

## **Limiting Factor Report**

This report contains a list of limiting factors by watershed (HUC5) as generated during multiple processes. These factors have been described as impediments to fish productivity or abundance that occur in the tributary habitat of the species. They pertain to salmon, generally Chinook or Steelhead, that spawn, rear, or migrate through these watersheds. We provide these lists here for Tribal PCSRF project solicitors so that they may use them as needed for project selection and design, and also for documentation of how projects will meet the objectives to remedy limiting factors in their areas. Because limiting factor definitions were not standardized between these different sources, they are provided here as separate lists.

Up to three sources of limiting factors are provided here, although not all basins were assessed for each process:

1) Subbasin Planning: Limiting Factors were identified at CRITFC as they were documented in the 2001/2002 Subbasin Plans. Generally, this information was generated for Ecosystems Diagnosis & Treatment (EDT) or Qualitative Habitat and Analysis (QHA) modeling of subbasin processes, but in many cases the Subbasin Planners edited these lists for publication in the Subbasin Plans according to their knowledge.

2) Tribal Remand Process: During the Tribal response and habitat action proposal process of the BiOp Remand, Tribal biologists identified limiting factors by watershed that affect Chinook and Steelhead habitat. These limiting factors were used to assess the potential benefit for survival improvement if habitat actions occur. These lists of limiting factors are provided here.

3) NOAA Technical Recovery Team: We have been assured that NOAA will generate a standardized set of limited factors for use, probably during the Fall of 2007. When these lists are made available, we will add them here.

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## Limiting Factors identified during Subbasin Planning by Watershed

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### HUC4: Lower Grande ( 17060106 ) Ronde

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#### Watershed Grande Ronde ( 1706010601 ) (HUC5): River- Grossman Creek

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**Limiting Factor:**

Flow  
Habitat Diversity  
Key Habitat Quantity  
Sediment Load  
Water Temperature

#### Watershed Grande Ronde ( 1706010602 ) (HUC5): River-Mud Creek

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**Limiting Factor:**

Habitat Diversity  
Key Habitat Quantity  
Sediment Load

#### Watershed Wenaha River ( 1706010603 ) (HUC5):

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**Limiting Factor:**

Habitat Diversity  
Key Habitat Quantity  
Sediment Load

#### Watershed Chesnimnus ( 1706010604 ) (HUC5): Creek

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**Limiting Factor:**

Key Habitat Quantity  
Sediment Load  
Water Temperature

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## Limiting Factors identified during Subbasin Planning by Watershed

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**Watershed Upper Joseph ( 1706010605 )**  
**(HUC5): Creek**

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**Limiting Factor:**

Key Habitat Quantity  
Sediment Load  
Water Temperature

**Watershed Lower Joseph ( 1706010606 )**  
**(HUC5): Creek**

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**Limiting Factor:**

Key Habitat Quantity  
Sediment Load  
Water Temperature

**Watershed Lower Grande ( 1706010607 )**  
**(HUC5): Ronde River**

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**Limiting Factor:**

Habitat Diversity  
Key Habitat Quantity  
Sediment Load  
Water Temperature

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## Limiting Factors identified by Tribes during Remand by Watershed

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### HUC4: Lower Grande ( 17060106 ) Ronde

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#### Watershed Grande Ronde ( 1706010601 ) (HUC5): River- Grossman Creek

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**Limiting Factor:**

Noxious Weed Invasions

Lack of passage - Lack of access to

Nutrient inputs - excess nutrients fr

Sediment effects on rearing and spa

Temperature effects on rearing and

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#### Watershed Grande Ronde ( 1706010602 ) (HUC5): River-Mud Creek

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**Limiting Factor:**

Lack of passage - Lack of access to

Noxious Weed Invasions

Nutrient inputs - excess nutrients fr

Sediment effects on rearing and spa

Temperature effects on rearing and

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#### Watershed Wenaha River ( 1706010603 ) (HUC5):

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**Limiting Factor:**

Lack of passage - Lack of access to

Sediment effects on rearing and spa

Temperature effects on rearing and

Noxious Weed Invasions

Nutrient inputs - excess nutrients fr

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#### Watershed Chesnimnus ( 1706010604 ) (HUC5): Creek

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**Limiting Factor:**

Noxious Weed Invasions

Nutrient inputs - excess nutrients fr

Sediment effects on rearing and spa

Temperature effects on rearing and

Lack of passage - Lack of access to

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## Limiting Factors identified by Tribes during Remand by Watershed

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**Watershed Upper Joseph ( 1706010605 )**  
**(HUC5): Creek**

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**Limiting Factor:**

Temperature effects on rearing and  
Nutrient inputs - excess nutrients fr  
Sediment effects on rearing and spa  
Noxious Weed Invasions  
Lack of passage - Lack of access to

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**Watershed Lower Joseph ( 1706010606 )**  
**(HUC5): Creek**

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**Limiting Factor:**

Temperature effects on rearing and  
Lack of passage - Lack of access to  
Noxious Weed Invasions  
Nutrient inputs - excess nutrients fr  
Sediment effects on rearing and spa

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**Watershed Lower Grande ( 1706010607 )**  
**(HUC5): Ronde River**

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**Limiting Factor:**

Temperature effects on rearing and  
Noxious Weed Invasions  
Lack of passage - Lack of access to  
Nutrient inputs - excess nutrients fr  
Sediment effects on rearing and spa

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