

Deschutes Basin Habitat Conservation Plan



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

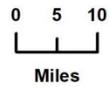
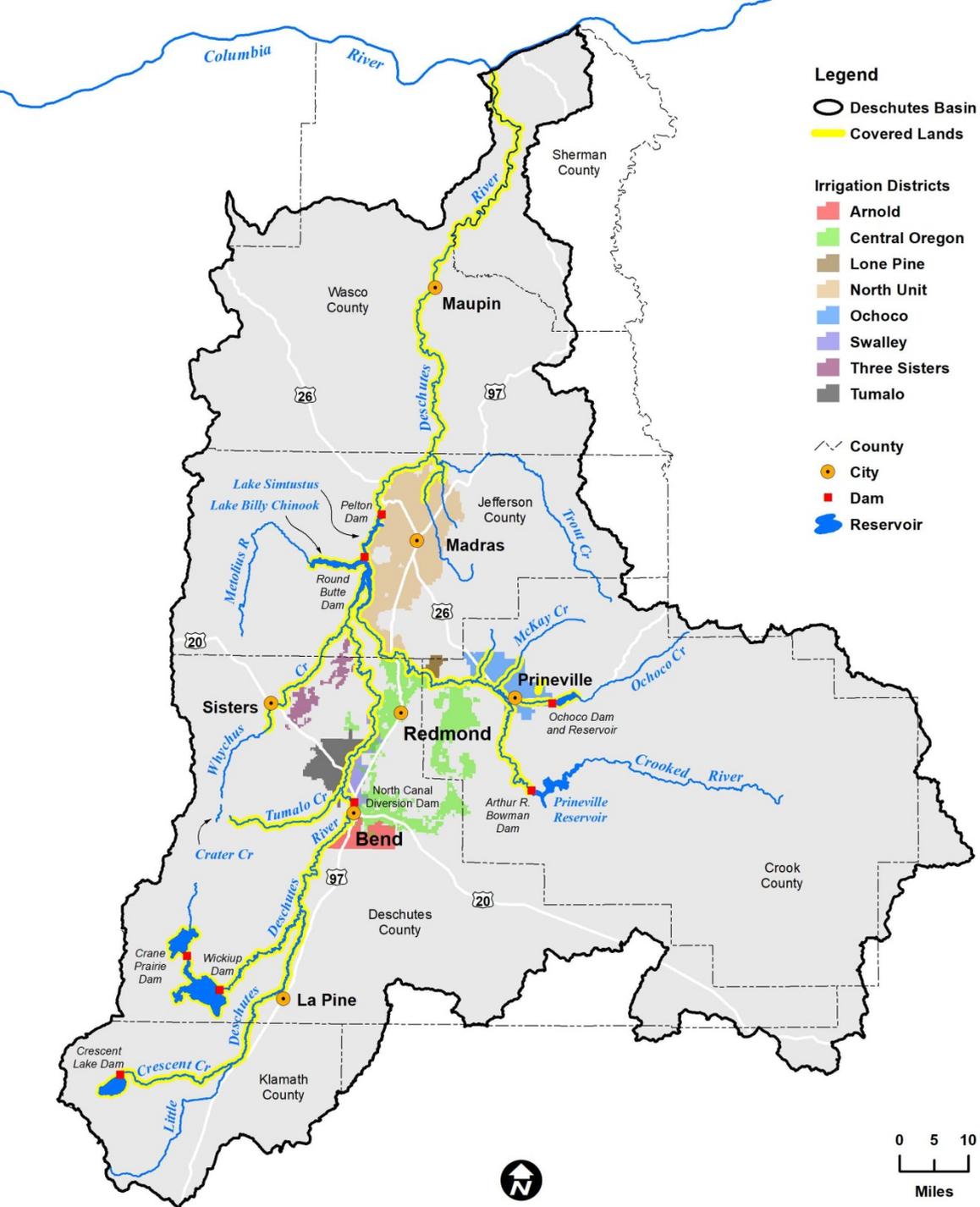
-- Covered Activities --

Surface Water:

- Storage
- Release
- Diversion
- Return
- Discharge of treated wastewater

Groundwater:

