

Fishing, Hunting, Wildlife Viewing, and Shellfishing in Oregon

2008 State and County Expenditure Estimates

May 2009



Summer Lake Wildlife Area
Photo Credit: Oregon Department of Fish and Wildlife

Prepared for the

Oregon Department of Fish and Wildlife
Travel Oregon

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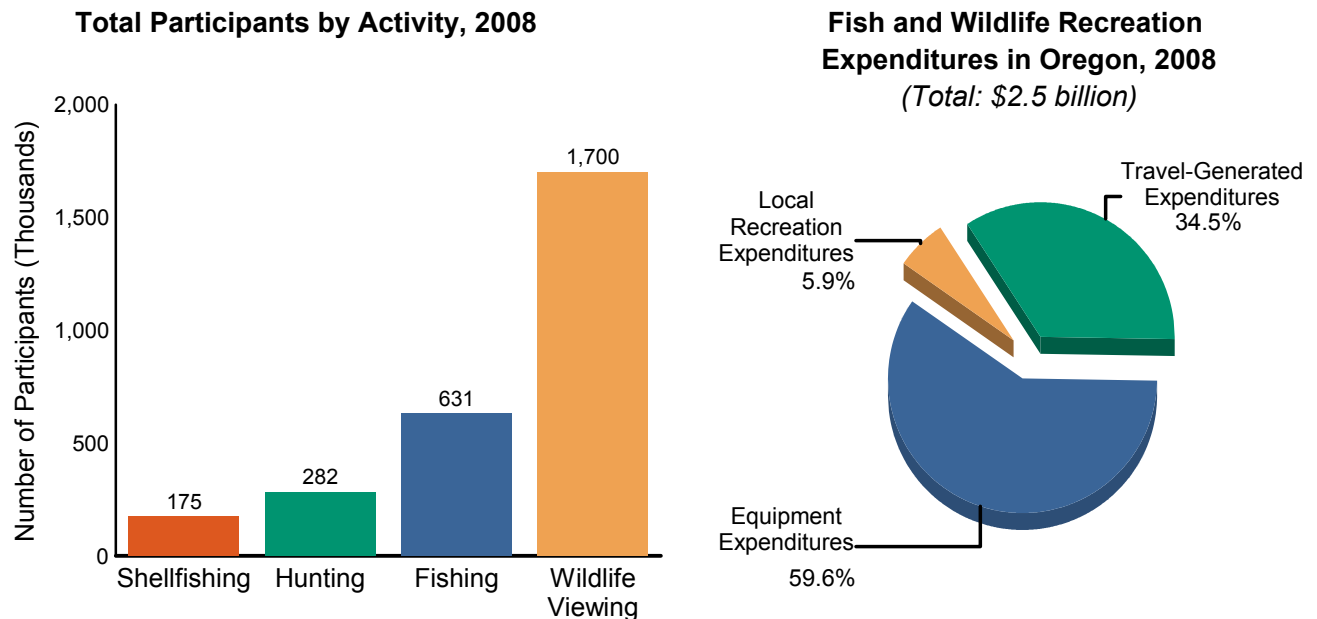
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Executive Summary

This study, the result of a comprehensive effort by the Oregon Department of Fish and Wildlife (ODFW) and Travel Oregon, describes hunting, fishing, wildlife viewing, and shellfish harvest participation and related expenditures made throughout Oregon and the state's travel regions and counties.

Participation and Expenditures in Oregon

In 2008, nearly 2.8 million Oregon residents and nonresidents participated in fishing, hunting, wildlife viewing, and shellfish harvesting in Oregon. Of the total number of participants, 631 thousand fished, 282 thousand hunted, 175 thousand harvested shellfish, and 1.7 million participated in outdoor recreation where wildlife viewing was a planned activity.



In 2008, state residents and nonresidents made three distinct types of fish and wildlife recreation expenditures:

- Travel-Generated
- Local Recreation (less than 50 miles from home)
- Equipment Purchases (includes boats and recreation vehicles)

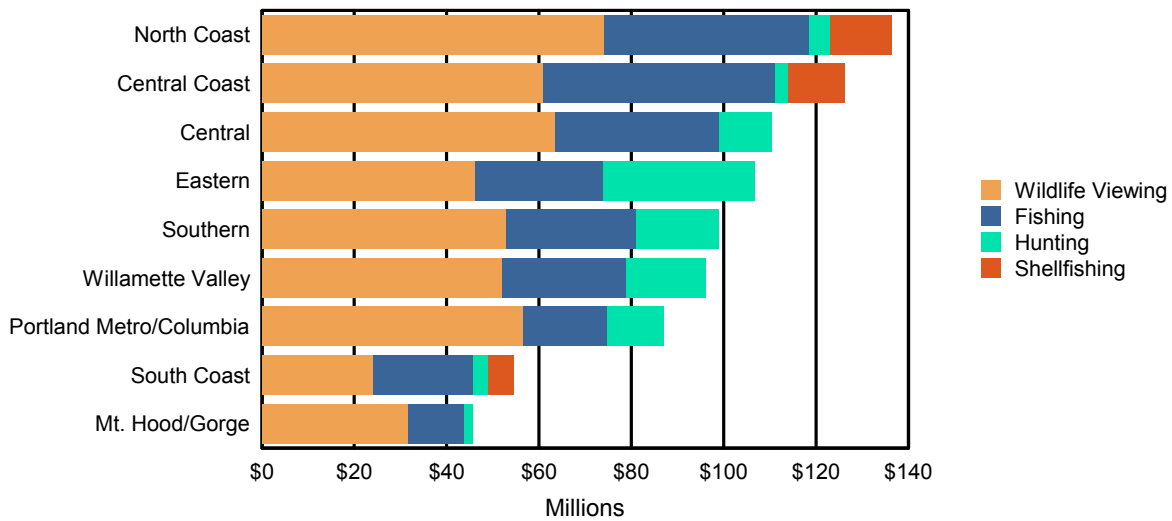
When all three categories are combined, fish and wildlife recreation resulted in expenditures of \$2.5 billion in 2008. Oregon residents and nonresidents who traveled overnight and on day trips of 50 or more miles (one-way) from home made travel-generated expenditures of \$862 million. Local recreation expenditures of \$147 million were made by Oregon residents while participating in these activities less than 50 miles from home. State residents and nonresidents also spent an additional \$1.5 billion on specialty equipment and other activity-related purchases from retail establishments and suppliers based in Oregon.

Fish and Wildlife Activities Benefit All Regions of Oregon

During 2008, travel-generated expenditures accounted for over \$100 million in four of Oregon's travel regions (North Coast, Central Coast, Central, and Eastern). In all nine travel regions, travel-generated expenditures for wildlife viewing and fishing were particularly notable. While travel-generated expenditures for hunting occurred in each of the nine travel regions of the state, spending made in the Eastern, Southern, and Willamette Valley travel regions accounted for nearly two-thirds of the total.

Local recreation expenditures occurred most notably in travel regions with large urban-centered populations (Willamette Valley, Portland Metro/Columbia, and Southern), with fishing, hunting, and wildlife viewing representing the bulk of all local recreation expenditures made throughout the state.

Travel-Generated Expenditures in Oregon, 2008



Local Recreation Expenditures in Oregon, 2008

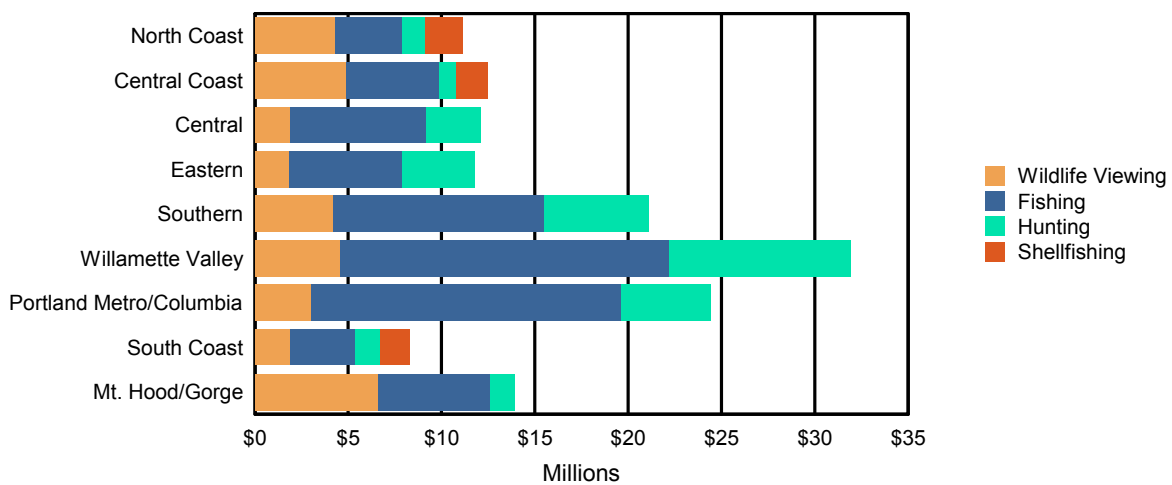


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Preface

This study, the result of a comprehensive effort by the Oregon Department of Fish and Wildlife (ODFW) and Travel Oregon, documents the economic significance of fishing, hunting, wildlife viewing and shellfish harvest in Oregon and its 36 counties in 2008. The report is intended to assist ODFW watershed and regional managers, state and local officials, as well as local chapters of sports groups or other organizations interested in fish and wildlife.

Dean Runyan Associates and The Pulse Group prepared this study for ODFW and Travel Oregon. Dean Runyan Associates has specialized in research and planning services for the travel, tourism, and recreation industry since 1984. Dean Runyan Associates also has extensive experience in project feasibility analysis, market evaluation, survey research, and travel and recreation planning. The Pulse Group is a market research and strategic planning firm specializing in large-scale study design and implementation.

In preparing this report, we have received essential guidance and assistance from numerous ODFW staff, whom we thankfully acknowledge. Stephen Williams, *Deputy Administrator Fish Division*, Larry Cooper, *Deputy Administrator Wildlife Division*, Dave Fox, *Marine Resource Program Assessment and Management Section Leader*, Tom Thornton, *Game Program Manager*, Dave Budeau, *Upland Game Bird Coordinator*, Christine Broniak, *Economist*, Christopher Carter, Ph.D., *Natural Resource Economist*, as well as many others who provided information and advice for this report.

In addition, we want to express our thanks for the cooperation of over 11,000 individuals who voluntarily provided detailed information about their hunting, fishing, wildlife viewing or shellfish harvest activity in Oregon.

Finally, special thanks are due to Roger Fuhrman, Administrator, Information and Education Division, ODFW, and Todd Davidson, CEO, Travel Oregon for their project support and assistance.

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I. Introduction

In Oregon, fishing, hunting, wildlife viewing, and shellfish harvesting generates economic activity for regions and counties throughout the state. Many locations within Oregon serve as appealing overnight and day destinations for both Oregon residents and out-of-state visitors (nonresidents) who participate in fishing, hunting, wildlife viewing, and shellfish harvesting activities while traveling away from home. In addition, many Oregon residents participate in these same fish and wildlife recreation activities close to home, supporting local businesses by spending dollars within their region and county of residence.

Based on results reported from detailed questionnaires and phone interviews, this study describes detailed expenditures made by Oregon residents and nonresidents for fishing, hunting, wildlife viewing and shellfish harvesting in Oregon during 2008. This study also estimates the retail expenditures for fish and wildlife activity-related equipment purchased in Oregon during 2008.

Detailed statewide information on trip characteristics and demographics for each recreation activity type is also included, providing details such as the purpose and length of the trips, the distance traveled, the type of fish or wildlife pursued or viewed, travel party size, as well as other associated trip-related characteristics (shown in Appendix A).

Objectives

This study represents a comprehensive effort by Oregon Department of Fish and Wildlife (ODFW) and Travel Oregon to document the economic significance of fishing, hunting, wildlife viewing, and shellfish harvest in Oregon. Other previous research, including the U.S. Department of the Interior, Fish and Wildlife Service 2006 National Survey of Fishing, Hunting and Wildlife-Associated Recreation, provide economic information at the statewide level. While this information is helpful, many of the decisions that directly affect fish and wildlife, habitat and recreation are made at the local level – by ODFW watershed or regional managers, by state and local officials, by local chapters of sports groups, or by other organizations interested in fish and wildlife.

The information contained in this help will help further the following objectives:

- Highlight the economic impact of decisions that may affect fishing, hunting or wildlife viewing opportunities. This information will help local decision makers more accurately evaluate the impact of changes in regulations, habitat, invasive species, land use, fish passage and other activities that could affect recreation and fish and wildlife.
- Provide additional information to help secure grants and other funding to improve fishing, hunting and wildlife viewing opportunities such as handicap access, boat launches, fishing piers, viewing blinds, and public access. The information may also be used for

grants for habitat improvement projects and other efforts to improve fish and wildlife habitat.

- Increase understanding of who is involved in fishing, hunting, shellfish harvest, and wildlife viewing. This will help ODFW prioritize efforts to meet public demand for fishing, hunting, shellfish, and wildlife viewing activities.
- Increase understanding of where individuals fish, hunt, harvest shellfish, and view wildlife. This will help ODFW prioritize funding for restoration, enhancement, and development of fishing, hunting, shellfish, and wildlife viewing opportunities.
- Provide communities, industry, groups and others information on the economic value of fish and wildlife recreation and how they may benefit from these activities.
- Help ODFW more effectively target outreach efforts to contact hunters, anglers and wildlife viewers in their home communities and where they recreate.

Survey Method

Four separate surveys were conducted in 2008 in order to accurately assess the economic significance of fishing, hunting, wildlife viewing, and shellfish harvesting in Oregon. For fishing, hunting and shellfishing, survey participants were selected at random from license sales records – more than 50,000 questionnaires were mailed to ODFW resident and non-resident license holders (see Appendix D for self-administered questionnaires). For wildlife viewing, participants were identified through random digit dialing of Oregon telephone numbers. Those agreeing to participate were asked questions similar to those in the written questionnaires. Samples were stratified by certain portions of the state (groups of counties) and by collection period (quarterly). Overall, nearly 12,000 individuals provided information about their fishing, hunting, shellfishing, and wildlife viewing trips.

Survey Sample and Respondents

	Hunting	Fishing	Shellfish	Wildlife
Survey Method	Mail	Mail	Mail	Telephone
Collection Period	Annual	Bi-Annual	Annual	Quarterly
Number of Contacts	19,833	24,911	3,224	1,624
Completed Questionnaires	5,200	4,533	1,122	1,000
Response Rate	26%	18%	35%	62%

Note: Number of contacts does not include mailed questionnaires that were undeliverable.

In order to test for nonresponse bias, a telephone interview was conducted for a random sample of nonrespondents (those who did not return a questionnaire) for each of the segments contacted with mailed self-administered questionnaires. The responses of these groups were similar to those of the initial respondents. Through these telephone interviews, additional detail was gathered with regard to where to the allocation of expenditures -- before, during, or in the community closest to where the recreation activity occurred. The additional information was used to allocate expenditures at the county-level.

Generally, representative samples of 1,000 or more provide very reliable results. Confidence levels for respondent segments are shown in the table below. Appendix E describes the sampling design for the study and describes the approach taken to produce findings from the completed questionnaires.

Segment	Sample Size	Confidence Level (%)	
		90% Level (+/-)	95% Level (+/-)
Hunters	5,200	1.2	1.4
Fishers	4,533	1.3	1.5
Shellfishers	1,122	2.6	3.0
Oregon Households	1,000	2.6	3.1

Types of Expenditures Included

All of the expenditures associated with overnight and day trips where fishing, hunting, and shellfish harvest occurred in Oregon are included in the scope of this analysis. Expenditures made by both Oregon residents and nonresidents are included. For wildlife viewing, all of the expenditures associated with trips where wildlife viewing was a planned activity - *the primary reason* or *one of several reasons* for the trip – are included. Wildlife viewing expenditures made by nonresidents were estimated based on the data provided by survey participants and the U.S. Department of the Interior, Fish and Wildlife Service 2006 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation.

The analysis distinguishes between *travel-generated expenditures* – defined as those expenditures associated with overnight trips and day trips 50 + miles (*one-way*) – and *local recreation expenditures*, associated with activities occurring in locations under 50 miles from the participant’s home. In addition, expenditures made for equipment used while participating in the above activities, if the equipment was purchased from a retailer or supplier located in Oregon during 2008 – such as gear, clothing, campers, recreational vehicles, boats etc. – are reported as *equipment expenditures*. Expenditures made by Oregon residents associated with trips, recreation, or equipment purchases that occurred or were made in locations outside of Oregon are not included.

