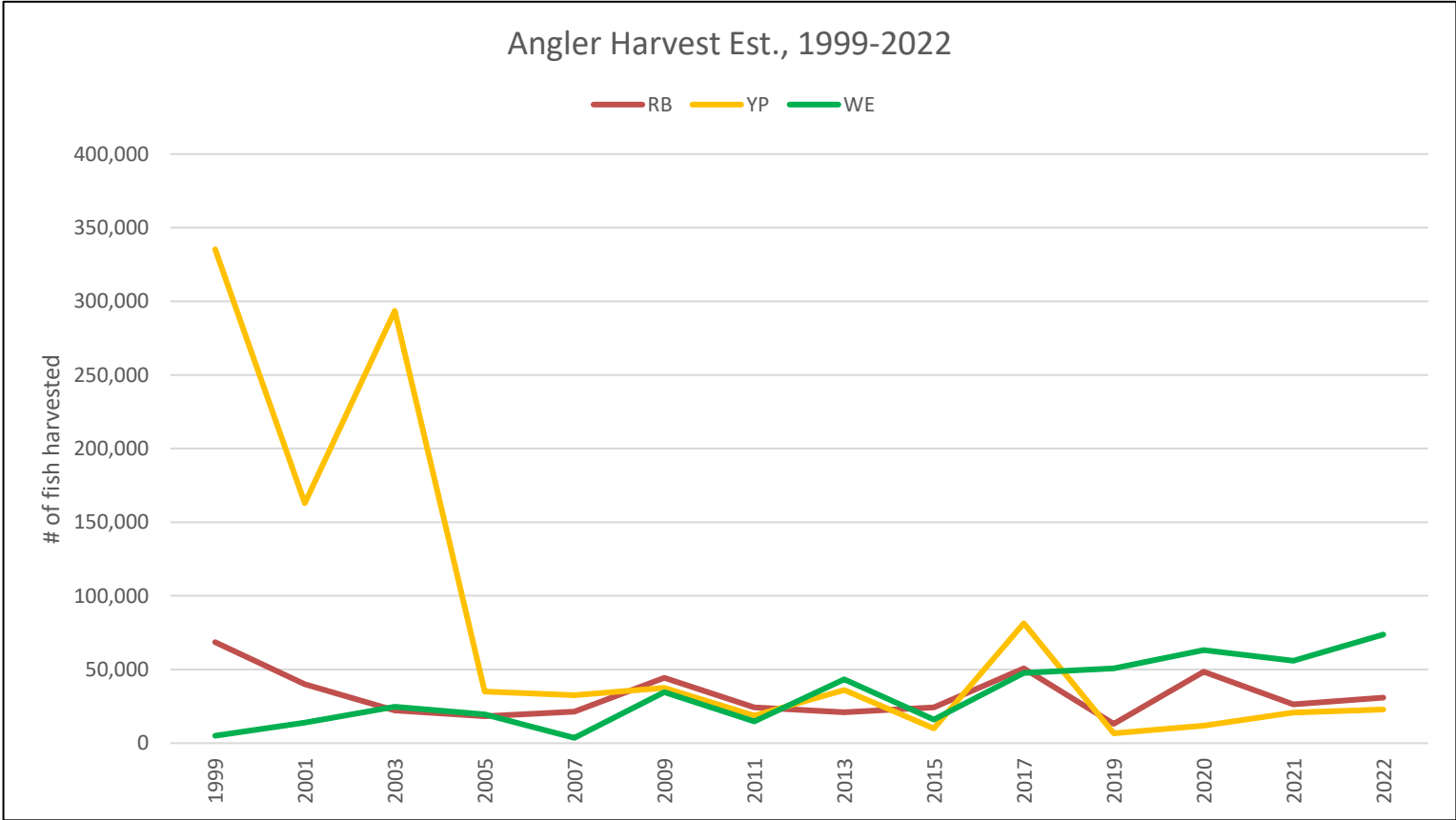
-Yellow perch densities decreased slightly to 0.8 per net

-Rainbow trout densities slightly decreased to 3.6 per net

-Rainbow trout catch rates were 0.12 for general angler and 0.41 for target angler



# CFR Harvest Est. Trends



# Reservoir Section Updates

## Hauser Reservoir

### Reservoir Sections

The UMRRFMP emphasizes management for trout and walleye while recognizing the importance of yellow perch as a game fish and a forage species.

- Management decisions based on standardized Relative Abundance surveys (e.g., gillnetting)
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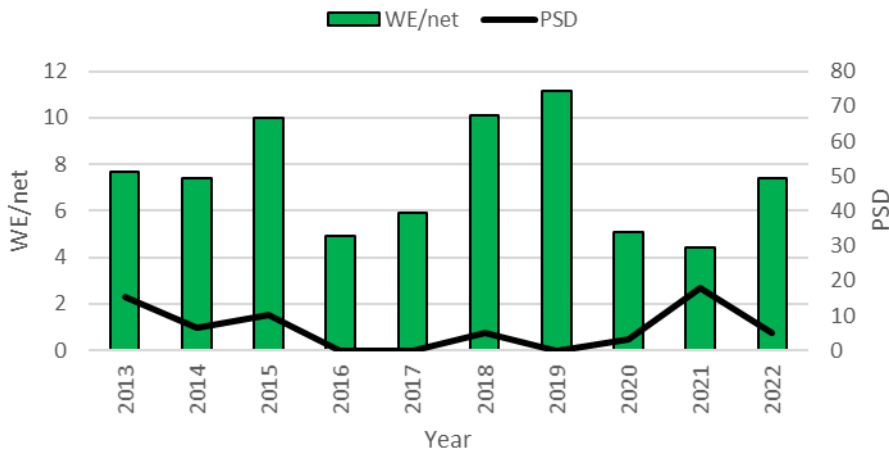
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<b>Hauser Reservoir</b>	<b>3 to 5</b>	<b>6 to 8</b>	<b>4 to 6</b>	<b>0.5 to 1.5</b>	<b>0.5 to 1.5</b>
Hooper Reservoir	4 to 6	6 to 10	4 to 6	NA	0.25 to 0.5



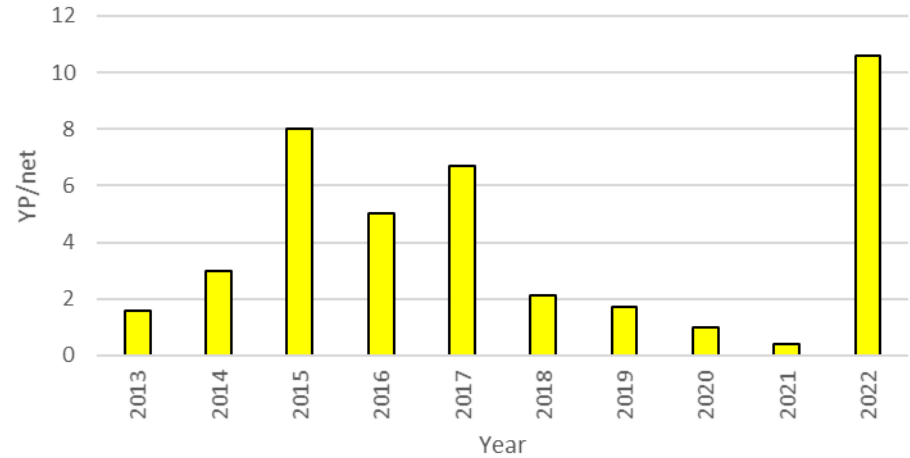
# Hauser Reservoir - Annual Relative Abundance