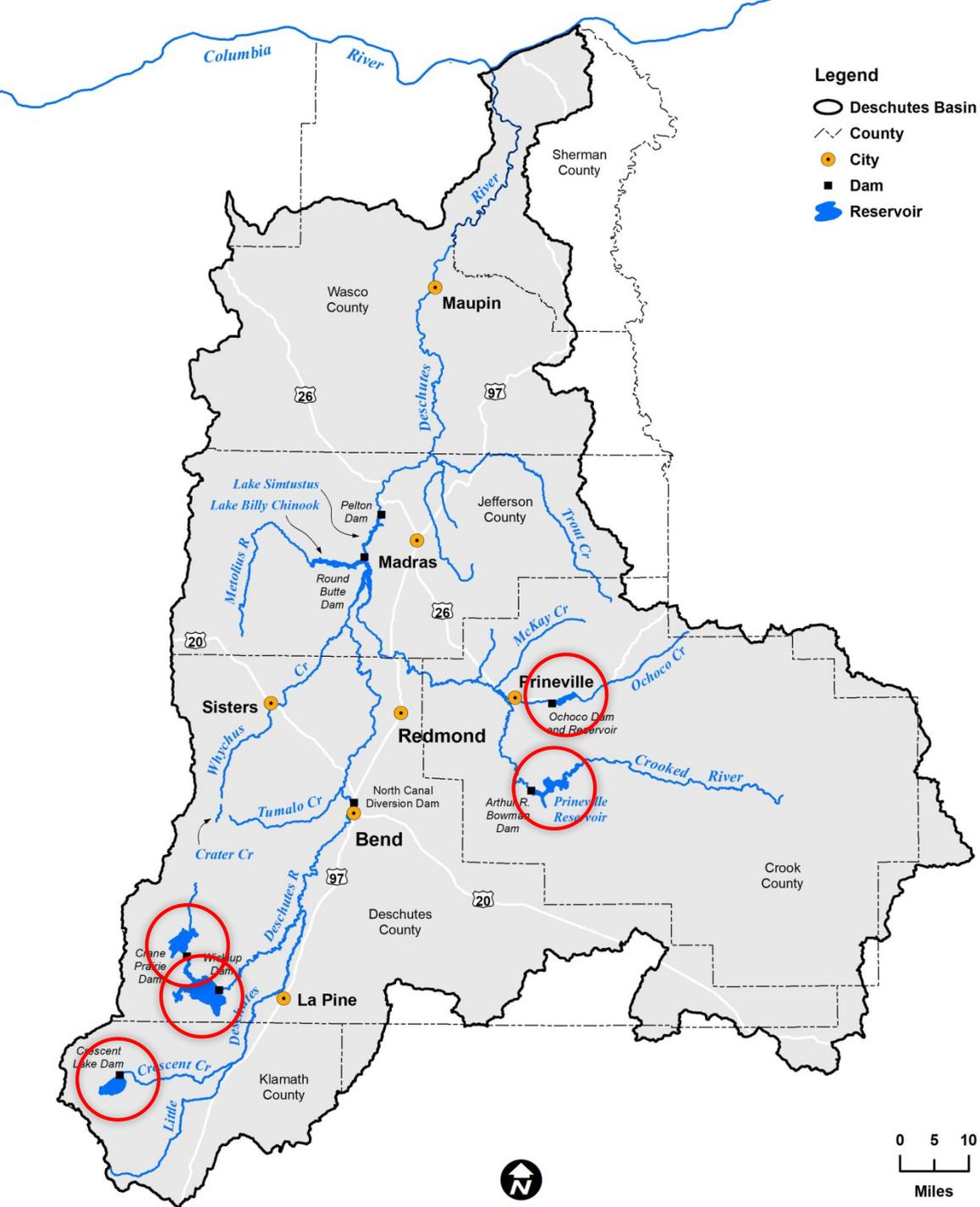
- Withdrawal (City of Prineville)



