

# NE of McNary Columbia River Salmon & Steelhead

- Welcome/Introductions
- Purpose of Meeting
- 2017 Returns & 2018 Forecasts
- Management Objectives & Fishery Options

Northeast of McNary Meetings – March 27–29, 2018  
Washington Department of Fish and Wildlife

# Recreational Rule Simplification

- Part of a 3-Year Project to simplify regulations
  - ✓ 2017 Gamefish
  - 2018 Salmon
  - 2019 Marine Fish and Shellfish
- Introduction at NOF Forecast meetings
  - Basic Tenets
  - Broad Proposals
  - Brainstorming with Public
- Based on brainstorming, refine broad proposals and develop waterbody specific proposals

# Recreational Rule Simplification

- Share specific proposals at future meetings.
- Likely:
  - March 15 Puget Sound
  - March 19 Columbia River
  - March 20 NOF #1
  - March 27 – 29 Columbia/Snake
- Concepts are unrefined at this time
- Will develop quickly as NOF progresses
- Public will need to continue to track

# Recreational Rule Simplification

- Constraints
  - Tribal co-manager agreement
  - Columbia River requires discussion with Oregon and needs to accommodate their process. ODFW is targeting January 1, 2019

# Recreational Rule Simplification

- Basic Tenets
  - Consider implications at a population level versus individual fish level
  - Stop adding complexity
  - Reduce the number of stream reaches
  - Standardize opening and closing dates
  - Standardize the daily limit (recognizing conservation needs)
  - Decouple salmon and steelhead limits
  - Eliminate layered gear restrictions

# Recreational Rule Simplification

- Broad Proposals
  - Daily limit
    - 6 fish, no more than 2 adults
    - 6 fish, no more than 2 adults. Bonus fish where needed.
    - Combine jacks and adults with a limit of 2, 3, or 4 per day
    - 2 adults, no limit on jacks
  - Gear Restrictions
    - One gear restriction for all salmon fisheries?
  - Boat Limit/Party Fishing
    - Allow everywhere?
  - 2-Pole
    - Allow everywhere except quota fisheries and most marine areas?
  - Fish Handling Rules
    - Eliminate?

# 2018 PFMC/NOF Schedule

## **East of McNary – Mid/Upper Columbia River, 6–8 pm**

- ▶ March 27 – Clarkston @ Walla Walla Community College
- ▶ March 28 – Wenatchee @ Douglass PUD
- ▶ March 29 – Kennewick @ Kennewick Irrigation District

## **Columbia River & Ocean**

- ▶ April 2, 10 am – 3 pm
- ▶ Ridgefield WDFW

## **Puget Sound**

- ▶ April 3, 9:30 am – 5 pm
- ▶ Lynnwood Embassy Suites

## **Pacific Fishery Management Council**

- ▶ Final salmon seasons set
- ▶ April 6–11
- ▶ Sheraton Portland Airport Hotel
- ▶ 8235 NE Airport Way, Portland, OR

https://wdfw.wa.gov/fishing/northfalcon/

North of Falcon Process (Se... | WDFW Intranet

File Edit View Favorites Tools Help

Sport Fishing Rules Simpli... Rule Proposals for Sport Fi... RCW 77 WAC 220-312-050 WAC 220-312-060 WAC 220-316-010 Sturge... Home - WDFW SharePoin... CRSSRAB E-Regs Hydromet

Home About WDFW Conservation Fishing Hunting Enforcement Wildlife Viewing Licensing & Permits Living with Wildlife

North of Falcon Meeting Calendar  
Frequently Asked Questions  
State-Tribal Meeting Schedule  
Public Input

**Turn In a Poacher**

**REPORT Violation/Poacher**

**Fishing Hotline**  
360-902-2500

**Shellfish Rule Change Hotline**  
1-866-880-5431

**More Hotline Information...**

For more information on fishing, please contact the WDFW Fish Program. 360-902-2700  
Fish Program District Biologists

For fishing regulation questions, e-mail us at: fishregs@dfw.wa.gov

For all other questions and comments, e-mail us at: fishpgm@dfw.wa.gov

**North of Falcon**  
*Setting 2018-2019 Salmon Fishing Seasons*

**2018-19 Salmon Seasons**

Each year state, federal and tribal fishery managers gather to plan the Northwest's recreational and commercial salmon fisheries. This series of meetings – involving representatives from federal, state and tribal governments and recreational and commercial fishing industries – is known as the North of Falcon process.

Please click the link below to comment on 2018-19 Salmon Seasons and Salmon Fishing Rule Simplification

**Submit your comments**

**2018 North of Falcon Public Meeting Schedule**

*This schedule is tentative – meeting dates and locations could change. Additional meetings will be added when finalized.*

**February 26**

**2018 Willapa Bay – Grays Harbor Salmon Forecasts and Fishing Opportunities**

- 6 p.m. to 8 p.m.; Montesano City Hall, 112 N. Main St., Montesano.
- WDFW presents salmon abundance forecasts for Willapa Bay and Grays Harbor. Fishery management objectives and preliminary fishing opportunities for 2018 are discussed.

**February 27**

**2018 Salmon Forecasts and Fishing Opportunities**

- 9 a.m. to 3 p.m.; Lacey Community Center, 6729 Pacific Ave. SE, Olympia.
- WDFW presents Puget Sound, coastal Washington and Columbia River salmon

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**North of Falcon Background**

- [2018 Public Meeting Schedule](#)
- [2018 State-Tribal Meeting Schedule](#)
- [North of Falcon FAQ](#)
- [How salmon fishing seasons are set](#)
- [How tribes and state co-manage salmon and steelhead](#)
- [2017-18 Co-Managers' List of Agreed Fisheries](#)

**Pre-Season Forecasts**

- [Summer/Fall Chinook](#)
- [Coho](#)
- [Chum and Sockeye](#)

**Meeting Handouts**

- [Coastal forecast summary](#)
- [Columbia River and Ocean forecast summary](#)
- [Puget Sound forecast summary](#)

**WDFW Commission Policies**

- [2017-2018 North of Falcon](#)
- [Hatchery and Fishery Reform](#)

**Links**

<http://wdfw.wa.gov/fishing/northfalcon/>



# Columbia River Salmon and Steelhead

## 2017 Returns and 2018 Forecasts

Northeast of McNary Meetings – March 27 – 29, 2018  
Washington Department of Fish and Wildlife

# Environment Conditions Affecting Returns

- In the ocean, sea surface temperatures (SSTs) have cooled following “The Blob” and El Niño
- Cold wet winters in 2017 and 2018 are good for freshwater salmon production
- Expect biological effects of warm ocean conditions to continue for several years. Big concern for 2018 coho and 2019 chinook returns because of low 2017 juvenile abundances.

# Salmon Indicators: Bad -> Fair -> Good

Basin-scale physical indices

Regional physical indices

Regional biological indices

Ecosystem Indicators	Year																			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
PDO (Sum Dec-March)	17	6	3	12	7	19	11	15	13	9	5	1	14	4	2	8	10	20	18	16
PDO (Sum May-Sept)	10	4	6	5	11	16	15	17	12	13	2	9	7	3	1	8	18	20	19	14
ONI (Average Jan-June)	19	1	1	6	13	15	14	16	8	11	3	10	17	4	5	7	9	18	20	12
46050 SST (°C; May-Sept)	16	9	3	4	1	8	20	15	5	17	2	10	7	11	12	13	14	19	18	6
Upper 20 m T (°C; Nov-Mar)	19	11	8	10	6	14	15	12	13	5	1	9	16	4	3	7	2	20	18	17
Upper 20 m T (°C; May-Sept)	16	12	14	4	1	3	20	18	7	8	2	5	13	10	6	17	19	9	15	11
Deep temperature (°C; May-Sept)	20	6	8	4	1	10	12	16	11	5	2	7	14	9	3	15	19	18	13	17
Deep salinity (May-Sept)	19	3	9	4	5	16	17	10	7	1	2	14	18	13	12	11	20	15	8	6
Copepod richness anom. (no. species; May-Sept)	18	2	1	7	6	13	12	17	15	10	8	9	16	4	5	3	11	19	20	14
N. copepod biomass anom. (mg C m <sup>-3</sup> ; May-Sept)	18	13	9	10	3	15	12	19	14	11	6	8	7	1	2	4	5	16	20	17
S. copepod biomass anom. (mg C m <sup>-3</sup> ; May-Sept)	20	2	5	4	3	13	14	19	12	10	1	7	15	9	8	6	11	17	18	16
Biological transition (day of year)	17	8	5	7	9	14	13	18	12	2	1	3	15	6	10	4	11	20	20	16
Ichthyoplankton biomass (log (mg C 1000 m <sup>-3</sup> ); Jan-Mar)	20	11	3	7	9	18	17	13	16	15	2	12	4	14	10	8	19	5	6	1
Ichthyoplankton community index (PCO axis 1 scores; Jan-Mar)											2	14	1					17	20	19
Chinook salmon juvenile catches (no. km <sup>-1</sup> ; June)											1	6						13	17	20
Coho salmon juvenile catches (no. km <sup>-1</sup> ; June)											3	9	1					8	13	20
Mean of ranks	17.1	7.0	5.8	6.9	5.8	12.4	15.1	16.2	10.9	8.9	2.7	8.3	12.2	8.2	6.5	7.6	12.3	15.9	16.4	13.9
Rank of the mean rank	20	6	2	5	2	14	16	18	11	10	1	9	12	8	4	7	13	17	19	15

**1998 = Worst Score**

**2005 = 3<sup>rd</sup> Worst Score**

**2016 = 2<sup>nd</sup> Worst Score**

Table SF-01. Ocean ecosystem indicators of the Northern California Current. Colored squares indicate positive (green), neutral (yellow), or negative (red) conditions for salmon entering the ocean each year. In the two columns to the far right, colored dots indicate the forecast of adult returns based on ocean conditions in 2017 (coho salmon) and 2016 (Chinook salmon).

