

APPENDIX 8-2
RECREATION DATA

Harold,

Listed below are deer and elk hunting figures for Wallowa County 1978, 1988, and 2000. It gives you some idea of trends. Annual figures are not a problem for more recent years, but will take quite a bit more effort to put together data for the early to late 1980's. If you would prefer data on an annual or every other year basis, let me know and I will see what I can do.

Year	Hunters	<u>ELK</u>		Hunters	<u>Deer</u>	
		Harvest	%Success		Harvest	%Success
1978	23,040	4658	20	13180	5860	44
1988	13,115	3521	27	7180	3198	45
2000	5915	1121	19	5505	2725	50

Table 2. A comparison of angling effort and harvest during May-June at Wallowa Lake, 1986-1999 (no surveys were conducted in 1998 or after 1999).

Year	Angler Hours	Rainbow Trout	Kokanee	Lake Trout	Whitefish
1986	22,920	5,544	24,856	18	18
1987	22,960	1,016	21,687	0	16
1988	18,922	5,989	14,495	13	75
1989	25,466	6,211	17,225	7	11
1990	18,646	6,494	10,742	30	0
1991	18,286	8,835	6,356	3	3
1992	24,419	7,276	25,072	9	0
1993	16,570	9,779	9,873	0	4
1994	18,114	7,223	12,998	0	0
1995	14,676	7,879	9,009	14	0
1996	16,707	5,976	10,179	16	10
1997	14,621	6,820	8,777	10	0
1999	24,858	8,398	11,206	0	0

Table 2. Estimated annual return and harvest of spring/summer chinook salmon in the Imnaha River, 1957-1978.

Year	Estimated Return to River	Estimated Harvest	Angler Hours
1957	4,391	187	No data
1958	1,548	117	No data
1959	874	168	No data
1960	2,070	201	No data
1961	1,280	42	No data
1962	1,382	9	No data
1963	755	14	No data
1964	1,380	0	No data
1965	1,048	3	No data
1966	1,261	24	No data
1967	1,203	10	No data
1968	1,420	61	No data
1969	1,683	9	No data
1970	976	4	No data
1971	2,049	19	No data
1972	1,884	17	No data
1973	3,061	107	No data
1974	1,529	0	No data
1975	823	0	No data
1976	701	Closed	No data
1977	871	44	No data
1978	2,291	0	No data
1979-2000	221-2,373	Closed	Closed
2001	6,199	302	4,312
2002	4,330	152	3,056

Table 1. Estimates of angler effort, harvest, catch, and catch rates from creel surveys conducted on the Wallows River.

	1979 ^a	1995	1998
Inclusive Dates	July 3 – September 9	July 21 – October 31	July 15 – October 31
Total Angler Hours (Bound)	6,595	6,488 (±377)	5,418 (±347)
<u>Harvest (Bound)</u>			
Catchable Hatchery Rainbow	6,748	968 (±232)	b
Residual Hatchery Steelhead	b	1,210 (±268)	1,457 (±382)
Wild Rainbow	1,547	95 (±59) c	94 (±63) c
Mountain Whitefish	66	27 (±20)	15 (±20)
Total Harvest	8,361	2,300 (±466)	1,566 (±403)
<u>Catch and Release (Bound)</u>			
Hatchery Rainbow (Ad-?)		3,101 (±724)	8,121 (±1,889)
Unidentified Rainbow (Rb-?)		2,502 (±612)	967 (±522)
Wild Rainbow		1,968 (±455)	1,693 (±459)
Mountain Whitefish		590 (±256)	376 (±283)
Bull Trout		15 (±20)	0
Total Catch and Release		8,176 (±1,406)	11,157 (±2,259)
<u>Adjusted Catch and Release</u>			
Catchable Hatchery Rainbow		2,060	b
Residual Hatchery Steelhead		2,571	8,921
Wild Rainbow		2,940	1,860
<u>Harvest Rates</u>			
Catchable Rainbow/Hour	1.0	0.15	b
Residual Steelhead/Hour	b	0.19	0.27
Wild Rainbow/Hour	0.3	0.01 c	0.02 c
Total Fish/Hour	1.3	0.36	0.29
<u>Total Catch (Kept+Released) Rates</u>			
Catchable Rainbow/Hour		0.47	b
Residual Steelhead/Hour		0.58	1.92
Wild Rainbow/Hour		0.47	0.36
Total Fish/Hour		1.61	2.36

^a Bounds and catch and release estimates were not reported for the 1979 survey.

^b Residual hatchery steelhead were not present in 1979 and catchable hatchery rainbow were not stocked in 1998.

^c Illegal harvest

Table 1. Effort, catch (fish landed), and harvest (fish kept) estimates for recent summer steelhead fisheries in the Grande Ronde and Imnaha basins.