The specific categories of expenditures included in this analysis are as follows:

Expenditure Categories	Description
Travel-Generated	Travel-generated expenditures associated with <i>all</i> overnight trips and <i>all</i> day trips 50+ miles (one-way) from a participant's home.
Local Recreation	Local Recreation expenditures associated with <i>all</i> day recreation less than 50 miles (<i>one-way</i>) from a participant's home.
Equipment purchases	Equipment expenditures made for specific activity-related equipment, as well as special clothing, tents, boats, campers, recreational vehicles and other, additional assorted purchases.

Report Contents

Following this introductory section, Section II provides a statewide review. Section III provides detailed expenditures by region (based on Travel Oregon regions). Section IV provides detailed expenditures for each of Oregon's 36 counties. Appendices A through C shows detailed trip characteristics, demographics, and number of trips by type of fish and wildlife. Copies of the survey questionnaires are shown in Appendix D. Appendix E describes the sampling design in more detail and highlights the steps taken to produce estimates from the completed questionnaires.

II. Oregon Statewide Summary



Participation and Expenditures in Oregon

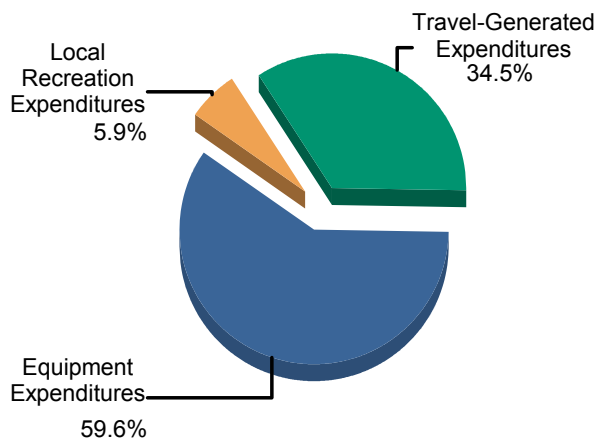
In 2008, 2.8 million Oregon residents and nonresidents participated in fishing, hunting, wildlife viewing, and shellfish harvesting in Oregon. Of the total number of participants, 631 thousand fished, 282 thousand hunted, 175 thousand harvested shellfish, and 1.7 million participated in outdoor recreation where wildlife viewing was a planned activity, which includes observing, feeding, and photographing any kind of wildlife (not including visits to zoos or aquariums).

In 2008, state residents and nonresidents made three distinct types of wildlife recreation expenditures: travel-generated, local recreation, and equipment purchases. Oregon residents and nonresidents who traveled overnight and on day trips of 50+ miles (one-way) from home made *travel-generated expenditures* of \$862 million. Local recreation expenditures of \$147 million were made by Oregon residents while participating in these activities less than 50 miles from home. State residents and nonresidents also spent an additional \$1.5 billion on equipment and activity-related purchases from retail establishments and suppliers based in Oregon.

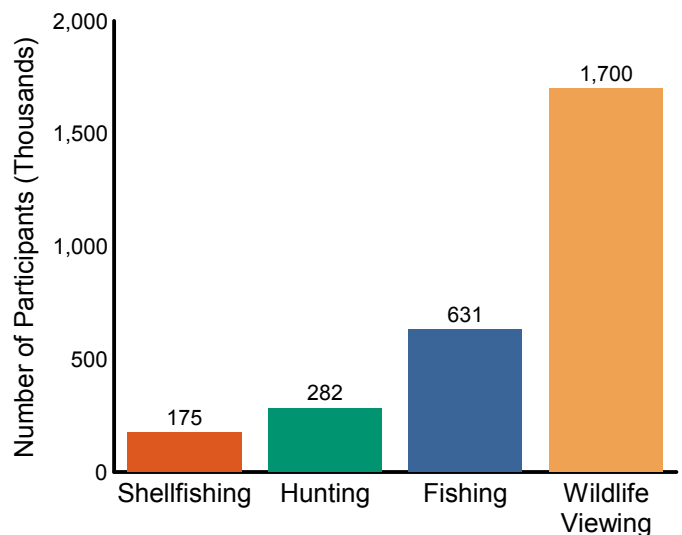
Statewide Participants, Trips and Expenditures in Oregon, 2008	
Total	(in thousands)
Participants in Oregon	2,788
Trips in Oregon	21,163
Travel-Generated Expenditures	\$862,188
Local Recreation Expenditures	\$146,908
Equipment Expenditures	\$1,486,932

Notes: Resident and nonresident expenditures associated with all reported activities in Oregon. Travel-Generated expenditures associated with overnight and day trips 50+ miles (one-way).
Source: Dean Runyan Associates.

Fish and Wildlife Recreation Expenditures in Oregon, 2008
(Total: \$2.5 billion)



Total Participants by Activity, 2008



Participants, Trips and Expenditures in Oregon by Activity, 2008

Fishing	<i>(in thousands)</i>	Shellfishing	<i>(in thousands)</i>
Anglers in Oregon	631	Shellfishers in Oregon	175
Angler Trips in Oregon	5,241	Shellfisher Trips in Oregon	471
Travel-Generated Expenditures	\$264,605	Travel-Generated Expenditures	\$31,039
Local Recreation Expenditures	\$76,905	Local Recreation Expenditures	\$5,256
Equipment Expenditures	\$441,356	Equipment Expenditures	\$135,688
Hunting		Wildlife Viewing*	
Hunters in Oregon	282	Wildlife-Viewing Participants in Oregon	1,700
Hunter Trips in Oregon	1,754	Wildlife Viewing Trips in Oregon	13,697
Travel-Generated Expenditures	\$104,458	Travel-Generated Expenditures	\$462,087
Local Recreation Expenditures	\$31,574	Local Recreation Expenditures	\$33,173
Equipment Expenditures	\$381,908	Equipment Expenditures	\$527,980

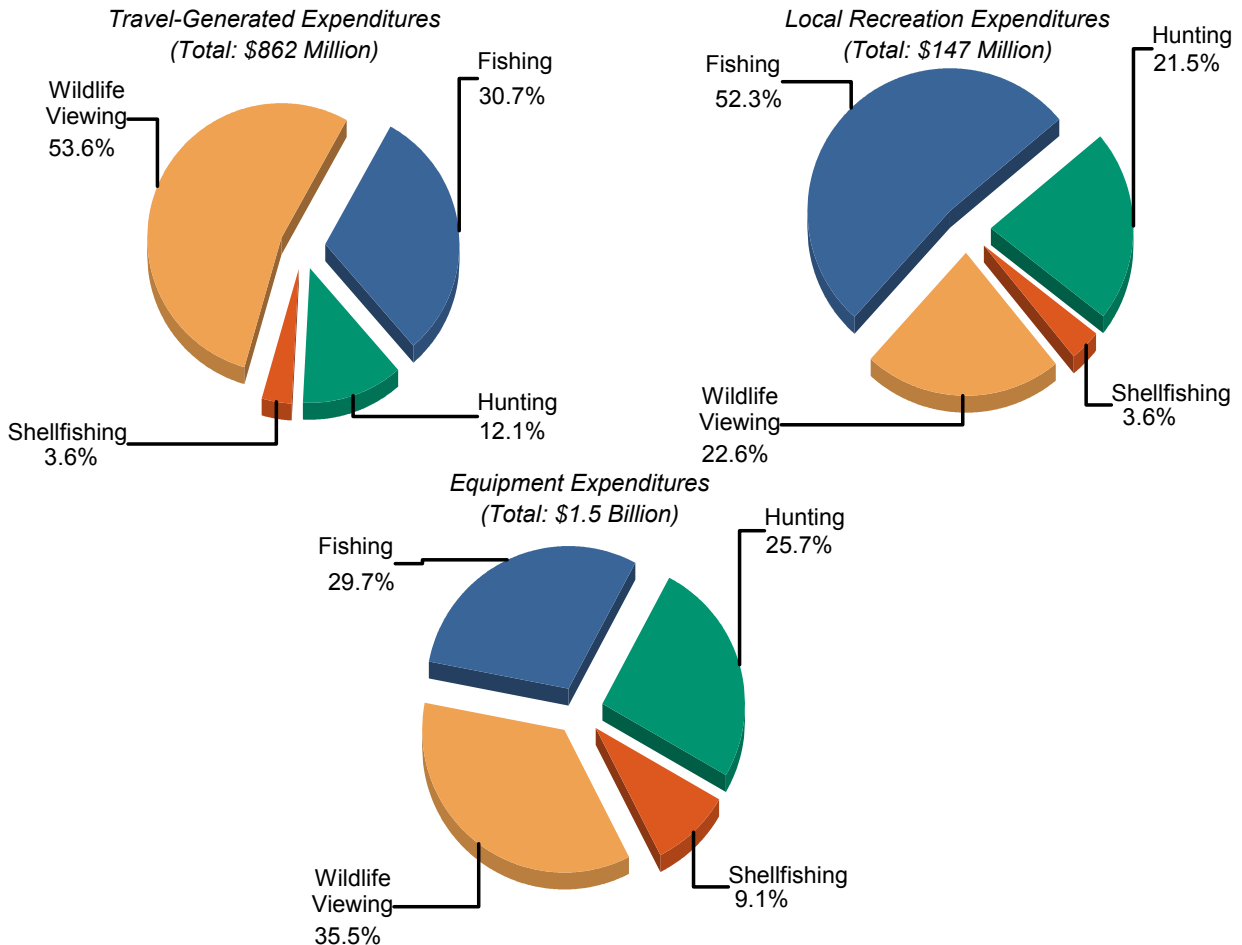
* Trips and Expenditures where wildlife viewing was a planned activity -- *the primary reason or one of several reasons* for the trip. Does not include expenditures associated with trip where incidental wildlife viewing occurred.

Notes: Resident and nonresident expenditures associated with all reported activities in Oregon.

Travel-Generated expenditures associated with overnight and day trips 50+ miles (one-way).

Source: Dean Runyan Associates.

Expenditures in Oregon by Type and Activity, 2008



Note: Wildlife viewing expenditures on trips where wildlife viewing was a planned activity.

Source: Dean Runyan Associates.

Table 1. Expenditures for Fishing in Oregon, 2008

Freshwater Fishing	(Thousands)
<i>Travel-Generated Expenditures*</i>	
Accommodations	\$31,378
Food & Beverage Services	\$31,059
Food Stores	\$42,032
Ground Transportation	\$43,876
Retail	\$17,871
Outfitter/Guide/Charter Fees	\$20,680
Other Recreation & Entertainment	\$8,692
<i>Total Travel Expenditures</i>	\$195,587
<i>Local Recreation Expenditures**</i>	\$74,293
<hr/>	
Saltwater Fishing	(Thousands)
<i>Travel-Generated Expenditures*</i>	
Accommodations	\$12,217
Food & Beverage Services	\$13,394
Food Stores	\$9,842
Ground Transportation	\$13,646
Retail	\$6,981
Outfitter/Guide/Charter Fees	\$8,074
Other Recreation & Entertainment	\$4,864
<i>Total Travel Expenditures</i>	\$69,018
<i>Local Recreation Expenditures**</i>	\$2,612
<hr/>	
Total, All Fishing	(Thousands)
<i>Travel-Generated Expenditures*</i>	
Accommodations	\$43,595
Food & Beverage Services	\$44,453
Food Stores	\$51,873
Ground Transportation	\$57,522
Retail	\$24,852
Outfitter/Guide/Charter Fees	\$28,754
Other Recreation & Entertainment	\$13,556
<i>Total Travel Expenditures</i>	\$264,605
<i>Local Recreation Expenditures**</i>	\$76,905

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Recreation expenditures associated with local trips under 50 miles.

Note: Resident and nonresident expenditures associated with fishing in Oregon.

Additionally, an estimated \$5.3 million was made in airfares (round-trip) by those visitors who traveled to Oregon by air.

Source: Dean Runyan Associates.

Table 2. Expenditures for Shellfishing in Oregon, 2008

Shellfishing	(Thousands)
<i>Travel-Generated Expenditures*</i>	
Accommodations	\$6,848
Food & Beverage Services	\$7,570
Food Stores	\$6,496
Ground Transportation	\$4,975
Retail	\$2,996
Outfitter/Guide/Charter Fees	\$580
Other Recreation & Entertainment	\$1,574
<i>Total Travel Expenditures</i>	<i>\$31,039</i>
<i>Local Recreation Expenditures**</i>	<i>\$5,256</i>

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Recreation expenditures associated with local trips under 50 miles.

Note: Resident and nonresident expenditures associated with shellfishing in Oregon.

Source: Dean Runyan Associates.

Table 3. Expenditures for Hunting in Oregon, 2008

Hunting	(Thousands)
<i>Travel-Generated Expenditures*</i>	
Accommodations	\$10,664
Food & Beverage Services	\$16,579
Food Stores	\$33,381
Ground Transportation	\$17,212
Retail	\$21,199
Outfitter/Guide/Charter Fees	\$2,435
Other Recreation & Entertainment	\$2,989
<i>Total Travel Expenditures</i>	<i>\$104,458</i>
<i>Local Recreation Expenditures**</i>	<i>\$31,574</i>

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Recreation expenditures associated with local trips under 50 miles.

Note: Resident and nonresident expenditures associated with hunting in Oregon.

Source: Dean Runyan Associates.

Table 4. Expenditures for Wildlife Viewing in Oregon, 2008

Wildlife Viewing	(Thousands)
<i>Travel-Generated Expenditures*</i>	
Accommodations	\$129,033
Food & Beverage Services	\$102,369
Food Stores	\$88,780
Ground Transportation	\$71,905
Retail	\$44,542
Outfitter/Guide/Charter Fees	...
Other Recreation & Entertainment	\$25,459
<i>Total Travel Expenditures</i>	<i>\$462,087</i>
<i>Local Recreation Expenditures**</i>	<i>\$33,173</i>

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Recreation expenditures associated with local trips under 50 miles.

... Sample size too small to report data reliably.

Note: Expenditures where wildlife viewing was a planned activity -- *the primary reason or one of several reasons* for the trip. Resident and nonresident expenditures associated with wildlife viewing in Oregon.

Source: Dean Runyan Associates.

Table 5. Equipment Expenditures in Oregon, 2008 (\$Millions)

	Fishing	Hunting	Shellfishing	Wildlife Viewing	Combined Activities
Equipment (hunting, fishing, etc.)	\$41.2	\$73.7	\$4.9	\$37.6	\$157.4
Clothing	\$17.8	\$26.7	\$4.4	\$31.6	\$80.6
Related Equipment	\$32.8	\$22.7	\$4.3	\$36.8	\$96.6
Specialized Equipment	\$342.7	\$234.3	\$117.8	\$349.4	\$1,044.1
Other Expenditures	\$6.8	\$24.6	\$4.3	\$38.3	\$74.0
Plants/Shrubs	\$0.0	\$0.0	\$0.0	\$34.2	\$34.2
Total Equipment Expenditures	\$441.4	\$381.9	\$135.7	\$528.0	\$1,486.9

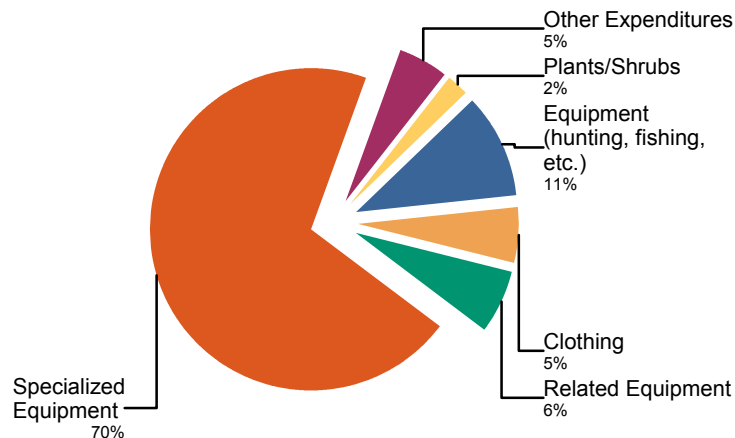
Note: Special Equipment includes boats, campers, ATVs and other recreation vehicles.

For Hunting, Other Expenditures may include meat processing, and taxidermy.

Plants/Shrubs include plants and materials purchased for wildlife habitat areas.

Source: Dean Runyan Associates.

