

12. Columbia River Spring Chinook Allocation Policy

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## GREEN SHEET

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| <b>Meeting dates:</b>   | January 9-10, 2009, Commission Meeting   |
| <b>Agenda item #12:</b> | Columbia River Spring Chinook Allocation Policy  |
| <b>Staff Contact:</b>   | Cindy LeFleur, Columbia River Harvest and Hydro Management<br>—Intergovernmental Resource Management       |
| <b>Presenter(s):</b>    | Guy Norman, Director—Director's Office-Region 5<br>Phil Anderson, Deputy Director—Policy-Director's Office |

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### Background:

Columbia River spring Chinook are comprised of lower river stocks returning to Washington tributaries below Bonneville Dam and the Willamette River in Oregon, and upriver stocks destined for areas above Bonneville Dam. Two components of the wild upriver run are listed under the Endangered Species Act (ESA), Snake River spring/summer Chinook and Upper Columbia spring Chinook, and two lower river components are listed as well—Upper Willamette spring Chinook and Lower Columbia Chinook.

The parties to *U.S. v Oregon* developed a conservation-based fish management plan to protect, rebuild, and enhance upper Columbia River fish runs. During 1986-1995, fisheries operated under the Columbia River Fish Management Plan (CRFMP) that limited the non-Indian fisheries to less than 5% of the upriver run. Non-Indian Columbia River fisheries were directed at Willamette spring Chinook by timing of the fishery, with incidental impacts to upriver stocks.

With the advent of mass-marked hatchery fish, mark-selective fishing techniques, and agreements with the *U.S. v Oregon* parties, additional selective fishing opportunities became available beginning in 2001. The states were able to implement mark-selective sport and commercial fisheries that allowed for very small catch and release incidental mortality (i.e. the level of unintended fisheries-related mortality) on the ESA-listed stocks while providing opportunity to harvest abundant hatchery fish. These fisheries have operated under strict limits on the allowable level of incidental-mortality of ESA-listed salmon, and have generally been limited to 2% of the run. Both sport and commercial fisheries use mark-selective fishing techniques that require the release of all spring Chinook with an adipose fin intact.

The *U.S. v Oregon* parties have signed an agreement relative to harvest and production of upriver-bound salmon and steelhead stocks covering the time frame of 2008-2017. A sliding scale harvest rate is in place for upriver spring Chinook that provides limited opportunities at the smallest run sizes and increased opportunities at larger run sizes. This sliding scale harvest rate schedule provides a sound basis for recovery objectives encompassed in the Biological Opinion, and provides for non-Indian and treaty Indian fisheries to harvest abundant hatchery fish, while providing protection to ESA-listed stocks. The harvest rate for non-Indian fisheries ranges from 0.5% to 2.7% of the wild upriver spring Chinook; it varies depending on run size. The sport and commercial fisheries are required to release spring Chinook that are wild or unmarked (with an adipose fin). Although the survival rate for fish that are released is high, (85%-90%), some of the fish that are released will not survive. Each season, the harvest rate is calculated from the number of wild or unmarked fish that are released in sport and commercial fisheries and the estimated number that do not survive.

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### Previous Allocation Decisions

Until 2002, non-Indian sport and commercial catch of upriver spring Chinook had never been formally allocated, although *U.S. v Oregon* agreements limited seasons for sport and commercial fisheries which resulted in relatively balanced impacts to upriver spring Chinook. Beginning in 2002, a series of policies have provided guidance on allocation of the ESA limits to sport and commercial fisheries. Three two-year policies were in place from 2002-2007. A one-year policy was adopted for 2008. The current policy, C-3617, 2008 (following) expires December 31, 2008 includes attachment 1, Guiding Principles and Fisheries Management Objectives, which have changed very little over the past seven years. The actual allocation of impacts to sport and commercial fisheries has also changed very little ranging from 57% sport/43% commercial to 65% sport/35% commercial. The current allocation is 61% sport and 39% commercial.

### Fishery Management

Fisheries in the Columbia River are jointly managed with the state of Oregon, requiring coordination in order to have concurrent regulations. Spring Chinook fisheries have been re-initiated in the Columbia River in times and areas that were previously not available, providing increased opportunities for both sport and commercial fisheries. Both fisheries have increased in time and fishing areas. Fishery management decisions must be conservative to ensure the ESA guidelines are not exceeded. There are many challenges in managing fisheries to achieve sharing objectives and remain within the ESA limits because of variations in fishing effort and catch per unit effort, run sizes and run timing, and weather and water conditions. Moreover, management is complicated by the inability to accurately update the in-season run size until late-April/mid-May after much of the prime fishing seasons have passed. Modifications to the preseason fishing schedules must often be made because of differences from the preseason expectations. Variations from preseason fishing plans can be very frustrating to the fishing communities.

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### **Policy issue(s) you are bringing to the Commission for consideration:**

With the advent of the first policy regarding spring Chinook allocation, the Washington and Oregon Commissions have adopted guiding principles and management objectives, which include conservation goals and objectives for fishery management. Also included in the policy is an allocation of the incidental non-Indian ESA impacts between sport and commercial fisheries. No mainstem fishery can proceed without some level of ESA impact allocated to it.

In an attempt to provide for meaningful discussion of sport/commercial fishery sharing of ESA impacts, a collaborative process was initiated in November of 2007. A stakeholder group of sport and commercial interests was convened by the two states to discuss issues surrounding spring Chinook allocation. The process concluded in the summer of 2008 without a recommendation.

Fish and Wildlife Commissions in Washington and Oregon have established a joint advisory group to develop recommendations on a variety of fishery-related issues facing the two states on the Columbia River. The first charge for the Columbia River Fish Working Group (CRFWG), established in September 2008, is to recommend a new plan for apportioning harvest opportunities for spring and summer Chinook salmon between sport and commercial fisheries in the lower river. The group will then consider a broader range of issues, including salmon recovery, selective fisheries, and hatchery reform.

