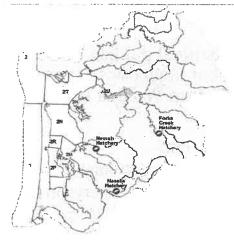
Willapa Bay Salmon Management Policy C-3622



Chad Herring – South Coast Fishery Policy Lead Washington Fish and Wildlife Commission Meeting November 2, 2018

Presentation Outline

- Willapa Bay Salmon Management Policy Background
 - Intent and Policy Development
 - Objectives and Guiding Principles
 - Species Specific Guidance
- Proposed Policy Review Process

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time

Commission Presentation November 2, 2018

- Intent
 - Provides general guidance and management objectives for salmon management in Willapa Bay
- Policy development
 - September 2014 through June 2015
 - · Ad-Hoc Willapa Bay Advisory Group
 - Commercial and recreational stakeholders

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Willapa Bay Salmon Management Policy Background

- Policy development (continued)
 - 4 public workshops/meetings
 - 4 advisory group meetings
 - 1 workshop for Pacific County Commissioners
 - 6 presentations to Fish & Wildlife Commission (FWC)
- Policy adopted June 2015
- Policy expires in 2023

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- Objectives
 - · Achieve restoration of wild salmon
 - · Avoid ESA designation
 - · Maintain or enhance economic well-being
 - Appropriate distribution of fishing opportunities
 - Enhanced transparency, information sharing, and improved technical rigor
 - · Restore and maintain public trust and support

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Willapa Bay Salmon Management Policy Background

- Guiding Principles
 - #3 Improve broodstock management, HSRG standards
 - #4 Alternative selective gear in commercial fisheries
 - #7 Adequately account for species impacts
 - #8 Implement in season management
 - #9 Transparent salmon management
 - #10 Improve fishery management tools

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- Chinook Guidance
 - Two-phase rebuilding program
 - Achieve broodstock management standards by 2020
 - Achieve spawner goals in years 16 21
 - Full recreational fishing season with increased participation and catch
 - · Population designations
 - · Willapa-primary, Naselle-contributing
 - Maintain rebuilding trajectory

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Willapa Bay Salmon Management Policy Background

- Phase One 2015 2018
 - 20% impact rate cap for Willapa and Naselle
 - · Alternative gear set aside for commercial fishery
 - No commercial fisheries until after Labor Day in south
 - No commercial fisheries prior to 9/16 in north

Phase Two - 2019 forward

14% impact rate cap

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- · Coho Guidance
 - Achieve aggregate spawner goal for natural origin Coho
 - Prioritize commercial fishing opportunities
 - September 16 through October 14
 - Provide recreational fishing opportunities

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Willapa Bay Salmon Management Policy Background

- Chum Guidance
 - Achieve aggregate spawner goal for naturally spawning chum
 - Provide commercial fishing opportunities
 - Provide recreational fishing opportunities
 - 10% terminal impact rate cap

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Proposed Policy Review Process

- Development of review questions
 - FWC/WDFW
 - Willapa Bay Salmon Advisory Group (WBSAG)
- Workshops to go over data relevant to review questions
- Analysis of data and results presentation to FWC

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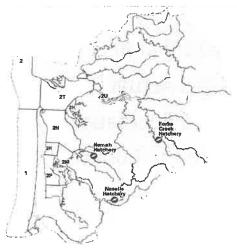
Proposed Policy Review Process

• Timeline and public involvement

Туре	Purpose	Date	Status
Public workshop	Public feedback on policy	Jan 23, 2018	Completed
WBSAG	Proposed process, review public feedback	Sept 14,2018	Completed
WBSAG - rec	Review questions development	Oct 23, 2018	Completed
WBSAG - comm	Review questions development	Oct 24, 2018	Completed
FWC	Proposed process, commissioner feedback	Nov 2, 2018	Scheduled
WBSAG	Review of relevant data	Nov/Dec 2018	Proposed
FWC	Briefing on progress to date	Dec 2018	Proposed
WBSAG	Development of detailed responses	Jan 2019	Proposed
FWC	Briefing on progress to date	Jan 2019	Proposed
FWC	Presentation and seek approval of final report	Feb 2019	Proposed

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Willapa Bay Salmon Management Policy 2015 Season Review



Chad Herring – Fish Program
Washington Fish and Wildlife Commission Meeting
February 27, 2016

Purpose

- Brief Commission on implementation of the Willapa Bay Salmon Management Policy
- Report on public feedback

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Presentation Outline

- Review of Key Policy Elements
- Review of 2015 Planning
- Report on 2015 Actual Performance
- Report on 2015 Recreational Monitoring
- Feedback from the Public
- 2016 Implementation

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Key Policy Elements

- Enhance Conservation Focus
- Reduce Gear Conflict

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Commission Presentation February 27, 2016

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Enhance Conservation Focus

- Implement Phase I: Chinook Rebuilding
 - 20% harvest rate limit on Naselle and Willapa River stocks
- Pursue Alternative Commercial Gears
 - Additional mark selective fishery opportunities
 - 1% of commercial impacts
- Hatchery Production
 - 350K at Forks Creek Hatchery for 2015 brood year

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Commission Presentation February 27, 2016

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Reduce Gear Conflict

Chinook Fishery Management

- No commercial fisheries in areas 2T and 2U prior to September 16.
- No commercial fisheries in areas 2M, 2N, 2P and 2R until after Labor Day.

