



Memorandum

OREGON DEPARTMENT OF FISH AND WILDLIFE UMPQUA WATERSHED DISTRICT

Date: October 22, 2003

To: Files

From: Dave Loomis

Predicted Fishery Effort and Catch at Diamond Lake under possible DEIS

Subj: Alternatives (October, 2003)

As part of the discussion of possible alternatives for future actions at Diamond Lake, I was requested to predict the annual fishery effort (angler days) and catch (trout harvest) for a 6-year period under some of the alternatives in the DEIS (draft October 2003). I based these predicted fishery levels as a result of the stocking numbers and plans submitted earlier (Loomis memo, October 20, 2003). Economic cost/benefits estimates related to these predictions can be used as needed for further review and analysis.

Predicted Effort and Catch by Anglers at Diamond Lake under DEIS alternatives

Alternative 1 (No Action / Legal-size trout)

	<u>Angler Trips</u>	<u>Trout Catch</u>
2004	20,000	20,000
2005	10,000	10,000
2006	10,000	10,000
2007	10,000	10,000
2008	10,000	10,000
2009	10,000	10,000

Alternative 2 (Proposed Action /rotenone+ fingerlings/catchable-size trout)

	<u>Angler Trips</u>	<u>Trout Catch</u>
2004	20,000	20,000
2005	5,000	5,000
2006	25,000	30,000
2007	60,000	100,000
2008	80,000	200,000
2009	100,000	200,000

Alternative 3 (rotenone + put-and-take-size trout)

	<u>Angler Trips</u>	<u>Trout Catch</u>
2004	20,000	20,000
2005	5,000	5,000
2006	30,000	40,000
2007	60,000	80,000
2008	70,000	120,000
2009	80,000	160,000

Alternative 4 (Mechanical/Biological)

	<u>Angler Trips</u>	<u>Trout Catch</u>
2004	20,000	20,000
2005	30,000	30,000
2006	50,000	50,000
2007	50,000	50,000
2008	50,000	60,000
2009	50,000	70,000

Note. For alternative 4, the catch estimates reflect more of a “catch and release” fishery, compared to the harvest fishery in the other alternatives. And it also assumes a disrupted fishery with all of the netting in the lake, so therefore, the effort would flatten out at about 50,000 trips, but catch would increase in last 2 years.