Fall Gillnetting Surveys

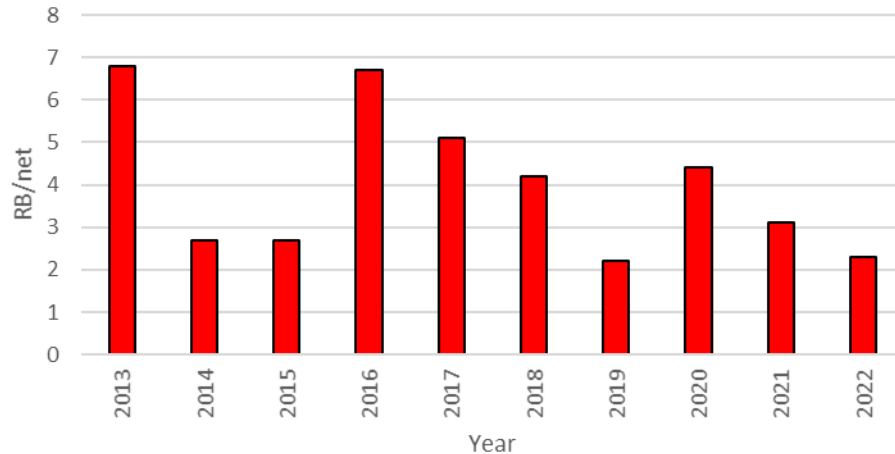
### Hauser Walleye



### Hauser Yellow Perch



### Hauser Rainbow



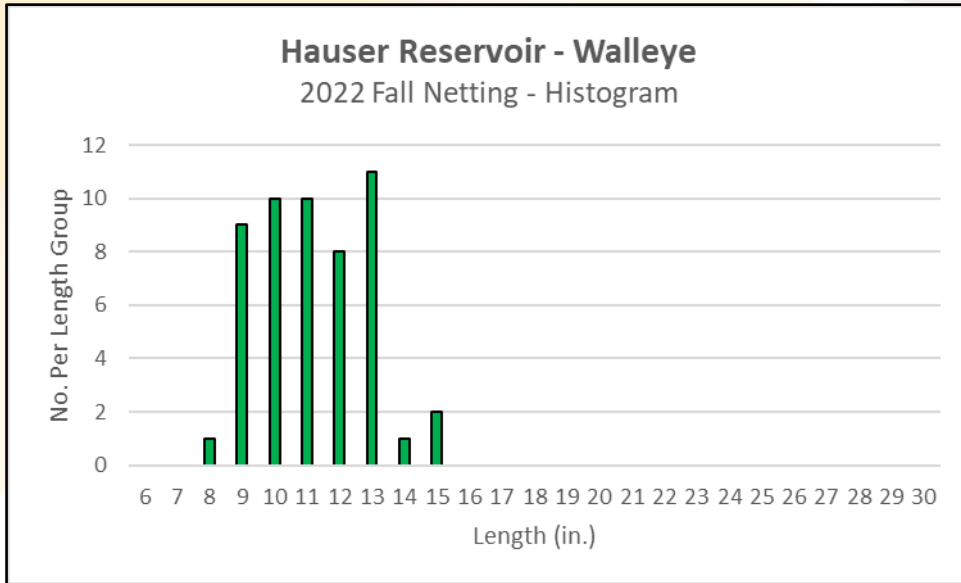
### Goal Ranges:

WE – 4 to 6 (PSD 30-60)  
 YP – 3 to 5  
 RB – 4 to 6





# Hauser – Walleye



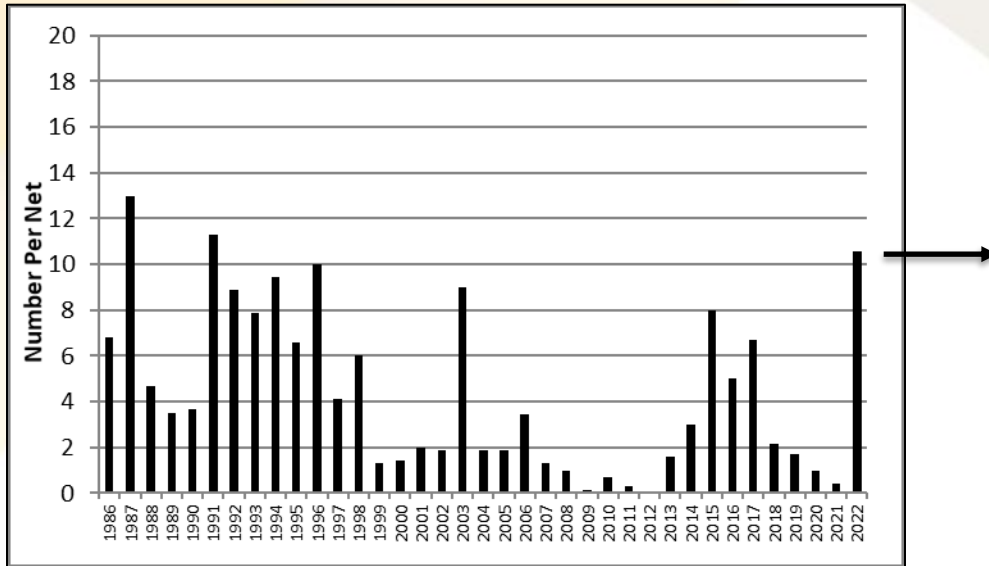
Stomach contents: 40% had “fish parts”



