Deschutes Basin HCP

-- Overview --

- Prepared to comply with Section 10 of the Endangered Species Act (ESA).
- Covers the effects of irrigation activities on 3 ESA listed (threatened) species and 2 unlisted species.
- Covers 8 irrigation districts and the City of Prineville.
- Has a term of 30 years.
Deschutes Basin HCP
-- Covered Activities --

Surface Water:
- Storage
- Release
- Diversion
- Return
- Discharge of treated wastewater

Groundwater:
- Withdrawal (City of Prineville)
Deschutes Basin HCP
-- Covered Activities --

- Irrigation water is stored in 5 reservoirs in the upper basin.
Deschutes Basin HCP

-- Covered Activities --

- During the irrigation season, stored water is released from the reservoirs and subsequently diverted at multiple downstream locations.

- Live (natural) flow is also diverted.

- Some Districts have no storage rights and rely entirely on natural flow.
Deschutes Basin HCP

-- Covered Species --

- Oregon spotted frog
- Bull Trout
- Steelhead Trout
- Spring Chinook Salmon
- Sockeye Salmon
Deschutes Basin HCP
-- Covered Species --

- **Oregon spotted frogs** reside within two of the reservoirs (Crane Prairie and Wickiup) and in the Deschutes River, Crescent Creek and Little Deschutes River between the reservoirs and the diversions.

- **Covered fish species** reside in lower Crooked River subbasin, Whychus Creek, and Deschutes River downstream of Big Falls.
Deschutes Basin HCP
-- Effects --

- Oregon spotted frog:
  - Seasonal changes in water depth in Crane Prairie and Wickiup reservoirs.
  - Seasonal changes in flow in Crescent Creek, Little Deschutes River and Deschutes River.

- Covered fish species:
  - Reduced flow and increased water temperature in occupied stream reaches.
Deschutes Basin HCP
-- Mitigation Approach --

- Oregon spotted frog:
  - Stabilize water levels in Crane Prairie Reservoir.
  - Increase winter flows/decrease summer flows in the Deschutes River between Wickiup Dam and Bend.
  - Increase winter flows in Crescent Creek and Little Deschutes River.
Deschutes Basin HCP
-- Mitigation Approach --

- Covered fish species:
  - Increase winter flows in the Deschutes River.
  - Augment winter flows in the Crooked River in dry years.
  - Increase summer flows in Whychus Creek.
  - Fund aquatic habitat restoration and enhancement in the Crooked River and Whychus Creek.