

Oregon Water Resources Department Scenic Waterway Flow Framework



Photo credit: OPRD

Oregon Water Resources
Department

- **Water Availability Program**
 - Role in Scenic Waterway process
- **Allocation process**
 - How Scenic Waterway affects future of allocated water
- **Scenic Waterway flow determination**
 - Recommendation



Water Resources Department (WRD) Scenic Waterways

Addresses Integrated Water Resources Strategy Recommended Action #11.B:

“Develop Additional Instream Protections”



Water Resources Department (WRD) Vision and Mission

- **Ensure sufficient and sustainable water supplies to meet *current* and *future* needs**
- **Restore and protect streamflows and watersheds**
- **Need to quantify water resources statewide**

Water Availability Program

- **Statewide data-driven / statistical approach**
- **Surface water accounting equation:**
Natural streamflow – Expected demands = Water Available to Allocate
- **Expected demands**
 - Storage
 - Consumptive uses
 - Instream demands
 - Scenic waterways accounted for as instream demands

Understanding Impacts of Scenic Waterways on Water Rights

Scenic waterways DO/ARE:



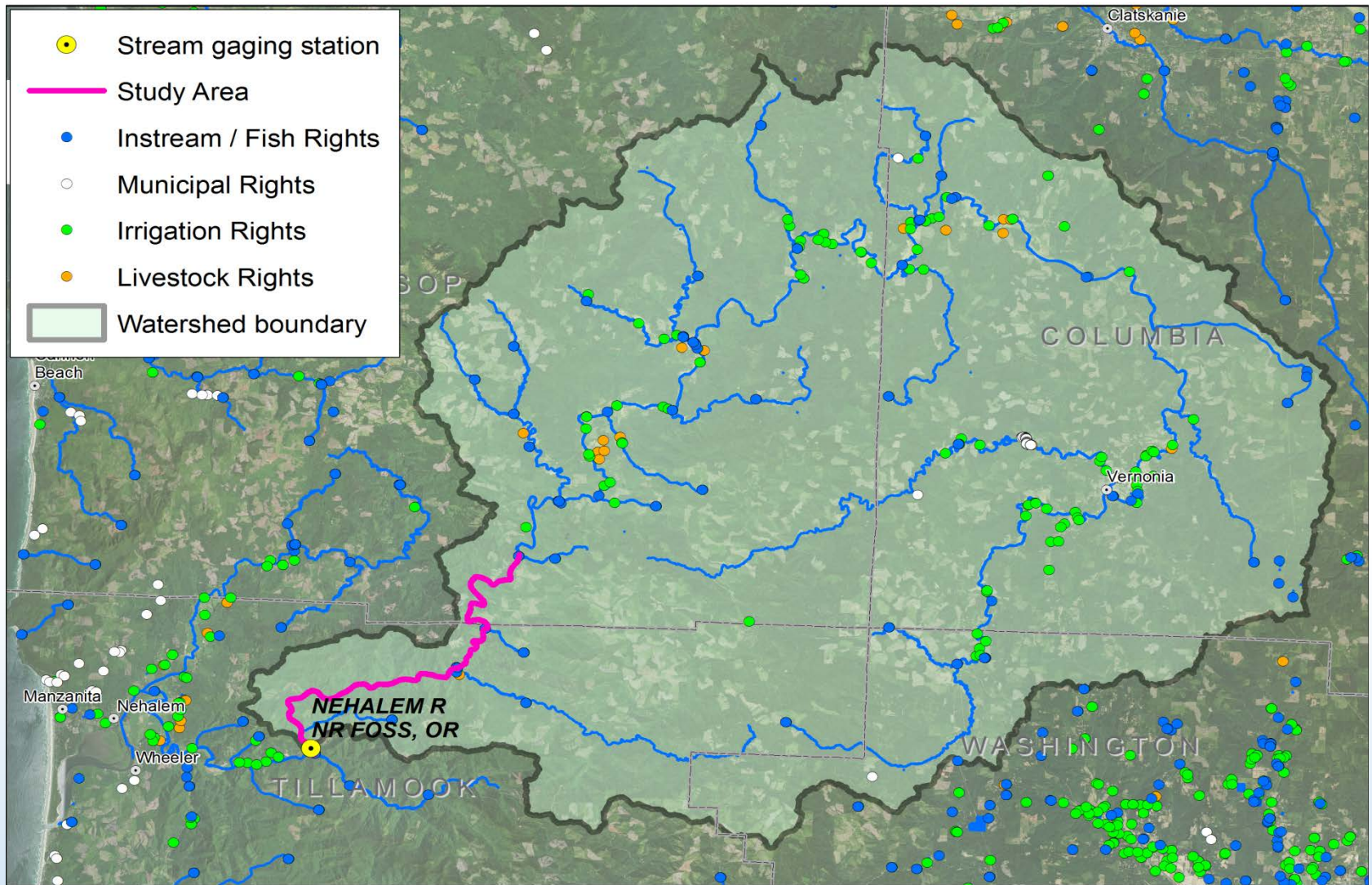
- Protect water instream through WRD's allocation system
- Limit **future** diversions **within** and **upstream** of the scenic waterway
 - Including groundwater