Deschutes Basin HCP

-- Covered Activities --

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



Legend

- Deschutes Basin
- County
- City
- Dam
- ☪ Reservoir

Columbia River

Sherman County

Wasco County

Maupin

26

97

Lake Simtustus
Lake Billy Chinook

Pelton Dam

Jefferson County

Madras

Round Butte Dam

26

20

Sisters

Redmond

Frineville

Ochocho Dam and Reservoir

Bend

North Canal Diversion Dam

Arthur R. Bowman Dam

Crook County

Deschutes County

20

La Pine

Klamath County

Crescent Lake Dam

Wapinitia Dam

0 5 10



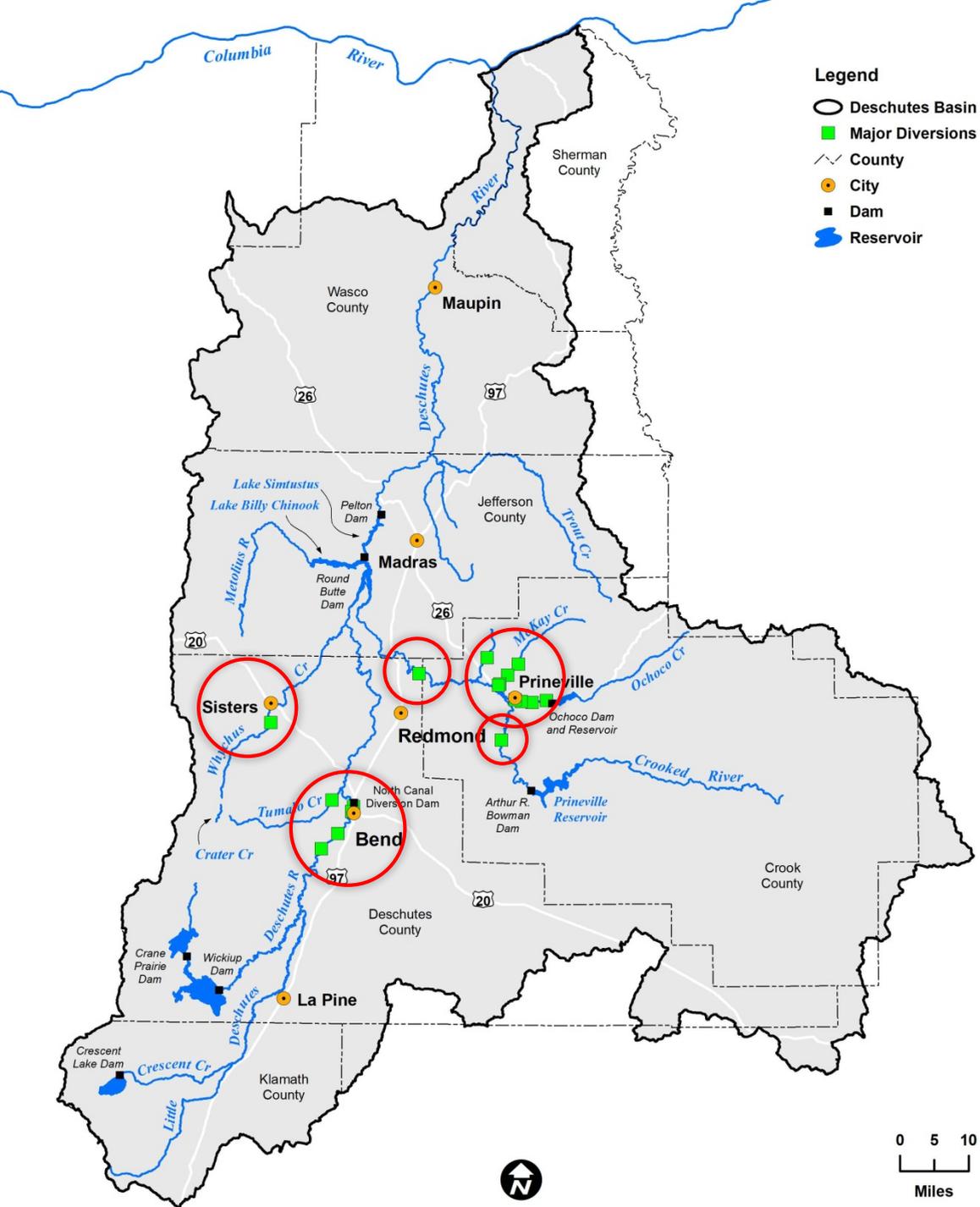
Miles



