

# Deschutes Ground Water Mitigation Program 2016 Annual Review

## 14<sup>th</sup> Annual Review

**Dwight French**

*Water Right Services Division Administrator*

**Lisa Jaramillo**

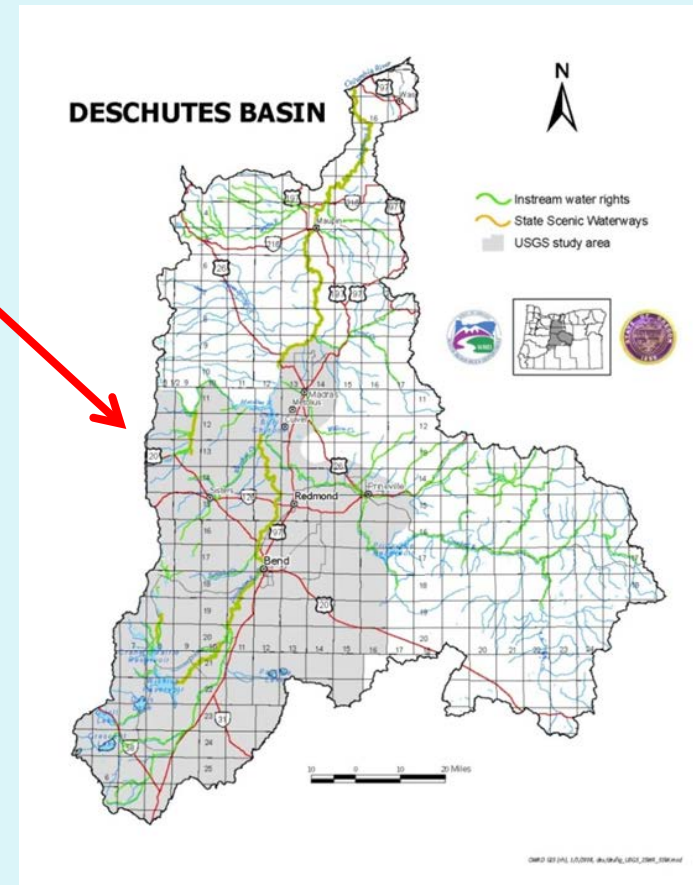
*Transfer and Conservation Section Manager*

**Sarah Henderson**

*Acting Flow Restoration Program Coordinator*

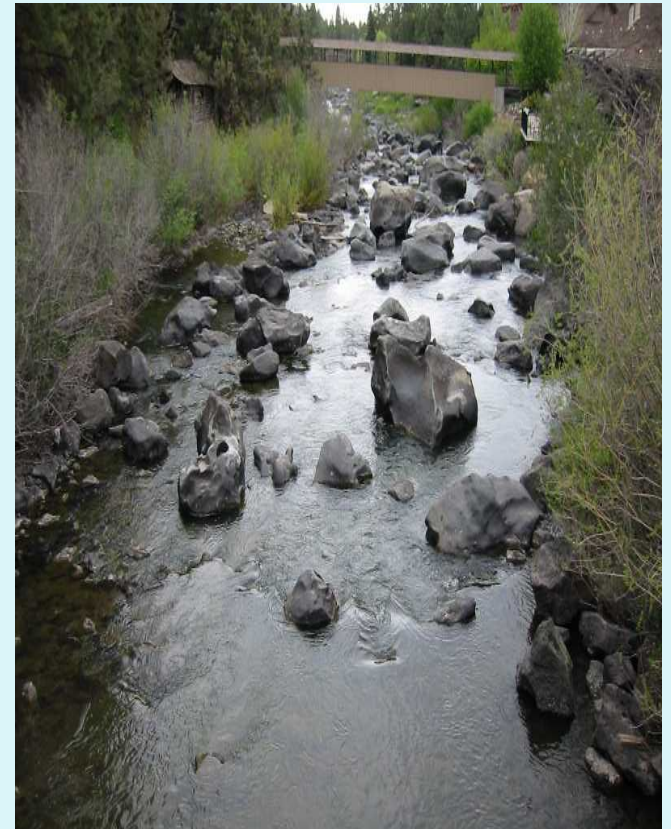
# History and Background

- Deschutes Basin Ground Water Study
- Direct hydrologic connection
- Scenic Waterway (SWW) flows
- No surface water available
- Mitigation Program developed



