

CHAPTER 8.0 SUMMARY OF EFFECTS

8.1 SUMMARY OF EFFECTS ON LISTED SPECIES

Reclamation's proposed action is continuance of current O&M programs of Reclamation project facilities in the Deschutes River basin as described in the BA. The three projects that are addressed in the BA are: Deschutes Project, Crooked River Project, and Wapinitia Project.

The BA examined the proposed actions effects on ESA-listed species. Effects of interrelated and interdependent actions have also been included in the evaluation. These effects are added to the proposed action's environmental baseline to make a determination of the effect.

Reclamation has determined that the proposed action would have **no effect** on the following threatened species:

- Canada lynx
- Northern spotted owl

Reclamation's analysis shows that the proposed action **may affect, but is not likely to adversely affect** the following threatened species:

- Bald eagle
- Bull trout
- MCR steelhead (Deschutes wild steelhead stocks)

Table 8-1 summarizes the proposed action's effects on ESA-listed species, as described in Chapter 6.

**Table 8-1. Summary of Proposed Action Effects on ESA Species
Deschutes River Basin, Oregon**

Project Location	Occurrence in Project Area	Effects Summary			Description of Anticipated Effects
		No Effect	Not Likely to Adversely Affect	Likely to Adversely Affect	
CANADA LYNX – LISTED THREATENED					
Wickiup and Crane Prairie Reservoirs	Lynx Analysis Unit	X			No effect on upland areas where there may be potential lynx habitat.
NORTHERN SPOTTED OWL – LISTED THREATENED					
Wickiup Reservoir, Crane Prairie Reservoir, and Clear Lake	Critical Habitat Units (CHU)	X			No effect on upland CHU areas nor on nesting, roosting, & foraging territories.
	Nesting, Roosting, & Foraging Territories	X			
BALD EAGLE – LISTED THREATENED					
Upper Deschutes River Subbasin: Wickiup & Crane Prairie Reservoirs	Breeding, Nesting & Wintering		X		Number of breeding pairs and nesting success would continue to fluctuate in response to varying environmental conditions as well as reservoir operations. Conditions for wintering eagles would not change.
Deschutes River below Wickiup Reservoir	Breeding, Nesting, & Wintering	X			Flow conditions would not change. Conditions for prey base would remain unchanged. Number of breeding pairs and nesting success would be expected to remain the same. Conditions for wintering eagles would not change.
Middle Deschutes River Subbasin	Breeding, Nesting, & Wintering	X			This population in the Metolius and near Lake Billy Chinook is not affected by the proposed action.

Project Location	Occurrence in Project Area	Effects Summary			Description of Anticipated Effects
		No Effect	Not Likely to Adversely Affect	Likely to Adversely Affect	
Crooked River Subbasin: Prineville Reservoir	Nesting Wintering	X X			Reservoir levels would continue to provide for an adequate prey base. No expected change in nesting or foraging opportunities. There would continue to be an adequate winter foraging base.
Ochoco Reservoir	Wintering	X			Winter reservoir carryover would remain unchanged.
Lower Deschutes River Subbasin: Clear Lake (White River Subbasin)	Breeding & Nesting	X			No change in reservoir operations. No expected change in nesting or foraging opportunities.
Lower Deschutes River	Breeding, Nesting, & Wintering		X		An adequate foraging base would continue in the lower river.
BULL TROUT – LISTED THREATENED					
Upper Deschutes River Subbasin	No longer present	X			NONE
Middle Deschutes River Subbasin: Middle Deschutes River	Adfluvial & fluvial population		X		Project operations would continue to influence flows and water quality, but there would continue to be adequate habitat conditions for the existing population which inhabits the middle Deschutes and Lake Billy Chinook.
Metolius River	Adfluvial population	X			Project operations have no effect on the Metolius River
Crooked River Subbasin: Upper Crooked River	No longer present	X			NONE
Lower Crooked River	Adfluvial population		X		Projects operations would continue to influence flows and water quality, but there would continue to be adequate habitat conditions for the

Project Location	Occurrence in Project Area	Effects Summary			Description of Anticipated Effects
		No Effect	Not Likely to Adversely Affect	Likely to Adversely Affect	
					existing population which inhabits the Crooked River arm of Lake Billy Chinook.
Lower Deschutes River Subbasin	Fluvial population		X		Project operations would continue to influence flows and water quality in the lower Deschutes River, but there would continue to be adequate habitat conditions for the growing population.
MIDDLE COLUMBIA RIVER STEELHEAD – LISTED THREATENED					
Middle Deschutes River Subbasin	No longer present	X			NONE
Crooked River Subbasin	No longer present	X			NONE
Lower Deschutes River Subbasin	Adult and juvenile migrants, adult spawners, juvenile rearing		X		Hydrologic modeling shows that project operations would continue to influence flows in the lower Deschutes River, but overall effects are not likely to adversely affect listed wild steelhead stocks.