Equipment Expenditures in Oregon, 2008



III. Oregon Travel Regions



Counties by Oregon Travel Region

North Coast	Willamette Valley	Southern	Eastern
Clatsop	Benton	Douglas (East)	Baker
Tillamook	Clackamas (South)	Jackson	Gilliam
	Lane (East)	Josephine	Grant
Central Coast	Linn	Klamath	Harney
Douglas (West)	Marion	Lake	Malheur
Lincoln	Polk		Morrow
Lane (West)	Yamhill	Central	Sherman
		Crook	Umatilla
South Coast	Portland Metro	Deschutes	Union
Coos	Clackamas (West)	Jefferson	Wallowa
Curry	Columbia	Wasco (South)	Wheeler
	Multnomah (West)		
	Washington	Mt. Hood/Gorge	
		Clackamas (East)	
		Multnomah (East)	
		Hood River	
		Wasco (North)	

The tables in this section provide detailed estimates for the regions of Oregon for 2008.

Table 6. Travel-Generated Expenditures by Activity for Oregon Travel Regions, 2008
(\$Million)

Region	Shell-fishing	Fishing	Hunting	Wildlife Viewing *	Combined Activities	All Oregon Travel**	Combined Activities (%)
Willamette Valley		\$26.7	\$17.3	\$52.1	\$96.1	\$1,347.4	7.1%
North Coast	\$13.3	\$44.4	\$4.7	\$74.1	\$136.5	\$585.9	23.3%
Central Coast	\$12.2	\$50.1	\$2.9	\$61.0	\$126.2	\$635.3	19.9%
South Coast	\$5.5	\$21.7	\$3.3	\$24.1	\$54.6	\$302.0	18.1%
Portland Metro/Columbia		\$18.1	\$12.3	\$56.6	\$87.0	\$3,413.4	2.5%
Southern		\$28.3	\$17.9	\$52.8	\$99.0	\$828.9	11.9%
Central		\$35.4	\$11.4	\$63.6	\$110.4	\$579.3	19.1%
Eastern		\$27.6	\$32.8	\$46.3	\$106.7	\$357.9	29.8%
Mt. Hood/Gorge		\$12.3	\$1.8	\$31.6	\$45.7	\$282.4	16.2%
State	\$31.0	\$264.6	\$104.4	\$462.2	\$862.2	\$8,332.5	10.3%

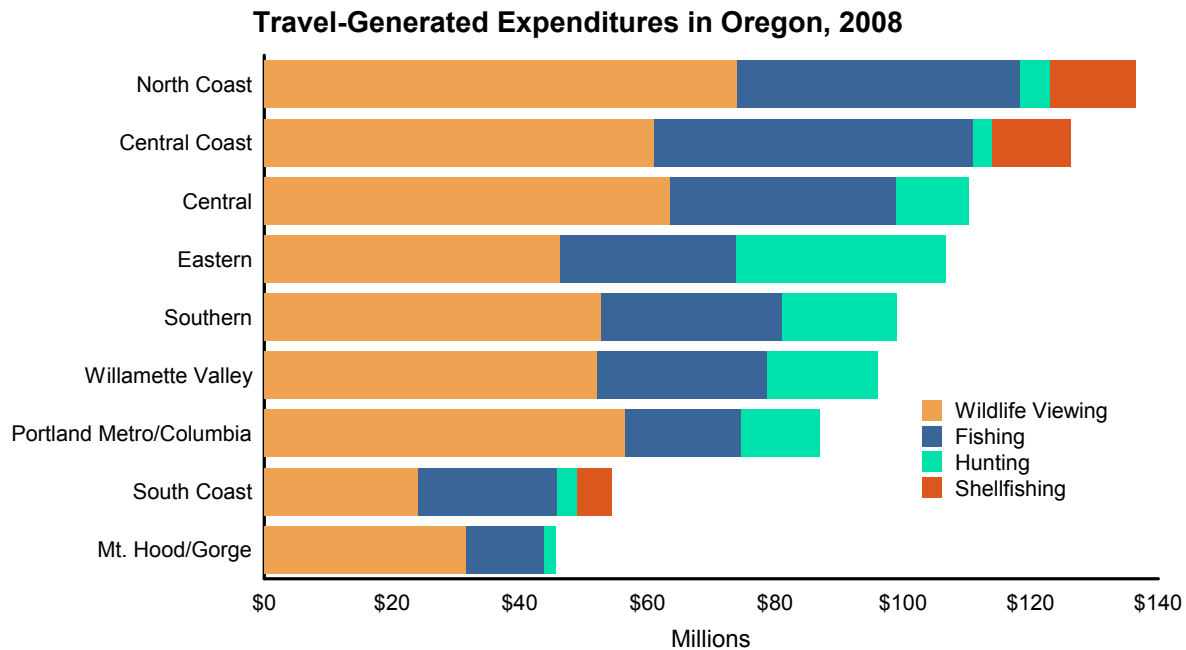
* Expenditures associated with overnight and day trips where wildlife viewing was *primary or one of several reasons* for the trip.

** All Oregon Travel expenditures based on Oregon Travel Impacts, 1991-2008p (statewide preliminary estimates).

Note: Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way). Resident and nonresident expenditures associated with all reported activities in Oregon.

The estimates of travel-generated expenditures by county in this report will necessarily differ somewhat from estimates generated from different models, methodologies, and data sources, including Oregon Travel Impacts.

Source: Dean Runyan Associates.



**Table 7. Local Recreation Expenditures by Activity for Oregon Travel Regions, 2008
(\$Million)**

Region	Shell-fishing	Fishing	Hunting	Wildlife Viewing *	Combined Activities
Willamette Valley		\$17.6	\$9.7	\$4.6	\$31.9
North Coast	\$2.0	\$3.6	\$1.2	\$4.3	\$11.1
Central Coast	\$1.7	\$5.0	\$0.9	\$4.9	\$12.5
South Coast	\$1.6	\$3.5	\$1.3	\$1.9	\$8.3
Portland Metro/Columbia		\$16.6	\$4.8	\$3.0	\$24.4
Southern		\$11.3	\$5.6	\$4.2	\$21.1
Central		\$7.3	\$2.9	\$1.9	\$12.1
Eastern		\$6.1	\$3.9	\$1.8	\$11.8
Mt. Hood/Gorge		\$6.0	\$1.3	\$6.6	\$13.9
State	\$5.3	\$77.0	\$31.6	\$33.2	\$147.1

* Expenditures associated with local trips where wildlife viewing was *primary* or *one of several reasons* for the trip.

Note: Any Nonresidents, who reported less than 50 miles, are included in Travel-Generated Expenditures. Local Recreation expenditures associated with trips under 50 miles.

Source: Dean Runyan Associates.

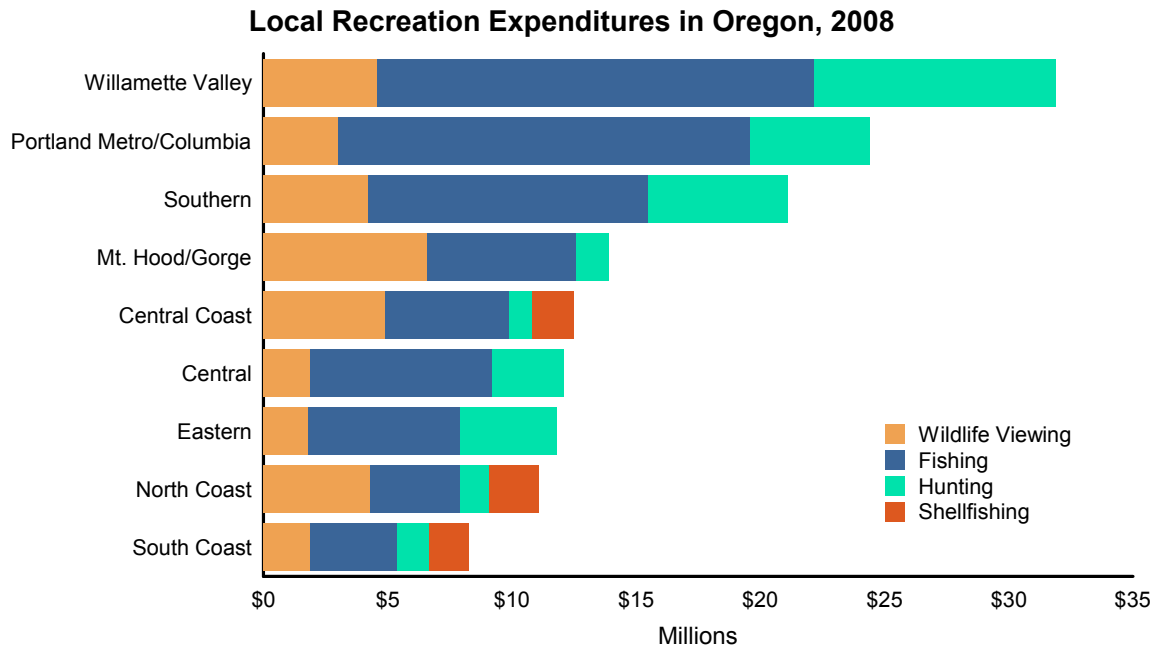


Table 8. Expenditures for Freshwater Fishing by Trip Type for Oregon Travel Regions, 2008

Region	Travel-Generated Expenditures* (\$Million)			Local Recreation Expenditures** (\$Million)
	Overnight	Day	Total	
Willamette Valley	\$14.4	\$12.3	\$26.7	\$17.6
North Coast	\$9.1	\$8.9	\$18.0	\$3.0
Central Coast	\$12.0	\$8.1	\$20.1	\$3.9
South Coast	\$6.3	\$2.7	\$9.0	\$2.6
Portland Metro/Columbia	\$8.9	\$9.2	\$18.1	\$16.6
Southern	\$16.8	\$11.5	\$28.3	\$11.3
Central	\$25.8	\$9.6	\$35.4	\$7.3
Eastern	\$20.6	\$7.0	\$27.6	\$6.1
Mt. Hood/Gorge	\$6.9	\$5.4	\$12.3	\$6.0
State	\$120.8	\$74.8	\$195.6	\$74.3

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

Note: Resident and nonresident expenditures associated with freshwater fishing in Oregon.
Source: Dean Runyan Associates.

Table 9. Expenditures for Saltwater Fishing by Trip Type for Oregon Travel Regions, 2008

Region	Travel-Generated Expenditures* (\$Million)			Local Recreation Expenditures** (\$Million)
	Overnight	Day	Total	
North Coast	\$18.3	\$8.1	\$26.4	\$0.6
Central Coast	\$19.9	\$10.1	\$30.0	\$1.1
South Coast	\$7.6	\$5.0	\$12.6	\$0.9
State	\$45.8	\$23.2	\$69.0	\$2.6

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

Note: Resident and nonresident expenditures associated with saltwater fishing in Oregon.
Source: Dean Runyan Associates.

Table 10. Expenditures for Shellfishing by Trip Type for Oregon Travel Regions, 2008

Region	Travel-Generated Expenditures* (\$Million)			Local Recreation Expenditures** (\$Million)
	Overnight	Day	Total	
North Coast	\$10.1	\$3.2	\$13.3	\$2.0
Central Coast	\$9.3	\$2.9	\$12.2	\$1.7
South Coast	\$4.7	\$0.8	\$5.5	\$1.6
State	\$24.1	\$6.9	31.0	\$5.3

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

Note: Resident and nonresident expenditures associated with shellfishing in Oregon.

Source: Dean Runyan Associates.

Table 11. Expenditures for Hunting by Trip Type for Oregon Travel Regions, 2008

Region	Travel-Generated Expenditures* (\$Million)			Local Recreation Expenditures** (\$Million)
	Overnight	Day	Total	
Willamette Valley	\$11.9	\$5.4	\$17.3	\$9.7
North Coast	\$3.4	\$1.3	\$4.7	\$1.2
Central Coast	\$2.2	\$0.7	\$2.9	\$0.9
South Coast	\$2.4	\$0.9	\$3.3	\$1.3
Portland Metro/Columbia	\$8.5	\$3.8	\$12.3	\$4.8
Southern	\$13.5	\$4.4	\$17.9	\$5.6
Central	\$9.0	\$2.4	\$11.4	\$2.9
Eastern	\$29.0	\$3.8	\$32.8	\$3.9
Mt. Hood/Gorge	\$1.4	\$0.4	\$1.8	\$1.3
State	\$81.3	\$23.1	\$104.4	\$31.6

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

Note: Resident and nonresident expenditures associated with hunting in Oregon.

Source: Dean Runyan Associates.

Table 12. Expenditures for Wildlife Viewing by Trip Type for Oregon Travel Regions, 2008

Region	Travel-Generated Expenditures* (\$Million)			Local Recreation Expenditures** (\$Million)
	Overnight	Day	Total	
Willamette Valley	\$40.7	\$11.4	\$52.1	\$4.6
North Coast	\$67.5	\$6.6	\$74.1	\$4.3
Central Coast	\$53.7	\$7.3	\$61.0	\$4.9
South Coast	\$20.8	\$3.3	\$24.1	\$1.9
Portland Metro/Columbia	\$44.2	\$12.4	\$56.6	\$3.0
Southern	\$44.2	\$8.6	\$52.8	\$4.2
Central	\$59.6	\$4.0	\$63.6	\$1.9
Eastern	\$42.8	\$3.5	\$46.3	\$1.8
Mt. Hood/Gorge	\$22.0	\$9.6	\$31.6	\$6.6
State	\$395.5	\$66.7	\$462.2	\$33.2

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

Note: Resident and nonresident expenditures associated with wildlife viewing in Oregon.

Source: Dean Runyan Associates.

IV. Oregon Counties



A description of the expenditure impact categories used in the detailed county tables follows:

Travel-Generated Expenditures by Activity includes the total travel spending made by Oregon residents and nonresidents in the county of destination, plus other specific trip-related purchases such as gasoline, food and beverages, and other retail purchases made before or while traveling to the destination. Expenditures for gasoline, food, and retail items made *before* the trip are allocated to the participant's home county. All other expenditures are allocated to the county in which the recreation activity occurred.

Local Recreation Expenditures by Activity includes the total recreation-related expenditures made by Oregon residents for day recreation activities less than 50 miles (one-way) from a participant's home.

The next five tables show detailed *Expenditures by Trip Type by County* for each of the five activities: freshwater fishing, saltwater fishing, shellfishing, hunting, and wildlife viewing. Trip types include overnight, day, and local recreation (less than 50 miles from participant's home).

Table 13. Travel-Generated Expenditures by Activity for Counties, 2008
(\$000s)

County	Shellfishing	Fishing	Hunting	Wildlife Viewing*	Combined Activities	All Oregon Travel**	Combined Activities (%)
Baker		\$5,670	\$4,524	\$8,259	\$18,452	\$47,851	38.6%
Benton		\$1,677	\$953	\$4,941	\$7,572	\$91,532	8.3%
Clackamas		\$7,158	\$4,421	\$21,632	\$33,211	\$435,661	7.6%
Clatsop	\$5,661	\$9,693	\$2,313	\$55,481	\$73,147	\$389,494	18.8%
Columbia		\$790	\$1,177	\$3,367	\$5,333	\$31,220	17.1%
Coos	\$4,552	\$12,253	\$2,535	\$14,111	\$33,452	\$183,020	18.3%
Crook		\$3,010	\$2,584	\$6,769	\$12,363	\$29,663	41.7%
Curry	\$1,020	\$9,374	\$728	\$10,022	\$21,145	\$100,025	21.1%
Deschutes		\$20,410	\$6,663	\$42,771	\$69,844	\$475,684	14.7%
Douglas	\$2,616	\$19,112	\$6,233	\$9,698	\$37,658	\$247,649	15.2%
Gilliam		...	...	...	\$548	\$3,812	14.4%
Grant		\$3,279	\$5,138	\$3,147	\$11,564	\$9,107	***
Harney		\$2,812	\$4,564	\$7,953	\$15,329	\$19,645	78.0%
Hood River		\$4,117	\$789	\$13,005	\$17,910	\$67,622	26.5%
Jackson		\$8,520	\$5,096	\$18,664	\$32,280	\$380,721	8.5%
Jefferson		\$4,010	\$730	\$9,596	\$14,336	\$55,014	26.1%
Josephine		\$3,432	\$1,558	\$6,695	\$11,685	\$121,530	9.6%
Klamath		\$5,741	\$3,179	\$13,993	\$22,913	\$130,820	17.5%
Lake		\$2,560	\$2,490	\$4,940	\$9,991	\$11,272	88.6%
Lane	\$1,840	\$17,642	\$7,907	\$27,570	\$54,959	\$580,771	9.5%
Lincoln	\$7,660	\$32,478	\$1,607	\$53,229	\$94,974	\$453,023	21.0%
Linn		\$3,070	\$2,776	\$4,114	\$9,959	\$117,906	8.4%
Malheur		\$3,996	\$2,157	\$1,345	\$7,498	\$47,102	15.9%
Marion		\$8,601	\$3,718	\$16,360	\$28,679	\$357,095	8.0%
Morrow		\$921	\$2,652	\$4,942	\$8,514	\$13,251	64.3%
Multnomah		\$7,955	\$3,387	\$31,511	\$42,853	\$2,803,647	1.5%
Polk		\$925	\$957	\$2,375	\$4,256	\$139,551	3.0%
Sherman		\$2,032	\$746	\$1,193	\$3,970	\$10,582	37.5%
Tillamook	\$7,689	\$34,710	\$2,477	\$18,569	\$63,446	\$161,523	39.3%
Umatilla		\$2,576	\$3,543	\$9,703	\$15,821	\$146,254	10.8%
Union		\$1,729	\$5,435	\$4,318	\$11,481	\$33,194	34.6%
Wallowa		\$2,821	\$2,771	\$5,172	\$10,765	\$26,778	40.2%
Wasco		\$13,607	\$2,099	\$7,800	\$23,506	\$85,449	27.5%
Washington		\$4,816	\$3,727	\$15,226	\$23,769	\$514,450	4.6%
Wheeler		\$1,462	\$1,168	...	\$2,776	\$3,539	78.4%
Yamhill		\$1,341	\$1,580	\$3,308	\$6,229	\$91,252	6.8%
State	\$31,039	\$264,605	\$104,458	\$462,087	\$862,188	\$8,416,710	10.2%

* Expenditures associated with overnight and day trips where wildlife viewing was *primary or one of several reasons* for the trip.

