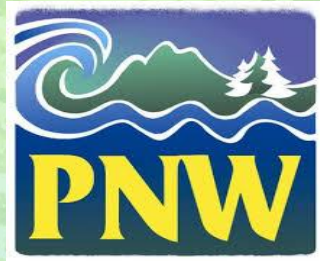




# **Knowles Creek Research Review**

Patrick Bruce, OSU

# Involvement/Needs and Interests



- Christine Hirsch, Siuslaw National Forest
- Paul Burns, Siuslaw National Forest
- Liz Vollmer-Buhl, Siuslaw Watershed Council
- Rebecca Flitcroft, Pacific Northwest Research Station
- Kate Field, OSU



# How This Collaboration Works





# Knowles Creek





# What is the effect of in-stream restoration on fish habitat and communities throughout the Knowles Creek watershed?



Source: USFS



# Are restoration projects a skeleton that natural disturbances can flesh out?

- Sediment and wood: building blocks for habitat structure

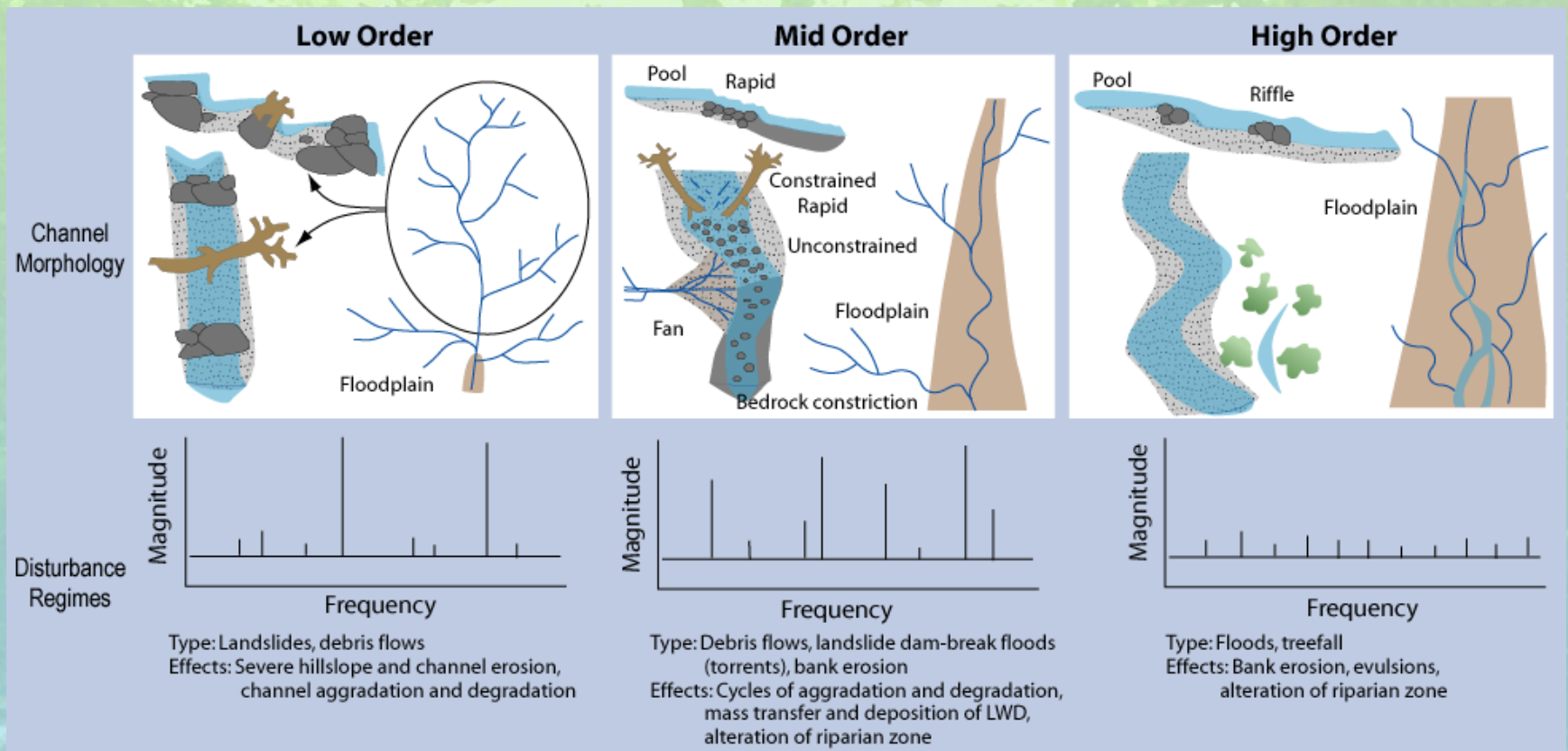




# What sorts of disturbances are important?



# Why is this research important?





# The Approach



- Existing Data Assembly
  - a) Consolidating Datasets
  - b) Putting Data Into a GIS
- Additional Fieldwork