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Commission Presentation February 27, 2016

Review of 2015 Planning

- Constraining stocks
 - Chinook and Chum
- Crafted fisheries to comply with key policy elements
- Crafting alternative gear use on Naselle River
 Chinook was difficult

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2015 Actual Performance

- Recreational Fishery
 - CRC estimates for 2015 season not available
 - Extremely productive very early in the season
 - Difficult to assess impacts
 - Need for additional monitoring
- Commercial Fishery
 - Chinook catch rate higher than expected
 - Could be due to forecasting, build-up issues and drought
- Total Collapse of Coho Fishery
 - Commercial fishery Scheduled 27 days in Sept. & Oct. plus 20 days in Nov. but only fished 10 days in Sept.- Oct. and no time in Nov.
 - Recreational fishery limited to areas below hatcheries and mark selective

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• Chum

- Arrived earlier than normal
- Couldn't find a way to access without impacting
 Coho in order to provide commercial opportunity

Chinook Pre-Spawn Mortality

- Drought related
- Highest on Naselle River, also observed in Nemah and Willapa Rivers

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2015 Actual Performance

Willapa Bay Fall Chinook - Naturals

Objective Due Consen

ivietric	Objective	Pre-Season	Actual*
Runsize		3,835	4,160
Spawners	4,353	3,100	2,043
Harvest Rate for Willapa/Naselle	20%/20%	20%/18.8%	15.7%/19.3 %
Alternative Gear Willapa/Naselle	1%/1%	6.5%/1.1%	2.5%/0.4%

^{*} Preliminary data subject to change

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Willapa Bay Fall Chinook - Hatchery

Metric	Pre-Season	Actual*
Runsize	30,983	40,672
Escapement	18,394	28,845
Total Harvest Rate	40.6%	29.1%

^{*} Preliminary data subject to change

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2015 Actual Performance

Willapa Bay Coho - Naturals

Metric	Objective	Pre-Season	Actual*
Runsize		38,505	18,112
Spawners	13,090	26,795	13,689

Willapa Bay Coho - Hatchery

Metric	Pre-Season	Actual*
Runsize	41,116	22,722
Escapement	24,262	17,813

^{*} Preliminary data subject to change

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Willapa Bay Fall Chum

Metric	Objective	Pre-Season	Actual*
Runsize		39,994	48,756
Spawners	35,400	35,986	45,044
Harvest Rate	10%	10%	6.8%

^{*} Preliminary data subject to change

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time Commission Presentation February 27, 2016

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2015 Actual Performance

Commercial Catch

Species	Pre-Season	Actual*
Chinook	5,143	4,858
Coho	23,314	1,929
Chum	3,243	2,833

^{*} Preliminary data subject to change

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Natural Origin Spawner Escapements

Species	Basin	Goal	Actual ²	% of Goal
	North	991	173	17%
	Willapa	1,181	1,064	90%
Chinook	Palix	104	77	74%
Cilliook	Nemah	224	35	16%
N. S.	Naselle	1,547	483 ¹	31%
	Bear	306	211	69%
Coho*		13,090	13,689	105%
Chum		35,400	45,044	127%

^{*} Escapement estimated using in-season update model

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2015 Actual Performance

Chinook Pre-Spawn Mortality - Females

Hatchery Natural

Naselle	532	1,865
Nemah	4	345
Willapa	18	96

^{*} Preliminary data subject to change

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February 27, 2016

¹ Does not include 532 pre-spawn mortalities and 522 mortalities at the Naselle Hatchery ² Preliminary data subject to change

Willapa Bay Hatchery Surpluses - Hatchery

Species Forks Creek Nemah Naselle Total

Chinook	12,012	72	3,494	15,578
Coho	2,454	0	6,284	8,738
Chum	4	0	0	4

Preliminary data subject to change

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time

Commission Presentation February 27, 2016

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2015 Recreational Monitoring

- Creel Sampling Marine Area 2.1 Tokeland
 - From Aug. 8 Sept. 20
 - 16 days sampled
 - 285 boats
 - 708 anglers
- Voluntary Trip Reports
 - From July 23 Sept. 18
 - 275 VTR forms handed out
 - 72 VTR forms returned
 - 136 anglers

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2015 Recreational Monitoring

ñ		Creel	VTR
Chinook	Kept - Ad Clipped	306	87
	Kept - Unmarked	0	2
	Released - Ad Clipped	4	1
	Released - Unmarked	116	33
Coho	Kept - Ad Clipped	74	80
	Kept - Unmarked	61	43
	Released - Ad Clipped	3	0
	Released - Unmarked	2	1
Chum	10000000000000000000000000000000000000	0	0

Public Feedback

February 27, 2016

Commercial fishery

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- Was not a viable fishery
- Throw out the "Willapa Plan"
- Harvest rate on unmarked Chinook should be capped at 30%
- Did not like depending on Coho fishery for harvest especially when the Coho fishery collapsed
- Did not like less access to Chinook
- Should have been allowed to access Chinook that died in the rivers
- Increase Chinook production at all Willapa Bay hatcheries

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Public Feedback

- Recreational Fishery
 - Mostly positive for Chinook fishery except limits were too liberal
 - Emergency regulations for Coho were too restrictive
 - Department prioritized recreational fishery over conservation
 - Better monitoring of recreational fishery is necessary

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2016 Policy Implementation

- Constraining stocks
 - Willapa River Fall Chinook 20%
 - Naselle River Fall Chinook 20%
 - Willapa Bay Chum 10%
- Implement change of the natural origin Coho escapement goal to 13,600 from 13,090
- Continue to explore alternative gear
- Review the Chum natural spawning escapement goal
- New tools for in-season updates seemed to work in 2015 for Coho and Chum
 - Will continue to refine those
- Address hatchery operations for natural origin Chinook
- Ocean Ranching Report

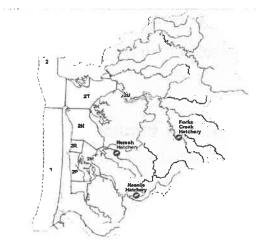
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Questions?