Causeway Arm



# Hauser – Yellow Perch



3<sup>rd</sup> Highest on Record



Causeway Arm





October 2020



2022 Plants

2020 Plant



York



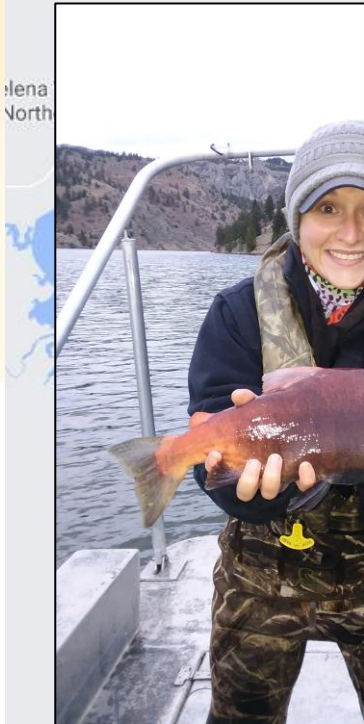
100K

June 2020



Canyon Ferry

284



elena  
North

Wild - October



# Kokanee Salmon



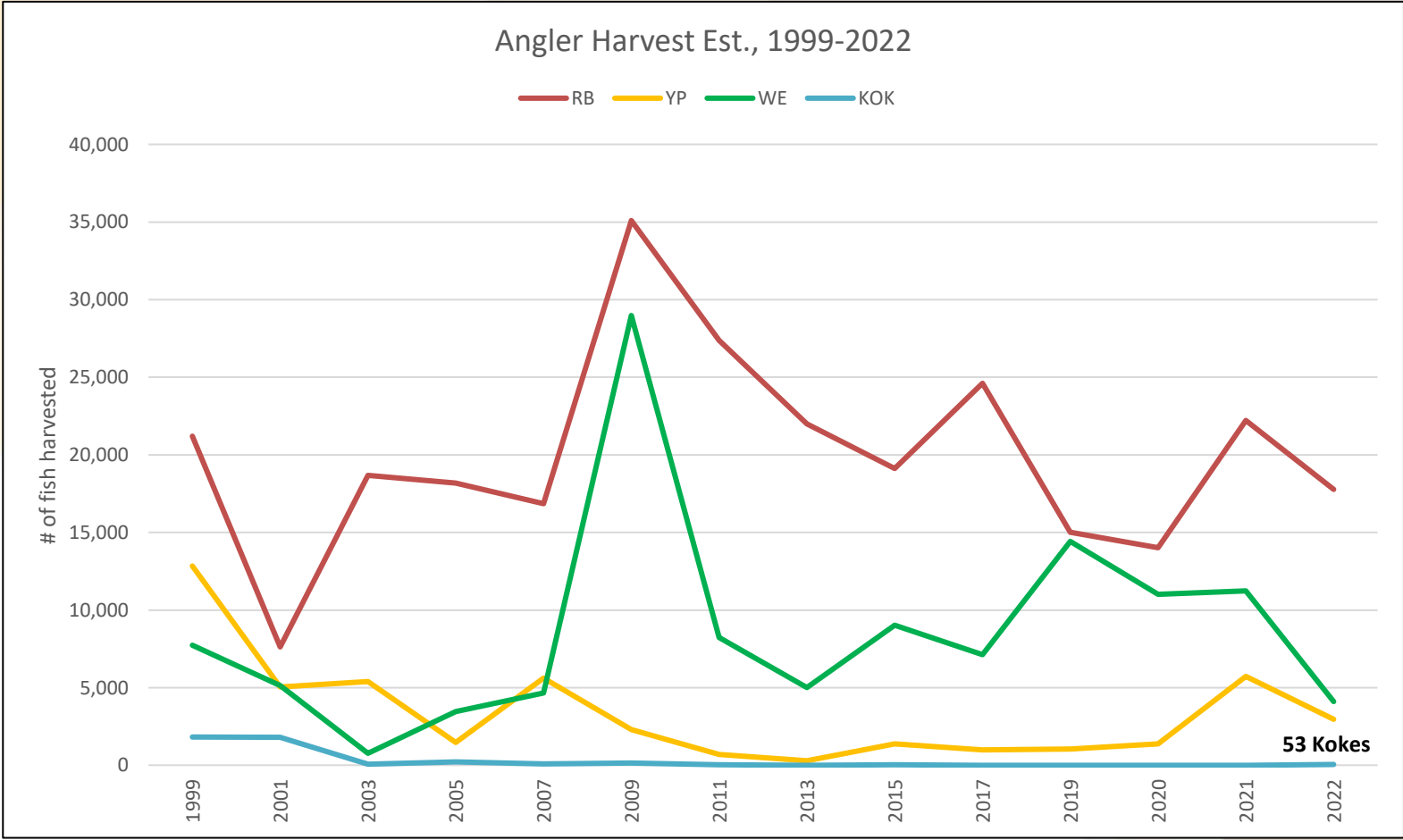
# New State Record



Longnose Sucker – 2<sup>nd</sup> in 2 years



# Hauser Harvest Est. Trends



# Reservoir Section Updates

## Holter Reservoir

### Reservoir Sections

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- Management decisions based on standardized Relative Abundance surveys (e.g., gillnetting)
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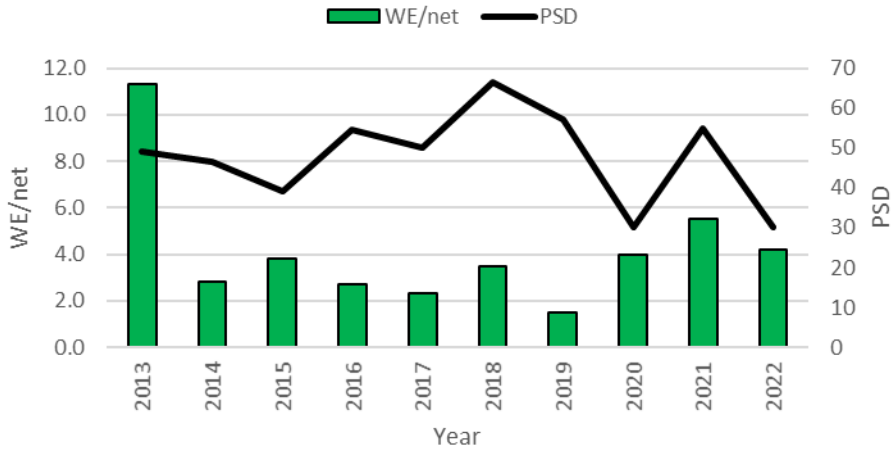
Reservoir Section Species Goal Ranges (number per net)					
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Hauser Reservoir	3 to 5	6 to 8	4 to 6	0.5 to 1.5	0.5 to 1.5
<b>Holter Reservoir</b>	<b>4 to 6</b>	<b>8 to 12</b>	<b>4 to 6</b>	<b>NA</b>	<b>0.25 to 0.5</b>



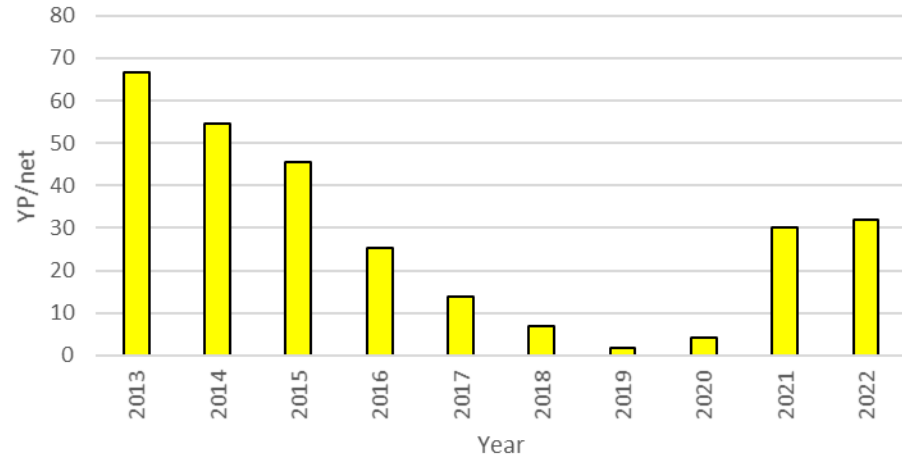
# Holter Reservoir - Annual Relative Abundance