Three Fish and Wildlife Commissioners from Washington and Oregon serve as voting members of the advisory group. Non-voting members include two fishery managers from each state and a total of 10 citizen representatives from communities on both sides of the Columbia River. Citizen representatives were chosen by their respective commissions for their breadth of experience with Columbia River fisheries. The CRFWG is expected to provide a recommendation for spring Chinook allocation at their meeting November 17, and this recommendation will be provided to the Commission at the December meeting.

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**Public involvement process used and what you learned:**

Staff members will meet with the Columbia River Recreational and Commercial Advisor Groups on these issues in December. The CRFWG process is open to the public.

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**Action requested:**

The Commission will accept public testimony on the proposed policy updates and may consider final adoption of an updated policy following public input.

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**Draft motion language:**

I move that the Commission adopt the following policy guidance relative to the mainstem Columbia River spring Chinook fishery:

1. The Policy C-3617 titled "Mainstem Columbia River Spring Chinook Allocation for Non-treaty Fisheries" effective January 1, 2009 through December 31, \_\_\_\_ (?) as presented by Department staff, with the inclusion of Attachment 1 titled "Fishery Management Plan".

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**Justification for Commission action:**

Provides direction to the Director for upriver spring Chinook allocation of incidental impacts in order for the Columbia River Compact to make decisions regarding recreational, commercial, and non-treaty Indian fisheries.

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**Communications Plan:**

A joint staff report will be distributed January 2009 that discusses spring Chinook stock status, review of fisheries and recommendations for future fisheries. A Compact meeting will be held in late January to adopt spring Chinook seasons for 2009. Results of the CRFWG have been posted on the agency Web site <http://wdfw.wa.gov/fish/regions/reg5/stakeholder/index.htm>. Please see November 2008 CRFWG Communications/Outreach Plan following.

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*Form revised 10/16/2008 - sdy*

# FISH AND WILDLIFE COMMISSION

## POLICY DECISION

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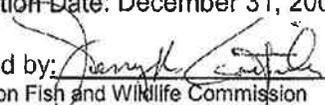
**POLICY TITLE: Mainstem Columbia River Spring Chinook Management and Allocation for Non-Indian Fisheries, 2008**      **POLICY NUMBER: C-3617**

Supersedes: C-3615

Effective Date: February 8, 2008

Termination Date: December 31, 2008

See Also: Amendment to Delegation of Authority  
and ATTACHMENT #1, adopted  
February 14, 2008.

Approved by:  , Chair  
Washington Fish and Wildlife Commission

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### Guiding Principles

- The Department serves as the trustee of this public resource and as such is responsible and accountable for sustainable fisheries.
- Conservation and recovery are the highest priorities and will take precedence in managing the resource.
- The Department will comply with the provisions of the U.S. v Oregon Management Agreement for upriver spring Chinook.
- Tradeoffs between current harvest benefits and long-term stock well-being will be resolved in favor of the long-term stock well-being.
- The Department must be consistent with prescribed recovery measures in National Marine Fisheries Service Biological Opinions, and safeguard the health and viability of all salmon stocks as a precondition for harvest.
- Manage harvest to meet hatchery goals.
- The Department must meet conservation requirements for wild spring Chinook and wild winter steelhead, including populations listed under the federal Endangered Species Act.
- The Department will manage harvest consistent with the applicable recovery management objectives.

### Selective Fishery and Enforcement Guidelines

- All fishers will comply with selective fisheries rules and standards.
- The Department will continue to make improvements in the selectivity of recreational and commercial fishery gear through research and feasibility studies.
- The Department will develop and implement a strategy for public communications and outreach on compliance issues.
- The Department will continue to pursue strategies to enhance enforcement efforts and successful prosecution through the use of observer programs, increased enforcement presence, and cooperative work with local prosecutors.
- The Commission expects recreational and commercial fishing sectors to demonstrate responsibility for continuous learning and skills development for selective harvest practices.

C-3617 – Adopted February 8, 2008; amended Feb. 14, 2008

### Stakeholders Visioning Process

- The Commission supports the Stakeholder Group process in 2008 to assist in development of policy recommendations for 2009 and beyond.
- The Commission recommends that the Stakeholder Group provide incentives for sectors that reduce release mortalities.
- The Commission recommends that the Stakeholder Group include stronger penalties for those fishers that have repeat violations of selective fishery rules.

### Fisheries Management Objectives

- The Department will manage the mainstem Columbia River spring Chinook fisheries to limit the wild winter steelhead impact to less than 2%.
- The Department will exercise in-season management flexibility to utilize the non-Indian upriver spring Chinook impact allocation to meet the objectives of both fisheries, i.e., upriver impact sharing adjustments in response to in-season information pertaining to catch and run size.
- Adjustments to the sport fishery may occur in-season if it is estimated the fishery will not continue through April. In-season adjustments may include such options as days/week and area closures.
- The Department will recognize the economic benefits of recreational and commercial fisheries in the Columbia River.
- The Department will provide for sport fisheries throughout the Columbia River downstream of McNary Dam, sport/tribal fisheries in the Snake River and upper Columbia River, and commercial and sport fisheries in select areas, as well as in the mainstem below Bonneville Dam.
- The Department will ensure broad geographic distribution of the sport fishing opportunity in the main-stem Columbia River.
- Harvestable Lower Columbia River spring Chinook should provide opportunity to areas below the Willamette River.
- Extend sportfishing opportunity as far into April as possible downstream of Bonneville Dam.
- Utilize days of the week as a management tool.

### Allocation of Upriver Spring Chinook Impacts

The Director shall manage Columbia River non-Indian spring Chinook fisheries that are covered by the allowable ESA upriver impact rate (currently 2%) based on the following allocation guidelines. The recreational fishery allocation should be 65% of the allowable impact rate with the remainder to the commercial fishery.