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Commission Presentation February 27, 2016

Willapa Bay Salmon Management Policy 2016 Season Review



Chad Herring – Fish Program
Washington Fish and Wildlife Commission Meeting
February 11, 2017

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Presentation Outline

- Review of Key Policy Elements
 - Enhance conservation focus
 - Reduce gear conflict
- Review of 2016 Planning
- Report on 2016 Preliminary Performance
- Report on 2016 Recreational Monitoring
- 2017 Implementation

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time Commission Presentation February 11, 2017

Enhance Conservation Focus

- Implement Phase I: Chinook Rebuilding
 - 20% harvest rate limit on Naselle and Willapa River stocks
- Pursue Alternative Commercial Gears
 - Additional mark selective fishery opportunities
 - -6% of commercial impacts

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time

Commission Presentation February 11, 2017

3

Reduce Gear Conflict

Chinook Fishery Management

- No commercial fisheries in areas 2T and 2U prior to September 16.
- No commercial fisheries in areas 2M, 2N, 2P and 2R until after Labor Day.

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Review of 2016 Planning

- · Constraining stocks
 - Chinook
 - Chum
- Crafted fisheries to comply with key policy elements
- Alternative gear proposals

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2016 Preliminary Performance

- Recreational Fishery
 - CRC estimates for 2016 season not available
 - Difficult to assess impacts
 - Need for additional monitoring
 - Local vs. non local
 - Landowner issues
- Commercial Fishery
 - Scheduled 50 openers
 - Actual 42 openers
 - Chum concern
 - Tangle net

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Chinook

- Baseline genetic analysis
- Challenging river flows
- Lower than predicted natural origin return

Coho

- Hatchery runsize higher than predicted
- Carcass recoveries

• Chum

- Lots of Chum
- In-season runsize update (ISU)

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2016 Preliminary Performance

Willapa Bay Fall Chinook - Naturals

Metric	Objective	Pre-Season	Actual*
Runsize		3,261	2,476
Spawners	4,353	2,610	1,581
Harvest Rate for Willapa / Naselle	20% / 20%	19.5% / 19.4%	25.1% / 25.0%
Alternative Gear Willapa / Naselle	2% / 2%	6.8% / 11.0%	2.7% / 2.7%

^{*} Preliminary data subject to change

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Willapa Bay Fall Chinook - Hatchery

Metric	Pre-Season	Actual*
Runsize	36,186	22,992
Escapement	19,977	12,766
Total Harvest Rate	44.8%	44.1%

^{*} Preliminary data subject to change

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Commission Presentation February 11, 2017

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2016 Preliminary Performance

Willapa Bay Coho - Naturals

Metric	Objective	Pre-Season	Preliminary*
Runsize		37,069	33,233
Spawners	$13,600^1$	26,012	24,946

WDFW goal; PFMC goal 17,200 naturally spawning Coho

Willapa Bay Coho - Hatchery

Metric	Pre-Season	Preliminary*
Runsize	23,810	42,920
Escapement	15,535	22,672

^{*} Preliminary data subject to change

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Willapa Bay Fall Chum

Metric	Objective	Pre-Season	Actual*
Runsize		47,555	86,475
Spawners	35,400	42,855	80,748
Harvest Rate	10%	9.9%	6.6%

^{*} Preliminary data subject to change

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2016 Preliminary Performance

Commercial Landed Catch

Species	Pre-Season	Actual*
Chinook	7,512	3,144
Coho	12,512	19,304
Chum	4,425	5,183

^{*} Does not include estimated impacts and drop off

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^{*} Preliminary data subject to change

Natural Origin Spawner Escapements

Species	Basin	Goal	Actual ²	% of Goal
	North	991	194	20%
	Willapa	1,181	575	49%
Chinook -	Palix	104	17	16%
Chinook	Nemah	224	154	69%
	Naselle	1,547	597	39%
	Bear	306	31	10%
Coho		13,600	$24,946^{1}$	183%
Chum		35,400	80,748	228%

¹Escapement estimated using in-season update model

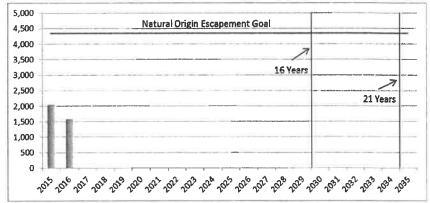
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2016 Preliminary Performance

Willapa Bay Chinook Natural Origin Spawner Escapement



Preliminary data subject to change

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time Commission Presentation February 11, 2017

² Preliminary data subject to change

Chinook Pre-Spawn Mortality - Females

Pasin	Nat	Natural		Hatchery	
Basin	2015	2016	2015	2016	
Naselle	532	24	1,865	5	
Nemah	4	0	345	0	
Willapa	18	0	96	0	

Preliminary data subject to change

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2016 Preliminary Performance

Willapa Bay Hatchery Surpluses - Hatchery

Species	Forks Creek	Nemah	Naselle	Total
Chinook	2,598	901	1,019	4,518
Coho	4,755	19	8,549	13,323
Chum	20	0	0	20

Preliminary data subject to change

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Commission Presentation February 11, 2017

2016 Recreational Monitoring

- · Creel Sampling
 - Marine Area 2.1 Tokeland & South Bend
 - From August 1 September 18, 2016
 - 44 days sampled
 - 1,414 interviews
 - 3,348 anglers
- Voluntary Trip Reports (VTR's)
 - From August 2 September 15, 2016
 - 360 VTR forms handed out
 - 73 VTR forms returned
 - 20.3% return
 - 168 anglers