Fall Gillnetting Survey

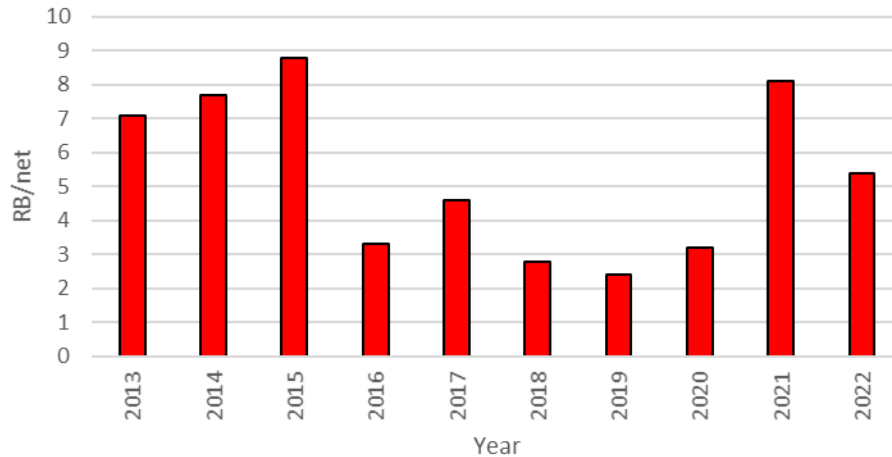
## Holter Walleye



## Holter Yellow Perch



## Holter Rainbow



### Goal Ranges:

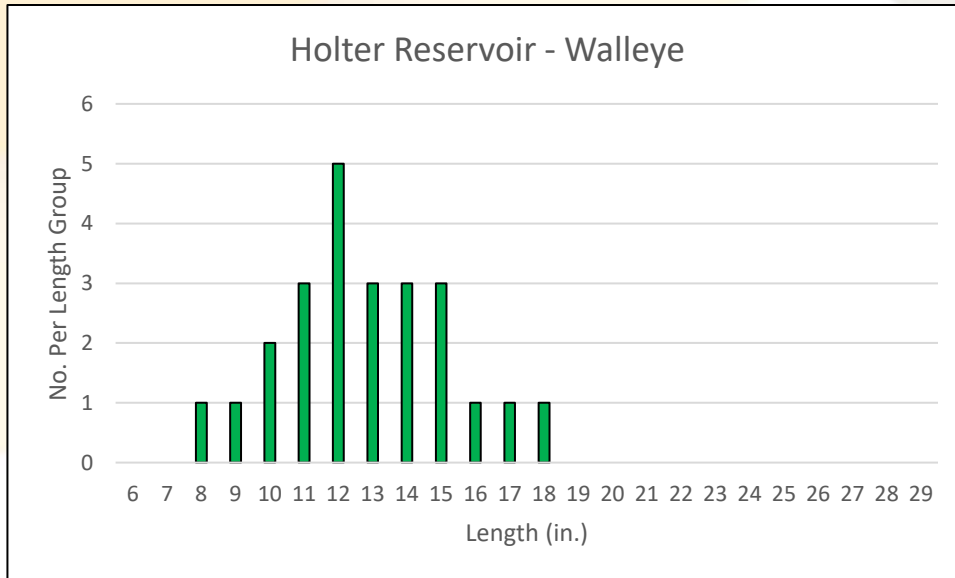
WE – 4 to 6 (PSD 30-60)