### Delegation of Authority

The Washington Fish and Wildlife Commission delegates the authority to the Director, through the Columbia River Compact process, to set seasons for sport and commercial fisheries in the Columbia River consistent with C-3617 Attachment #1, "2008 Management Measure Recommendations to the Columbia River Compact Process," and to adopt permanent and emergency regulations to implement these fisheries. The Director shall work with the Oregon Department of Fish and Wildlife to achieve implementation of this Commission action in a manner that results in concurrent regulations between the two states. The Director shall consult with the Commission if it becomes necessary to deviate from the Commission's Policy to achieve concurrent regulations with Oregon.

C-3617 – Adopted Feb. 8, 2008; amended Feb. 14, 2008

**C-3617  
ATTACHMENT #1**

**2008 Management Measure  
Recommendation to the Columbia River Compact Process**

**Fishery Management Objectives**

- The pre-season structure will be designed based on a 61% allocation of the ESA impacts to the sport fishery and 39% allocated to the commercial fishery.
- For the Lower Main-stem below the Willamette River, provide a 12 consecutive day recreational fishery in late March and early April, and a one fish bag limit as a buffer against management uncertainty.
- For the Upper Main-Stem above Willamette River, provide a March 16 – April 30 recreational fishery, six days per week (Wednesday through Monday), and a one fish bag limit as a buffer against management uncertainty.
- For the main-stem commercial fishery, restrict the fishery to the upper-river and establish a total catch objective of 6,800 fish. Prior to April 30, manage the commercial fishery to total catch of 5,200 fish as a buffer against management uncertainty.
- After April 30, additional fishing opportunity for the recreational and/or the commercial fishery will be based on a 61%-39% allocation of the available ESA impacts.

**Buffer**

- Reserve 10% of the allowable ESA impacts
  - 75% of the buffer will be reserved from the commercial fishery through managing the total catch to a level that is 76% of the total catch objective.
  - 25% of the buffer will be reserved from the sport fishery through the use a one fish bag limit.
- Half of the buffer may be used inseason for the sport fishery to meet the upper river's season management objective of April 30.
- Half of the buffer will be held as a precautionary measure until the inseason run size update is completed to ensure that our conservation objective is met.

**Catch Projections**

Upper River recreational Main-Stem

15,800 fish kept

Lower River

2,950 total kept catch. 2,250 upriver fish, 450 Willamette fish 250 Cowlitz, Kalama, Lewis fish

Commercial Fishery – Mainstem

Before Buffer: 6,800 upriver fish kept (@ 18.5% mortality)

With Buffer: 5,200 upriver fish kept (@ 18.5% mortality)

**FISH AND WILDLIFE COMMISSION  
PROPOSED POLICY**

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POLICY TITLE: **Mainstem Columbia River  
Spring Chinook Management and  
Allocation for Non-Indian Fisheries, 2009-?** POLICY NUMBER: C-3617

Supersedes: C-3617, 2008

Effective Date: January 1, 2009  
Termination Date: December 31, ?

See Also:

Approved by: \_\_\_\_\_  
Washington Fish and Wildlife Commission

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Discussion: This policy is similar to Policy C-3617, 2008 with changes associated with discussion of the Columbia River Fish Working Group (CRFWG). Attachment #1 from Policy C-3617 is replaced with recommendations from the CRFWG.

Policy:

Guiding Principles

- The Department serves as the trustee of this public resource and as such is responsible and accountable for sustainable fisheries.
- Conservation and recovery are the highest priorities and will take precedence in managing the resource.
- The Department will comply with the provisions of the *U.S. v Oregon* Management Agreement for upriver spring Chinook.
- Tradeoffs between current harvest benefits and long-term stock well-being will be resolved in favor of the long-term stock well-being.
- The Department must be consistent with prescribed recovery measures in National Marine Fisheries Service Biological Opinions, and safeguard the health and viability of all salmon stocks as a precondition for harvest.
- Manage harvest to meet hatchery goals.
- The Department must meet conservation requirements for wild spring Chinook and wild winter steelhead, including populations listed under the federal Endangered Species Act.
- The Department will manage harvest consistent with the applicable recovery management objectives.

Selective Fishery and Enforcement Guidelines

- All fishers will comply with selective fisheries rules and standards.
- The Department will continue to make improvements in the selectivity of recreational and commercial fishery gear through research and feasibility studies.
- The Department will develop and implement a strategy for public communications and outreach on compliance issues.
- The Department will continue to pursue strategies to enhance enforcement efforts and successful prosecution through the use of observer programs, increased enforcement presence, and cooperative work with local prosecutors.
- The Commission expects recreational and commercial fishing sectors to demonstrate responsibility for continuous learning and skills development for selective harvest practices.

### Columbia River Fish Working Group (CRFWG)

- The Commission supports the CRFWG Phase I process to develop short-term recommendations regarding sport/commercial allocation of spring and summer Chinook.
- The Commission supports the CRFWG Phase II process to develop long-term fishery management plans and strategies to assist in recovery of Columbia River salmon and steelhead resources.

### Fisheries Management Objectives

- The Department will manage the mainstem Columbia River spring Chinook fisheries to limit the wild winter steelhead impact to less than 2%.
- The Department will exercise in-season management flexibility to utilize the non-Indian upriver spring Chinook impact allocation to meet the objectives of both fisheries, i.e., upriver impact sharing adjustments in response to in-season information pertaining to catch and run size.
- The Department will recognize the economic benefits of recreational and commercial fisheries in the Columbia River and associated value of the early portions of the fisheries.
- The Department will provide for sport fisheries throughout the Columbia River downstream of McNary Dam, sport/tribal fisheries in the Snake River and upper Columbia River, and commercial and sport fisheries in select areas, as well as in the mainstem below Bonneville Dam.
- The Department will ensure broad geographic distribution of the sport fishing opportunity in the main-stem Columbia River.
- Harvestable Lower Columbia River spring Chinook should provide opportunity to areas below the Willamette River.
- Extend sport fishing opportunity as far into April as possible downstream of Bonneville Dam, with a high probability of an uninterrupted 45-day season beginning March 1.