# Mitigation Program Goals

- **Maintain SWW flows + water rights, including instream rights**
- **Facilitate restoration in the middle Deschutes River**
- **Sustain existing uses and accommodate growth**



Deschutes River below Bend  
at approx. 40 CFS in 2002



# **Elements of Mitigation Program**

- 1. New ground water permits require mitigation**
- 2. Identifies tools for providing mitigation**
- 3. Establishes a system of mitigation credits**
- 4. 200 cubic feet per second (CFS) allocation cap**
- 5. Provides for establishment of mitigation banks**
- 6. Requires annual and 5-year evaluations**



# **2016 Annual Evaluation**

- 1. Cooperation with other state agencies**
- 2. Implementation of the rules**
- 3. Ground water appropriations**
- 4. Streamflow monitoring and evaluation**
- 5. Mitigation Bank review**

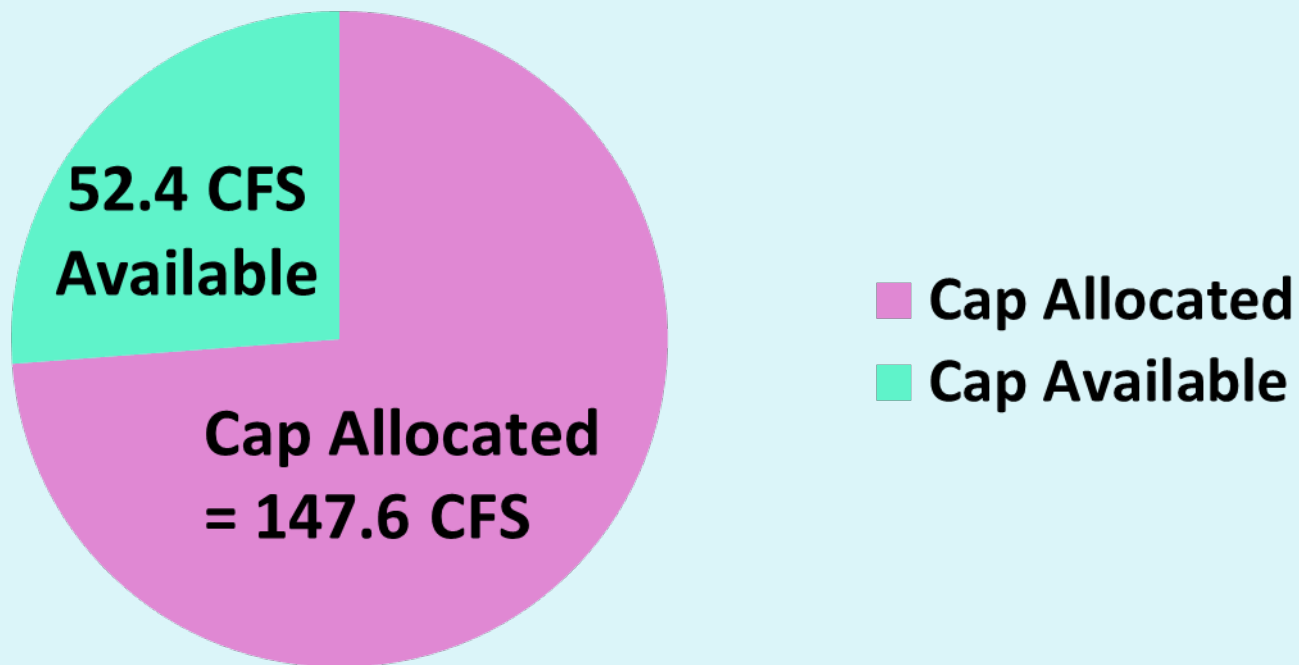


# Program Highlights

- **112 Active permits and certificates**
- **147.6 CFS allocated under cap**
- **Instream flows largely remain unchanged – according to our accounting system**