** All Oregon Travel expenditures based on Oregon Travel Impacts, 1991-2008p (statewide preliminary estimates).

*** Percent FHW exceeds 100 due to dispersed camping related activity not included in Oregon Travel Impacts.

.... Sample size too small to report data reliably.

Note: Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way). Resident and nonresident expenditures associated with all reported activities in Oregon. The estimates of travel-generated expenditures by county in this report will necessarily differ somewhat from estimates generated from different models, methodologies, and data sources, including Oregon Travel Impacts.

Source: Dean Runyan Associates.

Table 14. Local Recreation Expenditures by Activity for Counties, 2008
(\$000s)

County	Shellfishing	Fishing	Hunting	Wildlife Viewing*	Combined Activities
Baker		\$640	\$491	\$317	\$1,448
Benton		\$1,353	\$1,075	...	\$2,428
Clackamas		\$8,704	\$2,496	\$621	\$11,820
Clatsop	\$1,016	\$1,515	\$666	\$2,715	\$5,912
Columbia		...	...	\$134	\$133
Coos	\$1,081	\$2,551	\$905	\$1,637	\$6,175
Crook		\$999	\$683	\$218	\$1,900
Curry	\$483	\$935	\$413	\$309	\$2,140
Deschutes		\$5,321	\$1,817	\$1,520	\$8,657
Douglas	\$175	\$3,577	\$1,785	\$835	\$6,373
Gilliam		...	...	\$106	\$106
Grant		\$377	\$391	...	\$768
Harney		\$330	\$262	...	\$654
Hood River		\$1,960	\$282	\$3,249	\$5,492
Jackson		\$4,512	\$2,025	\$1,906	\$8,443
Jefferson		\$822	\$288	\$170	\$1,280
Josephine		\$1,600	\$745	\$648	\$2,993
Klamath		\$2,134	\$1,035	\$938	\$4,108
Lake		\$339	\$283	...	\$660
Lane	\$324	\$7,689	\$3,047	\$2,714	\$13,774
Lincoln	\$1,185	\$2,408	\$482	\$3,557	\$7,631
Linn		\$3,699	\$1,392	\$391	\$5,482
Malheur		\$1,062	\$460	\$167	\$1,689
Marion		\$3,586	\$1,660	\$1,408	\$6,654
Morrow		\$593	\$185	...	\$857
Multnomah		\$8,215	\$2,662	\$3,835	\$14,712
Polk		\$507	\$830	\$883	\$2,220
Sherman		\$198	\$223	...	\$420
Tillamook	\$992	\$2,080	\$541	\$1,607	\$5,221
Umatilla		\$1,541	\$990	\$741	\$3,271
Union		\$700	\$596	\$170	\$1,465
Wallowa		\$567	\$217	\$115	\$898
Wasco		\$645	\$278	\$945	\$1,868
Washington		\$3,584	\$1,489	\$796	\$5,868
Wheeler		\$139	\$103	...	\$255
Yamhill		\$2,025	\$778	\$330	\$3,133
State	\$5,256.33	\$76,905.23	\$31,574	\$33,172.99	\$146,908.27

* Expenditures associated with local trips where wildlife viewing was *primary* or *one of several reasons* for the trip.
 Sample size too small to report data reliably.

Note: Any Nonresidents, who reported less than 50 miles, are included in Travel-Generated Expenditures. Local Recreation expenditures associated with trips under 50 miles.

Source: Dean Runyan Associates.

Table 15. Expenditures for Freshwater Fishing by Trip Type for Counties, 2008

County	Travel-Generated Expenditures* (\$000s)			Local Recreation Expenditures** (\$000s)
	Overnight	Day	Total	
Baker	\$4,773	\$896	\$5,670	\$640
Benton	\$395	\$1,282	\$1,677	\$1,353
Clackamas	\$3,997	\$3,161	\$7,158	\$8,704
Clatsop	\$2,080	\$1,989	\$4,069	\$1,363
Columbia	\$423	\$367	\$790	...
Coos	\$2,714	\$1,842	\$4,555	\$1,885
Crook	\$2,300	\$710	\$3,010	\$999
Curry	\$3,545	\$907	\$4,452	\$673
Deschutes	\$15,854	\$4,557	\$20,410	\$5,321
Douglas	\$7,247	\$5,187	\$12,434	\$3,258
Gilliam	...	...	...	...
Grant	\$2,934	\$346	\$3,279	\$377
Harney	\$2,362	\$450	\$2,812	\$330
Hood River	\$1,238	\$2,879	\$4,117	\$1,960
Jackson	\$4,720	\$3,801	\$8,520	\$4,512
Jefferson	\$2,558	\$1,452	\$4,010	\$822
Josephine	\$1,926	\$1,507	\$3,432	\$1,600
Klamath	\$3,853	\$1,889	\$5,741	\$2,134
Lake	\$1,938	\$623	\$2,560	\$339
Lane	\$8,957	\$6,331	\$15,288	\$7,415
Lincoln	\$6,516	\$4,992	\$11,508	\$1,932
Linn	\$1,581	\$1,489	\$3,070	\$3,699
Malheur	\$2,811	\$1,185	\$3,996	\$1,062
Marion	\$4,923	\$3,678	\$8,601	\$3,586
Morrow	\$685	\$236	\$921	\$593
Multnomah	\$4,079	\$3,876	\$7,955	\$8,215
Polk	\$505	\$420	\$925	\$507
Sherman	\$1,785	\$247	\$2,032	\$198
Tillamook	\$7,026	\$6,913	\$13,939	\$1,618
Umatilla	\$1,054	\$1,522	\$2,576	\$1,541
Union	\$872	\$857	\$1,729	\$700
Wallowa	\$2,082	\$740	\$2,821	\$567
Wasco	\$9,056	\$4,551	\$13,607	\$645
Washington	\$2,207	\$2,609	\$4,816	\$3,584
Wheeler	\$948	\$514	\$1,462	\$139
Yamhill	\$573	\$768	\$1,341	\$2,025
State	\$120,798	\$74,789	\$195,587	\$74,293

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

.... Sample size too small to report data reliably.

Note: Resident and nonresident expenditures associated with freshwater fishing in Oregon.

Source: Dean Runyan Associates.

Table 16. Expenditures for Saltwater Fishing by Trip Type for Counties, 2008

County	Travel-Generated Expenditures* (\$000s)			Local Recreation Expenditures** (\$000s)
	Overnight	Day	Total	
Clatsop	\$3,991	\$1,633	\$5,624	\$152
Coos	\$3,587	\$4,111	\$7,698	\$667
Curry	\$4,019	\$902	\$4,921	\$262
Douglas	\$4,643	\$2,036	\$6,679	\$319
Lane	\$909	\$1,445	\$2,354	\$274
Lincoln	\$14,355	\$6,615	\$20,970	\$476
Tillamook	\$14,344	\$6,428	\$20,772	\$463
State	\$45,848	\$23,170	\$69,018	\$2,612

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

Note: Resident and nonresident expenditures associated with saltwater fishing in Oregon.
Source: Dean Runyan Associates.

Table 17. Expenditures for Shellfishing by Trip Type for Counties, 2008

County	Travel-Generated Expenditures* (\$000s)			Local Recreation Expenditures** (\$000s)
	Overnight	Day	Total	
Clatsop	\$3,999	\$1,662	\$5,661	\$1,016
Coos	\$3,770	\$782	\$4,552	\$1,081
Curry	\$972	\$48	\$1,020	\$483
Douglas	\$1,894	\$721	\$2,616	\$175
Lane	\$1,487	\$353	\$1,840	\$324
Lincoln	\$5,876	\$1,784	\$7,659	\$1,185
Tillamook	\$6,145	\$1,545	\$7,689	\$992
State	\$24,143	\$6,896	\$31,039	\$5,256

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

Note: Resident and nonresident expenditures associated with shellfishing in Oregon.
Source: Dean Runyan Associates.

Table 18. Expenditures for Hunting by Trip Type for Counties, 2008

County	Travel-Generated Expenditures* (\$000s)			Local Recreation Expenditures** (\$000s)
	Overnight	Day	Total	
Baker	\$4,010	\$514	\$4,524	\$491
Benton	\$612	\$341	\$953	\$1,075
Clackamas	\$3,112	\$1,309	\$4,421	\$2,496
Clatsop	\$1,661	\$652	\$2,313	\$666
Columbia	\$840	\$337	\$1,177	...
Coos	\$1,834	\$701	\$2,535	\$905
Crook	\$2,060	\$524	\$2,584	\$683
Curry	\$519	\$209	\$728	\$413
Deschutes	\$5,495	\$1,167	\$6,663	\$1,817
Douglas	\$4,758	\$1,475	\$6,233	\$1,785
Gilliam	...	...	...	...
Grant	\$4,748	\$390	\$5,138	\$391
Harney	\$4,215	\$349	\$4,564	\$262
Hood River	\$632	\$157	\$789	\$282
Jackson	\$3,879	\$1,217	\$5,096	\$2,025
Jefferson	\$512	\$217	\$730	\$288
Josephine	\$1,032	\$526	\$1,558	\$745
Klamath	\$2,321	\$858	\$3,179	\$1,035
Lake	\$2,114	\$377	\$2,490	\$283
Lane	\$5,687	\$2,220	\$7,907	\$3,047
Lincoln	\$1,167	\$441	\$1,607	\$482
Linn	\$1,879	\$897	\$2,776	\$1,392
Malheur	\$1,704	\$453	\$2,157	\$460
Marion	\$2,473	\$1,245	\$3,718	\$1,660
Morrow	\$2,377	\$275	\$2,652	\$185
Multnomah	\$2,320	\$1,067	\$3,387	\$2,662
Polk	\$647	\$310	\$957	\$830
Sherman	\$448	\$298	\$746	\$223
Tillamook	\$1,789	\$688	\$2,477	\$541
Umatilla	\$2,851	\$692	\$3,543	\$990
Union	\$4,896	\$539	\$5,435	\$596
Wallowa	\$2,553	\$217	\$2,771	\$217
Wasco	\$1,459	\$640	\$2,099	\$278
Washington	\$2,516	\$1,211	\$3,727	\$1,489
Wheeler	\$1,101	...	\$1,168	\$103
Yamhill	\$1,051	\$529	\$1,580	\$778
State	\$81,326	\$23,132	\$104,458	\$31,574

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

... Sample size too small to report data reliably.

Note: Resident and nonresident expenditures associated with hunting in Oregon.

Source: Dean Runyan Associates.

Table 19. Expenditures for Wildlife Viewing by Trip Type for Counties, 2008

County	Travel-Generated Expenditures* (\$000s)			Local Recreation Expenditures** (\$000s)
	Overnight	Day	Total	
Baker	\$7,709	\$550	\$8,259	\$317
Benton	\$4,556	\$385	\$4,941	...
Clackamas	\$19,013	\$2,619	\$21,632	\$621
Clatsop	\$51,349	\$4,132	\$55,481	\$2,715
Columbia	\$2,914	\$453	\$3,367	\$134
Coos	\$11,376	\$2,735	\$14,111	\$1,637
Crook	\$6,331	\$439	\$6,769	\$218
Curry	\$9,438	\$585	\$10,022	\$309
Deschutes	\$39,719	\$3,052	\$42,771	\$1,520
Douglas	\$7,909	\$1,788	\$9,698	\$835
Gilliam	...	\$163	\$163	\$106
Grant	\$3,107	...	\$3,147	...
Harney	\$7,825	\$128	\$7,953	...
Hood River	\$8,214	\$4,791	\$13,005	\$3,249
Jackson	\$14,803	\$3,861	\$18,664	\$1,906
Jefferson	\$9,247	\$349	\$9,596	\$170
Josephine	\$5,292	\$1,403	\$6,695	\$648
Klamath	\$12,269	\$1,725	\$13,993	\$938
Lake	\$4,842	...	\$4,940	...
Lane	\$21,961	\$5,609	\$27,570	\$2,714
Lincoln	\$47,820	\$5,409	\$53,229	\$3,557
Linn	\$3,010	\$1,104	\$4,114	\$391
Malheur	\$961	\$384	\$1,345	\$167
Marion	\$12,949	\$3,412	\$16,360	\$1,408
Morrow	\$4,774	\$168	\$4,942	...
Multnomah	\$22,487	\$9,025	\$31,511	\$3,835
Polk	\$762	\$1,613	\$2,375	\$883
Sherman	\$1,183	...	\$1,193	...
Tillamook	\$16,104	\$2,465	\$18,569	\$1,607
Umatilla	\$8,264	\$1,439	\$9,703	\$741
Union	\$3,934	\$384	\$4,318	\$170
Wallowa	\$4,967	\$205	\$5,172	\$115
Wasco	\$6,305	\$1,495	\$7,800	\$945
Washington	\$11,535	\$3,691	\$15,226	\$796
Wheeler	\$117	...	\$146	...
Yamhill	\$2,389	\$919	\$3,308	\$330
State	\$395,430	\$66,657	\$462,087	\$33,173

* Travel-generated expenditures associated with overnight and day trips 50+ miles (one-way).

** Local Recreation expenditures associated with trips under 50 miles.

... Sample size too small to report data reliably.

Note: Resident and nonresident expenditures associated with wildlife viewing in Oregon.

Source: Dean Runyan Associates.