### Delegation of Authority

The Washington Fish and Wildlife Commission delegates the authority to the Director, through the Columbia River Compact process, to set seasons for sport and commercial fisheries in the Columbia River consistent with Policy C-3617, and to adopt permanent and emergency regulations to implement these fisheries. The Director shall work with the Oregon Department of Fish and Wildlife to achieve implementation of this Commission action in a manner that results in concurrent regulations between the two states. The Director shall consult with the Commission if it becomes necessary to deviate from the Commission's Policy to achieve concurrent regulations with Oregon.

### Allocation of Upriver Spring Chinook Impacts and Fishery Management Plan Attachment 1 Recommendations of the CRFWG.

# Communications/Outreach Plan

## Columbia River Fish Working Group

November 2008

### Objectives:

- Inform fishers and other stakeholders about the role of the Columbia River Fish Working Group in developing policies for consideration by the Fish and Wildlife Commissions of Washington and Oregon.
- Generate support for the collaborative public process that guides the recommendations made by the Working Group.
- Promote public awareness of policy decisions reached by Washington and Oregon Fish and Wildlife Commissions on the recommendation of the Working Group.

### Audiences:

- Recreational fishers
- Commercial fishers
- General public
- Counties/Cities
- Columbia River tribes
- Local recovery boards
- Legislators
- RFEGs

### Messages:

The Working Group was established to facilitate collaborative decision-making between the states of Washington and Oregon, and among key stakeholders in both states.

Three Commissioners from each state serve as voting members of the group. Non-voting members include two members of each state's fish and wildlife department and six citizen advisors, selected from key stakeholder groups, e.g. fishers and local communities.

Phase I of the Working Group's charge is to make recommendations to the respective commissions for allocating the harvest of spring and summer Chinook salmon between recreational and commercial fisheries below Bonneville Dam by November 2008.

In Phase II its efforts, the Working Group will develop recommendations on a broader range of Columbia River issues, including salmon recovery, selective fisheries and hatchery reform.

## Communications:

- **News releases:** News releases will be distributed prior to each meeting of the Columbia River Fish Working Group advising the public of the time, place and focus of each meeting. Public Affairs will also work with members of the group to develop news releases on policy recommendations and other issues within the group's purview. For example, WDFW will issue a news release when the Working Group announces its allocation plan for spring chinook and when a plan is adopted by the Washington Fish and Wildlife Commission.
- **Website:** Public Affairs developed and launched a website for the Working Group in October 2008 that includes meeting notices, news releases and other information distributed during the Working Group sessions. Public Affairs continues to maintain that website and post new information as requested.
- **Briefing papers:** Public Affairs worked with the Fish Program to develop eight briefing papers for Work Group members on issues ranging from selective fishing strategies to the U.S. v. Oregon agreement. The briefing papers were distributed to the Working Group and posted on the website in September and October.
- **Brochure:** Public Affairs will develop a brochure for distribution to legislators and other interested parties explaining the mission of the Work Group and the issues it plans to address.

## Communication/outreach leads

- Policy: Guy Norman
- Communications: Public Affairs (Craig Bartlett)
- Outreach: Director's Office

## Evaluation:

- Feedback to Washington/Oregon Fish and Wildlife Commissions
- Feedback to WDFW/ODFW
- News media coverage

**Note:** This plan will be updated to reflect specific communications plans for Phase II of the Working Group's activities.

# Columbia River Sport and Commercial Spring Chinook Fisheries: Objectives and Strategies for Near- and Long-Term Management

Working Draft – Final  
11-25-08

## 1. Background:

- a. Specific state statutes and policies inform the management of spring Chinook fisheries.
  - i. It is the policy of the State of Oregon (506.109: “Food fish management policy”) that food fish shall be managed to provide the optimum economic, commercial, recreational, and aesthetic benefits for present and future generations of the citizens of this state. Toward that end, the policy defines as a goal “To permit an optimum and equitable utilization of available food fish.” It is also the policy of the state (496.012: “Wildlife policy”) that wildlife shall be managed to prevent serious depletion of any indigenous species and to provide the optimum recreational and aesthetic benefits for present and future generations of the citizens of this state.
  - ii. Washington wildlife, fish, and shellfish are the property of the state. The commission, director, and the department shall preserve, protect, perpetuate, and manage the wildlife and food fish, game fish, and shellfish in state waters and offshore waters. The department shall conserve the wildlife and food fish, game fish and shellfish resources in a manner that does not impair the resource. In a manner consistent with this goal, the department shall seek to maintain the economic well-being and stability of the fishing industry in the state. The department shall promote orderly fisheries and shall enhance and improve recreational and commercial fishing in this state (RCW 77.04.012).
- b. Recreational, commercial and tribal fisheries in the Columbia River are significantly constrained by conservation limits associated with the survival and recovery of wild fish listed under the Endangered Species Act (ESA). These limits are set by National Marine Fisheries Service (NMFS) to ensure fisheries do not jeopardize survival and contribute to recovery.
- c. Treaty Indian and non-Indian fishery allocation of available ESA impacts in the Columbia River are determined each year based on forecasted run size according to a sliding scale defined in the “2008-2017 *United States v. Oregon* Management Agreement.”
- d. In general, the available impact for non-tribal sport and commercial Columbia River fisheries is approximately 2% but may range from 0.5% to 2.7%. Fisheries are managed conservatively within these strict limits.
- e. State management of these fisheries, including technical methodology is reviewed and approved by NMFS to ensure consistency with ESA, and by other co-managers to ensure consistency with *U.S. v Oregon* agreements.
- f. This proposal represents the consensus recommendation of subcommittees from the Oregon and Washington Fish and Wildlife Commissions on the near-term and long-term management of the Columbia River spring Chinook fishery.