YP – 8 to 12

RB – 4 to 6

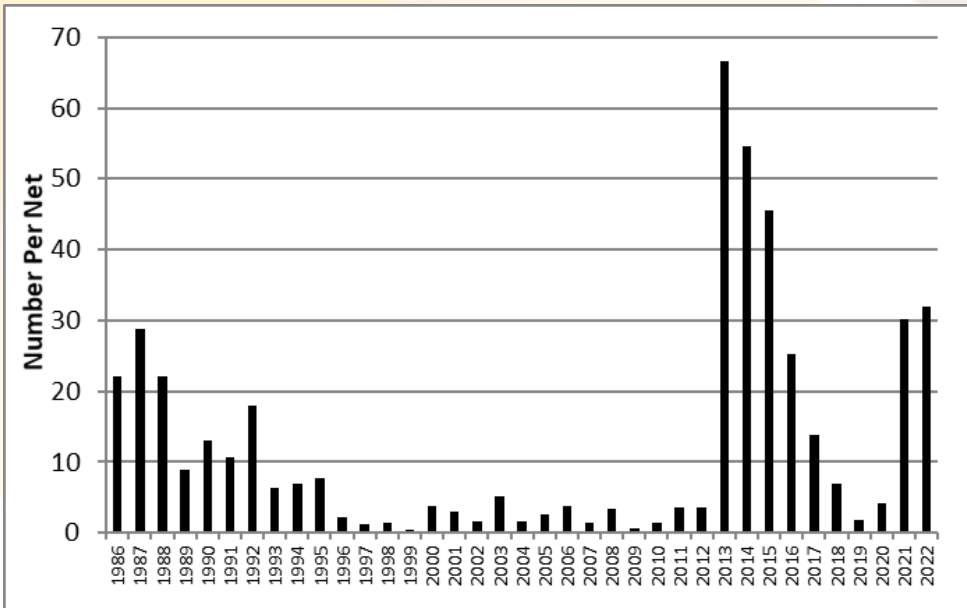


# Holter – Walleye

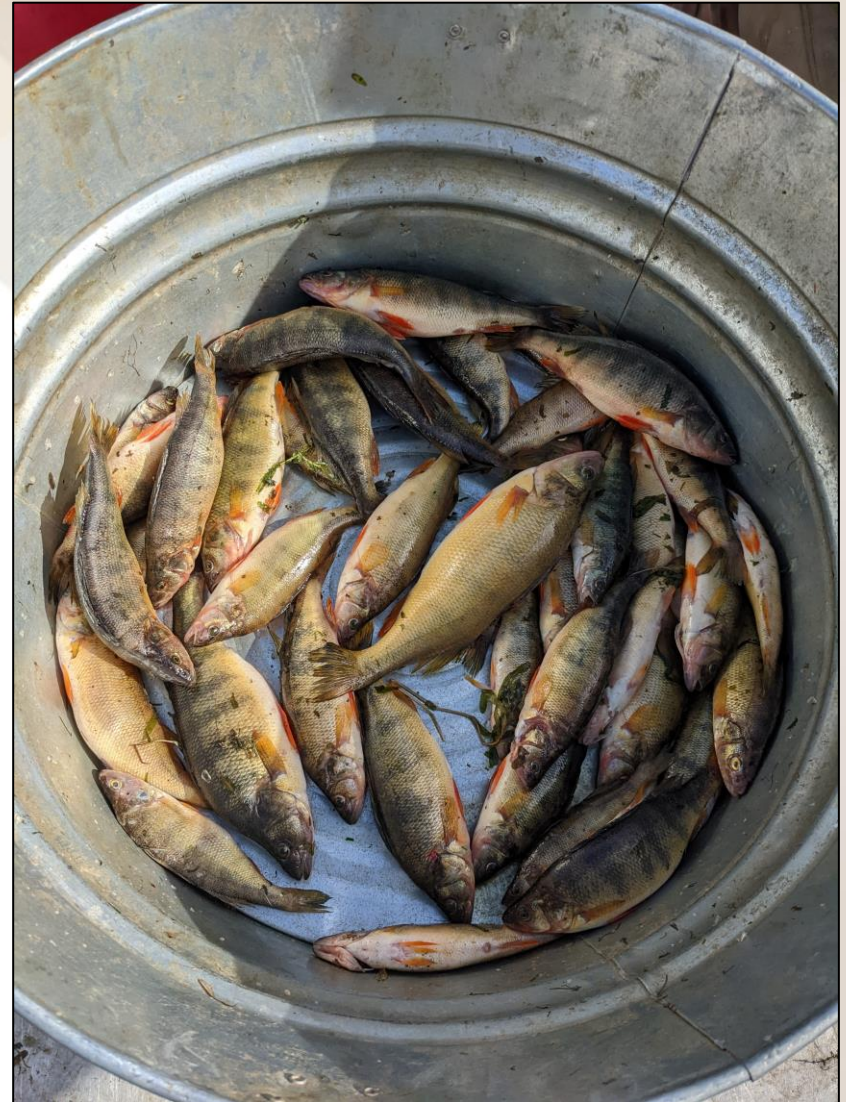




# Holter –Perch



4<sup>th</sup> Highest #/net on Record



# Holter - Kokanee



Highest #/net since 2004



# Holter - Northern Pike



6<sup>th</sup> Consecutive Year Sampled – Spring

4<sup>th</sup> Consecutive Year Sampled – Fall



# Project Update

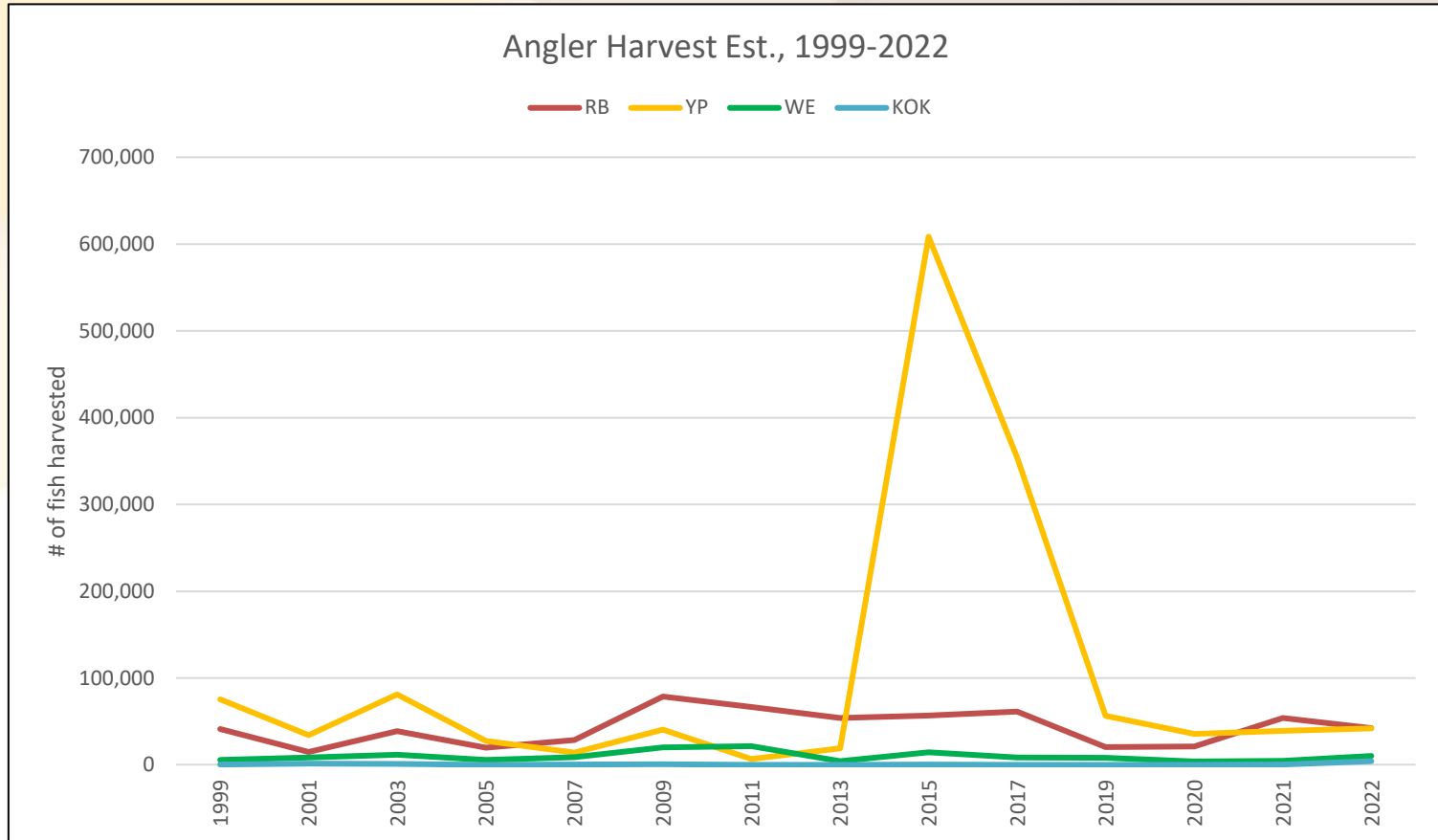
Holter Egg Take/RB Marking – 2022



428,633 eggs in 2022



# Holter Harvest Est. Trends



# Report Card

Canyon Ferry Reservoir				
	Goal	2020	2021	2022
WE	5 to 7 (PSD 30-60)	4.5 (21)	7.7 (29)	8.7 (25)
RB	4 to 6	3.9	3.6	3.3
YP	6 to 10	0.8	1.4	0.8

Hauser Reservoir				
	Goal	2020	2021	2022
WE	4 to 6 (PSD 30-60)	5.1 (3)	4.4 (18)	7.4 (5)
RB	3 to 5	4.4	3.1	2.3
YP	6 to 8	1	0.4	10.6

Holter Reservoir				
	Goal	2020	2021	2022
WE	4 to 6 (PSD 30-60)	4 (30)	5.5 (55)	4.2 (30)
RB	4 to 6	3.2	8.1	5.4
YP	8 to 12	4.2	30.2	32.0



# Thank You!!!

## TEAM HARO

Troy Humphrey

Chris Hurley

Ashton Clinger



# Questions?



**Lunch Time!**





# Proposed Management Changes

## Missouri River – Toston Dam to Canyon Ferry Reservoir

### Walleye Regulation Change

**Current – 10 daily only 1 over 15”. Possession limit is twice the daily limit.**

**Recommended – 5 daily, 10 in possession. (Central District Standard)**



# 2023 Fishing Regulation Recommendations

- **Brown Trout:** Keep current regulation and continue research.
  - Catch-and-Release, except anglers  $\leq 14$  years of age.
- **Rainbow Trout:** Keep Central Fishing District general regulation.
  - 5 daily and in possession.
- **Walleye:** Adopt Central Fishing District general regulation.
  - 5 daily and 10 in possession.
  - The current regulation of 10 Walleye with only one over 15 inches restricts even moderate harvest and is not biologically justified.
  - Management plan goal for Walleye is to monitor the fishery without specific size or abundance recommendations.