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APPENDIX A

Trip Characteristics by Activity

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Table A-1. Travel Characteristics of Oregon Freshwater Anglers: 2008

	Oregon Residents				Nonresidents		
	Travel Characteristics			Local Recreation	Travel Characteristics		
	Overnight	Day	Total		Overnight	Day	Total
Purpose of Trip							
Primary Reason	63.7%	87.4%	74.9%	93.1%	72.5%	85.4%	78.2%
One Of Several Reasons	33.3%	11.3%	22.9%	5.9%	24.8%	8.6%	17.7%
Incidental Activity	2.9%	1.3%	2.1%	1.1%	2.7%	6.0%	4.1%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Type of Accommodation							
Hotel, Motel, Rented Cabin	72.3%	NA	72.3%	NA	51.4%	NA	51.4%
Campground/Camping	20.4%	NA	20.4%	NA	39.4%	NA	39.4%
Friends/Relatives	11.3%	NA	11.3%	NA	19.0%	NA	19.0%
Second Home	7.4%	NA	7.4%	NA	2.9%	NA	2.9%
Total *	111.4%		111.4%		112.7%		112.7%
Number of Nights							
1 Night	9.6%	NA	9.6%	NA	7.4%	NA	7.4%
2 Nights	28.8%	NA	28.8%	NA	16.9%	NA	16.9%
3-4 Nights	32.3%	NA	32.3%	NA	32.7%	NA	32.7%
5-6 Nights	13.1%	NA	13.1%	NA	23.0%	NA	23.0%
7-13 Nights	11.7%	NA	11.7%	NA	13.4%	NA	13.4%
14+ Nights	4.5%	NA	4.5%	NA	6.5%	NA	6.5%
Total	100.0%		100.0%		100.0%		100.0%
Miles Traveled							
less than 50	10.3%	NA	5.4%	100.0%	4.2%	20.5%	11.2%
50-99	28.7%	72.5%	49.5%	NA	11.3%	44.7%	25.6%
100-199	41.8%	22.8%	32.8%	NA	21.5%	16.9%	19.5%
200-299	12.1%	4.3%	8.4%	NA	12.9%	4.0%	9.1%
300+	7.1%	0.3%	3.9%	NA	50.1%	13.9%	34.5%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Average Party Size							
Number of Adults	2.6	2.2	2.4	2.0	2.6	2.0	2.3
with Oregon License	2.3	2.0	2.2	1.7	2.2	1.7	2.0
Number of Children	0.8	0.5	0.7	0.4	0.2	0.3	0.2
Travel Companions							
Just Myself	5.0%	6.7%	5.8%	12.8%	7.8%	5.5%	6.8%
Immediate Family Only	46.2%	38.0%	42.4%	36.1%	37.2%	30.3%	34.1%
Multiple Families	22.0%	20.3%	21.2%	14.8%	25.0%	27.0%	25.9%
Other Adult Friends	23.6%	29.6%	26.4%	30.2%	26.2%	32.2%	29.0%
Other	3.3%	5.5%	4.3%	6.0%	3.7%	4.9%	4.2%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Freshwater Species Fished							
Trout	66.6%	54.8%	61.0%	54.9%	46.9%	53.6%	49.9%
Salmon	21.2%	35.4%	27.9%	34.1%	24.4%	26.9%	25.5%
Steelhead	23.3%	34.3%	28.5%	35.9%	35.8%	29.5%	33.0%
Bass	22.6%	18.0%	20.4%	23.3%	17.9%	24.0%	20.6%
Sturgeon	7.1%	10.4%	8.6%	10.5%	6.2%	6.7%	6.4%
Other	13.6%	10.4%	12.1%	7.8%	14.9%	13.7%	14.3%
Total *	154.4%	163.3%	158.5%	166.5%	146.1%	154.4%	149.7%

* Detail may total more than 100% due to multiple response.

Note: Local Recreation represents local trips of less than 50 miles (one-way).

Source: Dean Runyan Associates.

Table A-2. Travel Characteristics of Oregon Saltwater Anglers: 2008

	Oregon Residents				Nonresidents		
	Travel Characteristics			Local Recreation	Travel Characteristics		
	Overnight	Day	Total		Overnight	Day	Total
Purpose of Trip							
Primary Reason	80.5%	87.1%	83.4%	94.2%	69.8%	85.1%	75.2%
One Of Several Reasons	19.5%	12.9%	16.6%	5.8%	30.2%	10.6%	23.3%
Incidental Activity	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%	1.5%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Type of Accommodation							
Hotel, Motel, Rented Cabin	36.2%	NA	36.2%	NA	39.2%	NA	39.2%
Campground/Camping	50.1%	NA	50.1%	NA	24.3%	NA	24.3%
Friends/Relatives	17.5%	NA	17.5%	NA	32.4%	NA	32.4%
Second Home	13.7%	NA	13.7%	NA	18.9%	NA	18.9%
Total *	117.5%		117.5%		114.8%		114.8%
Number of Nights							
1 Night	12.8%	NA	12.8%	NA	7.1%	NA	7.1%
2 Nights	31.9%	NA	31.9%	NA	21.2%	NA	21.2%
3-4 Nights	27.6%	NA	27.6%	NA	30.6%	NA	30.6%
5-6 Nights	6.0%	NA	6.0%	NA	9.4%	NA	9.4%
7-13 Nights	15.6%	NA	15.6%	NA	5.9%	NA	5.9%
14+ Nights	6.2%	NA	6.2%	NA	25.9%	NA	25.9%
Total	100.0%		100.0%		100.0%		100.0%
Miles Traveled							
less than 50	1.5%	NA	0.8%	100.0%	2.4%	18.4%	8.2%
50-99	43.9%	63.1%	52.7%	NA	25.9%	6.1%	18.7%
100-199	44.7%	34.9%	40.2%	NA	20.0%	20.4%	20.1%
200-299	7.0%	1.7%	4.6%	NA	22.4%	42.9%	29.9%
300+	3.0%	0.2%	1.7%	NA	29.4%	12.2%	23.1%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Average Party Size							
Number of Adults	2.8	2.6	2.7	2.1	2.6	1.3	1.3
with Oregon License	2.5	2.4	2.4	2.0	2.6	1.1	1.1
Number of Children	0.6	0.5	0.6	0.3	0.1	0.4	0.4
Travel Companions							
Just Myself	2.1%	0.8%	1.6%	6.3%	1.4%	2.0%	1.7%
Immediate Family Only	47.3%	38.9%	43.7%	22.5%	39.4%	22.4%	32.5%
Multiple Families	26.2%	17.5%	22.4%	16.2%	32.4%	28.6%	30.8%
Other Adult Friends	19.8%	38.0%	27.6%	51.5%	26.8%	46.9%	35.0%
Other	4.6%	4.8%	4.7%	3.5%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Saltwater Species Fished							
Salmon	65.0%	63.8%	43.5%	62.6%	69.8%	67.5%	70.4%
Halibut	22.8%	35.2%	19.2%	22.2%	26.7%	57.5%	34.1%
Tuna	17.5%	21.9%	13.2%	17.4%	27.9%	55.0%	39.3%
Rock/Bottom	49.2%	55.1%	35.0%	69.5%	45.3%	75.0%	57.8%
Perch	12.8%	13.7%	8.9%	11.9%	4.7%	7.5%	5.2%
Other	18.7%	17.0%	12.1%	13.7%	9.3%	5.0%	7.4%
Total *	186.0%	206.7%	131.8%	197.3%	183.7%	267.5%	214.1%

* Detail may total more than 100% due to multiple response.

Note: Local Recreation represents local trips of less than 50 miles (one-way).

Source: Dean Runyan Associates.

Table A-3. Travel Characteristics of Oregon Shellfishers: 2008

	Oregon Residents				Nonresidents		
	Travel Characteristics			Local Recreation	Travel Characteristics		
	Overnight	Day	Total		Overnight	Day	Total
Purpose of Trip							
Primary Reason	39.6%	74.3%	56.0%	89.5%	25.4%	40.8%	28.9%
One Of Several Reasons	54.5%	21.5%	38.9%	10.0%	60.2%	45.1%	56.8%
Incidental Activity	5.9%	4.3%	5.1%	0.6%	14.3%	14.1%	14.3%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Type of Accommodation							
Hotel, Motel, Rented Cabin	22.8%	NA	22.8%	NA	30.7%	NA	30.7%
Campground/Camping	50.4%	NA	50.4%	NA	58.2%	NA	58.2%
Friends/Relatives	15.2%	NA	15.2%	NA	19.3%	NA	19.3%
Second Home	20.3%	NA	20.3%	NA	9.4%	NA	9.4%
Total *	108.7%		108.7%		117.6%		117.6%
Number of Nights							
1 Night	13.5%	NA	13.5%	NA	1.7%	NA	1.7%
2 Nights	30.7%	NA	30.7%	NA	9.4%	NA	9.4%
3-4 Nights	24.5%	NA	24.5%	NA	17.1%	NA	17.1%
5-6 Nights	10.4%	NA	10.4%	NA	15.4%	NA	15.4%
7-13 Nights	9.8%	NA	9.8%	NA	25.2%	NA	25.2%
14+ Nights	11.2%	NA	11.2%	NA	31.2%	NA	31.2%
Total	100.0%		100.0%		100.0%		100.0%
Miles Traveled							
less than 50	3.4%	NA	1.8%	100.0%	0.4%	50.0%	12.3%
50-99	49.5%	69.9%	59.2%	NA	2.1%	9.2%	3.8%
100-199	35.6%	28.4%	32.2%	NA	16.7%	35.5%	21.2%
200-299	8.6%	1.2%	5.1%	NA	8.8%	0.0%	6.6%
300+	2.9%	0.5%	1.8%	NA	72.1%	5.3%	56.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Average Party Size							
Number of Adults	3.0	2.7	2.8	2.5	2.9	3.3	3.0
with Oregon License	2.7	2.5	2.6	2.5	2.4	2.9	2.5
Number of Children	0.7	0.5	0.6	0.5	0.6	0.3	0.5
Travel Companions							
Just Myself	1.9%	4.1%	3.0%	15.3%	4.3%	3.5%	4.2%
Immediate Family Only	39.6%	40.6%	40.1%	41.7%	59.7%	31.6%	54.2%
Multiple Families	22.0%	8.6%	15.6%	7.6%	20.3%	7.0%	17.7%
Other Adult Friends	33.4%	44.8%	38.8%	34.8%	15.6%	57.9%	24.0%
Other Travel Party	3.1%	1.8%	2.5%	0.7%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Shellfish Harvested							
Crabs	79.8%	71.4%	75.9%	70.0%	91.8%	92.4%	91.9%
Razor Clams	26.9%	28.7%	27.8%	30.1%	13.5%	22.7%	15.5%
Bay Clams	25.5%	12.8%	19.6%	28.5%	27.0%	34.8%	28.7%
Mussels	5.4%	2.1%	3.9%	3.4%	0.4%	1.5%	0.6%
Rock Scallops	0.7%	1.1%	0.9%	0.0%	0.0%	0.0%	0.0%
Sand/Mud Shrimps	6.1%	6.2%	6.1%	10.6%	0.0%	0.0%	0.0%
Other	0.9%	2.8%	1.8%	2.4%	0.4%	7.6%	1.9%
Total *	145.3%	125.1%	135.9%	145.0%	133.1%	159.0%	138.7%

* Detail may total more than 100% due to multiple response.

Note: Local Recreation represents local trips of less than 50 miles (one-way).

Source: Dean Runyan Associates.

Table A-4. Travel Characteristics of Oregon Hunters: 2008

	Oregon Residents				Nonresidents		
	Travel Characteristics			Local Recreation	Travel Characteristics		
	Overnight	Day	Total		Overnight	Day	Total
Purpose of Trip							
Primary Reason	91.5%	90.4%	91.1%	93.3%	93.6%	88.5%	91.6%
One Of Several Reasons	8.1%	9.1%	8.5%	6.1%	6.3%	9.3%	7.4%
Incidental Activity	0.4%	0.6%	0.5%	0.6%	0.1%	2.2%	0.9%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Type of Accommodation							
Hotel, Motel, Rented Cabin	13.3%	NA	13.3%	NA	30.1%	NA	30.1%
Campground/Camping	80.3%	NA	80.3%	NA	54.3%	NA	54.3%
Friends/Relatives	9.5%	NA	9.5%	NA	29.7%	NA	29.7%
Second Home	6.8%	NA	6.8%	NA	6.1%	NA	6.1%
Total *	109.9%		109.9%		120.2%		120.2%
Number of Nights							
1 Night	3.5%	NA	3.5%	NA	3.7%	NA	3.7%
2 Nights	13.9%	NA	13.9%	NA	13.6%	NA	13.6%
3-4 Nights	20.3%	NA	20.3%	NA	19.8%	NA	19.8%
5-6 Nights	20.3%	NA	20.3%	NA	19.7%	NA	19.7%
7-13 Nights	33.2%	NA	33.2%	NA	31.3%	NA	31.3%
14+ Nights	8.8%	NA	8.8%	NA	11.9%	NA	11.9%
Total	100.0%		100.0%		100.0%		100.0%
Miles Traveled							
less than 50	11.5%	NA	7.4%	100.0%	4.0%	17.6%	9.3%
50-99	22.4%	69.4%	39.0%	NA	9.0%	43.6%	22.4%
100-199	25.4%	24.3%	25.0%	NA	15.0%	20.0%	16.9%
200-299	20.5%	3.3%	14.4%	NA	14.0%	5.6%	10.7%
300+	20.1%	3.1%	14.1%	NA	58.1%	13.3%	40.7%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Average Party Size							
Number of Adults	2.8	2.2	2.5	2.0	2.5	2.3	2.4
with Oregon License	2.7	2.1	2.2	1.9	2.3	2.3	2.4
Number of Children	0.5	0.4	0.4	0.4	0.2	0.2	0.2
Travel Companions							
Just Myself	16.2%	6.5%	12.8%	3.2%	10.2%	2.2%	7.1%
Immediate Family Only	29.5%	41.7%	33.9%	36.1%	25.5%	24.3%	25.0%
Multiple Families	44.9%	38.1%	42.5%	38.1%	55.1%	58.3%	56.3%
Other Adult Friends	3.8%	2.4%	3.3%	2.2%	2.6%	3.2%	2.8%
Other Travel Party	5.6%	11.3%	7.6%	20.4%	6.6%	12.1%	8.7%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Game Hunted During Trip							
Deer	54.0%	54.2%	54.1%	68.0%	41.2%	20.8%	33.4%
Elk	58.3%	35.3%	50.3%	36.2%	39.3%	20.4%	32.1%
Wild Turkey	5.0%	5.8%	5.3%	5.9%	3.2%	2.2%	2.8%
Other Big Game	9.1%	10.2%	9.5%	9.1%	2.5%	1.5%	2.1%
Upland Game Birds	15.8%	23.7%	18.6%	18.2%	25.7%	48.0%	34.2%
Waterfowl	6.3%	11.0%	7.9%	18.3%	16.9%	22.2%	18.9%
Other	5.4%	7.9%	6.3%	4.2%	4.5%	6.0%	5.1%
Total *	153.9%	148.1%	151.8%	159.9%	133.3%	121.1%	128.7%

* Detail may total more than 100% due to multiple response.

Note: Local Recreation represents local trips of less than 50 miles (one-way).

Source: Dean Runyan Associates.

Table A-5. Travel Characteristics of Oregon Wildlife Viewers: 2008
(where wildlife viewing activity occurred)

	Oregon Residents			
	Travel Characteristics			Local Recreation
	Overnight	Day	Total	
Purpose of Trip				
Primary Reason	15.7%	20.5%	17.4%	22.5%
One Of Several Reasons	38.3%	38.6%	38.4%	47.9%
Incidental Activity	46.0%	40.9%	44.2%	29.6%
Total	100.0%	100.0%	100.0%	100.0%
Type of Accommodation				
Hotel, Motel, Rented Cabin	36.6%	NA	36.6%	NA
Campground/Camping	35.7%	NA	35.7%	NA
Friends/Relatives	13.7%	NA	13.7%	NA
Second Home	4.8%	NA	4.8%	NA
Other	15.2%	NA	15.2%	NA
Total *	106.0%		106.0%	
Number of Nights				
1 Night	24.3%	NA	24.3%	NA
2 Nights	37.3%	NA	37.3%	NA
3-4 Nights	21.3%	NA	21.3%	NA
5-6 Nights	8.2%	NA	8.2%	NA
7-13 Nights	5.9%	NA	5.9%	NA
14+ Nights	3.0%	NA	3.0%	NA
Total	100.0%		100.0%	
Miles Traveled				
less than 50	10.4%	NA	6.7%	100.0%
50-99	29.7%	76.2%	46.1%	NA
100-199	30.6%	17.8%	26.0%	NA
200-299	17.2%	2.8%	12.1%	NA
300+	12.2%	3.2%	9.0%	NA
Total	100.0%	100.0%	100.0%	100.0%
Average Party Size				
Number of Adults	2.8	2.6	2.7	2.4
Number of Children	1.2	0.5	0.9	0.8
Travel Companions				
Just Myself	7.4%	9.9%	8.3%	15.1%
Immediate Family Only	52.6%	58.3%	54.6%	56.8%
Multiple Families	15.7%	5.7%	12.1%	7.6%
Other Adult Friends	20.6%	25.6%	22.4%	18.2%
Other Travel Party	3.7%	0.6%	2.6%	2.3%
Total	100.0%	100.0%	100.0%	100.0%
Wildlife Viewed				
Birds	90.6%	88.4%	89.8%	85.4%
Land Animals	83.5%	76.9%	81.1%	71.4%
Marine Mammals	18.4%	17.1%	17.9%	10.5%
Marine Life/Tidepools	16.9%	14.4%	16.0%	9.0%
Fish	29.2%	23.3%	27.1%	27.2%
Amphibians/Reptiles	17.3%	8.7%	14.2%	11.9%
Other	4.4%	2.7%	3.8%	4.8%
Total *	260.3%	231.5%	250.0%	220.2%

* Detail may total more than 100% due to multiple response.