## 2. Problems:

- a. The primary constraint on sport and commercial mainstem spring Chinook fisheries is low numbers and survival of wild and hatchery fish caused by life-cycle mortalities including, but not limited to, the Columbia River hydropower system, habitat degradation, predation and hatchery practices. Reduced hatchery returns constrain fisheries directly; reduced ESA-listed fish returns constrain fisheries by severely limiting access to hatchery fish because of incidental impacts on ESA-listed fish.
- b. Pre-season forecasts of run size are uncertain and run timing is variable, making it difficult to confidently structure fisheries during March and April.
- c. Allocation of the approximate 2% listed-fish impact between sport and commercial fisheries is highly contentious and affects the structure of the fishery. Allocating ESA impacts without commonly endorsed fishery management objectives perpetuates controversy, and pits legitimate fishery interests against each other. This is because an allocation-based focus is a “zero-sum” debate; when one side gains, the other loses.
- d. Complexity of the fisheries and regulatory constraints complicate efforts to explain how management effectively meets fisheries objectives and conservation responsibilities.

## 3. Objectives and Priorities:

### a. Near Term (2009-2013)

#### i. Mainstem sport fisheries:

##### (a) Downstream from Bonneville Dam:

- Before the run-size update: A high likelihood that the fishery will remain open for at least 45 days in March and April.
- After the run-size update: If impacts remain, harvest opportunity through May.

##### (b) Upstream from Bonneville Dam: A high likelihood that the fisheries in the mainstem Columbia and Snake rivers will not be subject to emergency closures.

#### ii. Select Area commercial fishery: Harvest levels at least similar to those in recent years.

#### iii. Mainstem commercial fishery:

- Before the run-size update: Harvest opportunity in March and April.
- After the run-size update: If impacts remain, maximum harvest opportunity in May given available impacts and consistent with other fishery management objectives.

### b. Long Term (2014-2018)

- i. Mainstem sport fisheries: Certainty in when, where, and how long fisheries are open.
- ii. Select Area commercial fishery: Relatively stable harvest of approximately 12,000 or more spring Chinook per year in Select Areas (represents approximately the total Select Area and mainstem spring Chinook commercial fishery in the recent past).
- iii. Mainstem commercial fishery: Harvest opportunity in March and April and, if impacts remain, after the run-size update.

#### 4. Managing Uncertainty in Run Size Forecasts and Fisheries Performance

##### a. In general:

- i. To account for uncertainties in the information used to plan and implement fisheries, a management buffer in fishery structure will be established and applied to fisheries occurring prior to the run size update (primarily in March and April).
- ii. Fisheries managers will use the in-season run size update provided by the *U.S. v. Oregon* Technical Advisory Committee (TAC).
- iii. The buffer is intended to be sufficient to cover potential run-size forecasting error and ensure compliance with ESA requirements and *U.S. v. Oregon* allocation provisions.

- b. **Near Term:** The buffer will be approximately 35% of the allowable impacts and will be allocated as described below in Table 1. The share of the buffer allocated to the sport and commercial fisheries will vary as a function of the proportion of impacts assigned to each fishery. When the sport fishery share is  $> 65\%$ , each fishery's contribution to the buffer will be approximately 35% of its assigned impacts. When the sport fishery share is  $\leq 65\%$ , the sport fishery's contribution to the buffer will be approximately 25% of its assigned impacts, and the commercial fishery's share will be approximately 50% of its assigned impacts.

To minimize the likelihood of emergency closures of the sport fishery downstream from Bonneville Dam prior to the run-size update, up to 5% of the impacts assigned for use by the sport fishery, but held in reserve as the buffer, may be used to achieve the scheduled season.

- c. **Long Term:** The buffer may be less than that used in the near term as improvements are made to run size forecasting ability.

#### 5. Solutions:

##### a. Near Term:

- i. Sharing the available impacts among the sport and commercial fisheries: Total available impacts, as determined by the *U.S. v. Oregon* harvest schedule, will be shared as described in Table 1. The share assigned to each fishery will vary as a function of the run size of upper Columbia River and Willamette spring Chinook. The sharing formula represents the high priority placed on providing a high likelihood that the sport fishery downstream from Bonneville Dam will remain open for at least 45 days in March and April.
- ii. Sharing the impacts assigned to the mainstem sport fisheries: Seventy-five percent (75%) of the impacts allocated to the sport fisheries for use prior to the run-size update will be assigned to the sport fishery downstream from Bonneville Dam. Twenty-five percent (25%) will be assigned and reserved for the sport fishery upstream from Bonneville Dam. Providing a full sport fishery upstream from Bonneville Dam will be the highest sport fishery priority after the run-size update, however, if under certain forecasted run sizes, less than 25% of the impacts available

are needed to achieve this objective, the “surplus” can be used to provide additional sport or commercial fishing opportunity downstream from Bonneville Dam.

**Table 1.** Percent of total available impacts, as determined by the *U.S. v. Oregon* harvest schedule, assigned to sport and commercial fisheries at different run sizes for upper Columbia and Willamette spring Chinook. The base case represents range of run sizes that most frequently have occurred in the recent past.

| Run Size of Upriver Columbia Spring Chinook | Run Size of Willamette Spring Chinook                                   |   |
|---|---|---|
|   | Low (<50,000)   | High (>50,000)  |
| <b>Very Low (&lt;33,000)</b>                | Share = 85/15%  | Share = 75/25%  |
|   | Buffer = 35% of sport fishery impact + 35% of commercial fishery impact | Buffer = 35% of sport fishery impact + 35% of commercial fishery impact |
| <b>Low (33,000 – 55,000)</b>                | Share = 75/25%  | Share = 70/30%  |
|   | Buffer = 35% of sport fishery impact + 35% of commercial fishery impact | Buffer = 35% of sport fishery impact + 35% of commercial fishery impact |
| <b>Medium-High (55,000 – 271,000)</b>       | Share = 70/30%  | Share = <b>65/35% (base)</b>  |
|   | Buffer = 35% of sport fishery impact + 35% of commercial fishery impact | Buffer = 25% of sport fishery impact + 50% of commercial fishery impact |
| <b>Very High (&gt;271,000)</b>              | Share = 60/40%  | Share = 55/45%  |
|   | Buffer = 25% of sport fishery impact + 50% of commercial fishery impact | Buffer = 25% of sport fishery impact + 50% of commercial fishery impact |