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2016 Recreational Monitoring

Species	Status	Creel	VTR
	Kept - Ad Clipped	646	49
Chinook	Kept – Unmarked	3	5
Cilillook	Released - Ad Clipped	20	5
	Released - Unmarked	232	22
	Kept - Ad Clipped	151	12
Coho	Kept - Unmarked	54	0
Cono	Released - Ad Clipped	2	0
	Released - Unmarked	3	0
Chum	Released	1	0

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2017 Policy Implementation

- Constraining stocks
 - Willapa River Fall Chinook 20%
 - Naselle River Fall Chinook 20%
 - Willapa Bay Chum 10%
- Continue to explore alternative gear
 - Floating pontoon fish trap
- New tools for in-season updates seemed to work in 2016 for Coho and Chum
 - Will continue to refine those
 - Chinook ISU
- Wild Future Initiative

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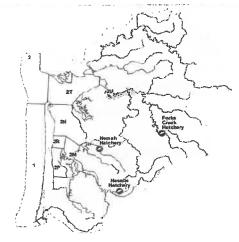
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Questions?

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Commission Presentation February 11, 2017

Willapa Bay Salmon Management Policy



Annette Hoffmann- Fish Program
Washington Fish and Wildlife Commission Meeting
March 18, 2017

Presentation Outline

- Policy Overview
- Review 2016 Data
- What does it all mean?
- Rebuilding Trajectory

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time Commission Presentation March 18, 2017

Willapa Bay Policy Overview

- Key policy elements
 - Enhanced conservation focus
 - Gear conflict
- Chinook fishery management objectives
 - Achieve spawner goals for North, Naselle, and Willapa River stocks
 - Provide enhanced recreational season
 - · Anticipated impact rate of 3.2% initially
 - Commercial opportunity with remaining impacts

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Willapa Bay Policy Overview

Chinook fishery and species – specific guidance

7) Maintaining Rebuilding Trajectory

"If the postseason estimate of aggregated natural-origin Chinook salmon mortality exceeds the preseason projection, the Department staff shall make a recommendation to the Commission regarding an adjustment to the allowable impacts for the subsequent year. The recommendation shall be based upon the percentage by which the postseason estimate of impacts exceeded the preseason projection, but may consider other factors such as the predicted abundance or other relevant factors"

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time Commission Presentation March 18, 2017

Review 2016 Data

- Willapa Bay natural-origin Chinook
 - -Terminal runsize

Forecast	Actual*	Proportion
3,258	2,447	75%

-Total fishery impacts

Pr	edicted	A	ciual*
#	Impact Rate	# 1	Imparet Rate
651	20.0%	535	21.9%

^{*}Preliminary data subject to change

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Review 2016 Data

• Commercial fishery impacts

Pr	edicted	A	ctual*
#	Impact Rate	fi	Impact Rate
493	15.1%	298	12.2%

* Preliminary data subject to change

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Commission Presentation March 18, 2017

Review 2016 Data

· Recreational fishery impacts

Marine Impacts				Freshwater Impacts				Total Rec Impacts			
Pirer	listera	4\ct	ual ⁴	Pirec	licted	Acti	mal .	Presi	licited	£(c)t	ural ^{si}
#	%	#	%	#	%	#	%	#	%	#	%
92	2.8%	124	5.1%	66	2.0%	113	4.6%	158	4.8%	237	9.7%

^{*}Preliminary data subject to change

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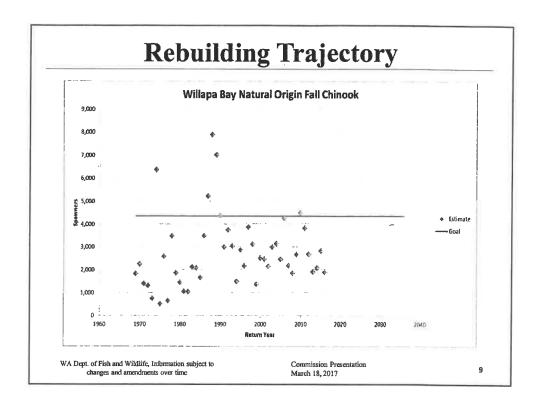
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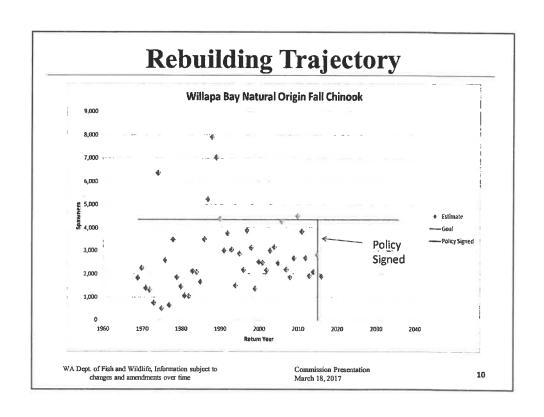
What Does It All Mean

- Recreational impacts estimated using historical average harvest/impact rates
- Aggregate in-season estimate less than preseason prediction
- Phase I Rebuilding
- Commercial impacts lower than predicted
- Recreational impacts higher than predicted
 - Chasing the curve
 - Model improvements to increase predictability of recreational harvest/impacts
 - Funding requests