# Datasets



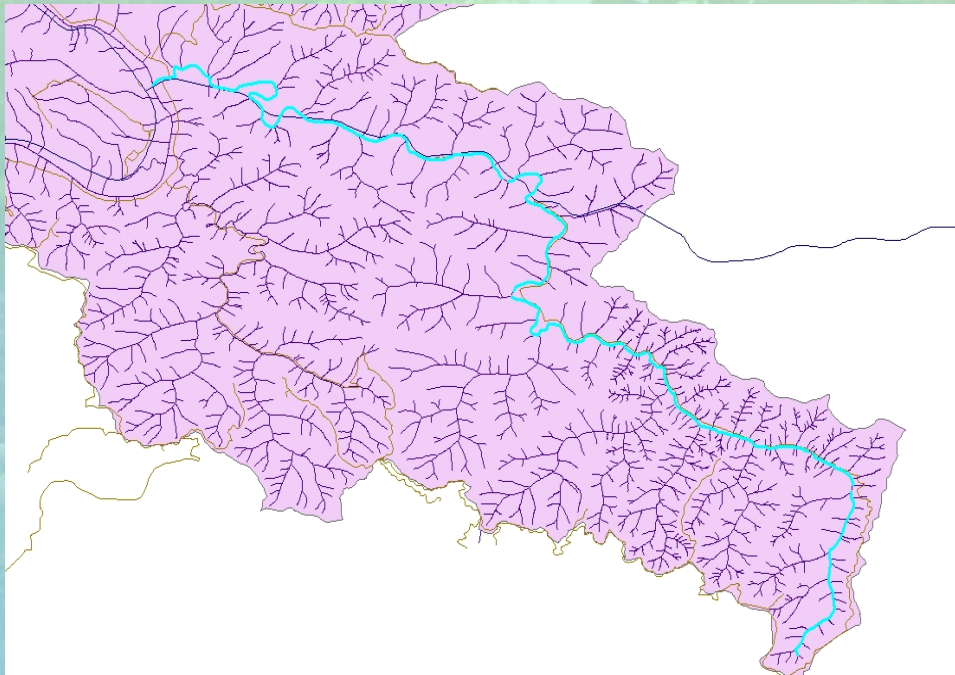
- Forest Service Monitoring
- Watershed Council Monitoring
- Digital Conversion



# GIS



- Conversion
- Create Framework From Surveyed Reaches
- Restoration Site Locations





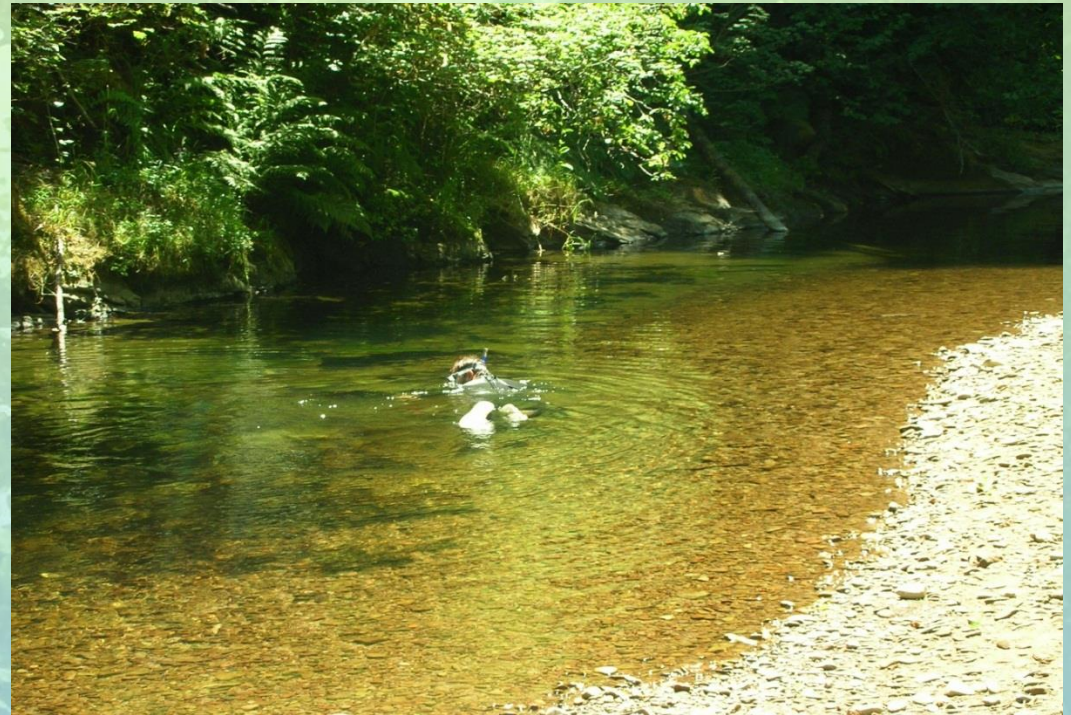
# Smolt Trap



- Knowles Community Collaboration



# Summer Snorkel Surveys



- Abundance and Distribution



# Mapping Restoration Site Locations





# Compilation/Planned Analysis

- Bringing the datasets together





# Where to go from here





# Take Home Message

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## **COLLABORATION:**

Two or more people working together towards shared goals

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# Acknowledgements

- Rebecca Flitcroft
- Loretta Ellenburg
- Kathryn Ronnenberg
- Jean-Paul Zagarola
- Christine Hirsch
- Paul Burns
- Liz Vollmer-Buhl
- Ginger Cloutier



# Thank You

