



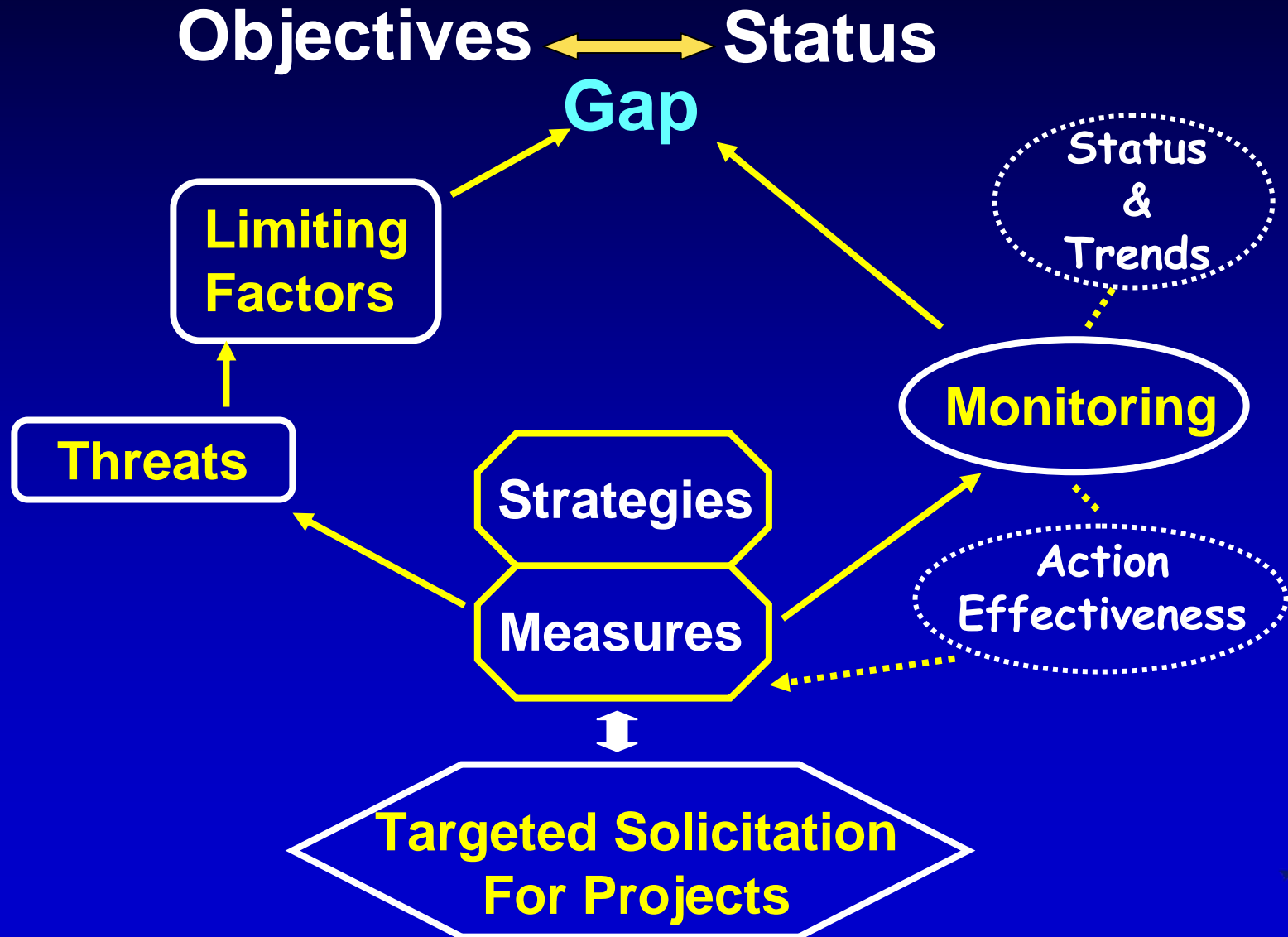
**COLUMBIA BASIN  
FISH AND WILDLIFE  
AUTHORITY**

## **Development of Fish and Wildlife Program Amendments**

**October 16, 2007**



# From Objectives to Solicitation



# Example:

## Walla Walla River Steelhead

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### Objectives:

- Minimum 1,000 adults (*TRT*)
- Population status = viable  
(*draft recovery plan*)
- 3,000 adults (**subbasin plan**)

### Status:

- Threatened – “Maintained”
- 374-2,417 adults (mean = 1,042)



# Example:

## Walla Walla River Steelhead

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### Limiting Factors

- **Habitat access**
  - mainstem dams; within subbasin barriers
- **Physical habitat quality/quantity**
  - lack of complexity, channel structure
- **Water quantity**
  - low summer flows
- **Water quality**
  - sediment, temperature
- **Population traits**
  - out-of-subbasin strays



# **Example:**

## **Walla Walla River Steelhead**

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### **Limiting Factor:**

**Habitat Access**

### **Threat:**

**Current land use practices**

- Road culverts**
- Lack of screens**

# Example:

## Walla Walla River Steelhead

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**Strategy:** —————→ **Limiting Factor**

- Restore passage and connectivity (**Mill Creek and Pine Creek**)

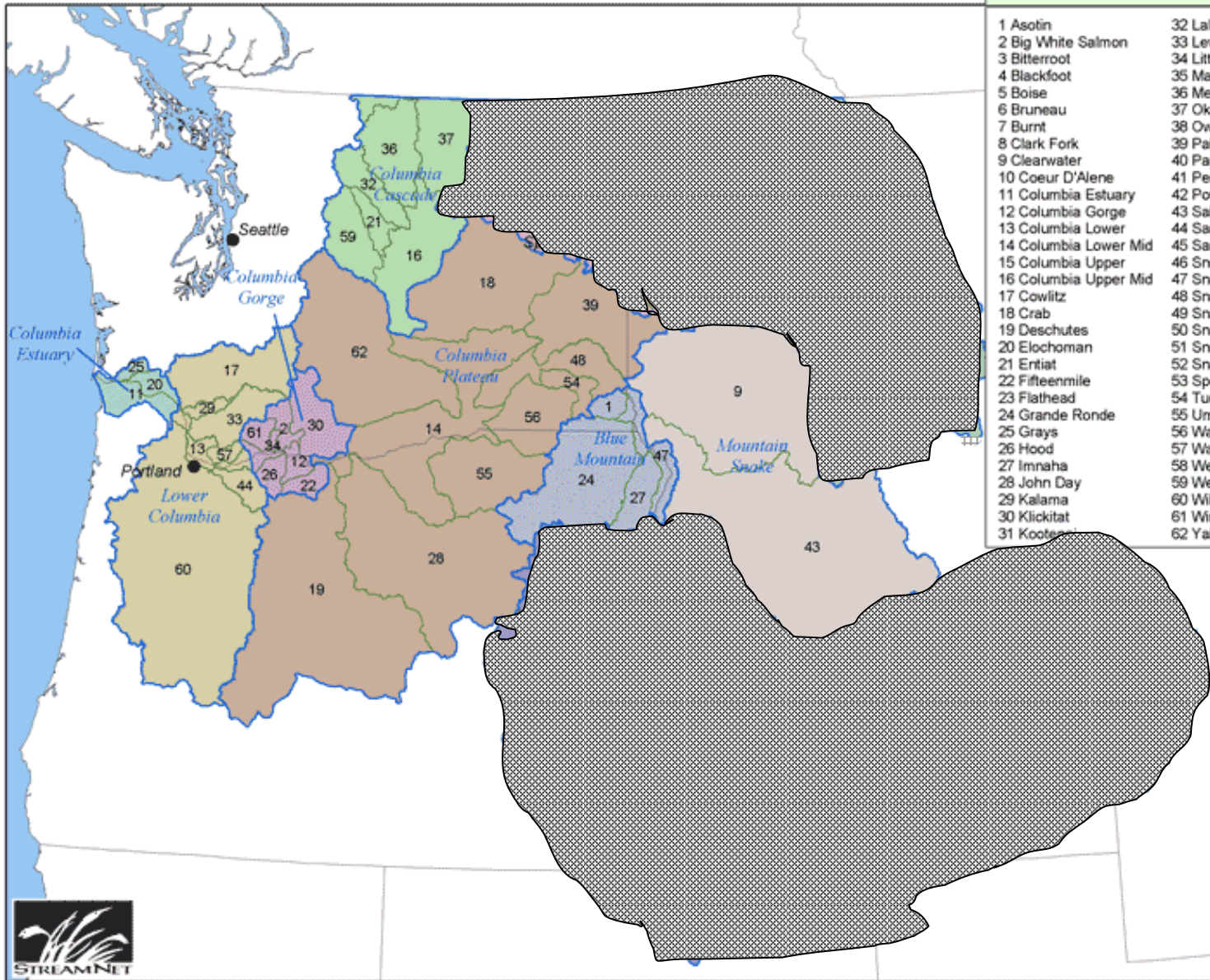
**Measures:** —————→ **Threats**

- Remove or replace culverts