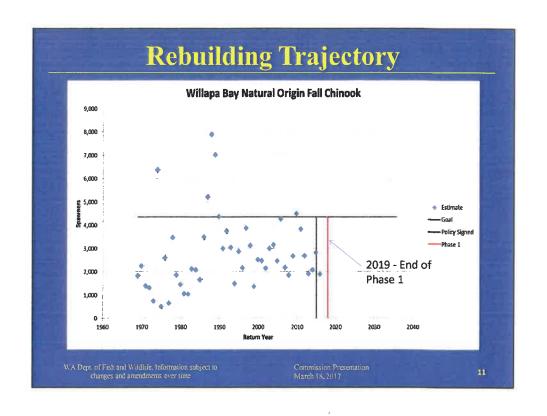
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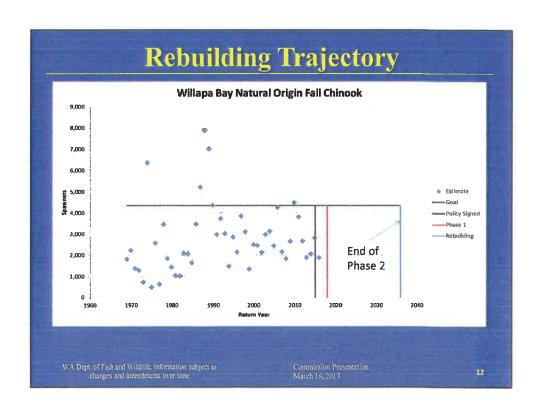
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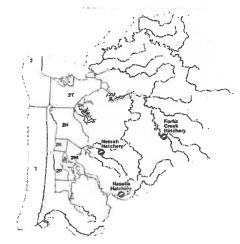


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Willapa Bay Salmon Management Policy 2017 Season Review



Annette Hoffmann & Chad Herring-Region 6 Fish Program Washington Fish and Wildlife Commission Meeting
December 9, 2017

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Presentation Outline

- Review of Key Policy Elements
 - Enhance conservation focus
 - Reduce gear conflict
- Review of 2017 Planning
- Fishery Review
 - Recreational
 - Commercial
- Stock Assessment
- 2018 Implementation

WA Dept. of Fish and Wildlife, Information subject to changes and amendments over time Commission Presentation December 9, 2017

Review of Key Policy Elements

- Implement Phase I: Chinook Rebuilding
 - 20% harvest rate limit on Naselle and Willapa River stocks
- Pursue Alternative Commercial Gears
 - Additional mark selective fishery opportunities
 - -6% of commercial impacts
- Prioritize Species Utilization by Sector
 - Chinook recreational priority
 - Coho and Chum commercial priority

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Review of Key Policy Elements

Chinook Fishery Management

- No commercial fisheries in areas 2T and 2U prior to September 16.
- No commercial fisheries in areas 2M, 2N, 2P and 2R until after Labor Day.

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Review of 2017 Planning

- Constraining stocks
 - Chinook
 - · Rebuilding
 - · 20% harvest rate on Naselle and Willapa stocks
 - Chum
 - 10% harvest rate
 - No commercial fisheries between October 15-31
- Alternative gear proposals
 - Floating pontoon fish trap

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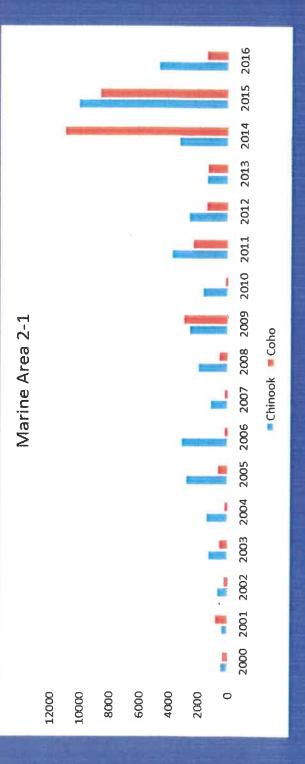
Recreational Fishery Review

- Marine Area 2-1
 - Marine Area 2 rules
 - August 1st January 31st
 - 3 adult daily limit, release wild Chinook
 - 2-pole endorsement
- Freshwater
 - August 1st January 31st
 - 4 adult daily limit, release wild Chinook
 - 2-pole endorsement
 - November 1st only 2 wild Coho

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Recreational Marine Fishery Review

Catch	Coho	4,039	8,611	1,428
Total Catch	Chinook	2,760	10,047	4,626
Vocase	Icars	2011-2014 avg.	2015	2016



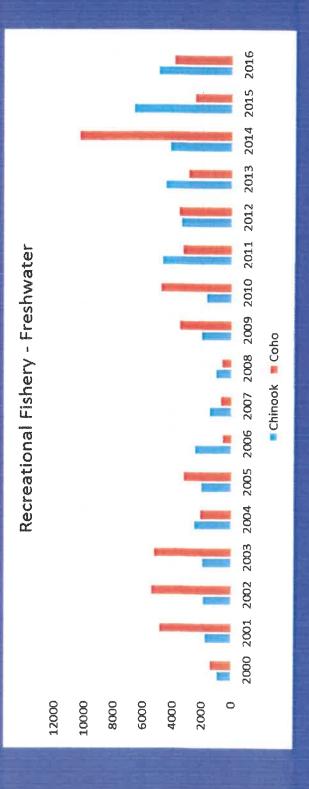
Recreational Marine Fishery Review

Recreational Monitoring

				Chin	Chinook		ာ	Coho
Year	Total Number of Interviews	Total Anglers	Hatchery Natural Natural Retained Released	Natural Retained	Natural Released	Encounter Ratio	Hatchery Retained	Natural Retained
2015	351	848	385	1	151	0.3922	149	92
2016	1487	3516	695	8	254	0.3655	163	54
2017	919	2127	499	4	166	0.3327	09	37
Total	2757	6491	1579	13	571	0.3616	372	183