# Proposed Management Changes

Missouri River – Hauser Dam to Holter Reservoir

No Proposed Changes



# Proposed Management Changes

## Canyon Ferry Reservoir

No Proposed Changes



# Proposed Management Changes

## Hauser Reservoir

No Proposed Changes



# Proposed Management Changes

## Holter Reservoir

### Yellow Perch Regulation Change

**Current – 25 daily and in possession.**

**Change – 25 daily and 50 in possession.**

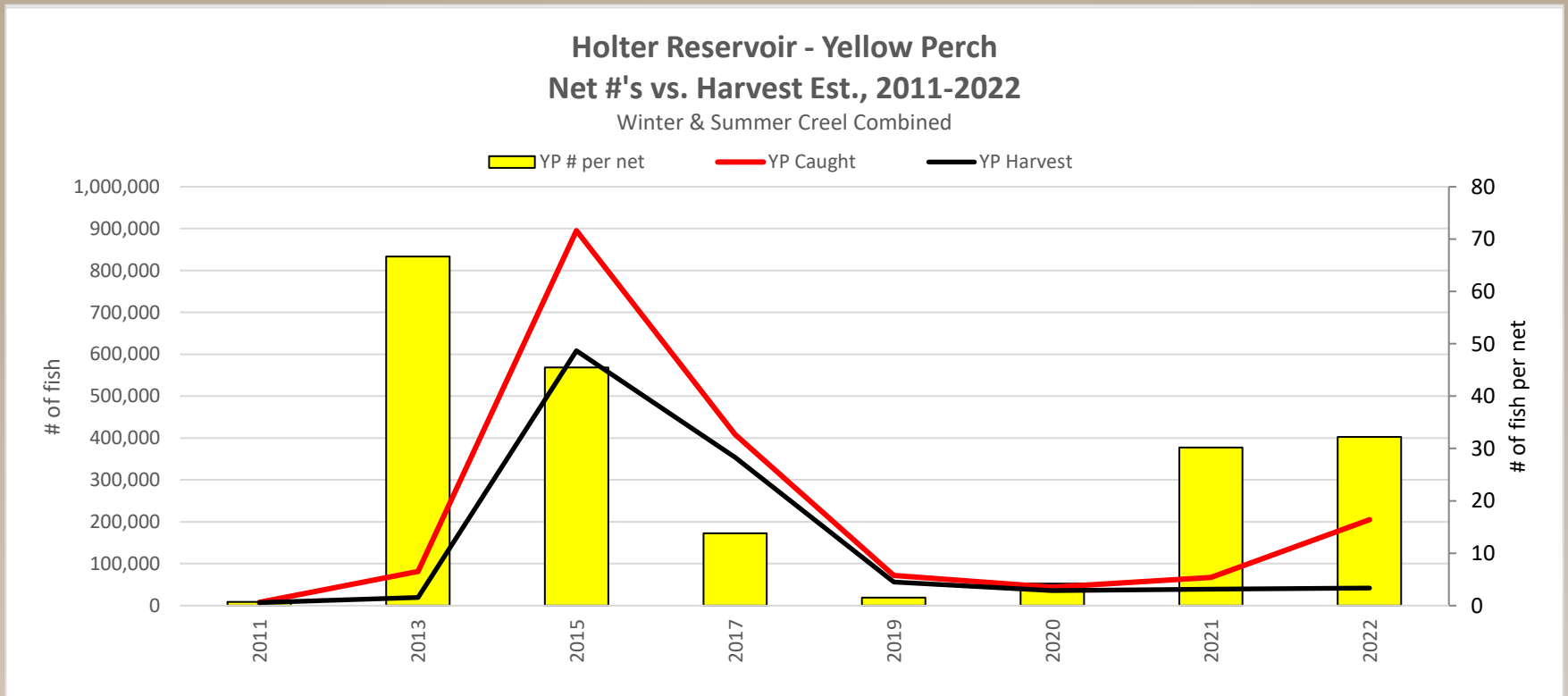
The UMRRFMP states “To maximize fishing opportunity, consider more liberal bag limits when abundance trends increase above goal range.”