- Provide adequate screening



# Columbia River Basin Subbasins

Print in landscape (sideways) orientation

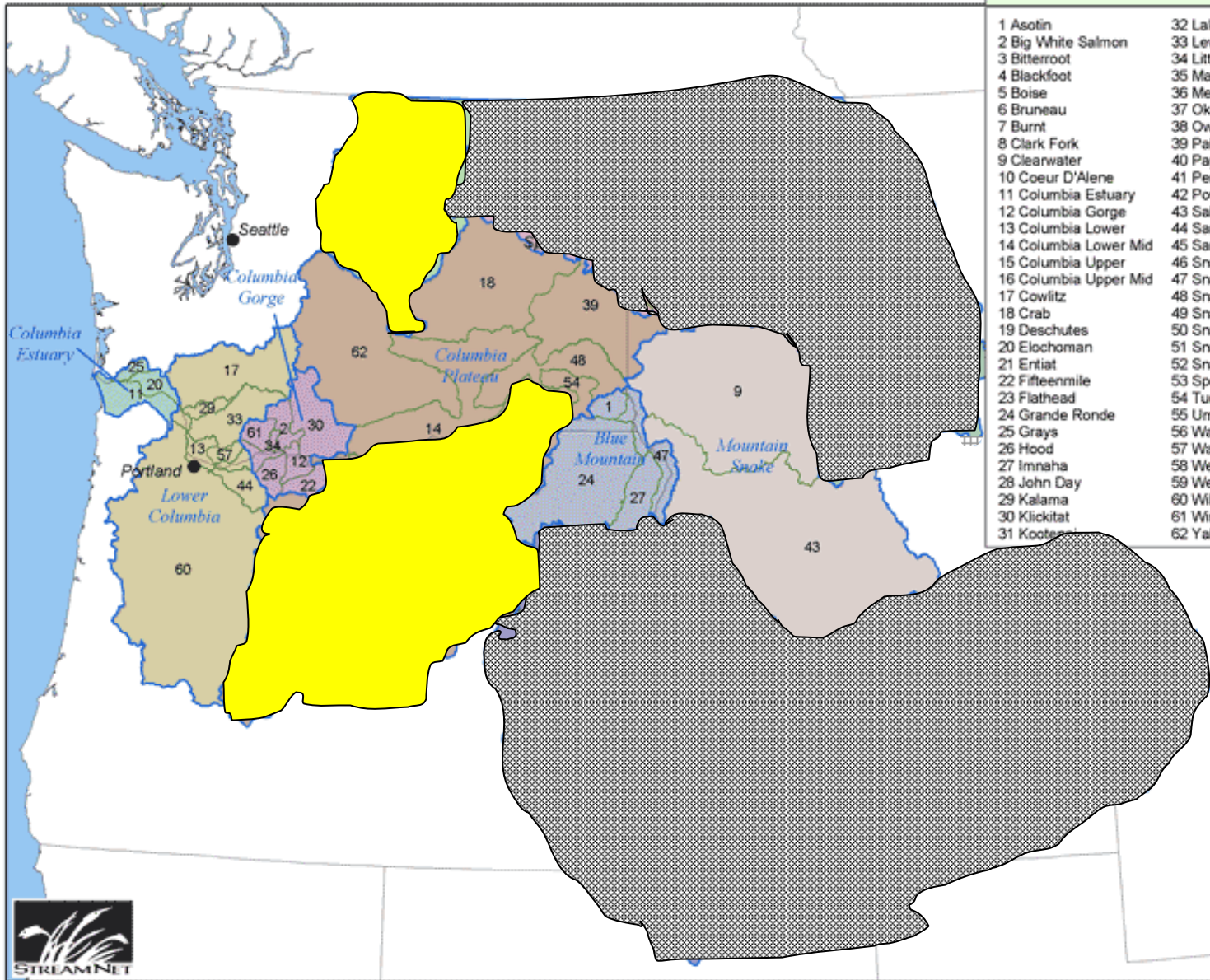


1 Asotin	32 Lake Chelan
2 Big White Salmon	33 Lewis
3 Bitterroot	34 Little White Salmon
4 Blackfoot	35 Malheur
5 Boise	36 Methow
6 Bruneau	37 Okanogan
7 Burnt	38 Owyhee
8 Clark Fork	39 Palouse
9 Clearwater	40 Payette
10 Coeur D'Alene	41 Pend Oreille
11 Columbia Estuary	42 Powder
12 Columbia Gorge	43 Salmon
13 Columbia Lower	44 Sandy
14 Columbia Lower Mid	45 Sanpoil
15 Columbia Upper	46 Snake Headwaters
16 Columbia Upper Mid	47 Snake Hells Canyon
17 Cowlitz	48 Snake Lower
18 Crab	49 Snake Lower Middle
19 Deschutes	50 Snake Upper
20 Elochoman	51 Snake Upper Closed
21 Ertiat	52 Snake Upper Middle
22 Fifteenmile	53 Spokane
23 Flathead	54 Tucannon
24 Grande Ronde	55 Umatilla
25 Grays	56 Walla Walla
26 Hood	57 Washougal
27 Imnaha	58 Weiser
28 John Day	59 Wenatchee
29 Kalama	60 Willamette
30 Klickitat	61 Wind
31 Kootenai	62 Yakima



# Columbia River Basin Subbasins

Print in landscape (sideways) orientation



- |                       |                        |
|-----------------------|------------------------|
| 1 Asotin              | 32 Lake Chelan         |
| 2 Big White Salmon    | 33 Lewis               |
| 3 Bitterroot          | 34 Little White Salmon |
| 4 Blackfoot           | 35 Malheur             |
| 5 Boise               | 36 Methow              |
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| 7 Burnt               | 38 Owyhee              |
| 8 Clark Fork          | 39 Palouse             |
| 9 Clearwater          | 40 Payette             |
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| 12 Columbia Gorge     | 43 Salmon              |
| 13 Columbia Lower     | 44 Sandy               |
| 14 Columbia Lower Mid | 45 Sanpoil             |
| 15 Columbia Upper     | 46 Snake Headwaters    |
| 16 Columbia Upper Mid | 47 Snake Hells Canyon  |
| 17 Cowlitz            | 48 Snake Lower         |
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| 27 Imnaha             | 58 Weiser              |
| 28 John Day           | 59 Wenatchee           |
| 29 Kalama             | 60 Willamette          |
| 30 Klickitat          | 61 Wind                |
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# CBFWA To Do:

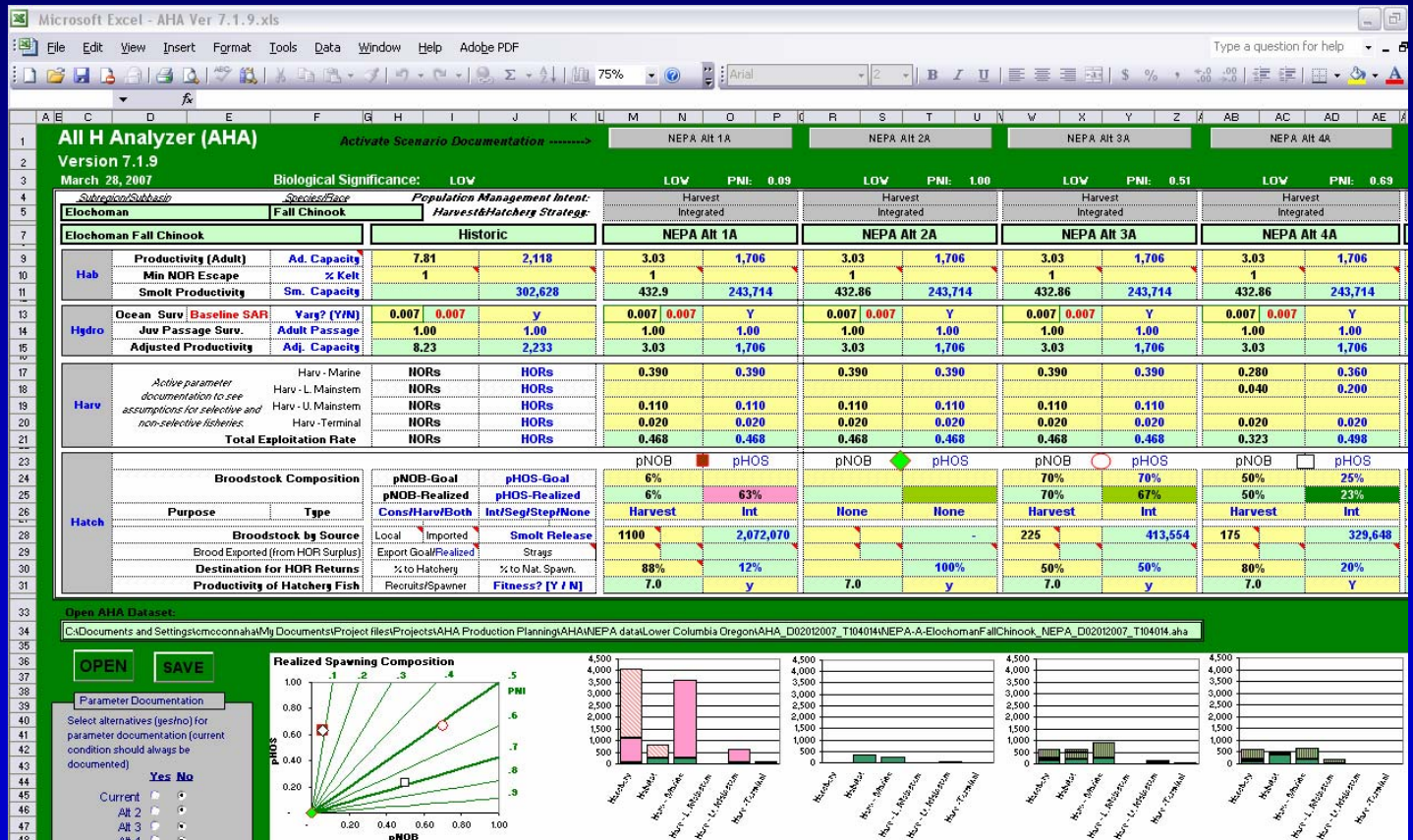
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- **Complete templates for all anadromous populations**
  - Provides justification for measures
  - Does not indicate the relative importance of measures
  - Does not indicate magnitude of the FCRPS obligation