	Juvenile Migration Year				Adult Return Outlook	
	2014	2015	2016	2017	coho 2018	Chinook 2018
Large-scale ocean and atmospheric indicators						
<a href="#">PDO (May - Sept)</a>	■	■	■	■	●	●
<a href="#">ONI (Jan - Jun)</a>	■	■	■	■	●	●
Local and regional physical indicators						
<a href="#">Sea surface temperature</a>	■	■	■	■	●	●
<a href="#">Deep water temperature</a>	■	■	■	■	●	●
<a href="#">Deep water salinity</a>	■	■	■	■	●	●
Local biological indicators						
<a href="#">Copepod biodiversity</a>	■	■	■	■	●	●
<a href="#">Northern copepod anomalies</a>	■	■	■	■	●	●
<a href="#">Biological spring transition</a>	■	■	■	■	●	●
<a href="#">Winter ichthyoplankton biomass</a>	■	■	■	■	●	●
<a href="#">Winter ichthyoplankton community</a>	■	■	■	■	●	●
<a href="#">Juvenile Chinook salmon catch – June</a>	■	■	■	■	●	●
<a href="#">Juvenile coho salmon catch – June</a>	■	■	■	■	●	●
Key						
■ good conditions for salmon	■	■	■	■	● good returns expected	
■ intermediate conditions for salmon	■	■	■	■	● intermediate returns expected	
■ poor conditions for salmon	■	■	■	■	● poor returns expected	

# Predation

- Northern Pikeminnow/bird management
- Pinnipeds – Marine Mammal Protection Act
  - 50,000-75,000 California sea lions in Pacific NW and 1,000-4,000 in Columbia system
  - OR/WA documented ‘habituated offenders’ under Section 120 (191 removed to-date)
  - States request from NOAA a more streamlined process and funding to take action when warranted.

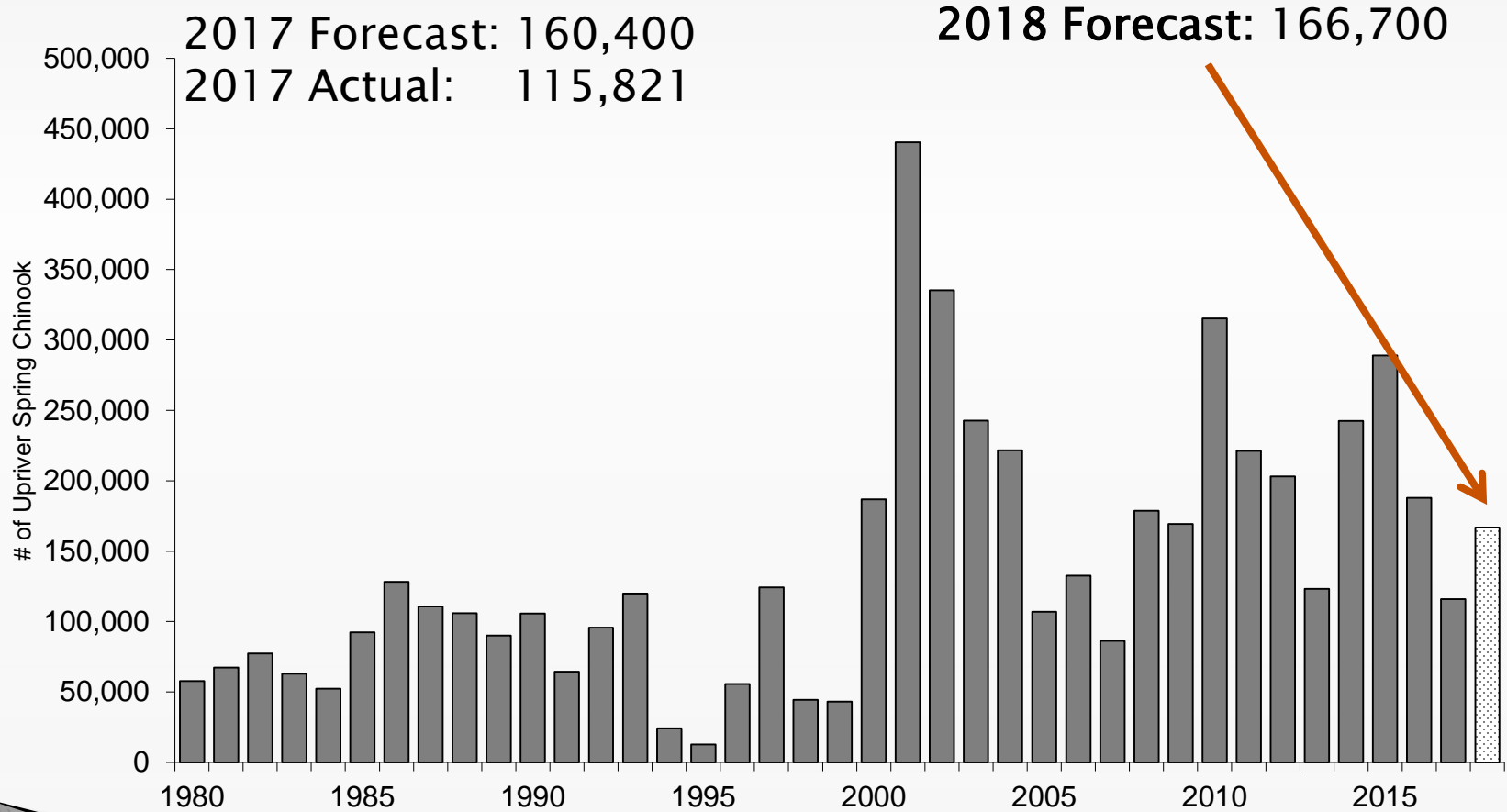


# Stocks Originating upstream of Bonneville Dam

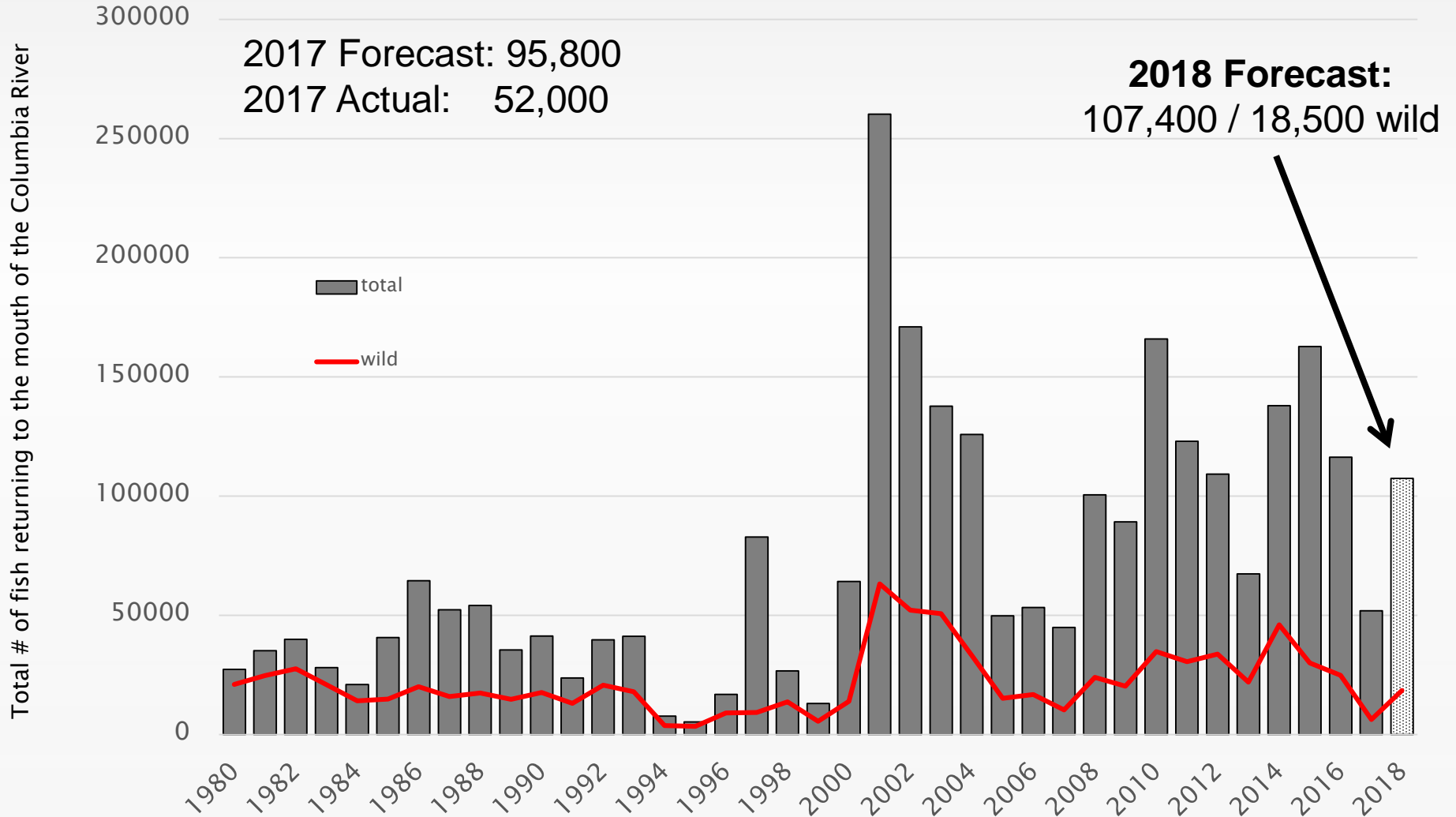


# Upriver Spring Chinook

Total # of fish returning to the mouth of the Columbia River



# Snake River Spring/Summer Chinook





# Upper Columbia Spring Chinook

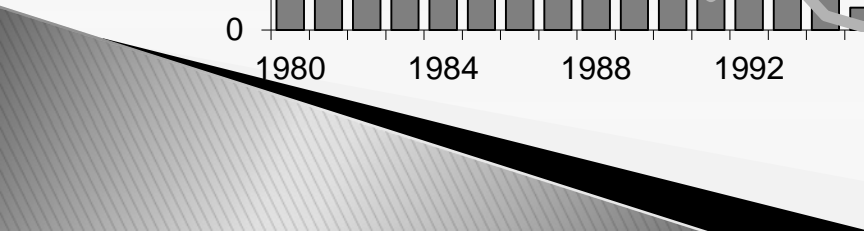
Total # of fish returning to the mouth of the Columbia River