Recreational Freshwater Fishery Review

Total Catch	Coho	5,017	2,494	3,845
Tot	Chinook	4,116	6,544	4,887
Sec. O.	Icals	2011-2014 avg.	2015	2016



			\bigcirc

Recreational Fishery Review

Recreational Harvest Rates - Wild Chinook

		Predicte	Predicted Pre-Season H	son Harv	arvest Rates	S		Actual	Actual Post-Season Harvest Rates	on Harve	st Rates	
Š	Mai	Marine Area 2-1	12-1	ᅸ	Freshwater	<u>.</u>	Mai	Marine Area 2-1	a 2-1	11.	Freshwater	_
	Willapa Bay	Willapa River	Naselle River	Willapa Willapa Willapa Willapa Willapa Willapa Willapa Bay River Bay River Bay River	Willapa River	Naselle River	Willapa Bay	Willapa River	Naselle River	Willapa Bay	Willapa River	Naselle River
2015	0.021	0.04	0.011	0.019	0.015	0.012	0.059	0.100	0.044	0.043	0.048	0.022
2016	0.028	0.056	0,007	0.05	0.021	0.013	0.075	0.141	0.036	0.016	0.009	0.021
2017	0.041	0.076	0.011	0.038	0.045	0.023						
Average	0:030	0.057	0.010	0.026	0.027	0.016	0.067	0.120	0.040	0.029	0.029	0.021

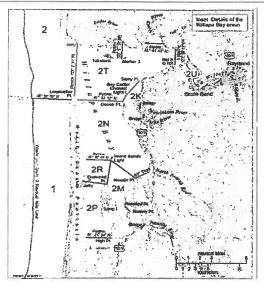
Average total actual harvest rate by sub-basin

Willapa Bay 9.6%, Willapa River 14.9%, Naselle River 6.1%

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December 9, 2017

Commercial Fishery Review



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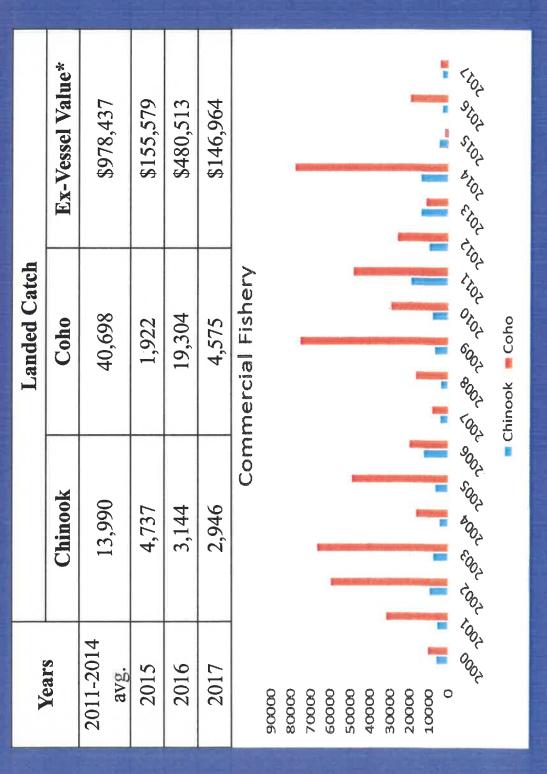
Commercial Fishery Review

- South Bay Areas 2N, 2R, and 2M
 - September 5th October 13th
 - 22 12-hr openers
 - 7 tangle net openers
 - November
 - 22 24-hr openers
- North Bay Areas 2T and 2U
 - September 18th October 13th
 - 2U 19 12-hr openers, all tangle net
 - 2T 10 12-hr openers, 3 tangle net
 - November
 - · 22 24-hr openers

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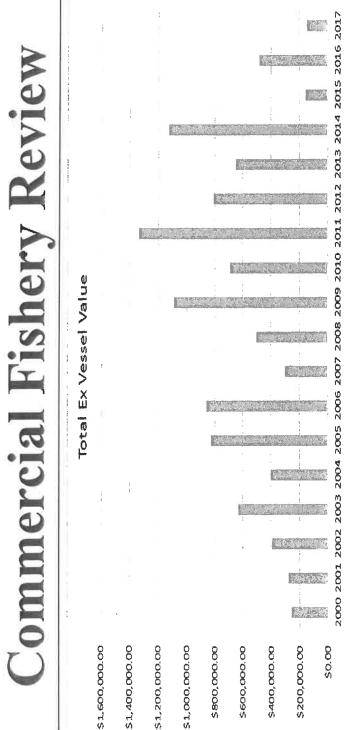
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Commercial Fishery Review

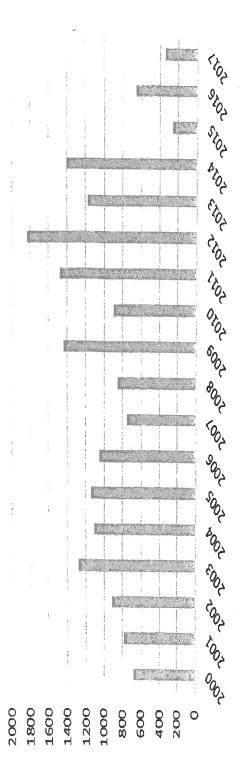


* GDP adjusted to 3rd Quarter 2017

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Annual Commerial Fishery Landings



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Commercial Fishery Review

Commercial Fishery Monitoring - Wild Chinook

			Total Impacts			
		Predicted			Actual	
Year	Willapa Bay	Willapa River	Naselle River	Willapa Bay	Willapa River	Naselle River
2015	581	208	303	515	122	314
2016	493	169	. 281	298	97	173
2017	468	155	242	290	169	105

Harvest Rate								
Year		Predicted		Actual				
	Willapa Bay	Willapa River	Naselle River	Willapa Bay	Willapa River	Naselle River		
2015	15.2	14.5	16.5	11.9	7.6	15.6		
2016	15.1	11.8	17,3	12.3	9.2	18.8		
2017	11.3	7.8	14.4					

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Commercial Fishery Review

Alternative Gear

	Policy Objective	Pre-S	eason	Actual		
Year	Willapa Naselle	Willapa	Naselle	Willapa	Naselle	
	River River	River	River	River	River	
2015	1.0%	6.5%	1.1%	2.5%	0.4%	
2016	2.0% 2.0%	6.8%	11.0%	2.7%	2.7%	
2017	6.0% 6.0%	6.0%	11.9%	D. L. L. C.		