- iii. Select Area commercial fishery: Commercial fisheries in the select areas will be allocated an impact level of 0.15% for use prior to the run size update. This will enable the fisheries to be managed similarly to recent years.
- iv. Sharing the impacts available after the run-size update (post-update): The impacts remaining after the run-size update will be allocated so that the sport/commercial share of the total available impacts is approximately equal to that defined in Table 1 for the updated run size of upper Columbia and Willamette spring Chinook. If the level of post-update impacts available to a fishery, based on Table 1, exceeds that necessary to meet its objectives, the balance will be reallocated to those fisheries that can use it.

Appendix Tables 1-3 estimate the performance of fisheries under the near-term management strategy described above. The Commissions will periodically review the performance of the near-term management plan with respect to achieving the fishery objectives in Section 3. The Commissions may consider modifications of the near-term plan prior to 2014 if they determine that its fishery objectives are not being met.

b. **Long Term:**

i. In general:

- (a) Continue leadership promoting improved life-cycle survival of spring Chinook, including improvements to the Columbia River hydropower system, habitat, predation management, and hatchery practices. Encourage *all* fish and fishing groups work together to promote these improvements.
- (b) Provide additional resources to ensure conservation effectiveness of spring Chinook fishery management, including enhanced monitoring, improved run size forecasting ability, and improved estimation of catch.
- (c) Amend the Willamette River Fishery Management Plan specifically to address reduced hatchery broodstock requirements based on fish health improvements.
- (d) Continue moving away from allocation-based fishery management to objective-based fishery management. This shift allows solutions that may improve *both* fisheries, rather than improving one fishery at the expense of another. This approach will require both sides to concede some ground on their stated positions in order to gain actual improvements in their fisheries. It will also require investment of additional resources in commercial fishery infrastructure and several years' patience to implement changes.
- (e) Maintain hatchery production and funding at levels that ensure viable commercial and sport fisheries. Ensure these fisheries have the capacity to harvest sufficient numbers of hatchery fish to meet hatchery reform provisions.
- (f) Ensure that funding is secured for implementation of programs necessary to meet long-term fishery management objectives.
- (g) Seek support and commitments from all fishery sectors regarding long-term fishery management plans.

ii. Mainstem sport fishery:

- (a) Stabilize fishing seasons. Provide fishing opportunity in April consistent with conservation and other management objectives.
- (b) Provide opportunity throughout the lower Columbia River.
- (c) Use sport advisory groups and surveys to consider tradeoffs and shape the fishery.
- (d) Utilize days per week and other fishery management tools to help meet objectives and priorities.
- (e) Base pre-season structure of the fishery on conservative assumptions (e.g., catch rates, effort) to minimize chance of not meeting objectives.
- (f) Continue to provide opportunities and resources to further develop selective sport fishing techniques with a goal of reducing mortality of listed fish and increasing access to hatchery fish.
- (g) Allocate some proportion of the buffer to the sport fishery

iii. Select Area commercial fishery:

- (a) Provide impacts necessary for Select Area commercial fisheries as top priority. Assume at least 10% of allowed non-tribal impacts will be required (minimum of 0.20% on average).
- (b) Increase number and priority of smolt releases in Select Areas (up to 1M smolts reprogrammed from other areas e.g. Willamette River);
- (c) Provide the infrastructure to support these additional fish (e.g., additional net pens, trucking costs, hatchery rearing space, and personnel);
- (d) Pursue opportunities to liberalize regulations of Select Area fisheries (e.g. expanding boundaries in late winter). This will require additional impacts allocated to Select Area fisheries.
- (e) Develop new select areas in Washington and Oregon with reciprocity. This will require additional impacts allocated to Select Area fisheries.
- (f) Utilize cost-effective area, timing and gear options to maximize harvest and minimize impacts, as necessary.

iv. Mainstem commercial fishery:

- (a) Incrementally reduce the impact allocated to the mainstem commercial fishery when run sizes are low and incrementally increase it as run sizes increase.
- (b) Continue to provide opportunities and resources to further develop selective commercial fishing techniques with a goal of reducing mortality of listed fish and increasing access to hatchery fish.
- (c) Define commercial fishery contribution to the buffer as follows:
  - Do not include Select Areas fisheries in the buffer.
  - Determine impacts for mainstem commercial fishery based on sliding scale pre-season forecast.
  - Allocate some proportion of the buffer to the mainstem commercial fishery

Appendix  
Recommendations for CHS Fishery Management  
Working Draft - Final (11-25-08)

**Hindcasts of the relative performance of sport and commercial spring Chinook fisheries in the Columbia River prior to the run-size update under the near-term fisheries management plan**

Table 1. Allowable impacts assigned to and estimated numbers of upriver spring Chinook harvested by sport and commercial fisheries before the run-size forecast is updated (pre-update) for run sizes forecast in 1999-2008, and for a hypothetical run-size forecast with a low Willamette return. Total allowable impacts equal those allowed under the U.S. v Oregon harvest rate schedule. The share of total allowable impacts assigned to sport and commercial fisheries was determined using a matrix based on run sizes of upriver Columbia and Willamette spring Chinook. For the period before the run-size forecast is updated, sport fisheries are managed not to exceed 65-75% of their total allowable impacts and commercial fisheries are managed not to exceed 50-65% of their total allowable impacts, depending on their share of those impacts. As a result, approximately thirty-five percent of the total impacts allowed under U.S. v. Oregon are held in reserve as a “buffer” until the run-size forecast is updated to account for uncertainty. An impact level of 0.15%, is assigned to select area fisheries. Sport fisheries include areas downstream and upstream of Bonneville Dam. Harvest estimates assume the mainstem commercial fishery uses tangle-net gear.