2017 Forecast: 19,300 tot. /  
3,300 wild  
2017 Return: 11,166 tot. / 2,514  
wild

2018 Forecast:  
20,100 tot. / 3,400  
wild

total  
wild

1980 1984 1988 1992 1996 2000 2004 2008 2012 2016

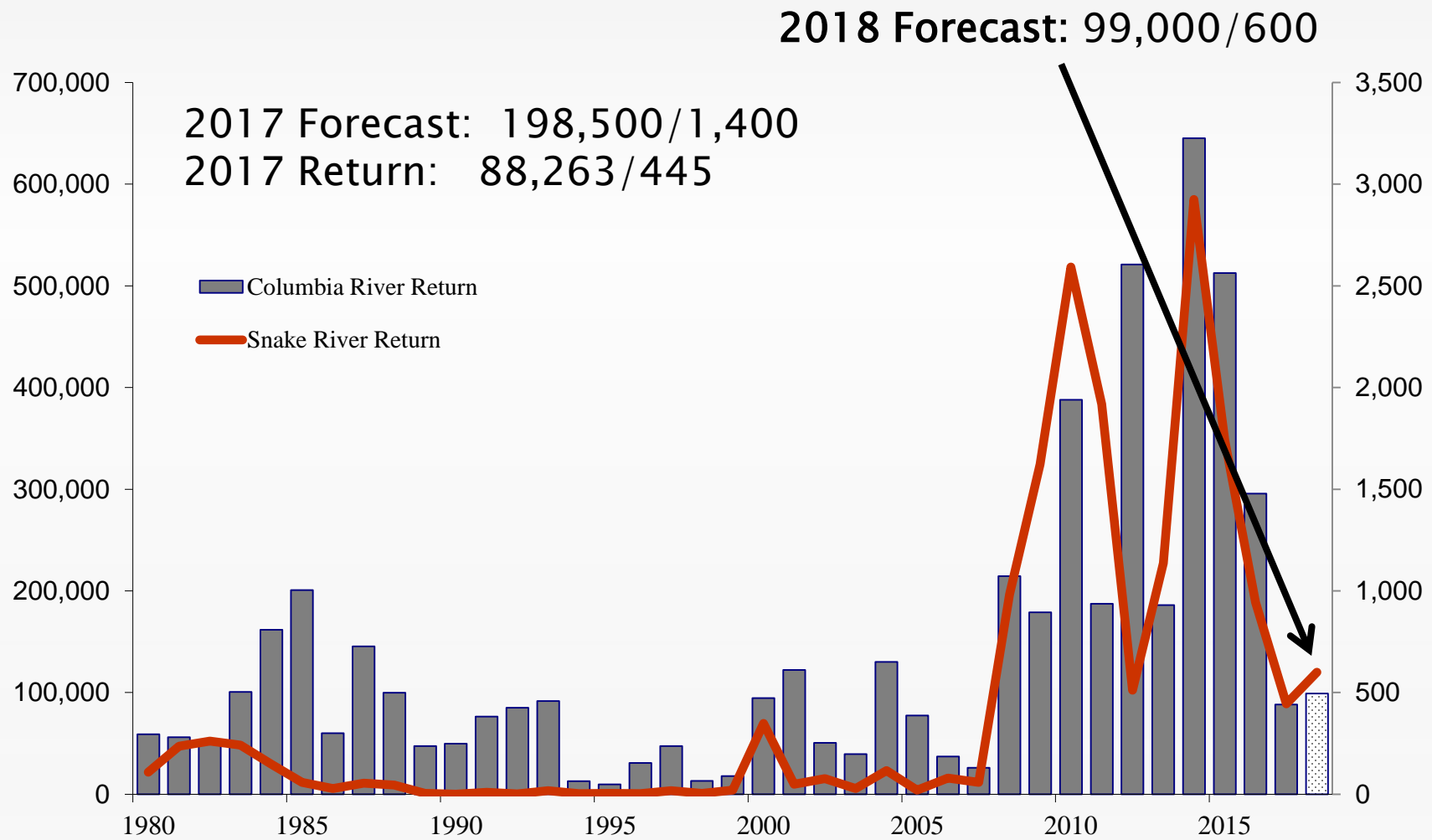


# Upper Columbia Summer Chinook



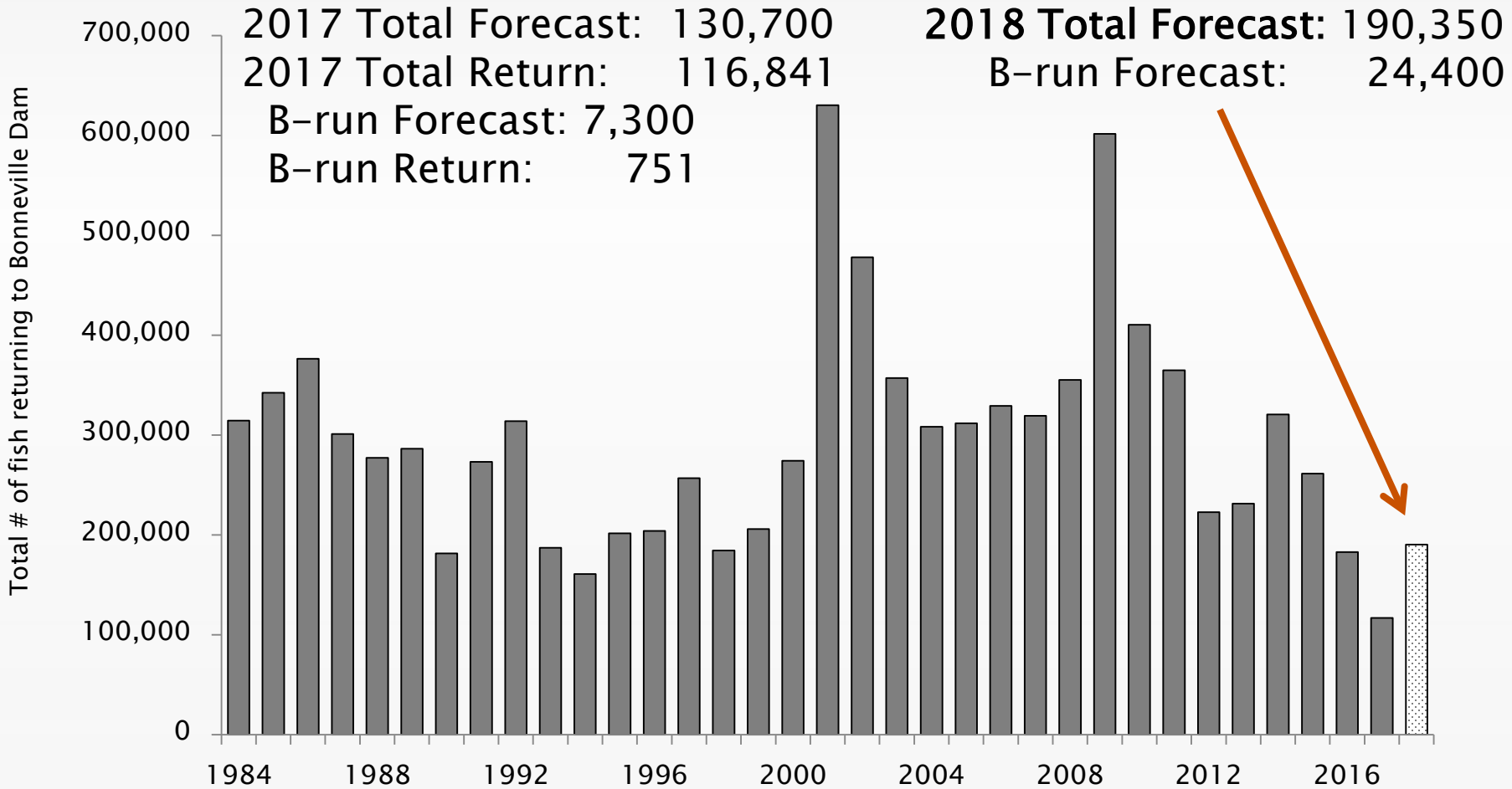
# Columbia River Sockeye

Total # of fish returning to the mouth of the Columbia River

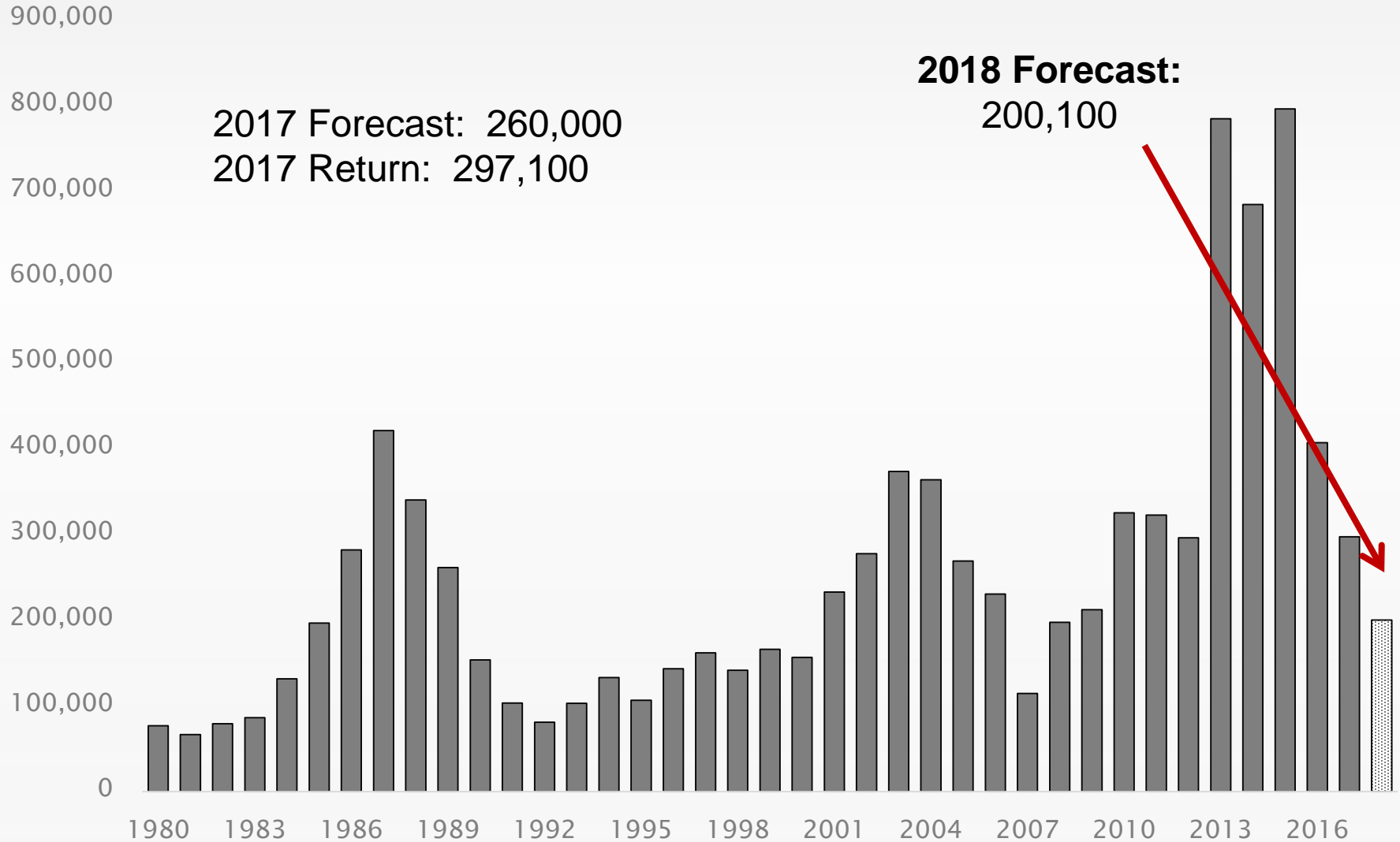




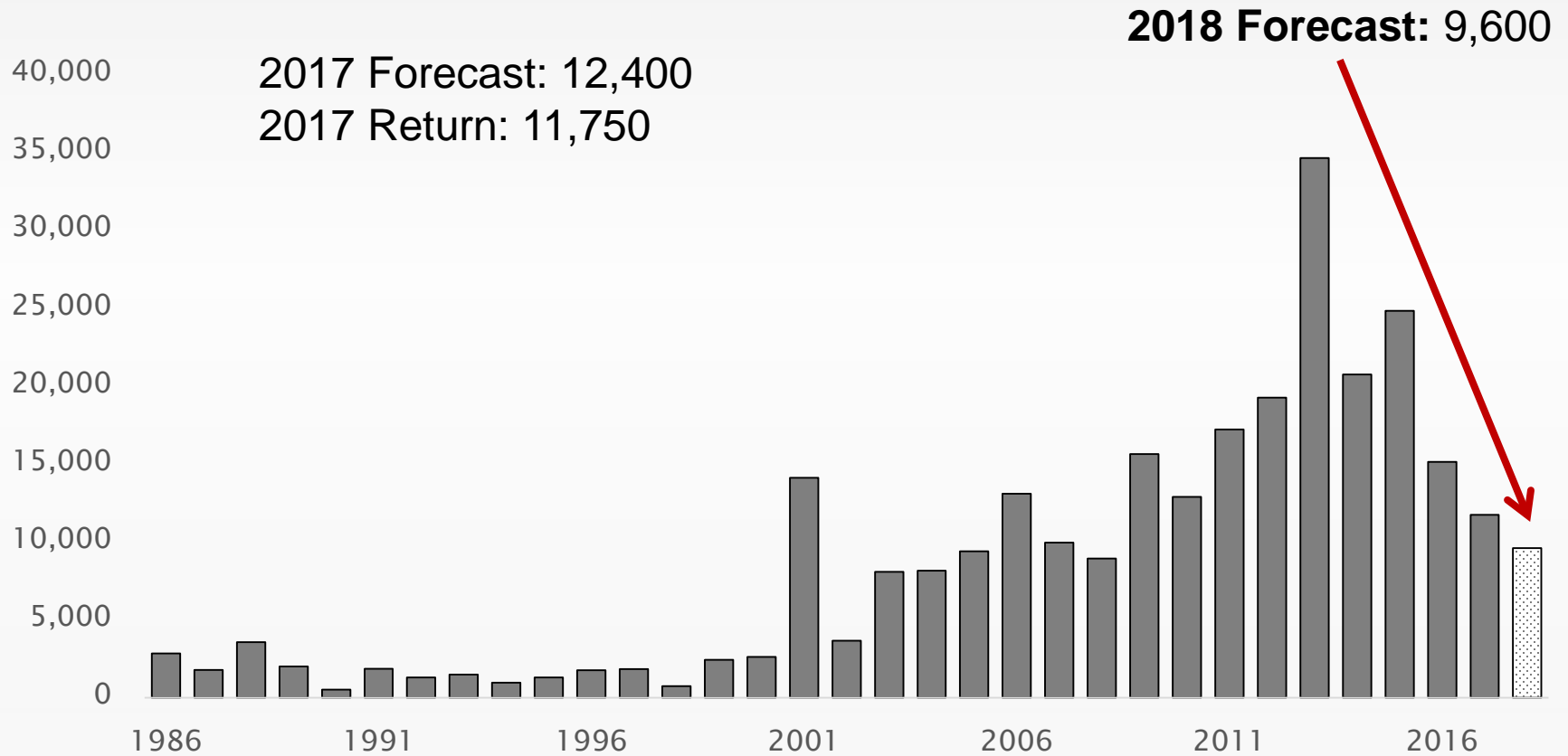
# Upriver Summer Steelhead



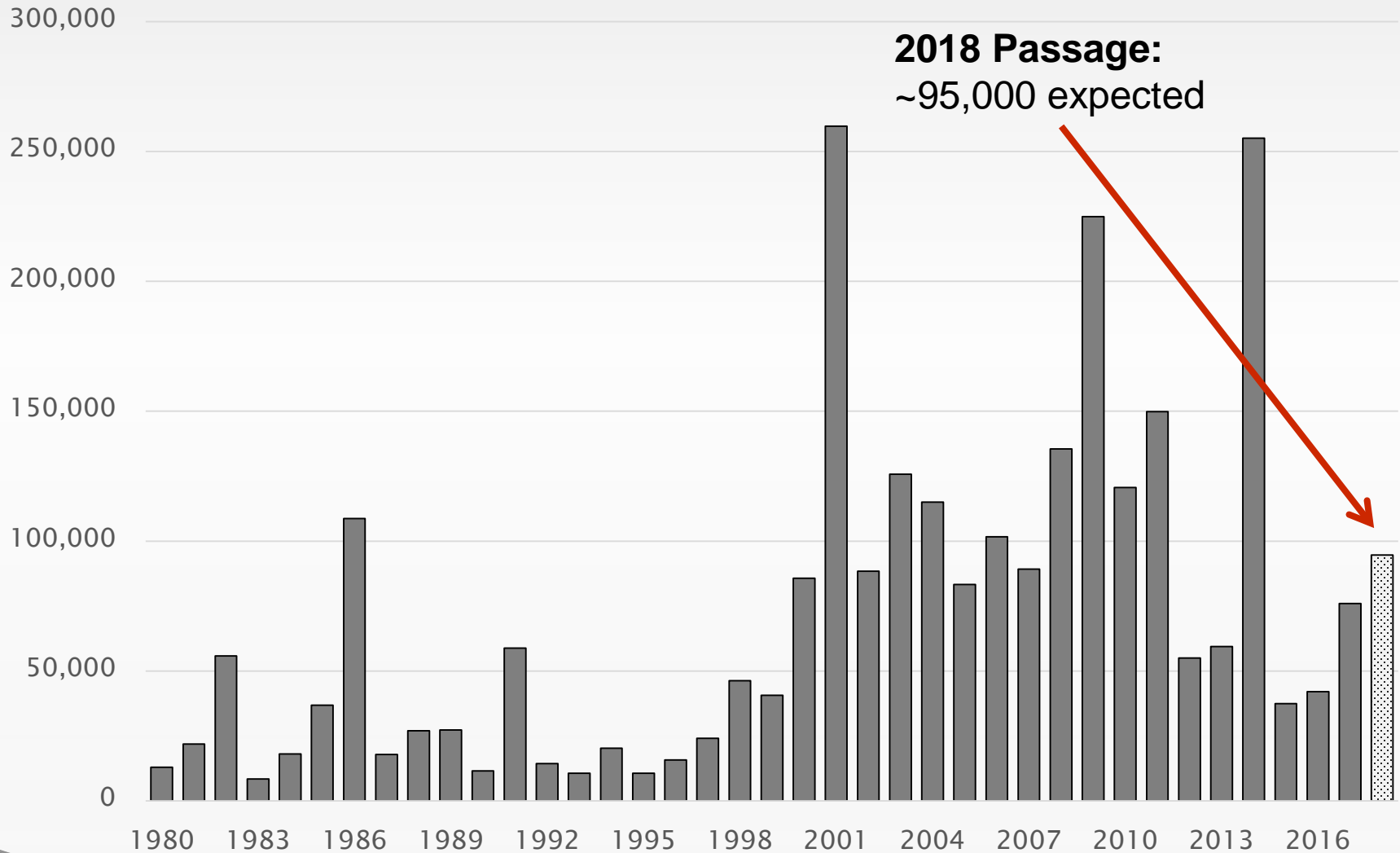
# Upriver Bright (URB) Fall Chinook



# Snake River Wild Fall Chinook



# Coho Passage at Bonneville Dam



# Fishery Management





# 2018 Sockeye Forecast & Fisheries

- ▶ **Forecast:** 99,000
- ▶ **Tentative Proposal:** close sockeye recreational retention from mouth to CJD (and tributaries)
  - Early in the NOF process.
  - In LCR, change requires consensus amongst Co-managers (Washington and Oregon)
- ▶ **Conservation:** return as many sockeye to the spawning grounds as possible
  - Lake Wenatchee not forecasted to meet escapement needs



# 2018 Upriver Spring Chinook Management Guidelines

- ▶ *U.S. v Oregon* (2018–2027) guidelines
  - Preseason: 2.0% ESA impact limit
  - 30% buffer in place until run size update
  - Catch Balance more constraining than impacts
  
- ▶ Commission Policy
  - Sport and Comm. buffers in place prior to run update
  - Comm./sport impact-sharing at 20/80
  - 25% of the sport allocation reserved for above BON



# 2018 Spring Chinook Fisheries

- ▶ Below Bonneville sport
  - Season: Jan 1 – Apr 7, 1 chinook bag beginning March 1
  - Catch allocation: 7,157 upriver (8,400 all stocks) prior to a run update
- ▶ Bonneville to WA/OR border above McNary sport
  - Season: March 16– May 7, 1 chinook bag limit
  - Catch allocation: 954 upriver prior to a run update
- ▶ Yakima River, Snake River (920 upriver), & Icicle River
  - Addressed later in presentation
- ▶ *All catch data rounded and includes release mortalities*

# Snake River Fishery Structure

- Open in late April (late compared to downriver)
  - fisheries timed concurrent with increased Dam passage
- Fisheries really heat up in early May
  - Chinook abundance is reaching peak
- Limited areas open