Note: Local Recreation represents local trips of less than 50 miles (one-way).

Source: Dean Runyan Associates.

Table A-6. Travel Characteristics of Oregon Wildlife Viewers : 2008
(where wildlife viewing was the primary reason of trip)

	Oregon Residents			Local Recreation
	Travel Characteristics			
	Overnight	Day	Total	
Purpose of Trip				
Primary Reason	100.0%	100.0%	100.0%	100.0%
One Of Several Reasons	0.0%	0.0%	0.0%	0.0%
Incidental Activity	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%
Type of Accommodation				
Hotel, Motel, Rented Cabin	16.4%	NA	16.4%	NA
Campground/Camping	48.0%	NA	48.0%	NA
Friends/Relatives	7.5%	NA	7.5%	NA
Second Home	0.0%	NA	0.0%	NA
Other	30.1%	NA	30.1%	NA
Total *	102.0%		102.0%	
Number of Nights				
1 Night	8.9%	NA	8.9%	NA
2 Nights	34.2%	NA	34.2%	NA
3-4 Nights	26.0%	NA	26.0%	NA
5-6 Nights	14.4%	NA	14.4%	NA
7-13 Nights	6.8%	NA	6.8%	NA
14+ Nights	9.6%	NA	9.6%	NA
Total	100.0%		100.0%	
Miles Traveled				
less than 50	10.6%	NA	6.5%	100.0%
50-99	36.2%	91.1%	57.6%	NA
100-199	23.4%	4.4%	16.0%	NA
200-299	16.3%	1.1%	10.4%	NA
300+	13.5%	3.3%	9.5%	NA
Total	100.0%	100.0%	100.0%	100.0%
Average Party Size				
Number of Adults	2.6	2.8	2.7	2.1
Number of Children	1.1	0.6	0.9	1.0
Travel Companions				
Just Myself	7.5%	16.8%	11.5%	31.3%
Immediate Family Only	45.9%	52.3%	48.6%	42.2%
Multiple Families	13.7%	9.3%	11.9%	7.8%
Other Adult Friends	24.7%	21.5%	23.3%	3.1%
Other Travel Party	8.2%	0.0%	4.7%	15.6%
Total	100.0%	100.0%	100.0%	100.0%
Wildlife Viewed				
Birds	82.9%	83.2%	83.0%	57.8%
Land Animals	80.8%	57.0%	70.8%	95.3%
Marine Mammals	12.3%	15.9%	13.8%	0.0%
Marine Life/Tidepools	9.6%	11.2%	10.3%	0.0%
Fish	29.5%	29.9%	29.6%	15.6%
Amphibians/Reptiles	19.2%	2.8%	12.3%	0.0%
Other	9.6%	5.6%	7.9%	0.0%
Total *	243.9%	205.6%	227.7%	168.7%

* Detail may total more than 100% due to multiple response.

Note: Local Recreation represents local trips of less than 50 miles (one-way).

Source: Dean Runyan Associates.

APPENDIX B

Demographics

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**Table B-1. Demographic Characteristics and Preferred Communication:
Residents versus Nonresidents**

	Hunters		Shellfishers		Anglers		Wildlife Viewers*
	Res.	Nonres.	Res.	Nonres.	Res.	Nonres.	Res.
Household Income							
UNDER \$25,000	8.3%	2.3%	10.7%	9.0%	13.4%	4.4%	16.2%
\$25,000-\$49,999	25.0%	11.3%	26.0%	16.0%	27.6%	15.8%	30.5%
\$50,000-\$74,999	28.2%	23.2%	29.1%	34.0%	25.5%	24.2%	21.9%
\$75,000-\$99,999	18.5%	19.5%	15.2%	23.0%	16.8%	20.5%	13.1%
\$100,000 OR MORE	20.0%	43.6%	19.0%	18.0%	16.7%	35.1%	18.2%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Education							
Some High School Or H.S. Diploma	32.3%	20.7%	28.5%	23.1%	29.6%	20.1%	23.1%
Some College Or 2-Year Degree	40.3%	33.9%	40.0%	43.3%	39.6%	31.2%	36.5%
Bachelors Degree	18.5%	27.7%	18.9%	20.2%	18.1%	24.9%	23.6%
Advanced Degree	8.9%	17.7%	12.6%	13.5%	12.6%	23.7%	16.8%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Preferred Communication with ODFW							
Email	14.4%	18.0%	14.7%	16.7%	13.0%	17.7%	24.3%
ODFW Printed Brochures	22.9%	16.9%	19.8%	23.5%	21.9%	14.8%	6.2%
Information At License Vendors	14.3%	6.0%	14.2%	14.7%	15.6%	14.0%	3.4%
ODFW Website	20.8%	30.5%	23.9%	19.6%	24.3%	26.4%	64.2%
Direct Mail	25.2%	26.1%	24.0%	23.5%	21.6%	24.1%	0.6%
Other	2.4%	2.5%	3.4%	2.0%	3.7%	3.0%	1.2%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Oregon Residents who reported either planned or unplanned wildlife viewing activity in 2008.

Note: Detail may total more than 100% due to multiple response.

Source: Dean Runyan Associates.

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APPENDIX C

Number of Trips and Days of Participation by Activity

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Table C-1. Freshwater Fishing Trips in Oregon by Type of Fish (in Thousands), 2008

	Trout	Salmon	Steelhead	Bass	Sturgeon	Other	Total
Willamette Valley							
Overnight	47	4	5	4	0	7	67
Day (50+ miles)	101	20	31	9	0	11	173
Local (under 50 miles)	280	81	103	101	13	19	597
North Coast							
Overnight	15	28	13	6	5	4	72
Day (50+ miles)	34	81	71	8	10	12	216
Local (under 50 miles)	39	28	18	5	11	0	101
Central Coast							
Overnight	29	26	17	13	6	7	97
Day (50+ miles)	40	61	45	26	12	11	194
Local (under 50 miles)	38	35	33	13	5	6	132
South Coast							
Overnight	8	20	12	4	0	1	46
Day (50+ miles)	9	14	10	15	0	2	52
Local (under 50 miles)	20	23	28	16	0	0	87
Portland Metro/Columbia							
Overnight	2	5	4	2	5	0	18
Day (50+ miles)	15	26	20	7	14	1	83
Local (under 50 miles)	82	194	135	35	109	9	564
Southern							
Overnight	72	3	10	15	2	7	109
Day (50+ miles)	107	24	38	25	0	13	207
Local (under 50 miles)	125	67	109	63	5	14	382
Central							
Overnight	126	5	26	22	0	16	195
Day (50+ miles)	114	16	35	15	0	11	191
Local (under 50 miles)	161	9	21	33	0	25	248
Eastern							
Overnight	52	8	17	50	3	26	156
Day (50+ miles)	49	5	12	42	4	26	139
Local (under 50 miles)	55	23	47	56	7	21	209
Mt. Hood/Gorge							
Overnight	15	9	16	8	3	4	56
Day (50+ miles)	35	35	32	9	18	3	131
Local (under 50 miles)	43	55	46	21	24	14	204
Statewide Total							
Overnight	367	107	119	125	25	74	817
Day (50+ miles)	505	283	294	156	60	90	1,386
Local (under 50 miles)	842	516	540	343	173	109	2,523
Total Trips	1,713	906	953	624	258	272	4,726

.... Sample size too small to report data reliably.

Note: Trip estimates are for Oregon residents and nonresidents. Detail may not add to total due to rounding.

Source: Dean Runyan Associates.

Table C-2. Saltwater Fishing Trips in Oregon by Type of Fish (in Thousands), 2008

	Salmon	Other Marine/Saltwater	Total
North Coast			
Overnight	64	11	76
Day (50+ miles)	68	35	103
Local (under 50 miles)	4	3	7
Central Coast			
Overnight	49	33	82
Day (50+ miles)	89	40	128
Local (under 50 miles)	11	1	12
South Coast			
Overnight	13	19	31
Day (50+ miles)	26	38	64
Local (under 50 miles)	4	7	11
Statewide Total			
Overnight	126	63	189
Day (50+ miles)	182	113	295
Local (under 50 miles)	20	11	31
Total Trips	328	186	514

.... Sample size too small to report data reliably.

Note: Trip estimates are for Oregon residents and nonresidents. Detail may not add to total due to rounding.
Source: Dean Runyan Associates.

Table C-3. Shellishing Trips in Oregon by Type of Harvest (in Thousands), 2008

	Crabs	Razor Clams	Bay Clams	Mussels	Rock Scallops	Sand/Mud Shrimps	Other	Total
North Coast								
Overnight	30	19	10	1	1	1	1	63
Day (50+ miles)	26	28	7	1	0	7	4	72
Local (under 50 miles)	27	20	11	0	0	6	0	64
Central Coast								
Overnight	38	6	9	3	0	1	0	57
Day (50+ miles)	49	3	4	5	1	1	1	64
Local (under 50 miles)	34	6	7	3	0	3	0	54
South Coast								
Overnight	17	4	6	1	0	2	0	29
Day (50+ miles)	11	1	5	0	0	1	1	19
Local (under 50 miles)	28	6	12	2	0	2	0	50
Statewide Total								
Overnight	84	30	26	5	1	4	1	149
Day (50+ miles)	86	32	16	5	1	9	6	155
Local (under 50 miles)	89	32	30	5	0	11	0	167
Total Trips	259	93	72	15	2	24	7	471

.... Sample size too small to report data reliably.

Note: Trip estimates are for Oregon residents and nonresidents. Detail may not add to total due to rounding.
Source: Dean Runyan Associates.

Table C-4. Hunting Trips in Oregon by Type of Game (in Thousands), 2008

	Deer	Elk	Other Big Game	Game Birds	Waterfowl	Wild Turkey	Other	Total
Willamette Valley								
Overnight	7	8	2	1	0	0	1	18
Day (50+ miles)	39	14	5	8	10	6	3	85
Local (under 50 miles)	136	51	18	23	46	14	7	294
North Coast								
Overnight	4	10	0	2	2	0	0	18
Day (50+ miles)	22	17	3	3	2	1	0	50
Local (under 50 miles)	15	13	2	4	2	0	0	37
Central Coast								
Overnight	3	6	2	0	0	1	0	12
Day (50+ miles)	6	7	1	4	5	0	0	23
Local (under 50 miles)	9	10	3	2	2	0	1	27
South Coast								
Overnight	1	4	1	0	0	0	1	7
Day (50+ miles)	8	5	3	2	0	0	0	19
Local (under 50 miles)	17	8	5	4	2	2	1	40
Portland Metro/Columbia								
Overnight	1	1	0	0	0	0	0	3
Day (50+ miles)	12	13	0	0	2	0	0	28
Local (under 50 miles)	58	42	5	12	26	0	2	144
Southern								
Overnight	20	15	2	6	2	2	2	49
Day (50+ miles)	39	19	9	16	6	2	2	92
Local (under 50 miles)	78	32	11	24	15	6	4	170
Central								
Overnight	18	12	2	2	1	1	2	38
Day (50+ miles)	19	14	1	7	5	2	4	52
Local (under 50 miles)	36	24	1	7	9	4	6	87
Eastern								
Overnight	53	66	10	20	6	7	7	169
Day (50+ miles)	30	30	7	28	6	5	5	111
Local (under 50 miles)	37	26	5	23	13	10	5	119
Mt. Hood/Gorge								
Overnight	4	1	0	1	0	1	1	9
Day (50+ miles)	5	3	2	3	0	1	2	15
Local (under 50 miles)	19	10	5	3	0	1	3	41
Statewide Total								
Overnight	110	123	19	32	12	12	13	322
Day (50+ miles)	181	121	32	71	37	17	15	475
Local (under 50 miles)	404	216	55	101	115	39	28	958
Total Trips	695	460	107	204	164	68	57	1,754

.... Sample size too small to report data reliably.

Note: Trip estimates are for Oregon residents and nonresidents. Detail may not add to total due to rounding.

Source: Dean Runyan Associates.

Table C-5. Wildlife Viewing Trips in Oregon by Type of Wildlife Viewed (in Thousands), 2008

	Birds	Land Animals*	Marine Mammals	Tidepools	Fish	Reptiles	Other	Total
Willamette Valley								
Overnight	123	114	...	...	42	18	6	316
Day (50+ miles)	163	141	...	...	27	5	5	364
Local (under 50 miles)	738	495	...	...	149	112	19	1,615
North Coast								
Overnight	259	192	87	139	86	34	0	797
Day (50+ miles)	120	104	28	28	40	16	8	344
Local (under 50 miles)	49	46	17	17	16	3	4	153
Central Coast								
Overnight	194	162	117	81	64	11	4	632
Day (50+ miles)	139	82	67	67	29	5	0	388
Local (under 50 miles)	111	63	44	40	36	4	4	301
South Coast								
Overnight	76	65	34	10	28	14	10	237
Day (50+ miles)	50	45	30	10	20	0	0	155
Local (under 50 miles)	69	46	33	25	25	10	5	214
Portland Metro/Columbia								
Overnight	85	63	...	...	6	0	0	154
Day (50+ miles)	119	96	...	...	16	8	0	239
Local (under 50 miles)	1,085	757	...	...	303	101	50	2,347
Southern								
Overnight	176	159	...	...	56	30	13	450
Day (50+ miles)	132	151	...	...	25	19	0	334
Local (under 50 miles)	451	419	...	...	63	73	31	1,048
Central								
Overnight	274	252	...	...	86	54	16	687
Day (50+ miles)	55	59	...	...	25	8	0	152
Local (under 50 miles)	167	202	...	...	63	35	0	480
Eastern								
Overnight	183	210	...	...	39	31	16	494
Day (50+ miles)	68	62	...	...	8	3	0	141
Local (under 50 miles)	170	188	...	...	23	6	6	393
Mt. Hood/Gorge								
Overnight	89	84	...	...	42	28	0	262
Day (50+ miles)	217	166	...	...	77	26	13	524
Local (under 50 miles)	192	156	...	...	82	18	18	476
Statewide Total								
Overnight	1,459	1,302	278	259	448	219	64	4,029
Day (50+ miles)	1,063	906	159	129	267	90	26	2,641
Local (under 50 miles)	3,032	2,372	208	154	761	362	138	7,027
Total Trips	5,554	4,580	645	541	1,477	671	229	13,697

* Land Animals include deer, elk, bear, squirrels, chipmunks.

... Sample size too small to report data reliably.

Note: Trip estimates are for Oregon residents and nonresidents. Detail may not add to total due to rounding.

Source: Dean Runyan Associates.

Table C-6. Days of Participation in Oregon by Type of Activity (in Thousands), 2008

	Fishing			Hunting	Wildlife	Total
	Shellfish	Saltwater	Freshwater			
Willamette Valley						
Overnight			277	104	947	1,327
Day (50+ miles)			173	85	364	621
Local (under 50 miles)			597	294	1,615	2,506
North Coast						
Overnight	282	319	295	103	2,392	3,391
Day (50+ miles)	72	103	216	50	344	784
Local (under 50 miles)	64	7	101	37	153	361
Central Coast						
Overnight	257	343	398	68	1,896	2,962
Day (50+ miles)	64	128	194	23	388	799
Local (under 50 miles)	54	12	132	27	301	526
South Coast						
Overnight	132	132	189	40	712	1,205
Day (50+ miles)	19	64	52	19	155	308
Local (under 50 miles)	50	11	87	40	214	401
Portland Metro/Columbia						
Overnight			74	15	463	552
Day (50+ miles)			83	28	239	350
Local (under 50 miles)			564	144	2,347	3,055
Southern						
Overnight			447	286	1,350	2,083
Day (50+ miles)			207	92	334	634
Local (under 50 miles)			382	170	1,048	1,600
Central						
Overnight			801	218	2,060	3,079
Day (50+ miles)			191	52	152	395
Local (under 50 miles)			248	87	480	815
Eastern						
Overnight			641	981	1,481	3,103
Day (50+ miles)			139	111	141	391
Local (under 50 miles)			209	119	393	721
Mt. Hood/Gorge						
Overnight			230	51	787	1,067
Day (50+ miles)			131	15	524	670
Local (under 50 miles)			204	41	476	721
Statewide Total						
Overnight	672	794	3,351	1,865	12,088	17,304
Day (50+ miles)	155	295	1,386	475	2,641	4,502
Local (under 50 miles)	167	31	2,523	958	7,027	10,508
Total Days	994	1,119	7,260	3,298	21,756	32,313

Note: Days of participation are for Oregon residents and nonresidents. Detail may not add to total due to rounding.
 Source: Dean Runyan Associates.