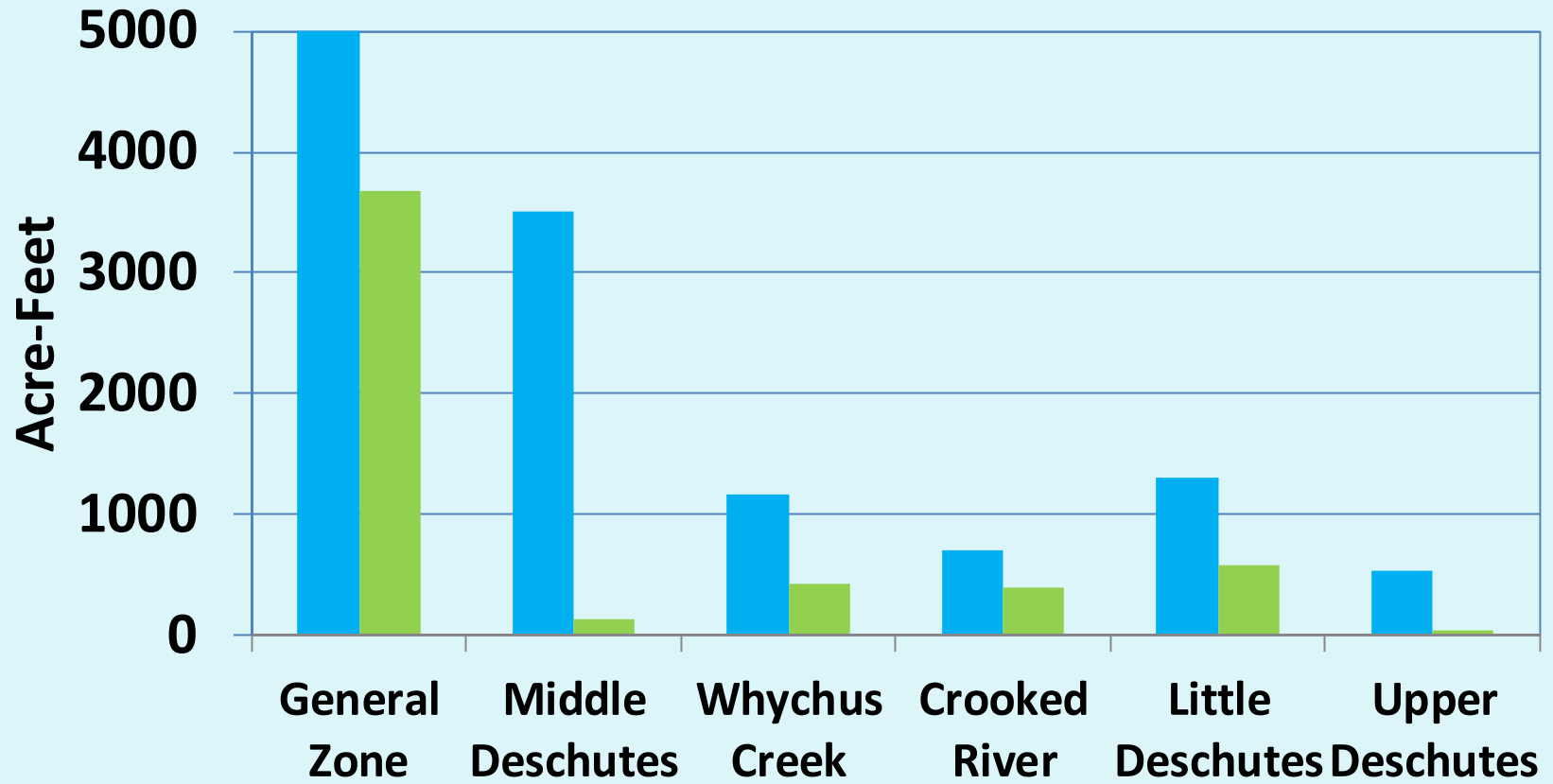
# Status of 200 CFS Cap



...as of December 31, 2016



# 2016 Mitigation Activity in the Deschutes Basin

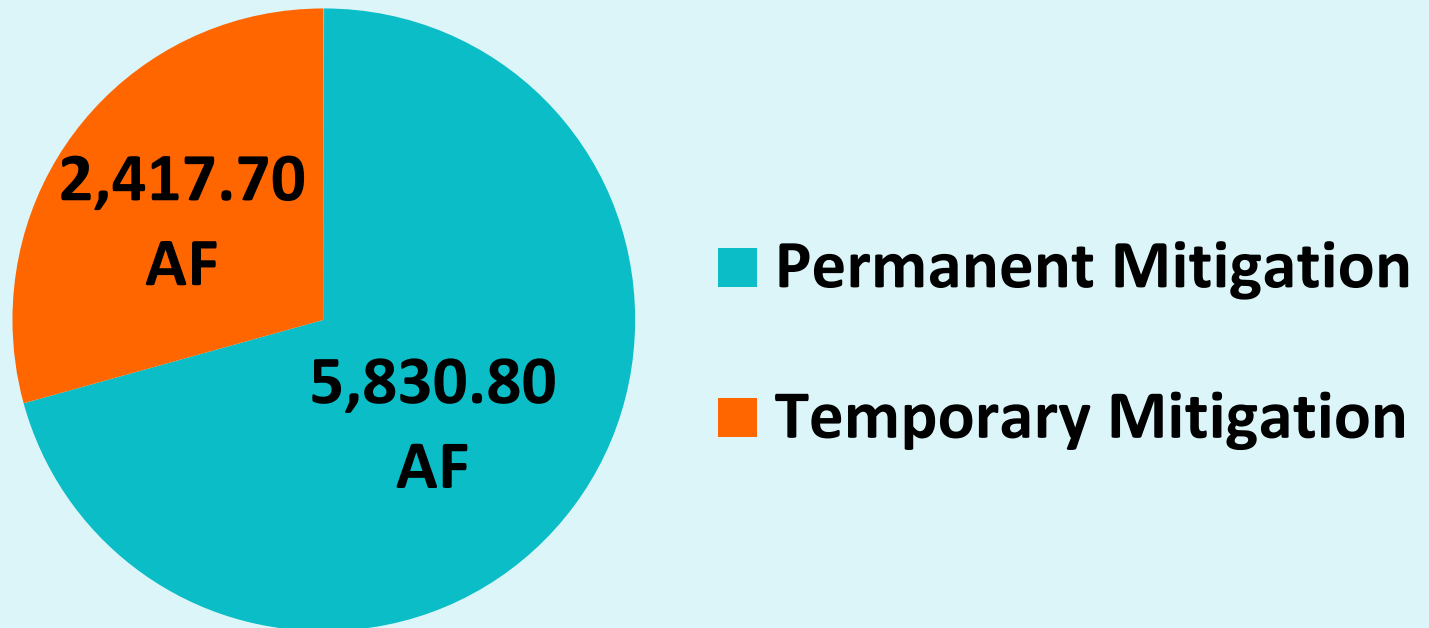


■ Total Mitigation Established    ■ Allocated Mitigation

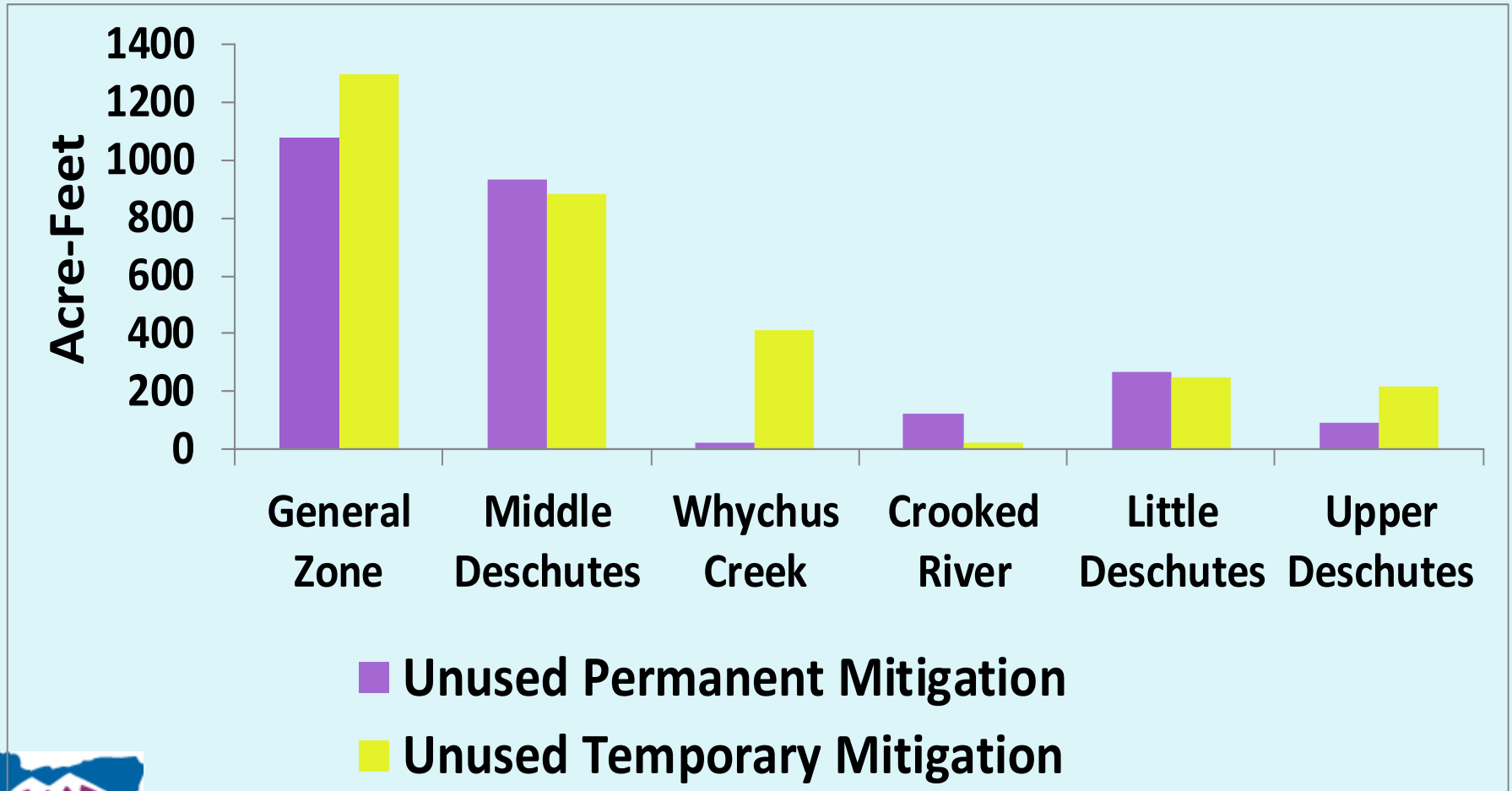


# Program Highlights

Established Mitigation Water in Acre-Feet (AF)  
as of Year End 2016



# Unused Mitigation By Zone



# **Instream Requirements**

- **Assess the impact of mitigation on streamflow in the Deschutes Basin**
- **Results at evaluation sites based on Deschutes Mitigation Model**

**Baseline = 1966 to 1995**



# **Instream Results**

- **Instream requirements being met nearly identical to baseline conditions**
- **All changes are small**
- **Positive changes are larger than negative changes**
- **Predominately positive impact on flows**



# Next Steps for the Program

- **Discussions with Oregon Department of Fish & Wildlife**
- **Stakeholder outreach**
- **Convene a Work Group in 2018**
- **May result in future rulemaking**



**Thank You.**

**Questions?**