  - this allows intensive monitoring, extends duration of fisheries & distributes opportunity (~18 miles if all four areas are open)

# 2017 Snake River Fishery

- Preseason forecast of 160,400
- Preseason impacts of 863 (harvest plus release mortalities)
- Three sections open 2d/wk beginning Apr 28
- Run was downgraded on May 15 to 83,000 and the fishery was closed
- Anglers harvested 65 adults and released 8 wild adults in 5,807 hours of effort

# 2017 Snake River Fishery

2017 Snake River Spring Chinook Expanded Effort and Catch Estimates

UPDATED 5-16-17

Dates open	Section	Angler Effort			Salmon Kept			Salmon Released					Ave Catch Rate (hrs/fish kept)		
		Peak # observed	Peak # observed	Total	H Adults	H Jacks	Total	W					Shore	Boat	"Wall"
		Shore Anglers	boat anglers	Angler hrs				Adults	W Jacks	H Adults	H Jacks	Total			
Apr 28-29	<b>IHR 1</b> (Fri-Sat)	24	6	384.1	0	0	0	0	0	0	0	0	0.0	0.0	
May 5-6		40	25	610.2	2	0	2	5	0	0	0	5	297.1	0.0	
May 12-13		53	55	1,857.5	29	4	33	2	0	0	0	2	92.7	33.4	
<b>Sum</b>				<b>2,851.8</b>	<b>31</b>	<b>4</b>	<b>35</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>			
Apr 30-May 1	<b>LGO 2</b> (Sun-Mon)	28	2	555.4	2	0	2	0	0	0	0	0	228.6	0.0	0.0
May 7-8		47	9	1,044.2	14	0	14	1	0	0	0	1	72.2	0.0	0.0
May 14-15		61	10	1,325.4	18	0	18	0	0	0	0	0	67.3	0.0	0.0
<b>Sum</b>				<b>2,925.0</b>	<b>34</b>	<b>0</b>	<b>34</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>			
Apr 30-May 1	<b>Clarkst 3</b> (Sun-Mon)	3	0	0.0	0	0	0	0	0	0	0	0	0.0	0.0	
May 7-8		2	5	30.0	0	0	0	0	0	0	0	0	0.0	0.0	
May 14-15		0	2	0.0	0	0	0	0	0	0	0	0	0.0	0.0	
<b>Sum</b>				<b>30.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			
<b>Snake R. Totals</b>				<b>5,806.8</b>	<b>65.0</b>	<b>4.0</b>	<b>69.0</b>	<b>8.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>8.0</b>			

# 2018 Snake River Fishery – expectations

- Season structured the same as 2017
- Preseason Impact Estimate = 920 (883 harvest and 37 release mortalities)
- Expected opening April 20
- Open 3 areas (IHR, LGO, Clark)
- Goal: Provide 2-4 fishing events
- Bag limit of **1 adult/ day & 2 days/week**
- WDFW will monitor harvest & may close any area early to help distribute harvest or manage available impacts

# 2018 Snake River Fishery - expectations

	Thurs	Fri	Sat	Sun	Mon	Tues
IHR		■	■			
LGO				■	■	
LGR						