- Tangle net use
- Terminal areas
- Condition upon release

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Commercial Fishery Review

- Alternative Gear Proposals
 - Floating pontoon fish trap
 - Emerging Commercial Fishery
 - CR-101 filed April 19,2017
 - 3 stakeholder meetings
 - Public comment
 - Unlimited entry, time and place, ability to participate given timeframe, and faulty process
 - Withdrawn on June 14, 2017
 - Experimental Commercial Fishery
 - CR-101 filed June 14, 2017
 - 3 stakeholder meetings
 - · Public comment similar to previous meetings

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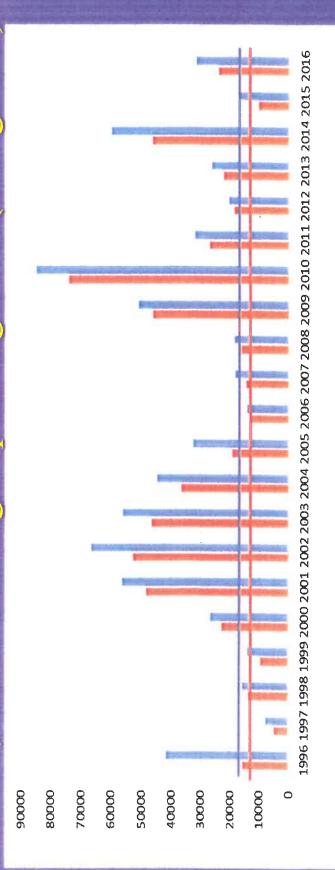
Stock Assessment - Chinook

Basin	North River/Smith Creek Primary 991		Willapa River Primary 1181		Naselle River Contributing 1547		Willapa Bay Basin	
Pop. Des.							BASIN	TOTAL
Goal							4353	
Year	NOS	pHOS	NOS	pHOS	NOS	pHOS	NOS	pHOS
2010	315	0%	1873	69%	1971	82%	4418	76%
2011	298	0%	1473	70%	1415	87%	3331	81%
2012	168	0%	1191	66%	581	92%	2057	81%
2013	113	0%	481	77%	767	82%	1669	80%
2014	99	47%	784	74%	975	81%	1936	81%
2015	173	0%	1064	70%	483	68%	2043	73%
2016	194	0%	575	81%	597	75%	1581	74%
2017	190	0%	1668	66%	1191	24%	3392	61%
2010-2016 Avg.	194	7%	1063	72%	970	81%	2434	78%

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Stock assessment - Coho

- PFMC Objective
- 17,200 naturally spawning Coho (Blue line)
- WDFW Objective
- 13,400 natural origin spawning Coho (Orange line)



Stock assessment - Chum

Spawner Escapement Objective

-35,400



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2018 Policy Implementation

- Constraining stocks
 - Willapa River Fall Chinook 20%
 - Naselle River Fall Chinook 20%
 - Willapa Bay Chum 10%
- Continue to explore alternative gear
 - Floating pontoon fish trap
- Allocation of available impacts

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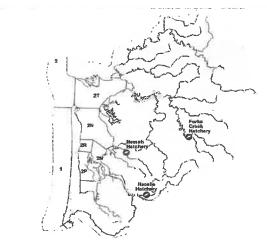
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Questions?

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Willapa Bay Salmon Management Policy



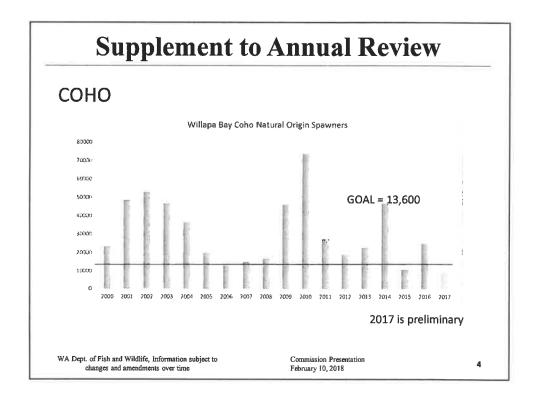
Annette Hoffmann & Chad Herring—Region 6 Fish Program Washington Fish and Wildlife Commission Meeting February 10, 2018

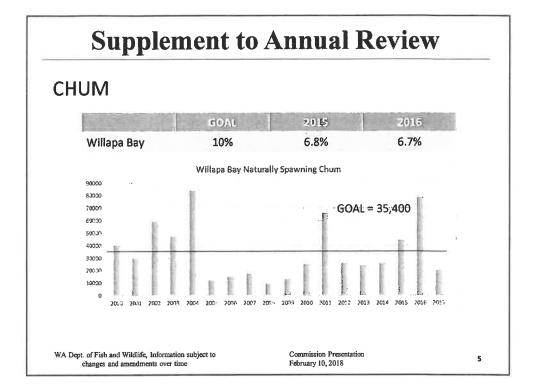
Presentation Outline

- Clarify Annual Review
- · Policy base assumptions and performance
- Clarification of policy intent
- Proposed public process