# Proposed Management Changes

## Holter Reservoir

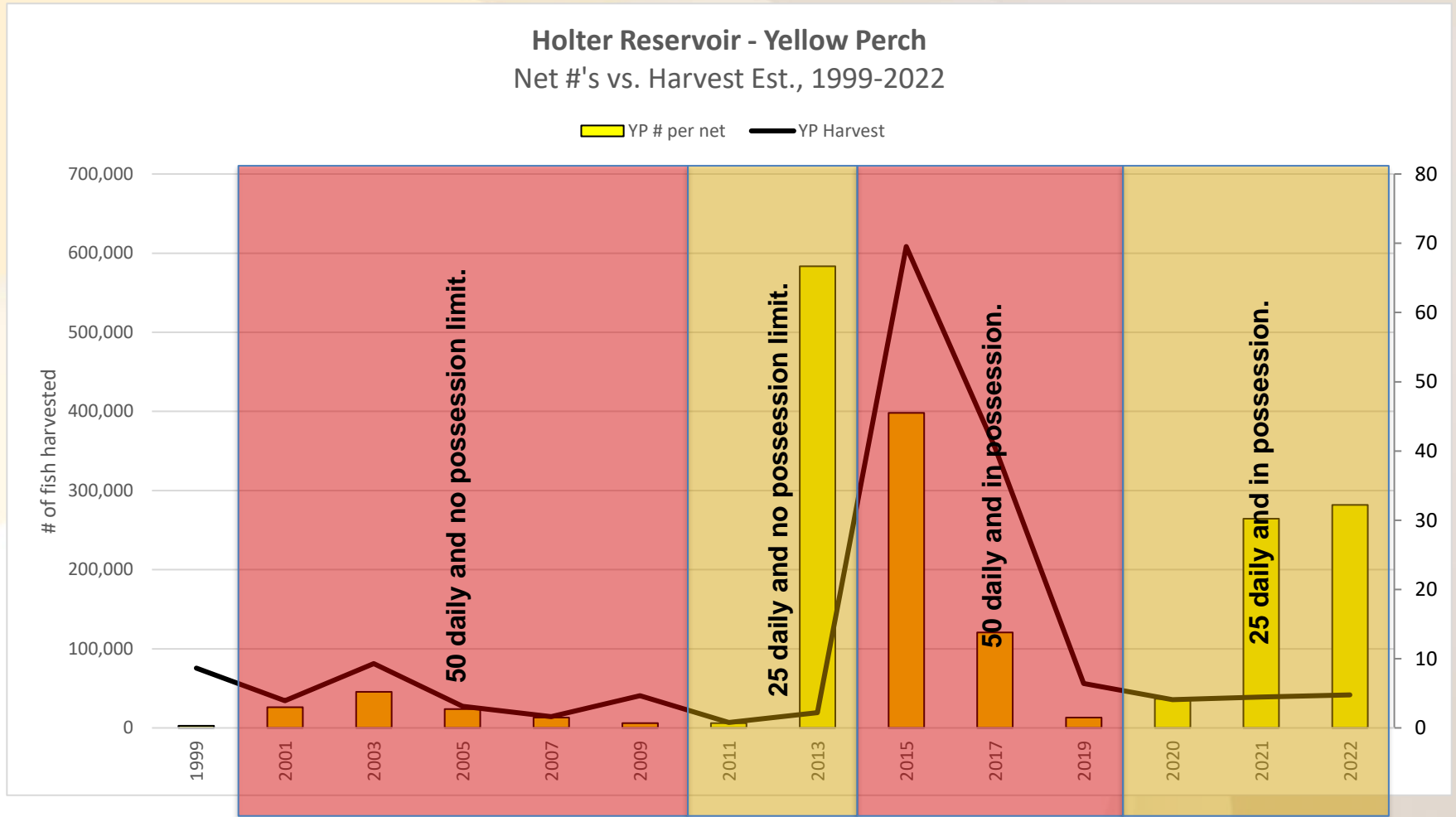
### Yellow Perch Regulation Change



The UMRRFMP states “To maximize fishing opportunity, consider more liberal bag limits when abundance trends increase above goal range.”



# Holter - Perch



**Goal Range – 8 to 12 per net**





# UMRRFMP CAC – Reappointment (2023)

## Commission Approved Process

### Interested in Reappointment?

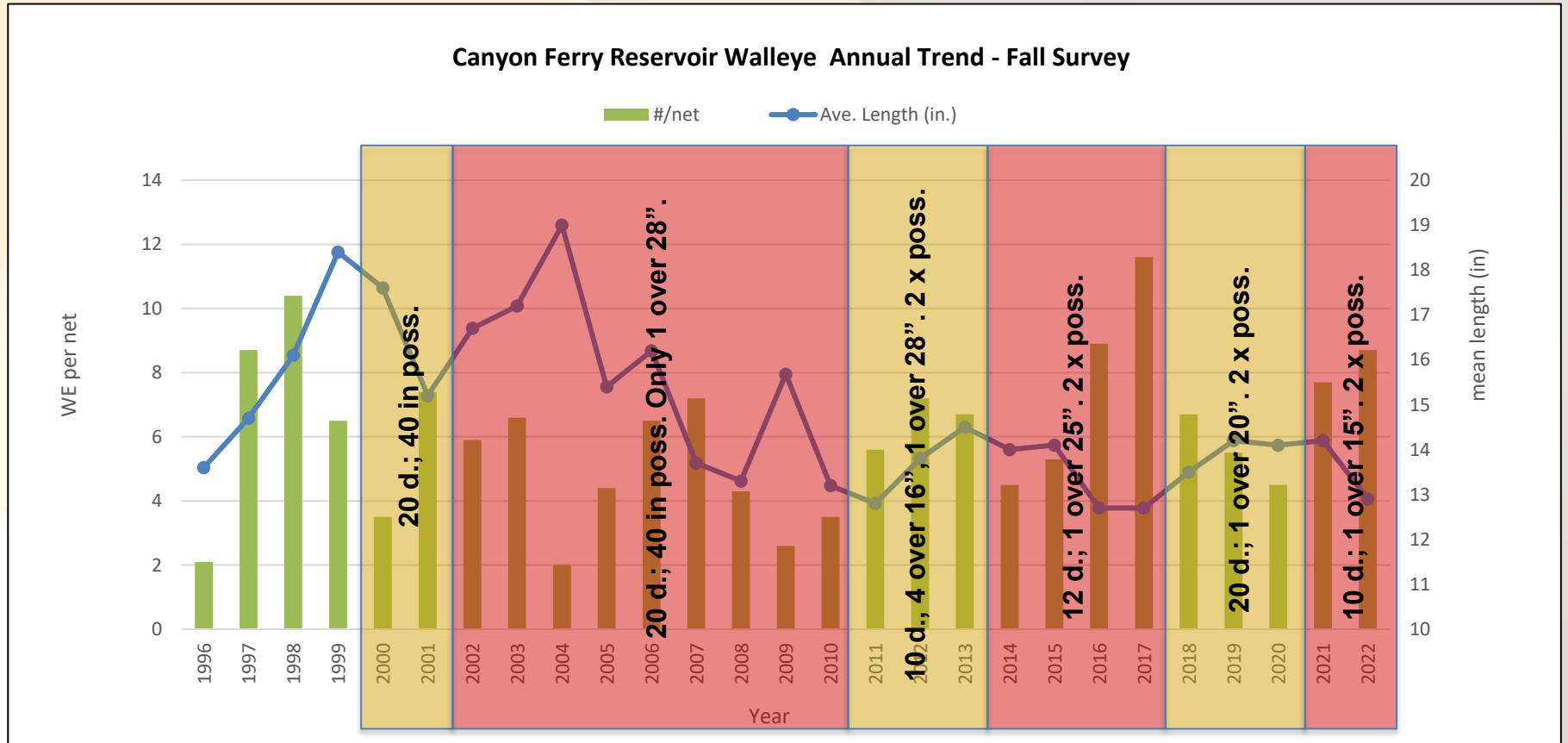
- Agee
- Bratlien
- Cardinal
- Gilbert
- Kresge