Clark				■	■	



# Grande Ronde River Fisheries

- 2018 Fishery
  - Low returns are forecasted for 2018 and there are currently no plans for a Grande Ronde spring Chinook fishery.



# 2018 Yakima Spring Chinook

- Total adult forecast (to Yakima River mouth) = **6,340** adults (74% of 8,530 10-yr rolling avg.)
- Hatchery forecast = **2,000** (2017 forecast = 2,760; actual return = 2,230)
- 2017 Harvest: 449 adults + 301 jacks = 750
- Lower river section from Hwy. 240 Bridge to SR 241 Bridge (Mabton-Sunnyside Rd. – new area expansion) expected to open Friday, April 27 and run to mid-June.
- Upper river section from I-82 at Union Gap to Roza Dam will likely open in early to mid-May and run to June 30.

- Daily limit – 2 hatchery chinook. Gear restrictions: up to two, single–point barbless hooks.
- No fishing from boats equipped with internal combustion engines upstream of I–82 bridge at Selah Gap
- Two–poles allowed with endorsement
- Fishing conditions will likely be poor at times because of above normal snowpack runoff

# Icicle River Spring Chinook

## 2017 Regulations:

- **Icicle:** Closed initially via emergency regulation due forecasted returns not high enough to meet hatchery broodstock needs. Later re-opened via emergency regulation for appx. 5 weeks to harvest 300 fish.
  - **Results:** 197 angler trips, 800 hours fished, 41 fish caught, 41 ad-clipped harvested, & 2 ad-intact released

## 2018 Regulations:

**Icicle:** Currently in pamphlet (May 15–July 31)

**Note:** Forecasted abundance is same as 2017 (very low). *High likelihood the Icicle River fishery may close or open late.*

# 2018 Summer Chinook

- ▶ Harvest Guidelines are three-tiered
  - *U.S. v Oregon* MA: Share 50/50 treaty/non-Indian
  - Upper Col MA : Share above/below Priest Rapids Dam based on run size
  - Commission policy: Share below Priest Rapids Dam 80/20 sport/comm in 2017
- ▶ Forecast: 67,300 fish
  - 11,200 fish available for in-river non-Indian sport and commercial fisheries, Colville and Wanapum tribal fisheries
  - 7,600 (68%) upstream of PRD & 3,600 (28%) downstream of PRD

# 2018 Summer Chinook

**Below Bonneville Dam: To be determined**

**Bonneville Dam–Hwy 395: Mark selective, June 16– July 31, daily limit 6 (no more than 2 adult hatchery chinook, release sockeye)**