Location	Run Year	Angler	Effort	Hatchery	Steelhead	Wild Steelhead
		Hours	Days	Catch	Harvest	Catch
Lower Grande Ronde (OR-WA state line to Wildcat Cr., RM 39-54)	1991-92	19,617	4,862	1,373	879	410
	1992-93	15,461	2,963	1,111	544	573
	1993-94	12,883	2,607	252	168	483
	1994-95	6,383	1,248	152	107	150
	1995-96	10,856	2,103	564	300	386
	1996-97	9,137	1,461	465	286	193
	1997-98	19,984	3,784	2,323	1,415	432
	1998-99	9,541	1,864	353	244	213
	1999-2000	11,112	2,172	500	380	474
Wallowa River (State Park to Rock Cr., RM 8-18.5) ¹	1991-92	27,807	5,304	2,335	1,514	333
	1992-93	23,458	4,135	1,815	1,083	305
	1993-94	14,144	2,819	556	481	285
	1994-95	19,047	3,957	810	565	300
	1995-96	18,444	2,951	710	495	166
Imnaha River (Mouth to Big Sheep Cr., RM 23) ¹	1991-92	3,128	762	392	212	321
	1992-93	2,910	789	236	171	130
	1993-94	1,336	298	29	29	72
	1994-95	1,048	219	24	24	39
	1995-96	2,599	588	180	112	209

¹ Beginning in 1996, we discontinued estimating effort for Wallowa and Imnaha fisheries because of budget reductions. We continued sampling for catch rate and catch composition and will use punch card estimates of harvest to back-calculate effort and catch. Punch card estimates are not yet available.

Source: Dean Runyan Associates, Travel spending by type of business (\$Million).

Wallowa County
Dean Runyan Associates Study
Travel Data

Year	Hotel Motel and B&B	Private Campgrounds	Public Campgrounds	Private Homes	Vacation Homes	Day Travel	Air Travel	Total Spending
1991	1.0	2.0	2.7	0.5	1.8	2.7	0.0	\$10.7
1992	2.8	2.1	2.8	0.5	1.9	3.1	0.0	\$13.1
1993	4.2	2.1	2.8	0.5	2.0	3.4	0.0	\$15.0
1994	4.8	2.2	2.9	0.5	2.0	3.6	0.0	\$15.8
1995	5.1	2.2	3.0	0.5	2.1	3.8	0.0	\$16.7
1996	5.2	2.3	3.0	0.6	2.2	3.9	0.0	\$17.1
1997	5.4	2.3	3.1	0.6	2.2	4.0	0.0	\$17.6
1998	5.8	2.4	3.1	0.6	2.2	4.1	0.0	\$18.2
1999	6.3	2.4	3.2	0.6	2.2	4.2	0.0	\$19.0
2000	6.9	2.5	3.4	0.6	2.4	4.5	0.0	\$20.4

Source: Dean Runyan Associates, Travel spending by type of traveler accommodation (\$Million).

Year	All Lodging	Eating and Drinking	Food Stores	Ground Transport.	All Recreation	Retail Sales	Air Travel	Total Spending
1991	1.6	2.6	2.0	0.6	1.4	2.6	0.0	\$10.7
1992	2.5	3.3	2.3	0.6	1.5	3.0	0.0	\$13.1
1993	3.2	3.8	2.5	0.6	1.6	3.3	0.0	\$15.0
1994	3.4	4.0	2.6	0.6	1.7	3.5	0.0	\$15.8
1995	3.7	4.2	2.7	0.6	1.7	3.6	0.0	\$16.7
1996	3.8	4.3	2.8	0.7	1.8	3.7	0.0	\$17.1
1997	3.9	4.5	2.9	0.7	1.8	3.8	0.0	\$17.6
1998	4.1	4.7	2.9	0.6	1.9	4.0	0.0	\$18.2
1999	4.4	4.9	3.0	0.7	1.9	4.1	0.0	\$19.0
2000	4.7	5.2	3.2	0.9	2.0	4.3	0.0	\$20.4

Dean Runyan Associates Study (continued)

Year	All Lodging	Eating and Drinking	Food Stores	Ground Transport	All Recreation	Retail Sales	Air Travel	Total Employed
1991	80	140	20	0	70	30	0	330
1992	90	170	30	0	70	40	0	400
1993	110	200	30	0	70	40	0	450
1994	120	200	30	0	70	50	0	470
1995	120	210	30	0	70	50	0	480
1996	110	210	30	0	80	50	0	470
1997	110	200	30	0	80	40	0	450
1998	110	200	30	0	70	40	0	470
1999	120	200	30	0	70	40	0	470
2000	130	220	30	0	70	40	0	500

Source: Dean Runyan Associates, Employment generated by travel spending (jobs).

Oregon State Park Data

Year	Wallowa Lake Campers	Wallowa Lake Nights	Miramonte Campers	Miramonte Nights	Wallowa Lake Day Use	Miramonte Day Use	Wallowa Lake Total
1990	68,828	3,301	631,454	37,496	100,392	80,948	80,948
1991	74,558	4,485	624,124	32,274	85,184	86,184	86,184
1992	73,197	4,386	724,142	30,140	79,588	82,588	82,588
1993	71,243	4,462	701,360	38,014	79,076	86,512	86,512
1994	69,677	3,983	692,210	38,322	79,944	78,296	78,296
1995	70,377	4,552	724,894	36,252	82,956	83,920	83,920
1996	67,681	4,334	573,410	34,148			
1997	69,663	4,768	591,774	29,252			
1998	72,324	4,357	680,990				
1999	73,508	3,864	681,102				
2000	75,719	4,320	677,616				
2001	74,053	4,365	661,288				

* camper nights are figured at an average occupancy of 3.3 people per campsite

** day use attendance figures come from traffic counters located at the entrance to campground and day use areas. Numbers include repeated traffic counter hits of both local and visitor cars.