#### Nitrogen balance and use efficiency in the Calapooia River Watershed, Oregon, United States SHINGTON DAKOTA MONTANA DAKOTA Jiajia Lin (US National Research Council-Environmental Protection Agency) Jana Compton (US Environmental Protection Agency) George Mueller-Warrant (US Department of Agriculture) NEBRASKA William Matthews (Oregon Department of Agriculture) United States Scott Leibowitz (US Environmental Protection Agency) KANSAS San Francisco Oregon Las Vegas OKLAHO Department **United States** of Agriculture **Department of Apriculture** Dall

## INTRODUCTION

# The Calapooia River Watershed (CRW)

## Purpose of the study

 Examine the impacts of natural processes and land uses on the N use efficiency at the local scale

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- Impact on decision-making
- Application on future studies/different scale

### Input vs output (use efficiency, N retention)

- Input: seven N sources
  Ag-fertilizer, deposition, alder-BNF, ag-BNF,
  CAFO manure, non-ag-fertilizer, non-sewered
- Output

Riverine export (N load) Crop harvest removal





**MORE RESULTS (poster #3)** 

- Seasonal pattern of input and export
- Influence of runoff, and management on N export

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