**Hwy 395 to Priest Rapids Dam: See below in Tri–cities summer season**

# 2018 Summer Chinook

**Priest Rapids Dam to Rock Island Dam:** Mark selective, July 1–August 31, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)

**Rock Island Dam to Wells Dam:** Mark selective, July 1–October 15, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)

**Wells Dam to Brewster Bridge:** Mark selective, July 16–August 31, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)

# 2018 Summer Chinook

**Brewster Bridge to Chief Joseph Dam:** Mark selective, July 1–October 15, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)

**Wenatchee River:** Mark selective, August 1–September 30, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)

**\*Entiat River:** Non–mark selective, July 16–September 30, daily limit 6 (release sockeye and coho)



# 2018 Summer Chinook

## Okanogan River

- **Mouth to Hwy 97 Bridge:** Mark selective, July 1–October 15, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)
- **Hwy 97 Bridge to Mallot Bridge:** Mark selective, July 1–September 15, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)
- **Upstream of Mallot Bridge:** Mark selective, July 1–September 15, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)

**Similkameen River:** Mark selective, July 1–September 15, daily limit 6 (no more than 2 hatchery adult chinook, release wild adult chinook, sockeye, and coho)

# 2018 Summer Chinook

## Fishery Options: Brewster Pool “Bubble Fishery”

### Brewster Bridge to CJD

- Not considering mainstem areas below BB (mixed stock)
- Wild adult chinook retention (likely 1 fish as part of daily adult limit)
- Targeting wild adult chinook in excess of spawning escapement needs
- Evaluate in-season
- Coordination with tribal co-managers
- If opened, by emergency regulation
- Low confidence of an opener
- 2018 forecast is similar to 2017 return
- Ultimately a low number of excess wild adult chinook in 2017
- Potentially lower number ins 2018 (lingering effects of “Blob”)




# Proposed Hanford Reach “Summer Salmon” Regulations

## **Hwy. 395 Bridge to I-182 Bridge (CRC 534)**

June 16 - Aug. 15. Daily limit 4. Up to one (1) may be an adult hatchery CHINOOK. Release wild adult chinook and sockeye.

## **I-182 Bridge to Priest Rapids Dam (CRC 535/536)**

June 16 - Aug. 15. Daily limit 6. Up to two (2) may be adult hatchery CHINOOK. Release wild adult chinook and sockeye.

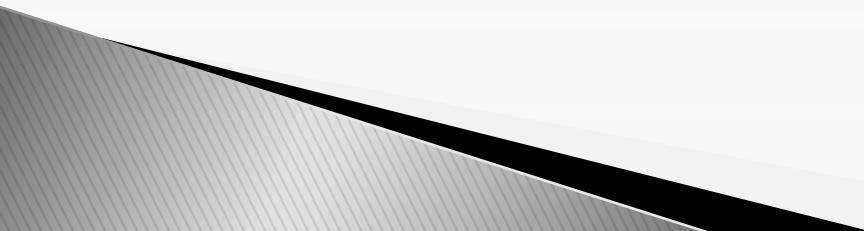


# 2018 Fall Chinook Fisheries

- ▶ **Below Bonneville** – reductions from past years
  - Fisheries constrained by Upriver Brights
- ▶ **Z6 sport – Bonneville to Highway 395**
  - Fishery constrained by Upriver Brights
- ▶ **Priest Rapids Dam to Rock Island Dam** – Non-mark selective, September 1–October 15, daily limit 6 (no more than 2 adult chinook, release sockeye and coho)
- ▶ **Above Rock Island** – Evaluate in-season (unlikely given forecast)



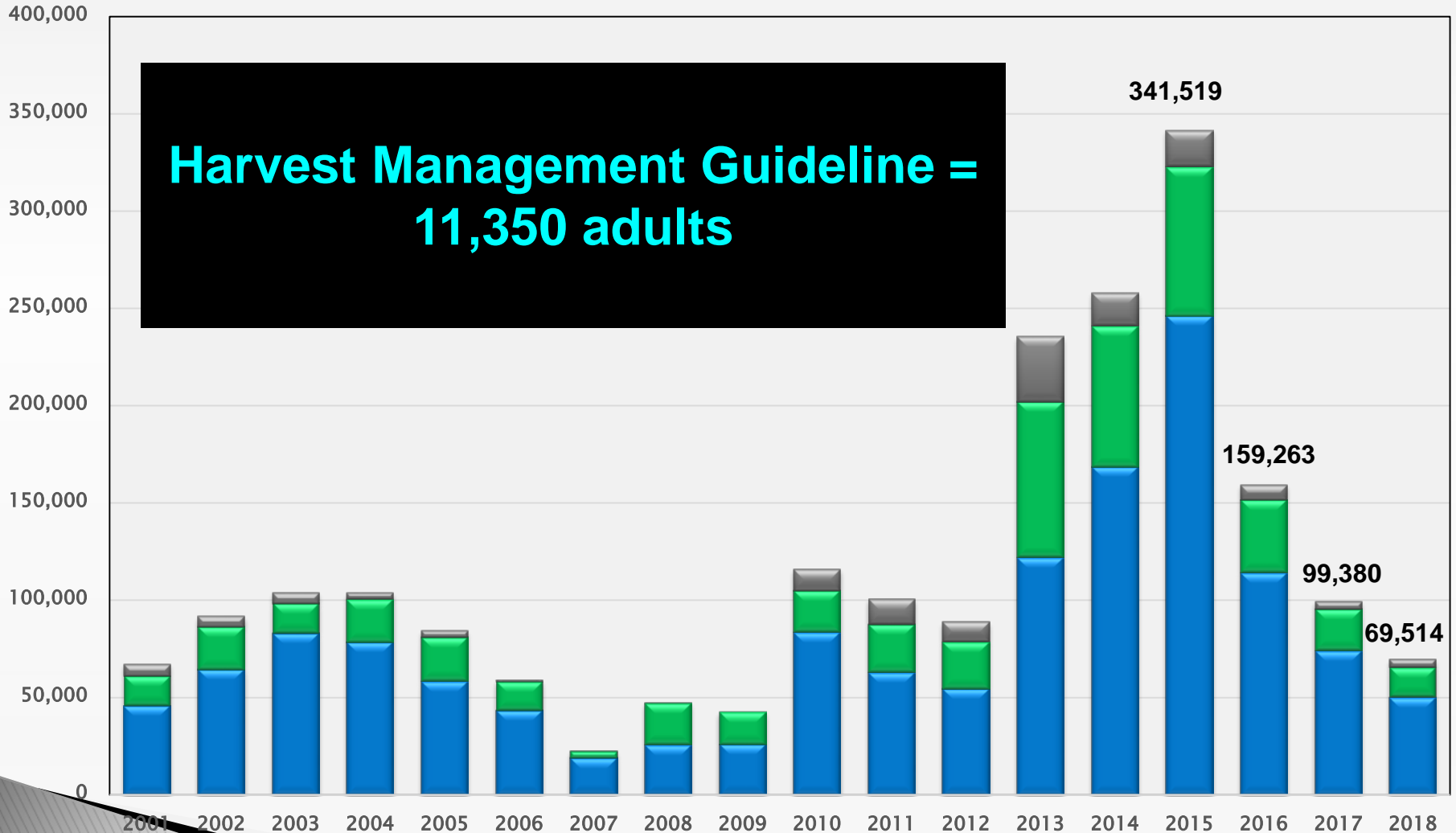
# 2018 Snake River Fall Chinook Fisheries

- Opened all of Snake River beginning in 2011
  - Will use CRC for harvest estimates
  - Plan to open all areas again in 2018 (Mid August or first of September to October 31)
  - Opened by emergency rule, expecting similar limits and restriction as in 2017
  - Continuing work on a joint state Fall Chinook FMEP
- 



# 2018 Hanford Reach Fall Fishery

# 2018 Hanford Reach Fall Forecast







# 2018 Hanford Reach Fall Chinook Regulations

Highway 395 bridge to Old Hanford townsite  
wooden powerline towers (534, 535)

Aug. 16 – Oct. 31. Daily limit 6. Up to 2 may  
be adults.

Use of two poles permitted with permit.







# 2018 Hanford Reach Fall Chinook Regulations (cont.)

Old Hanford townsite wooden powerline  
towers to Priest Rapids Dam (536)