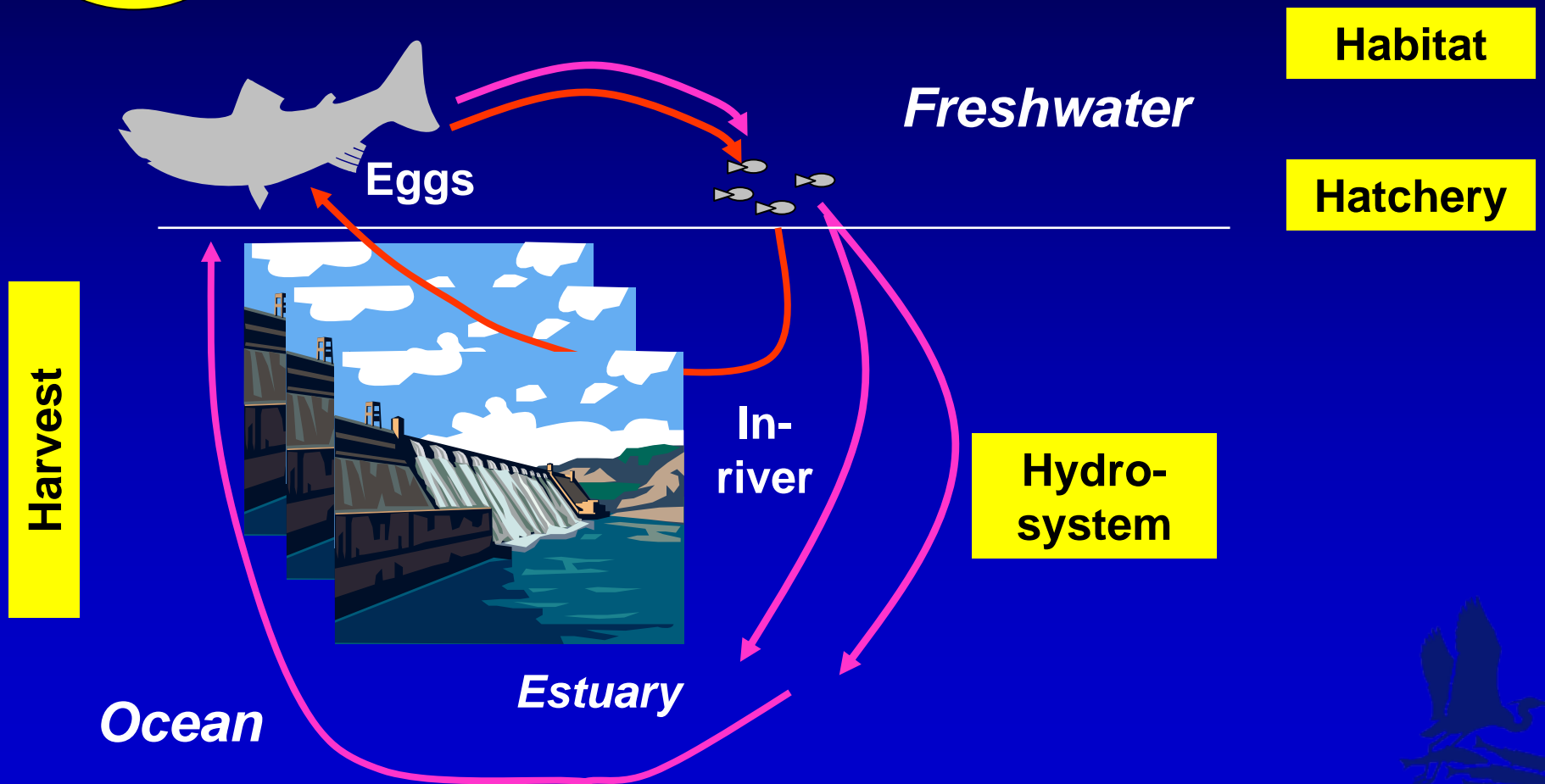
# CBFWA To Do:

- Prioritize suites of measures
- Estimate the FCRPS obligation



# Prioritize Suites of Measures

**AHA** – Life cycle accounting tool



# **CBFWA Plan**

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- **Transparent**
- **Reproducible**
- **Alternative scenarios**
- **Best science used to build base**

# Objectives

Not Listed

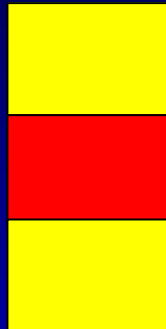
## Steelhead

### Population

Walla Walla

Touchet

Umatilla



### Subbasin (MPG)

Umatilla/  
Walla Walla



### Province/ESU:

Columbia Plateau/Mid  
Columbia



### MPGs:

Yakima

Walla Walla/Umatilla

John Day

Deschutes

Klickitat