| Year   | 1999                 | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    | 2006   | 2007   | 2008    | Average (1999-2008) | Hypothetical w/ low Willamette run size |
|--|----------------------|---------|---------|---------|---------|---------|---------|--------|--------|---------|---------------------|---|
| <b>Forecasted run size</b>   | 24,600               | 134,000 | 364,600 | 333,700 | 145,400 | 360,700 | 254,100 | 88,400 | 78,500 | 269,300 | 225,411             | 300,000                                 |
| <b>Total allowable impact</b>  | 0.500%               | 1.700%  | 2.300%  | 2.300%  | 1.900%  | 2.300%  | 2.000%  | 1.600% | 1.500% | 2.000%  | 2.000%              | 2.200%                                  |
| <b>Sport/commercial fishery shares of total allowable impact</b>   | 75/25%               | 65/35%  | 55/45%  | 55/45%  | 65/35%  | 55/45%  | 65/35%  | 65/35% | 65/35% | 65/35%  | 65/35%              | 60/40%                                  |
| <b>Pre-update sport fishery impact (65-75% of its share of total allowable, depending on run size)</b>       | 0.175 <sup>a</sup> % | 0.829%  | 0.949%  | 0.949%  | 0.926%  | 0.949%  | 0.975%  | 0.780% | 0.731% | 0.975%  | 0.975%              | 0.990%                                  |
| <b>Pre-update commercial fisheries impact (50-65% of its share of total allowable depending on run size)</b> | 0.150%               | 0.298%  | 0.518%  | 0.518%  | 0.333%  | 0.518%  | 0.350%  | 0.280% | 0.263% | 0.350%  | 0.350%              | 0.440%                                  |
| <b>Pre-update commercial fisheries impact assigned to Select Area and winter sturgeon fisheries</b>          | 0.150%               | 0.150%  | 0.150%  | 0.150%  | 0.150%  | 0.150%  | 0.150%  | 0.150% | 0.150% | 0.150%  | 0.150%              | 0.150%                                  |
| <b>Pre-update commercial fisheries impact assigned to mainstem salmon fisheries</b>                          | 0.000%               | 0.148%  | 0.368%  | 0.368%  | 0.183%  | 0.368%  | 0.200%  | 0.130% | 0.113% | 0.200%  | 0.200%              | 0.290%                                  |
| <b>Pre-update sport fishery harvest of upriver fish (assuming 75% mark rate)</b>                             | 325                  | 8,329   | 25,944  | 23,745  | 10,101  | 25,666  | 18,581  | 5,171  | 4,305  | 19,693  | 16,483              | 22,275                                  |
| <b>Pre-update select area fishery harvest of upriver fish</b>  | 37                   | 201     | 547     | 501     | 218     | 541     | 381     | 133    | 118    | 404     | 338                 | 450                                     |
| <b>Pre-update mainstem commercial fishery harvest of upriver fish (assuming 75% mark rate)</b>               | 0                    | 1,008   | 6,836   | 6,257   | 1,354   | 6,763   | 2,593   | 586    | 451    | 2,748   | 2,300               | 4,439                                   |

<sup>a</sup> Under this very low forecasted run size, the 0.15% impact level assigned to commercial fisheries in the select areas is more than 25% of the available impact. This means the mainstem commercial fishery would not be assigned any pre-update impacts, and the sport fishery impact = (total allowable impact) x (0.65) - (0.15).

Appendix  
 Recommendations for CHS Fishery Management  
 Working Draft - Final (11-25-08)

**Hindcasts of the relative performance of sport and commercial spring Chinook fisheries in the Columbia River after the run-size update under the near-term fisheries management plan**

Table 2. Allowable impacts assigned to and estimated numbers of upriver spring Chinook harvested by sport and commercial fisheries after the run-size forecast is updated (post-update) for run sizes occurring in 1999-2008, and for a hypothetical run-size forecast with a low Willamette return. These impacts equal those allowed under the U.S. v Oregon harvest rate schedule for the final run size minus the impact used before the run size update adjusted for the difference between pre- and post-update run size. Available post-update impacts are shared between the sport and commercial fisheries so that the final percent of impacts used by each fishery approximates that in the matrix for the final upriver Columbia spring Chinook run size. None of the commercial share of the post-update impacts needs to be assigned to select area fisheries because their season is over. Sport fisheries include areas downstream and upstream of Bonneville Dam. Harvest estimates assume the mainstem commercial fishery uses large-mesh gear.