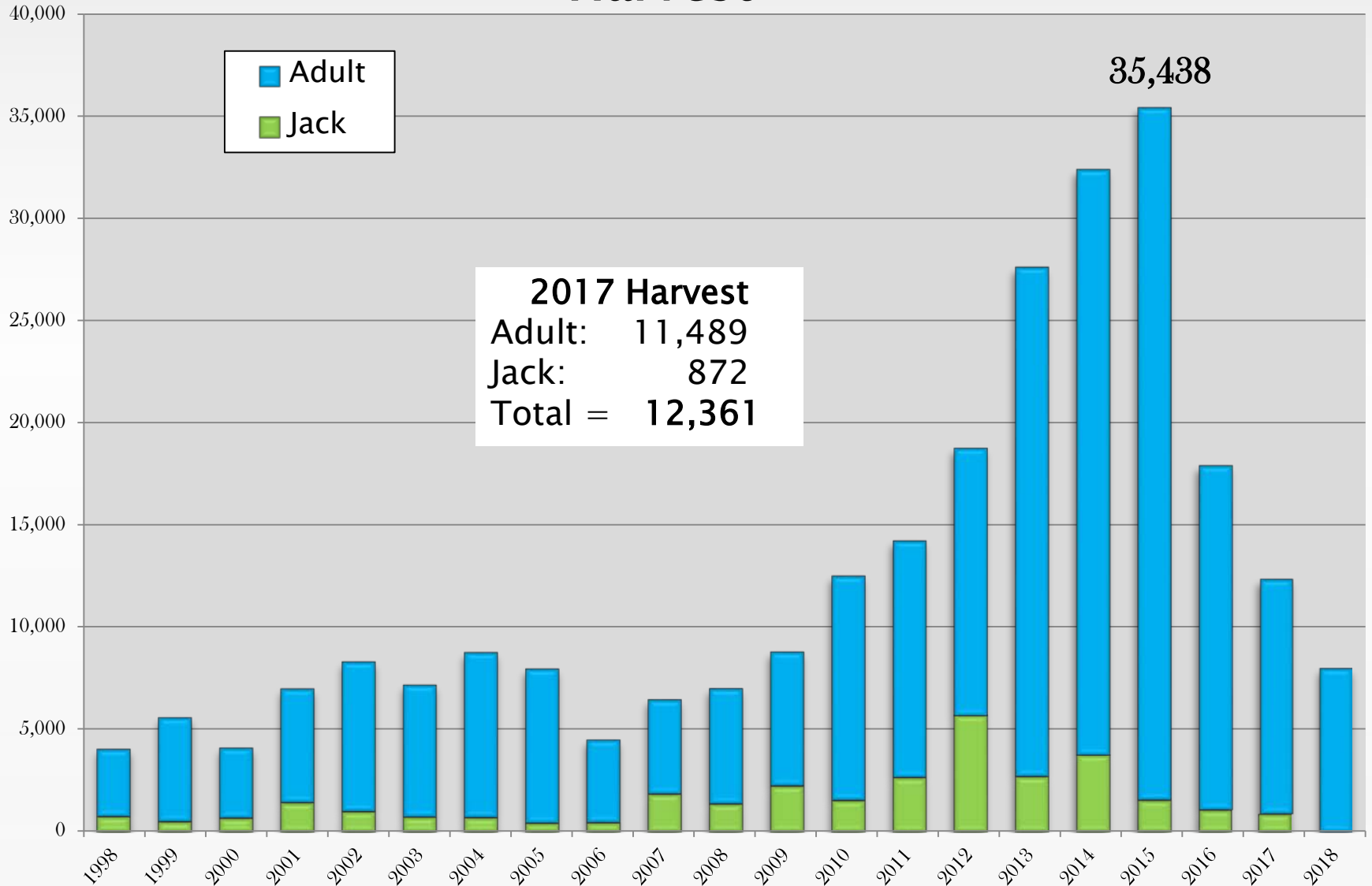
Aug. 16 – Oct. 15. Daily limit 6. Up to 2 may  
be adults.

Use of two poles permitted with permit.