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APPENDIX D

Detailed Questionnaires

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Dear Angler License Holder:

The Oregon Department of Fish and Wildlife and the Oregon Tourism Commission are sponsoring an economic survey on the importance of wildlife related recreation to Oregon's economy. Information gathered from this survey will help increase the understanding of the economic impact anglers have on Oregon's economy. The results will also help ODFW, the Oregon Fish and Wildlife Commission and local governments to more accurately identify the potential economic impacts of changes in wildlife management activities and will help ensure continued hunting, fishing and wildlife viewing opportunities in Oregon.

As a 2008 Oregon angler license holder, we ask that you help us by providing information about your fishing experience(s) in Oregon. The answers you supply will be used for statistical purposes only and will be kept strictly confidential.

Your thoughtful responses to the survey questions are important and even if you have not yet fished in 2008, please complete the applicable question(s) and return the survey in the prepaid envelope provided. Deadline for returning the questionnaire is October 31, 2008.

Thank you in advance for taking the time to thoughtfully complete this survey.

Sincerely,

Roy Elicker
Director of ODFW

For the purposes of answering the following questions, "Fishing Trip" is defined as:

You left your house and during the time you were away, spent at least some time fishing before returning home; include both day and overnight trips.

1. Did you fish in Oregon during the six months from April 2008 through September 2008?

- No (If your answer is no, please go to question #16)
- Yes

2. Did you take any saltwater fishing trips in Oregon between April 2008 and September 2008?

- No (If your answer is no, please go to question #3)
- Yes →

Number of Overnight saltwater fishing trips	_____ # overnight trips-saltwater
Number of day trips — 50 or more miles from residence	_____ # 50+ mile day trips-saltwater
Number of local trips — less than 50 miles from residence	_____ # local trips-saltwater
Number of Total Saltwater Fishing Days	_____ # total saltwater fishing days
Number Days using a paid guide or outfitter -saltwater trips only	_____ # days using guide-saltwater trips

3. Did you take any **freshwater** fishing trips in Oregon between April 2008 and September 2008? (*Please do not include any trips mentioned in Question #2*)

No

Yes → Number of **Overnight** freshwater fishing trips _____ # overnight trips-freshwater
Number of **day trips** —50 or more miles from residence _____ # 50+mile day trips-freshwater
Number of **local trips** — less than 50 miles from residence _____ # local trips-freshwater
Number of **Total Freshwater Fishing Days** _____ # total freshwater fishing days
Number Days using a paid guide or outfitter _____ # days using guide-freshwater trips
-freshwater trips only

Please tell us about a **single specific overnight fishing trip** that is most typical of any overnight trips that you may have taken from April 2008 through September 2008.

No Overnight Trips – (If your answer is no, please go to question #10a)

4a. How many nights did you stay **overnight** in Oregon on this particular trip? _____ # number of nights

4b. Using the community list on the back page (pg. 4), please write the **number** of the community (or nearest community) where you stayed overnight (if you stayed in more than one place please indicate your **PRIMARY** location):

_____ # of community

4c. Approximately how many miles, (**one way**) from your residence did you travel on this overnight trip?

_____ # miles one way

4d. What type of accommodations in Oregon did you use while on this particular trip? (*Check **✓ all that apply***)

- Hotel, motel, lodge, bed and breakfast, rented home/cabin Home of friends/relatives
 Your own second home Campground/camping

5. For this overnight trip, was fishing: (*Check **✓ the one that best applies***)

- Primary reason for trip One of several reasons for this trip An incidental activity while on this trip

6. Which of the following best describes the people that accompanied you on this trip: (*Check **✓ the one that best applies***)

- My immediate family only Other adult friend(s) Multiple families Just myself
 Other (specify) _____

7. How many people were in your travel group on this overnight fishing trip?

(Count yourself but do not include other families or fishing partners/buddies who paid their own expenses.)

_____ # of **adults** (age 18 years or older) → _____ # adults with fishing license

_____ # of **children** (age 17 or younger)

8. Please indicate the species fished for during this overnight trip. (*Check **✓ all that apply***)

Freshwater

- Bass/Warm water Sturgeon
 Salmon Trout
 Steelhead Other _____

Marine/Saltwater

- Halibut Salmon
 Perch Tuna
 Rock/Bottom Other _____

9. Please estimate the dollar amount spent by **the group you traveled with that shared expenses for an average day** (total # of people in your answer to Q.7.) Please check "No Expenses" if you had no expenses for an item.

Single Specific Overnight Fishing Trip Expenses

	No Expenses	Average Expenses per travel group
Accommodations (hotel, motel room rentals, campground fees)	<input type="checkbox"/>	\$ _____ per day
Restaurants/Bars/Lounges (food/drink in restaurants and nightclubs, bars)	<input type="checkbox"/>	\$ _____ per day
Groceries, snacks (groceries, liquor and snacks/food from a store)	<input type="checkbox"/>	\$ _____ per day
Fuel/Gas/Transportation/Parking (car rental, fuel/gas for auto/boat/truck)	<input type="checkbox"/>	\$ _____ per day
Other Retail (bait, lures, gifts, clothing, souvenirs, etc.)	<input type="checkbox"/>	\$ _____ per day
Other Recreation & Entertainment (access fees, boat rental, admission fees, golf, etc.)	<input type="checkbox"/>	\$ _____ per day
Airfare (please provide total roundtrip airfare paid)	<input type="checkbox"/>	\$ _____ total amount
Paid Guide, Charter or Outfitter Fees (total paid on this trip)	<input type="checkbox"/>	\$ _____ total amount

Please tell us about a **single specific day fishing trip** that is most typical of **any** day trips that you may have taken from April 2008 through September 2008.

- No Day Trips – (Please go to Question #16)

- 10a. Using the community list on the back page (page 4), please write the **number** of the community (or closest community) to where you made the **most** trip-related purchases (e.g., restaurants, food stores, gasoline, etc). _____ # of community
- 10b. Approximately how many miles, (**one way**) from your residence did you travel on this day trip? _____ # miles one way

11. For this day trip, was fishing: (*Check the one that best applies*)

- Primary reason for trip One of several reasons for this trip An incidental activity while on this trip

12. Which of the following best describes the people that accompanied you on this day trip: (*Check the one that best applies*)

- My immediate family only Other adult friend(s) Multiple families Just myself
 Other (specify) _____

13. How many people were in your travel group on this day trip?

(Count yourself but do not include other families or fishing partners/buddies who paid their own expenses.)

_____ # of **adults** (age 18 years or older) → _____ # adults with fishing license
 _____ # of **children** (age 17 or younger)

14. Please indicate the species fished for during this day trip. (*Check all that apply*)

- | Freshwater | | Marine/Saltwater | |
|--|--------------------------------------|---|--------------------------------------|
| <input type="checkbox"/> Bass/Warm water | <input type="checkbox"/> Sturgeon | <input type="checkbox"/> Halibut | <input type="checkbox"/> Salmon |
| <input type="checkbox"/> Salmon | <input type="checkbox"/> Trout | <input type="checkbox"/> Perch | <input type="checkbox"/> Tuna |
| <input type="checkbox"/> Steelhead | <input type="checkbox"/> Other _____ | <input type="checkbox"/> Rock/Bottom Fish | <input type="checkbox"/> Other _____ |

15. Please estimate the dollar amount spent by **the group you traveled with that shared expenses for the day.** (total # of people in your answer to Q. 13) Please check "No Expenses" if you had no expenses for an item.

Single Specific Day Fishing Trip Expenses

	No Expenses	Average Expenses per travel group
Restaurants/Bars/Lounges (food/drink in restaurants and nightclubs, bars)	<input type="checkbox"/>	\$ _____ for the day
Groceries, snacks (groceries, liquor and snacks/food from a store)	<input type="checkbox"/>	\$ _____ for the day
Fuel/Gas/Transportation/Parking (car rental, fuel/gas for auto/boat/truck)	<input type="checkbox"/>	\$ _____ for the day
Other Retail (bait, lures, gifts, clothing, souvenirs, etc.)	<input type="checkbox"/>	\$ _____ for the day
Other Recreation & Entertainment (access fees, boat rental, admission fees, golf, etc.)	<input type="checkbox"/>	\$ _____ for the day
Paid Guide, Charter or Outfitter Fees	<input type="checkbox"/>	\$ _____ for the day

16. During the six months from April 2008 through September 2008, how much did your household spend in total in Oregon for the following items? (Please estimate the dollar amount as closely as possible.) Please check "No Expenses" if you had no expenses for an item.

Total Household Expenditures

	No Expenses	Expenses per household
Fishing Equipment (rods, reels, poles, lines, tackle, lures, electronics, etc.)	<input type="checkbox"/>	\$ _____ total
Clothing (waders, boots, vests, raingear, hats, gloves, etc.)	<input type="checkbox"/>	\$ _____ total
Related Equipment (camping equipment, safety gear, etc.)	<input type="checkbox"/>	\$ _____ total
Specialized Equipment (boats, campers, ATV, etc.)	<input type="checkbox"/>	\$ _____ total
Other Retail (processing, taxidermy costs, etc.)	<input type="checkbox"/>	\$ _____ total

17. Which of the following includes your total family income (before taxes) in 2007? (Check one answer only)
- Under \$25,000 \$25,000-\$49,999 \$50,000-\$74,999 \$75,000-\$99,999 \$100,000 or more

18. Please check your highest education level. (Check one answer only)
- Some high school or high school diploma Bachelors degree
- Some college or 2-year degree Advanced degree

19. What is your preferred way of communication with ODFW for information on fishing? (Check one answer only)
- Email (please provide) _____
- ODFW printed brochures or publications
- Information at license vendors
- ODFW Website
- Direct Mail _____
- Other (specify) _____

Community List → Use For Questions #4b and #10a

North Coast	Willamette Valley/Cascades	Southern	Eastern
2 Cannon Beach	16 Corvallis/Philomath	33 Grants Pass/Cave Junction	48 Baker City
3 Manzanita/Nehalem	17 Dallas/Monmounth	34 Klamath Falls	49 Boardman/Heppner
4 Seaside/Gearhart	18 Detroit	35 Lakeview/Paisley	50 Burns/Hines
5 Tillamook/Bay City	19 Eugene/Springfield/Cottage Grv.	36 Medford/Ashland	51 Enterprise/Joseph
6 Pacific City	20 McMinnville/Newberg	37 Roseburg/Canyonville	52 Fossil/Mitchell
Central Coast	21 Molalla	Central	53 John Day/Prairie City
7 Florence/Dunes City	22 Oakridge/Westfir	38 Bend/Redmond	54 La Grande/Elgin
8 Lincoln City/Depoe Bay	23 Salem/Keizer	39 Madras/Metolius	55 Ontario/Vale
9 Newport/Waldport	24 Silverton/Mt. Angel	40 Maupin	56 Pendleton/Hermiston
10 Reedsport	25 Sweet Home/Mill City	41 Prineville	57 Wasco/Moro/Grass Valley
South Coast	Portland Metro/Columbia	42 Sisters	
11 Bandon	26 Beaverton/Hillsboro/Tigard	Mt. Hood/Gorge	
12 Brookings	27 Forest Grove/Banks	43 Hood River/Cascade Locks	
13 Coos Bay/North Bend	28 Oregon City/Wilsonville	44 Sandy/Estacada/Welches	
14 Gold Beach/Port Orford	29 Portland/Gresham	45 The Dalles	
	30 St. Helens/Rainier/Scappoose	46 Troutdale	
	31 Sauvie Island		



Dear Hunting License Holder:

The Oregon Department of Fish and Wildlife and the Oregon Tourism Commission are sponsoring an economic survey on the importance of wildlife related recreation to Oregon's economy. Information gathered from this survey will help increase the understanding of the economic impact hunters have on Oregon's economy. The results will also help ODFW, the Oregon Fish and Wildlife Commission and local governments to more accurately identify the potential economic impacts of changes in wildlife management activities and will help ensure continued hunting, fishing and wildlife viewing opportunities in Oregon.

As a 2007 and/or 2008 Oregon hunting license holder, we ask that you help us by providing information about your hunting experience(s) in Oregon. The answers you supply will be used for statistical purposes only and will be kept strictly confidential.

Your thoughtful responses to the survey questions are important and even if you have not hunted in 2007 or 2008, please complete the applicable question(s) and return the survey in the prepaid envelope provided. Deadline for returning the questionnaire is May 19, 2008.

Thank you in advance for taking the time to thoughtfully complete this survey.

Sincerely,

Roy Elicker
Director of ODFW

For the purposes of answering the following questions, "Hunting Trip" is defined as:

You left your house and during the time you were away, spent at least some time hunting before returning home; include both day and overnight trips.

1. Did you hunt in Oregon during the twelve months from March 2007 through February 2008?

No (If your answer is no, please go to question # 14)

- Yes → Number of Overnight Trips _____ # overnight trips
- Number of Day Trips — 50 or more miles from residence _____ # 50+mile day trips
- Number of Local Trips — less than 50 miles from residence _____ # local trips
- Number of Total Hunting Days _____ # total days hunting
- Number Days using a paid guide or outfitter _____ # days using guide

Please tell us about a **single specific overnight hunting trip** that is most typical of any overnight trips that you may have taken from March 2007 through February 2008.

No Overnight Trips – (If your answer is no, please go to question # 8)

- 2a. How many nights did you stay **overnight** in Oregon on this particular trip? _____ # number of nights
- 2b. Using the community list on the back page (pg. 4), please write the **number** of the community (or nearest community) where you stayed overnight (if you stayed in more than one place please indicate your **PRIMARY** location):
 _____ # of community
- 2c. Approximately how many miles, (**one way**) from your residence did you travel on this overnight trip?
 _____ # miles one way
- 2d. What type of accommodations in Oregon did you use while on this particular trip? (*Check **✓ all that apply***)
- Hotel, motel, lodge, bed and breakfast, rented home/cabin Home of friends/relatives
 Your own second home Campground/camping
3. For this overnight trip, was hunting: (*Check **✓ the one that best applies***)
- Primary reason for trip One of several reasons for this trip An incidental activity while on this trip
4. Which of the following best describes the people that accompanied you on this trip: (*Check **✓ the one that best applies***)
- My immediate family only Other adult friend(s) Multiple families Just myself
 Other (specify) _____
5. How many people were in your travel group on this overnight hunting trip?
 (Count yourself but do not include other families or hunting partners/buddies who paid their own expenses.)
- _____ # of **adults** (age 18 years or older) ➔ _____ # adults with hunting license
 _____ # of **children** (age 17 or younger)
6. Please indicate the species hunted during this overnight trip. (*Check **✓ all that apply***)
- Deer Elk Other big game (specify) _____
 Waterfowl Upland game birds Wild turkey Other (specify) _____
7. Please estimate the dollar amount spent by **the group you traveled with that shared expenses for an average day** (total # of people in your answer to Q. 5.) Please check **✓ "No Expenses"** if you had no expenses for an item.

Single Specific Overnight Hunting Trip Expenses

	No Expenses	Average Expenses per travel group
Accommodations (hotel, motel room rentals, campground fees)	<input type="checkbox"/>	\$ _____ per day
Restaurants/Bars/Lounges (food/drink in restaurants and nightclubs, bars)	<input type="checkbox"/>	\$ _____ per day
Groceries, snacks (groceries, liquor, and snacks/food from a store)	<input type="checkbox"/>	\$ _____ per day
Fuel/Gas/Transportation/Parking (car rental, fuel/gas for auto/boat/truck)	<input type="checkbox"/>	\$ _____ per day
Other Retail (ammunition, game bags, gifts, clothing, souvenirs, etc.)	<input type="checkbox"/>	\$ _____ per day
Other Recreation & Entertainment (access fees, boat rental, admission fees, golf, etc.)	<input type="checkbox"/>	\$ _____ per day
Airfare (please provide total roundtrip airfare paid)	<input type="checkbox"/>	\$ _____ total amount
Paid Guide, Charter or Outfitter Fees (total paid on this trip)	<input type="checkbox"/>	\$ _____ total amount

Please tell us about a **single specific day hunting trip** that is most typical of **any** day trips that you may have taken from March 2007 through February 2008.