| Year   | 1999   | 2000    | 2001    | 2002    | 2003    | 2004 <sup>a</sup> | 2005 <sup>a</sup> | 2006    | 2007   | 2008 <sup>a</sup> | Average (1999-2008) | Hypothetical w/ low Willamette run size |
|--|--------|---------|---------|---------|---------|-------------------|-------------------|---------|--------|-------------------|---------------------|---|
| <b>Final run size</b>  | 38,700 | 178,600 | 416,500 | 295,100 | 208,900 | 193,400           | 106,900           | 132,100 | 86,200 | 178,700           | 199,600             | 300,000                                 |
| <b>Total allowable impact</b>  | 1.000% | 1.900%  | 2.500%  | 2.200%  | 1.900%  | 1.900%            | 1.600%            | 1.700%  | 1.600% | 1.900%            | 1.900%              | 2.200%                                  |
| <b>Sport/commercial fishery shares of total allowable impact</b>   | 70/30% | 65/35%  | 55/45%  | 55/45%  | 65/35%  | 65/35%            | 65/35%            | 65/35%  | 65/35% | 65/35%            | 65/35%              | 60/40%                                  |
| <b>Post-update allowable impact (total minus impact used before the run-size update, adjusted for difference in pre- and post-update run size)</b> | 0.793% | 1.055%  | 1.216%  | 0.542%  | 1.024%  | 0%                | 0%                | 0.991%  | 0.695% | 0%                | 0.404%              | 0.770%                                  |
| <b>Post-update sport fishery impact (adjusted so overall share approximates that in matrix)</b>  | 0.588% | 0.613%  | 0.544%  | 0.137%  | 0.590%  | 0%                | 0%                | 0.583%  | 0.374% | 0%                | 0.134%              | 0.330%                                  |
| <b>Post-update commercial fisheries impact (adjusted so overall share approximates that in matrix)</b>   | 0.205% | 0.442%  | 0.672%  | 0.405%  | 0.434%  | 0%                | 0%                | 0.408%  | 0.321% | 0%                | 0.270%              | 0.440%                                  |
| <b>Post-update sport fishery harvest of upriver fish (assuming 75% mark rate and sport fishery uses all its impacts)</b>                           | 1,707  | 8,214   | 17,008  | 3,035   | 9,249   | 0                 | 0                 | 5,776   | 2,418  | 0                 | 2,005               | 7,425                                   |
| <b>Post-update mainstem commercial fishery harvest of upriver fish (assuming 75% mark rate and commercial fishery uses all its impacts)</b>        | 149    | 1,479   | 5,248   | 2,240   | 1,698   | 0                 | 0                 | 1,010   | 519    | 0                 | 1,010               | 2,475                                   |

a: final run size and total allowable impact were less than forecasted and impacts used by the fisheries pre-update would have exceeded those allowed under the final run size. As a result, no impacts would be available for fisheries post-update.

Appendix  
Recommendations for CHS Fishery Management  
Working Draft - Final (11-25-08)

**Hindcasts of the relative performance of sport and commercial spring Chinook fisheries in the Columbia River overall under the near-term fisheries management plan**

Table 3. Summary of allowable impacts assigned to and estimated numbers of upriver spring Chinook harvested by sport and commercial fisheries for run sizes occurring in 1999-2008, and for a hypothetical run-size forecast with a low Willamette return. Assumes fisheries are able to use all the impacts assigned to them. Total allowable impacts equal those allowed under the U.S. v Oregon harvest rate schedule for the final run size. Sport fisheries include areas downstream and upstream of Bonneville Dam. Commercial fisheries include select areas.

| Year   | 1999   | 2000    | 2001    | 2002    | 2003    | 2004 <sup>a</sup> | 2005 <sup>a</sup> | 2006    | 2007   | 2008 <sup>a</sup> | Average (1999-2008) | Hypothetical w/ low Willamette run size |
|--|--------|---------|---------|---------|---------|-------------------|-------------------|---------|--------|-------------------|---------------------|---|
| <b>Forecasted run size</b>   | 24,600 | 134,000 | 364,600 | 333,700 | 145,400 | 360,700           | 254,100           | 88,400  | 78,500 | 269,300           | 225,411             | 300,000                                 |
| <b>Final run size</b>  | 38,700 | 178,600 | 416,500 | 295,100 | 208,900 | 193,400           | 106,900           | 132,100 | 86,200 | 178,700           | 199,600             | 300,000                                 |
| <b>Total allowable impact</b>  | 1.000% | 1.900%  | 2.500%  | 2.200%  | 1.900%  | 1.900%            | 1.600%            | 1.700%  | 1.600% | 1.900%            | 1.900%              | 2.200%                                  |
| <b>Total sport fishery harvest of upriver fish (assuming 75% mark rate and sport fishery uses all its impacts)</b>           | 2,032  | 16,543  | 42,952  | 26,780  | 19,349  | 25,666            | 18,581            | 10,948  | 6,724  | 19,693            | 18,488              | 29,700                                  |
| <b>Projected closing date for sport fishery downstream from Bonneville Dam pre-update (assumes open 7 days/ week)</b>        | 23-Mar | 8-Apr   | 15-Apr  | 15-Apr  | 9-Apr   | 29-Apr            | 14-May            | 6-Apr   | 8-Apr  | 23-Apr            | 15-Apr              | 16-Apr                                  |
| <b>Projected closing date for sport fishery downstream from Bonneville Dam pre-update (assumes open 3 days/ week)</b>        | 28-Mar | 16-Apr  | 2 May   | 7 May   | 16-Apr  | 14-May            | 14-May            | 12-Apr  | 16-Apr | 14-May            | 9-May               | 14-May                                  |
| <b>Total commercial fishery harvest of upriver fish (assuming 75% mark rate and commercial fishery uses all its impacts)</b> | 185    | 2,689   | 12,631  | 8,997   | 3,270   | 7,304             | 2,974             | 1,729   | 1,087  | 3,152             | 3,648               | 7,364                                   |
| <b>Total sport fisheries impact</b>  | 0.700% | 1.235%  | 1.375%  | 1.210%  | 1.235%  | 1.769%            | 2.318%            | 1.105%  | 1.040% | 1.469%            | 1.235%              | 1.320%                                  |
| <b>Total commercial fisheries impact</b>   | 0.300% | 0.665%  | 1.125%  | 0.990%  | 0.665%  | 0.965%            | 0.832%            | 0.595%  | 0.560% | 0.527%            | 0.665%              | 0.880%                                  |
| <b>Final sport fisheries share of allowable impacts</b>  | 70%    | 65%     | 55%     | 55%     | 65%     | 65%               | 74%               | 65%     | 65%    | 74%               | 65%                 | 60%                                     |
| <b>Final commercial fisheries share of allowable impacts</b>   | 30%    | 35%     | 45%     | 45%     | 35%     | 35%               | 26%               | 35%     | 35%    | 26%               | 35%                 | 40%                                     |

a: final run size and total allowable impact were less than forecasted. As a result, no fishing would have occurred post-update and total impacts used by sport and commercial fisheries would have exceeded those allowed. Sport/commercial shares of impacts used approximate that planned pre-update.