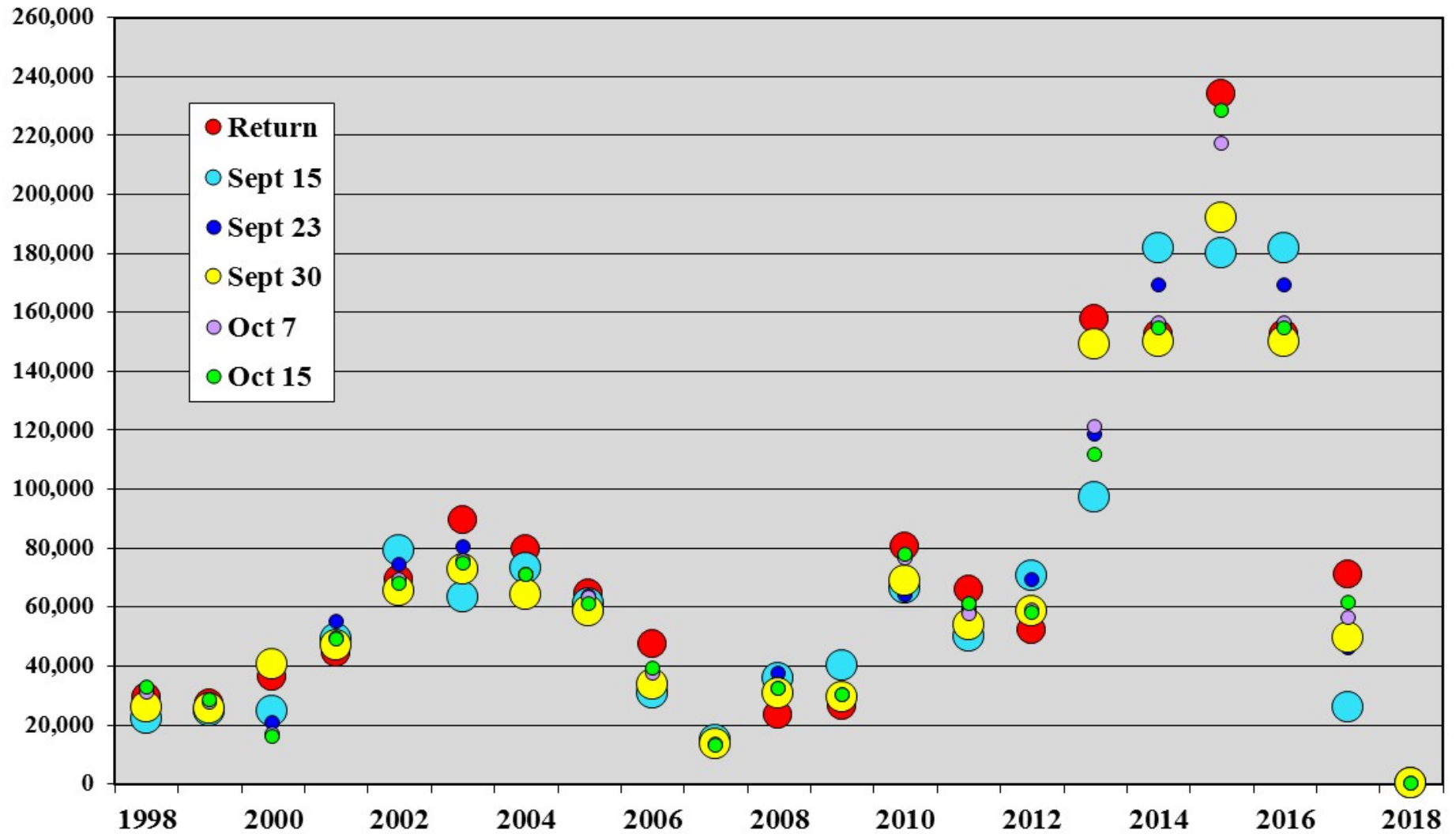


# Hanford Reach Fall Chinook Sport Fishery

## Harvest

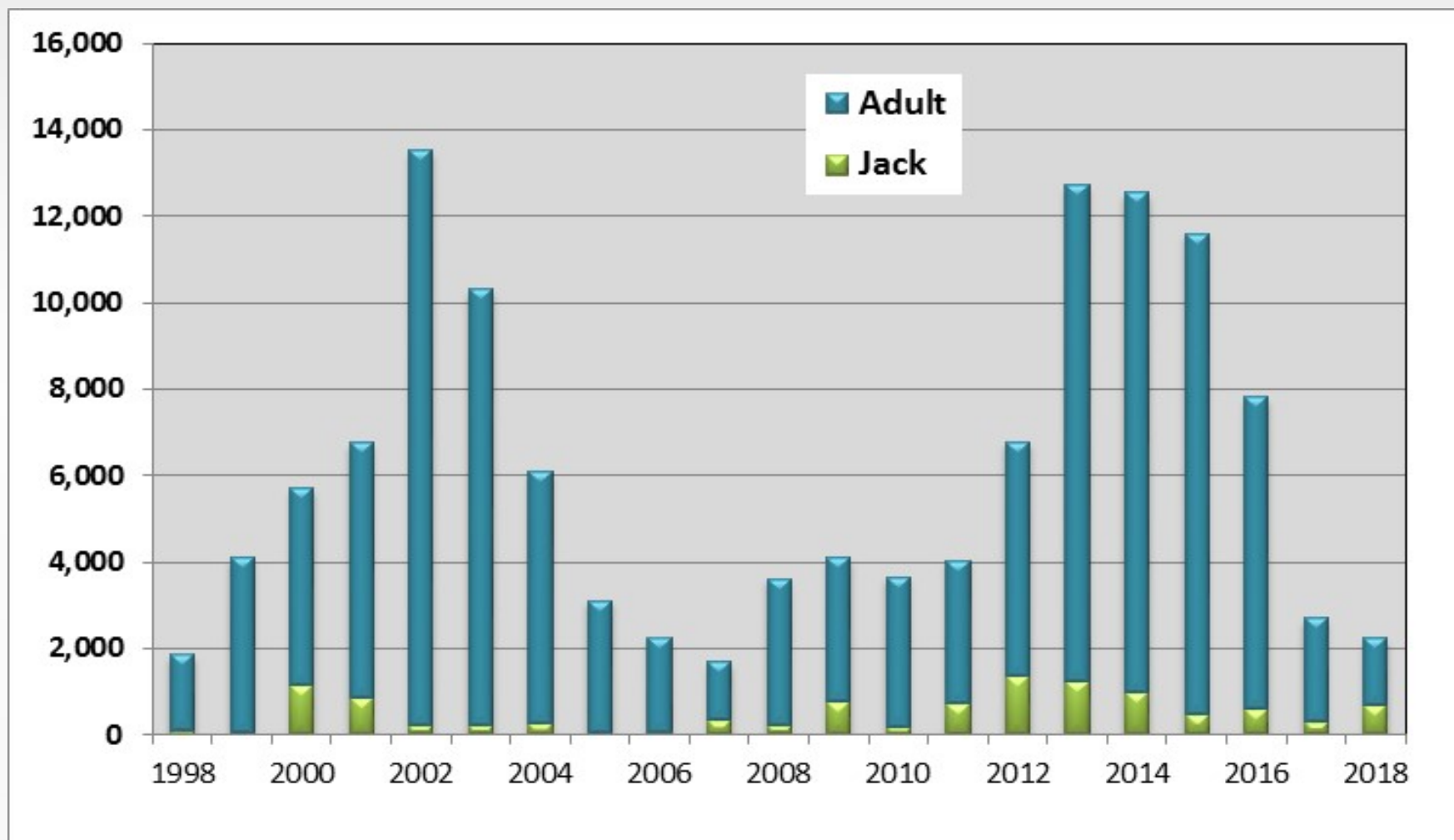


# Hanford Reach Fall Chinook Harvest Management Plan



Escapement Goal = 31,110

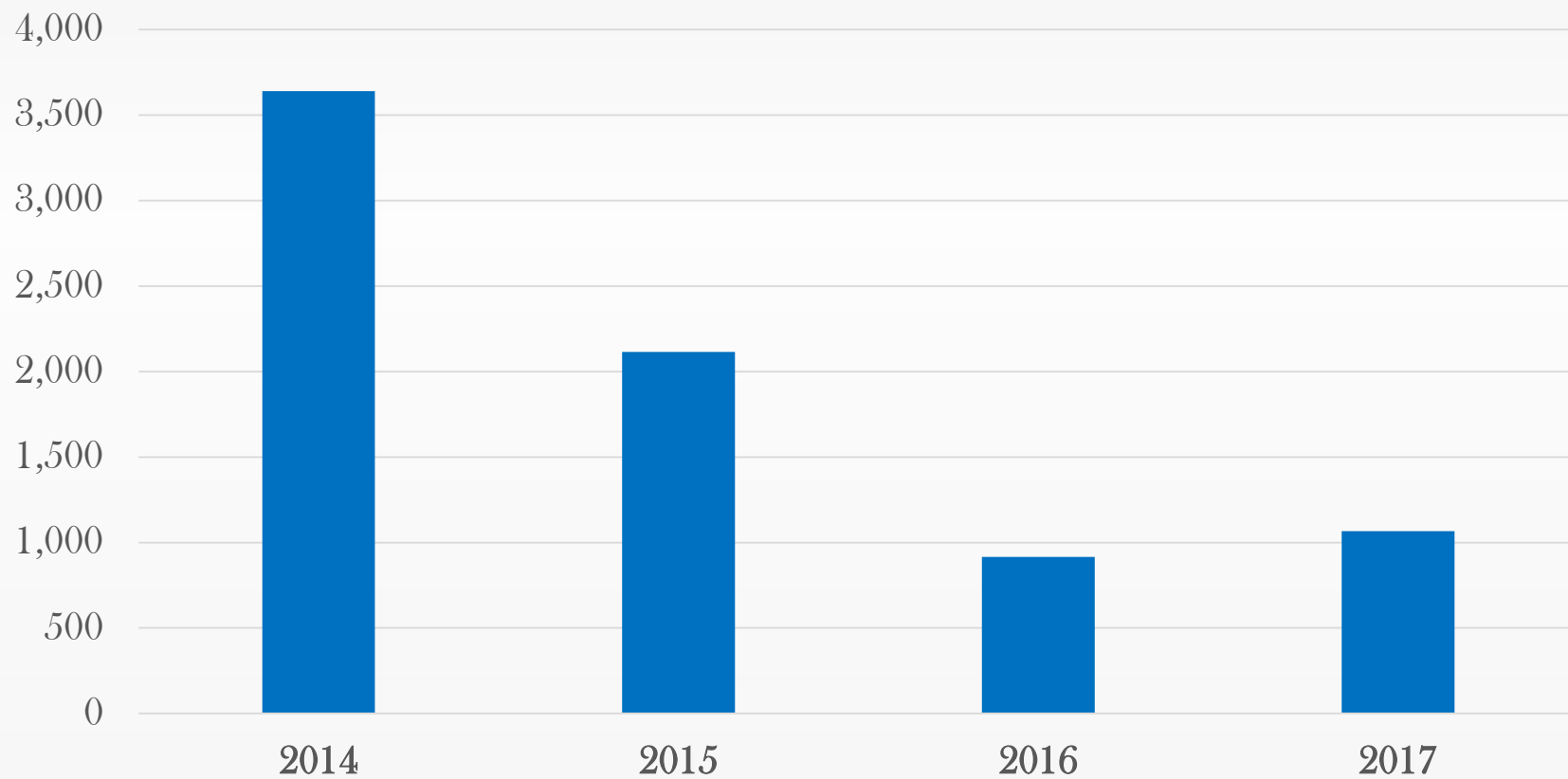
# Yakima River Fall Chinook Forecast



Age	Age 2	Age 3	Age 4	Age 5	Age 6	Total	Adults
2018 Forecast	680	1,009	402	141	8	2,240	1,560



# Ringold Springs Hatchery Summer Steelhead Returns





# 2018–19 Ringold Springs Hatchery Summer Steelhead Regulations

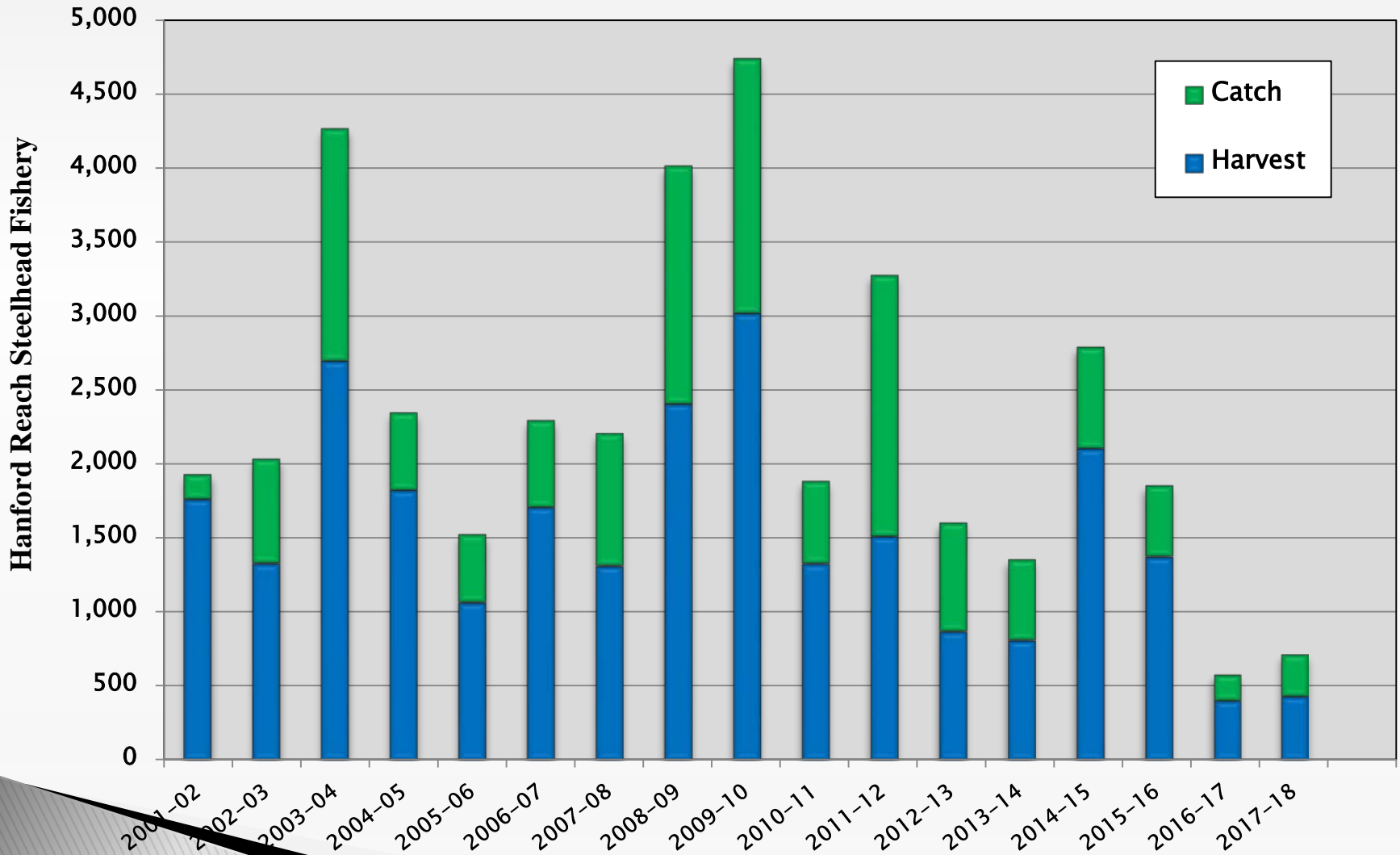
October 1 – 31 Daily limit 2 hatchery steelhead with both adipose fin clipped and ventral fin clipped.

Nov. 1 – Mar 31 Daily limit 2 hatchery steelhead.

April 1 – 15, 2019 Ringold area bank fishery?



# Ringold Springs Hatchery Summer Steelhead Catch & Harvest





Questions?