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

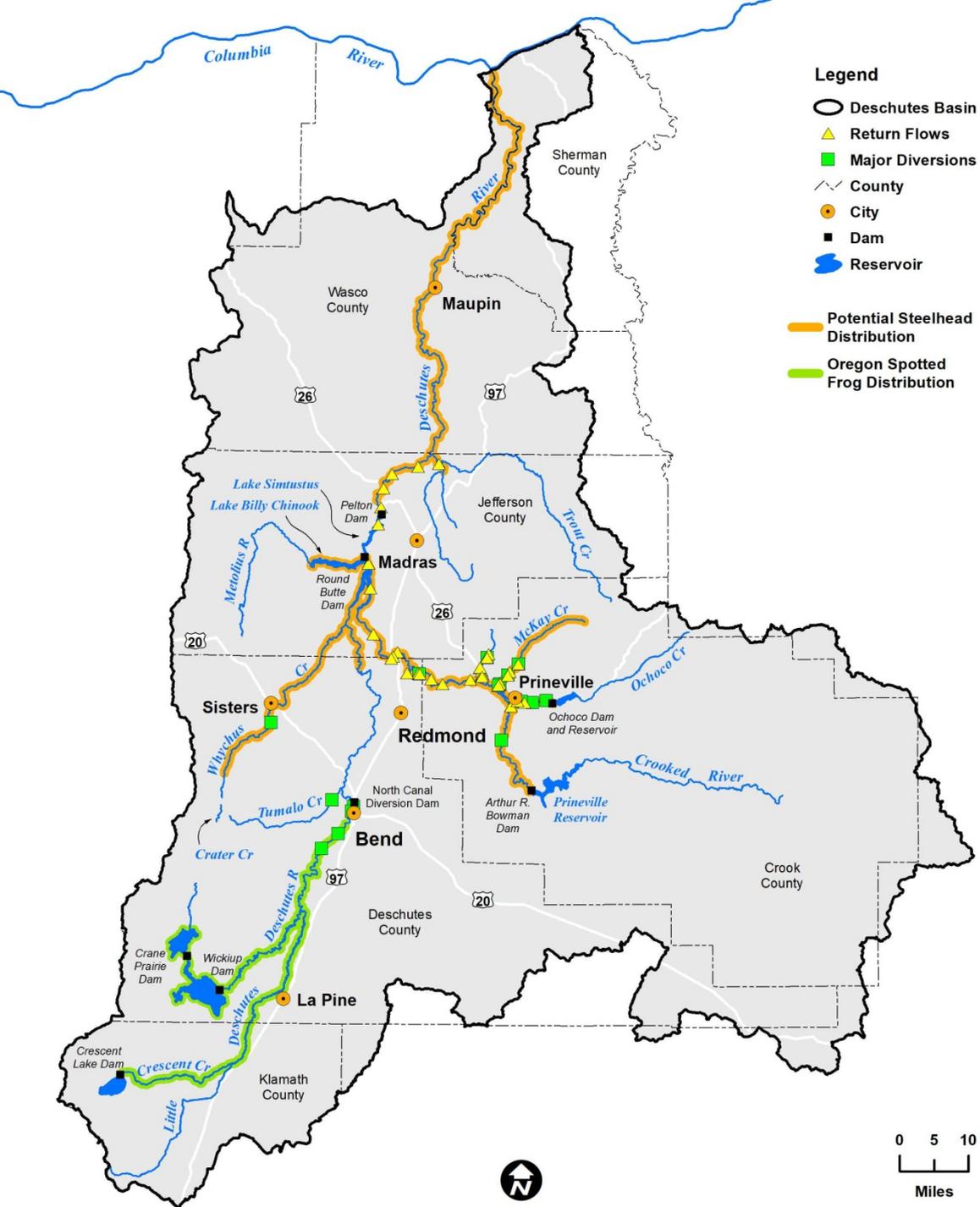
-- Covered Species --

- Oregon spotted frog
- Bull Trout
- Steelhead Trout
- Spring Chinook Salmon
- Sockeye Salmon

Deschutes Basin HCP

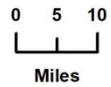
-- Covered Species --

- **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.



Legend

- Deschutes Basin
- △ Return Flows
- Major Diversions
- ⋈ County
- City
- Dam
- ☪ Reservoir
- Potential Steelhead Distribution
- Oregon Spotted Frog Distribution



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.