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Supplement to Annual Review CHINOOK GOAL 2015 Willapa River 20% 22.4% 24.1% Naselle River 20% 22.1% 24.6% Willapa Bay Natural Origin Spawners 4500 4000 Goal = 4,3533500 3000 2500 7000 1500 1000 500 2000 WA Dept. of Fish and Wildlife, Information subject to Commission Presentation February 10, 2018 3 changes and amendments over time





- -Proper hatchery operations
- -Develop alternative selective gear
- -Conduct adequate monitoring
- -Adequate communication
- -Chinook allocation
- -Economic well being of fisheries

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-Proper hatchery operations for Chinook by 2020

	North/Smith Primary	The second	ipa R nary	Nevalle R Contributing		
Year	p)F(0)5	p)H(0)S	PNI	pHOS	PNI	
	< 30%	< 30%	> 57%	< 30%	> 50%	
2015	No Data	70%	51%	69%	18%	
2016	No Data	81%	52%	75%	14%	
2017*	No Data	75%	30%	26%	35%	

^{*} preliminary

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Policy Base Assumptions

-Proper hatchery operations for Coho by 2015

	North/Smith Primary	Willey Prima	Numeti Contributio		
Goals	pHOS < 30%	pHOS < 30%	PNI > 67/%	pHOS < 30%	
2015	14%	46%	52%	No Data	
2016	0%	27%	78%	No Data	
2017*	0%	68%	30%	No Data	

^{*} preliminary

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- Proper hatchery operations for Chinook by 2020
 - Weir efficiency
 - Program adjustments

Hatchery	Release 2015	Release 2016	See Transition
Forks	3.2M	350K	2019-20
Naselle	800K	2.5M	2019-20

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Policy Base Assumptions

- -Develop alternative selective gear
 - Recreational Mark selective regulations
 - Commercial
 - -Tangle Net

Year	Alt Gear Goal	Willapa R	Naselle R
2015	1%	2.5%	0.4%
2016	2%	2.6%	2.7%
2017	6%	8.4%	4.7%

^{*} preliminary

-Fish Trap – suspended in 2017

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- -Conduct adequate monitoring (commercial)
 - 20% sample rate
 - 15% observer rate
 - Allows for in-season fishery adjustments based on actual harvest
 - Provides CPUE data for in-season updates on coho
 - Allows for future model improvements

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Policy Base Assumptions

- Conduct adequate monitoring (recreational)
 - Have not had adequate information for in season fishery adjustments based on actual harvest
 - -Policy assumed 3.2% impact rate on NORs.
 - -The average impact rate on Willapa River NOR's is 14.9%
 - Allows for future model improvements

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- -Conduct adequate monitoring (spawner surveys)
 - Provides for in-season updates on runsizes for coho and chum for fishery management
 - Provides for post season spawner escapement
 - Provides for spawner age and origin composition (pHOS)

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Policy Base Assumptions

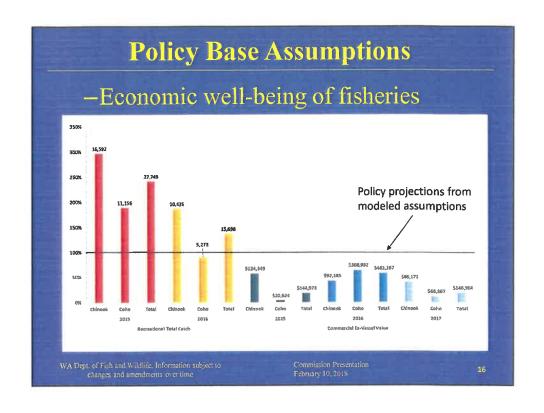
- -Adequate Communication
- Pre season
 - Multiple stakeholder meetings for North of Falcon (forecast, management objectives, modeling of fisheries and fishing package development)
 - · Rule Making public hearing
- In-season
 - Weekly summaries (Aug-Sep) are provided stakeholders on commercial harvest, hatchery escapement, recreational monitoring information.
 - Communication on in-season management actions
- Post season
 - · Annual review with Fish and Wildlife Commission

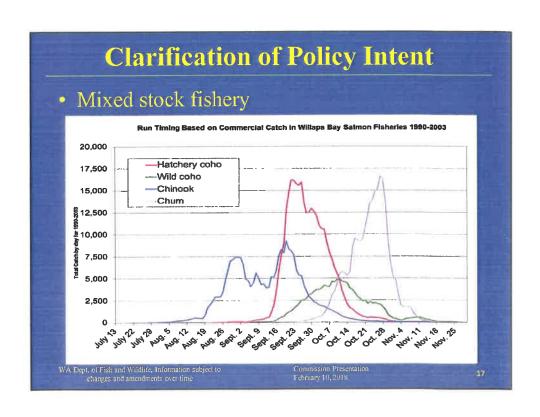
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- Chinook Allocation in Priority Order
 - Chinook impacts allocated to recreational fisheries
 - Alternative gear policy set asides
 - Commercial gillnet gear

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Clarification of Policy Intent

• Does the application of the policy language represent the Commission's intent?

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Public Comments

- From Raymond Public Workshop Jan 23
 - Examples of Comments on Priority
 - No priorities
 - Don't change priorities if you can't hit the goal
 - There is no conflict for priorities.
 - Priority is opportunity for all within conservation limits

wdfw.wa.gov/fishing/commercial/salmon/season_setting

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Proposed Process

- Public engagement
- Identify issues
 - Expand on base assumptions
 - Key conflicts
 - Policy review
- Brief the Fish and Wildlife Commission on developments this fall

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Questions?

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