# Other Slides

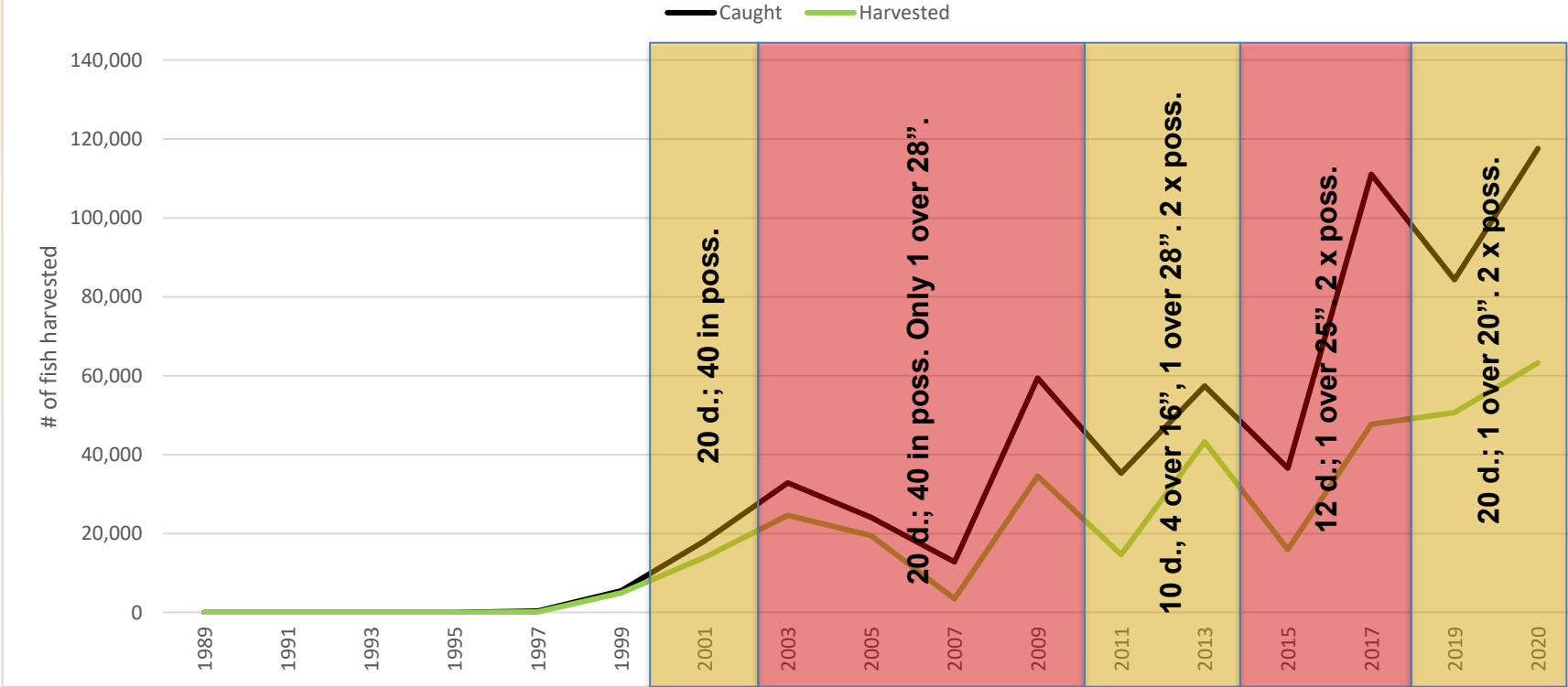


# CFR WE #/net



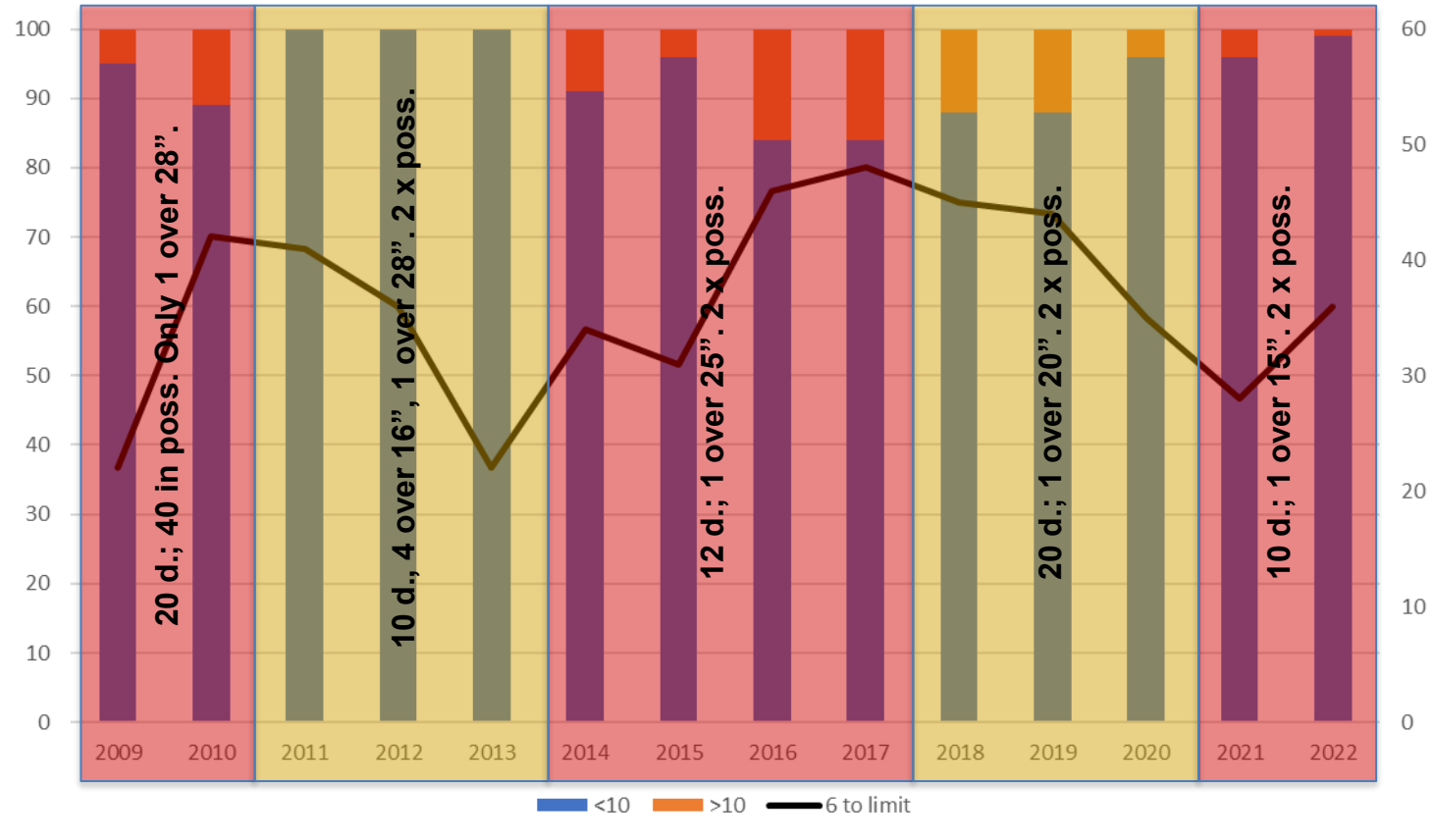
# CFR WE – Harvest Est.

**CFR WE Caught vs. Harvest, 1989-2020**  
 Winter & Summer Creel Combined Adjusted for Statewide Pressure Values



# CFR Harvest

CFR Summer Creel 2009-2022 - All Anglers  
 % of Harvested by # of fish kept;  
**line** = % of Harvest from 6 fish to limit



# CFR WE – RSD Trends

Walleye < 10"  
Fall Netting Survey