Scenic waterways DO/ARE NOT:



- Affect **existing** uses anywhere in the watershed
- Affect **future** uses **downstream** of the waterway
- Water rights, nor are enforced as water rights

Nehalem River Study Area and Water Rights



OWRD Surface Water (jpb), 5/21/2018, Projection: Oregon Lambert NAD83
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Methodology for Quantifying Flows

- **Goal: protect and enhance values, and limit new allocations and development within scenic waterway**
 - Not intended to restore to pristine condition
 - Program applies to all **NEW** developments only
- **Methodology considers:**
 - OWRD's Water Availability Reporting System
 - Recreation, fish, and wildlife needs
- **Basic premise:** vary flow protection throughout year to protect highest and best use of water

Recommending Flow Protection

- **Fully protecting summertime flows**
 - Protects flows needed for recreation and critical period for fish survival
- **Increased protection for shoulder months (September-October/April-May)**
 - Maintains flows important for ecosystem function
- **Protect 85% of flows during winter months (December – March)**
 - Fish habitat can withstand 15% reduction in flow (Locke and Paul, 2011)



Water Availability Analysis

NEHALEM R > NEHALEM BAY - AB COOK CR AT GAGE 14301000
NORTH COAST BASIN

Water Availability as of 6/12/2018

Watershed ID #: 30120203 ([Map](#))

Exceedance Level:

Date: 6/12/2018

Time: 5:48 PM

Water Availability

Limiting Watersheds

Complete Water Availability Analysis

Water Availability

Select any Watershed for Details

	Nesting Order	Watershed ID #	Stream Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sto
Select	1	36	NEHALEM R> NEHALEM BAY- AT MOUTH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Select	2	30120203	NEHALEM R> NEHALEM BAY- AB COOK CR AT GAGE 14301000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes

Download Data ([Text - Formatted](#), [Text - Tab Delimited](#), [Excel](#))



Water Availability Analysis

NEHALEM R > NEHALEM BAY - AB COOK CR AT GAGE 14301000
NORTH COAST BASIN

Water Availability as of 6/12/2018

Watershed ID #: 30120203 ([Map](#))

Exceedance Level:

Date: 6/12/2018

Time: 5:52 PM

Water Availability

Limiting Watersheds

Complete Water Availability Analysis

Water Availability

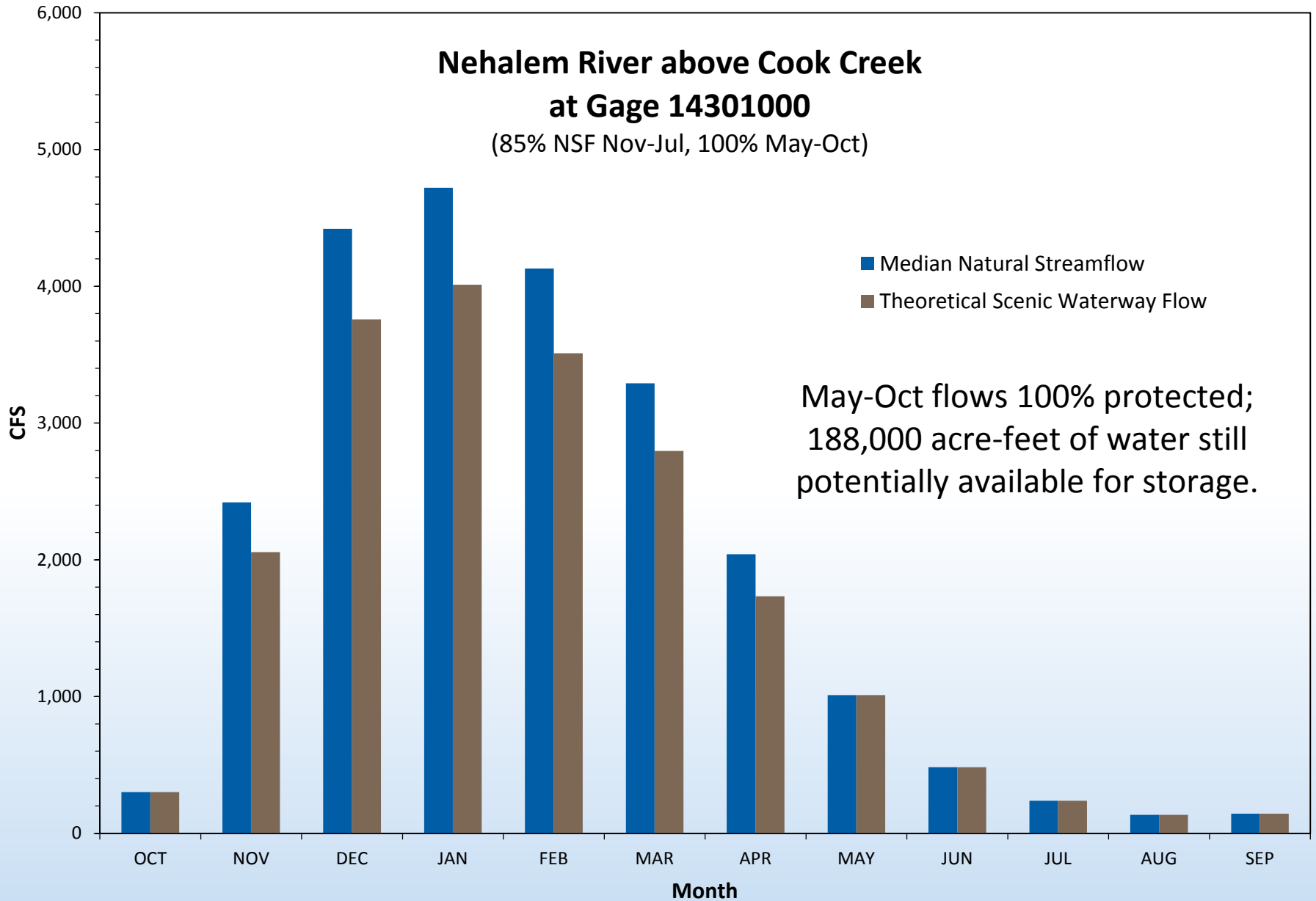
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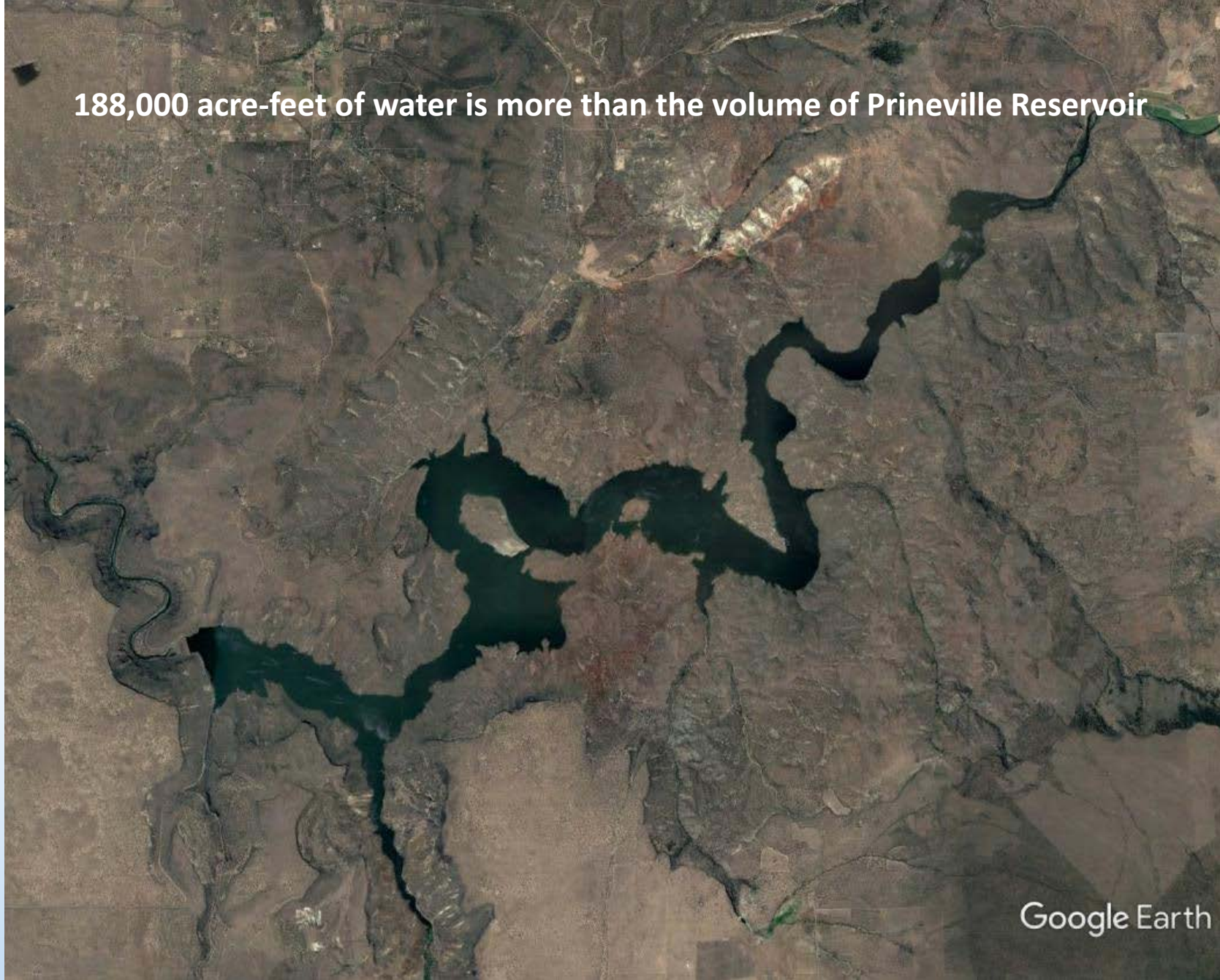
Download Data ([Text - Formatted](#), [Text - Tab Delimited](#), [Excel](#))

Nehalem River above Cook Creek at Gage 14301000

(85% NSF Nov-Jul, 100% May-Oct)



188,000 acre-feet of water is more than the volume of Prineville Reservoir



Public Input for Flow Recommendation

- Provide suggestions for:
 - Management classification
 - Flow protection
- Community members can weigh flow protection with plans for future water allocation



Photo credit: OPRD

Questions?



Photo credit: OPRD