No Day Trips – (Please go to Question # 14)

8a. Using the community list on the back page (page 4), please write the **number** of the community (or closest community) to where you made the **most** trip-related purchases (e.g., restaurants, food stores, gasoline, etc). _____ # of community

8b. Approximately how many miles, (**one way**) from your residence did you travel on this day trip? _____ # miles one way

9. For this day trip, was hunting: (*Check **✓** the one that best applies*)

- Primary reason for trip One of several reasons for this trip An incidental activity while on this trip

10. Which of the following best describes the people that accompanied you on this day trip: (*Check **✓** the one that best applies*)

- My immediate family only Other adult friend(s) Multiple families Just myself
 Other (specify) _____

11. How many people were in your travel group on this day trip?

(Count yourself but do not include other families or hunting partners/buddies who paid their own expenses.)

_____ # of **adults** (age 18 years or older) ➔ _____ # adults with hunting license

_____ # of **children** (age 17 or younger)

12. Please indicate the species hunted during this day trip. (*Check **✓** all that apply*)

- Deer Elk Other big game (specify) _____
 Waterfowl Upland game birds Wild turkey Other (specify) _____

13. Please estimate the dollar amount spent by **the group you traveled with that shared expenses for the day.**

(total # of people in your answer to Q. 11) Please check **✓** “**No Expenses**” if you had no expenses for an item.

Single Specific Day Hunting Trip Expenses	No Expenses	Average Expenses per travel group
Restaurants/Bars/Lounges (food/drink in restaurants and nightclubs, bars)	<input type="checkbox"/>	\$ _____ for the day
Groceries, snacks (groceries, liquor, and snacks/food from a store)	<input type="checkbox"/>	\$ _____ for the day
Fuel/Gas/Transportation/Parking (car rental, fuel/gas for auto/boat/truck)	<input type="checkbox"/>	\$ _____ for the day
Other Retail (ammunition, game bags, gifts, clothing, souvenirs, etc.)	<input type="checkbox"/>	\$ _____ for the day
Other Recreation & Entertainment (access fees, boat rental, admission fees, golf, etc.)	<input type="checkbox"/>	\$ _____ for the day
Paid Guide, Charter or Outfitter Fees	<input type="checkbox"/>	\$ _____ for the day

14. During the **twelve months from March 2007 through February 2008**, how much did your household spend in total in **Oregon** for the following items?
(Please estimate the dollar amount as closely as possible.) Please check “No Expenses” if you had no expenses for an item.

Total Household Expenditures	No Expenses	Expenses per household
Hunting Equipment (firearms, bows/arrows, telescopic sights, decoys, etc.)	<input type="checkbox"/>	\$ _____ total
Clothing (waders, boots, vests, raingear, hats, gloves, etc.)	<input type="checkbox"/>	\$ _____ total
Related Equipment (camping equipment, safety gear, etc.)	<input type="checkbox"/>	\$ _____ total
Specialized Equipment (boats, campers, ATV, etc.)	<input type="checkbox"/>	\$ _____ total
Other Retail (meat processing, taxidermy costs, etc.)	<input type="checkbox"/>	\$ _____ total

15. Which of the following includes your total family income (before taxes) in 2007? *(Check one answer only)*
- Under \$25,000 \$25,000-\$49,999 \$50,000-\$74,999 \$75,000-\$99,999 \$100,000 or more

16. Please check your highest education level. *(Check one answer only)*
- Some high school or high school diploma Bachelors degree
 Some college or 2-year degree Advanced degree

17. What is your preferred way of communication with ODFW for information on hunting? *(Check one answer only)*
- Email (please provide) _____ ODFW Website
 ODFW printed brochures or publications Direct Mail
 Information at license vendors Other (specify)

Community List → Use For Questions # 2b and # 8a

North Coast	Willamette Valley/Cascades	Southern	Eastern
2 Cannon Beach	16 Corvallis/Philomath	33 Grants Pass/Cave Juncti	48 Baker City
3 Manzanita/Nehalem	17 Dallas/Monmouth	34 Klamath Falls	49 Boardman/Heppler
4 Seaside/Gearhart	18 Detroit	35 Lakeview/Paisley	50 Burns/Hines
5 Tillamook/Bay City	19 Eugene/Springfield/Cottage Grv.	36 Medford/Ashland	51 Enterprise/Joseph
6 Pacific City	20 McMinnville/Newberg	37 Roseburg/Canyonville	52 Fossil/Mitchell
Central Coast	21 Molalla	Central	53 John Day/Prairie City
7 Florence/Dunes City	22 Oakridge/Westfir	38 Bend/Redmond	54 La Grande/Elgin
8 Lincoln City/Depoe Bay	23 Salem/Keizer	39 Madras/Metolius	55 Ontario/Vale
9 Newport/Waldport	24 Silverton/Mt. Angel	40 Maupin	56 Pendleton/Hermiston
10 Reedsport	25 Sweet Home/Mill City	41 Prineville	57 Wasco/Moro/Grass Valley
South Coast	Portland Metro/Columbia	42 Sisters	
11 Bandon	26 Beaverton/Hillsboro/Tigard	Mt. Hood/Gorge	
12 Brookings	27 Forest Grove/Banks	43 Hood River/Cascade Locks	
13 Coos Bay/North Bend	28 Oregon City/Wilsonville	44 Sandy/Estacada/Welches	
14 Gold Beach/Port Orford	29 Portland/Gresham	45 The Dalles	
	30 St. Helens/Rainier/Scappoose	46 Troutdale	
	31 Sauvie Island		

If there is anything else that you would like to share with ODFW, please use the space below:



Dear Shellfish License Holder:

The Oregon Department of Fish and Wildlife and the Oregon Tourism Commission are sponsoring an economic survey on the importance of wildlife related recreation to Oregon's economy. Information gathered from this survey will help increase the understanding of the economic impact that crabbing, clamming and other shellfishing have on Oregon's economy. The results will also help ODFW, the Oregon Fish and Wildlife Commission and local governments to more accurately identify the potential economic impacts of changes in wildlife management activities and will help ensure continued hunting, fishing, shellfishing, and wildlife viewing opportunities in Oregon.

As a 2007 and/or 2008 Oregon shellfish license holder, we ask that you help us by providing information about your shellfishing experience(s) in Oregon. The answers you supply will be used for statistical purposes only and will be kept strictly confidential.

Your thoughtful responses to the survey questions are important and **even if you have not taken a crab, clam or other shellfish trip in 2007 or 2008, please complete the applicable question(s) and return the survey in the prepaid envelope provided.** Deadline for returning the questionnaire is October 20, 2008.

Thank you in advance for taking the time to thoughtfully complete this survey.

Sincerely,

Roy Elicker
Director of ODFW

For the purposes of answering the following questions, **“Crab, Clam or Other Shellfish Trip”** is defined as:

You left your house and during the time you were away, spent at least some time shellfishing before returning home; include both day and overnight trips.

1. Did you participate in crabbing, clamming or other shellfish harvesting in Oregon during the twelve months from **September 1, 2007 through September 1, 2008?**

- No (If your answer is no, please go to question # 14)
- Yes → Number of **Overnight Trips** _____ # overnight trips
- Number of **Day Trips —50 or more miles from residence** _____ # 50+ mile day trips
- Number of **Local Trips — less than 50 miles from residence** _____ # local trips
- Number of **Total Shellfish Days** _____ # total days shellfishing
- Number Days using a paid guide or outfitter _____ # days using guide

Please tell us about a **single specific overnight crab, clam or other shellfish trip in Oregon** that is most typical of any overnight trips that you may have taken from September 1, 2007 through September 1, 2008.

No Overnight Trips – (If your answer is no, please go to question # 8)

- 2a. How many nights did you stay **overnight** in Oregon on this particular trip? _____ # number of nights
- 2b. Using the community list on the back page (**page 4**), please write the **number** of the community (or closest community) where you stayed overnight: (if you stayed in more than one place please indicate your PRIMARY location)
 _____ # of community
- 2c. Approximately how many miles, (**one way**) from your residence did you travel on this overnight trip?
 _____ # miles one way
- 2d. What type of accommodations in Oregon did you use while on this particular trip? (Check *√ all that apply*)
- Hotel, motel, lodge, bed and breakfast, rented home/cabin Home of friends/relatives
 Your own second home Campground/camping
3. For this overnight trip, was shellfishing? (Check *√ the one that best applies*)
- Primary reason for trip One of several reasons for this trip An incidental activity while on this trip
4. Which of the following best describes the people that accompanied you on this trip? (Check *√ the one that best applies*)
- My immediate family only Other adult friend(s) Multiple families Just myself
 Other (specify) _____
5. How many people were in your travel group on this overnight shellfishing trip?
 (Count yourself but do not include other families or partners/buddies who paid their own expenses.)
 _____ # of **adults** (age 18 years or older) → _____ # adults with shellfish license
 _____ # of **children** (age 17 or younger)
6. Please indicate the species harvested during this overnight trip: (Check *√ all that apply*)
- Crabs Bay clams Razor clams Sand/mud shrimp
 Mussels Abalone Rock scallops Other (specify) _____
7. Please estimate the dollar amount spent by **the group you traveled with that shared expenses for an average day.**
 (total # of people in your answer to Q. 5) Please check *√ "No Expenses"* if you had no expenses for an item.

Single Specific Overnight Shellfishing Trip Expenses

	No Expenses	Average Expenses per travel group
Accommodations (hotel, motel room rentals, campground fees)	<input type="checkbox"/>	\$ _____ per day
Restaurants/Bars/Lounges (food/drink in restaurants and nightclubs, bars)	<input type="checkbox"/>	\$ _____ per day
Groceries, snacks (groceries, liquor, and snacks/food from a store)	<input type="checkbox"/>	\$ _____ per day
Fuel/Gas/Transportation/Parking (car rental, fuel/gas for auto/boat/truck)	<input type="checkbox"/>	\$ _____ per day
Other Retail (bait, traps, gifts, clothing, souvenirs, dive shop, etc.)	<input type="checkbox"/>	\$ _____ per day
Other Recreational & Entertainment (access fees, boat rental, admission fees, golf, etc.)	<input type="checkbox"/>	\$ _____ per day
Airfare (please provide total roundtrip airfare paid)	<input type="checkbox"/>	\$ _____ total amount
Paid Guide, Charter or Outfitter Fees (total paid on this trip)	<input type="checkbox"/>	\$ _____ total amount

Please tell us about a **single specific crab, clam or other shellfish day trip** that is most typical of **any** day trips that you may have taken from September 1, 2007 through September 1, 2008.

No Day Trips – (Please go to Question # 14)

8a. Using the community list on the back page (**page 4**), please write the **number** of the community (or closest community) to where you made the *most* trip-related purchases (e.g., restaurants, food stores, gasoline, etc.) _____ # of community

8b. Approximately how many miles, (**one way**) from your residence did you travel on this day trip? _____ # miles one way

9. For this day trip, was shellfishing? (Check *the one that best applies*)

- Primary reason for trip One of several reasons for this trip An incidental activity while on this trip

10. Which of the following best describes the people that accompanied you on this day trip? (Check *the one that best applies*)

- My immediate family only Other adult friend(s) Multiple families Just myself
 Other (specify) _____

11. How many people were in your travel group on this day trip?

(Count yourself but do not include other families or partners/buddies who paid their own expenses.)

_____ # of **adults** (age 18 years or older) → _____ # adults with shellfish license

_____ # of **children** (age 17 or younger)

12. Please indicate the species harvested during this day trip: (Check *all that apply*)

- Crabs Bay clams Razor clams Sand/mud shrimp
 Mussels Abalone Rock scallops Other (specify) _____

13. Please estimate the dollar amount spent by **the group you traveled with that shared expenses for the day.**

(total # of people in your answer to Q. 11) Please check **“No Expenses”** if you had no expenses for an item.

Single Specific Day Shellfishing Trip Expenses

	No Expenses	Average Expenses per travel group
Restaurants/Bars/Lounges (food/drink in restaurants and nightclubs, bars)	<input type="checkbox"/>	\$ _____ for the day
Groceries, snacks (groceries, liquor, and snacks/food from a store)	<input type="checkbox"/>	\$ _____ for the day
Fuel/Gas/Transportation/Parking (car rental, fuel/gas for auto/boat/truck)	<input type="checkbox"/>	\$ _____ for the day
Other Retail (traps, bait, gifts, clothing, souvenirs, dive shop, etc.)	<input type="checkbox"/>	\$ _____ for the day
Other Recreational & Entertainment (access fees, boat rental, admission fees, golf, etc.)	<input type="checkbox"/>	\$ _____ for the day
Paid Guide, Charter or Outfitter Fees	<input type="checkbox"/>	\$ _____ for the day

14. During the **twelve months from September 1, 2007 through September 1, 2008**, how much did **your household spend in total in Oregon** for the following items?

(Please estimate the dollar amount as closely as possible.) Please check **“No Expenses”** if you had no expenses for an item.

Total Household Expenditures	No Expenses	Expenses per household
Shellfish Equipment (traps, buoys, shovel, rakes, nets, clam bags, rings, etc.)	<input type="checkbox"/>	\$ _____ total
Clothing (waders, boots, vests, raingear, hats, gloves, etc.)	<input type="checkbox"/>	\$ _____ total
Related Equipment (camping equipment, safety gear, etc.)	<input type="checkbox"/>	\$ _____ total
Specialized Equipment (boats, campers, ATV, SCUBA, etc.)	<input type="checkbox"/>	\$ _____ total
Other Retail (meat processing, propane, etc.)	<input type="checkbox"/>	\$ _____ total

15. Which of the following includes your total family income (before taxes) in 2007? (Check **one answer only**)

- Under \$25,000 \$25,000-\$49,999 \$50,000-\$74,999 \$75,000-\$99,999 \$100,000 or more

16. Please check your highest education level: (Check **one answer only**)

- Some high school or high school diploma Bachelors degree
 Some college or 2-year degree Advanced degree

17. What is your preferred way of communication with ODFW for information on shellfishing? (Check **one answer only**)

- Email (please provide) _____ ODFW Website
 ODFW printed brochures or publications Direct Mail
 Information at license vendors Other (specify) _____

Community List → Use For Questions # 2b and # 8a

North Coast

- 1 Astoria/Warrenton
- 2 Cannon Beach
- 3 Manzanita/Nehalem
- 4 Seaside/Gearhart
- 5 Tillamook/Netarts/Bay City
- 6 Pacific City

Central Coast

- 7 Florence/Dunes City
- 8 Lincoln City/Depoe Bay
- 9 Newport/Waldport/Yachats
- 10 Reedsport

South Coast

- 11 Bandon
- 12 Brookings
- 13 Coos Bay/North Bend
- 14 Gold Beach/Port Orford

Willamette Valley/Cascades

- 15 Albany/Lebanon
- 16 Corvallis/Philomath
- 17 Dallas/Monmounth
- 18 Detroit
- 19 Eugene/Springfield/Cottage Grv.
- 20 McMinnville/Newberg
- 21 Molalla
- 22 Oakridge/Westfir
- 23 Salem/Keizer
- 24 Silverton/Mt. Angel
- 25 Sweet Home/Mill City

Portland Metro/Columbia

- 26 Beaverton/Hillsboro/Tigard
- 27 Forest Grove/Banks
- 28 Oregon City/Wilsonville
- 29 Portland/Gresham
- 30 St. Helens/Rainier/Scappoose
- 31 Sauvie Island

Southern

- 32 Gold Hill/Rogue River
- 33 Grants Pass/Cave Junction
- 34 Klamath Falls
- 35 Lakeview/Paisley
- 36 Medford/Ashland
- 37 Roseburg/Canyonville

Central

- 38 Bend/Redmond
- 39 Madras/Metolius
- 40 Maupin
- 41 Prineville
- 42 Sisters

Mt. Hood/Gorge

- 43 Hood River/Cascade Locks
- 44 Sandy/Estacada/Welches
- 45 The Dalles
- 46 Troutdale

Eastern

- 47 Arlington/Condon
- 48 Baker City
- 49 Boardman/Heppner
- 50 Burns/Hines
- 51 Enterprise/Joseph
- 52 Fossil/Mitchell
- 53 John Day/Prairie City
- 54 La Grande/Elgin
- 55 Ontario/Vale
- 56 Pendleton/Hermiston
- 57 Wasco/Moro/Grass Valley

APPENDIX E

Sample Design

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Sample Design

Appendix E describes the sampling design for the study and describes the approach taken to produce findings from the completed questionnaires. For each recreation activity, the sample design and timing of the questionnaire mailings and telephone interviews (in the case of wildlife viewing participants) was designed to provide the seasonal data most appropriate to represent each recreation activity, which was then reported as findings for calendar year 2008.

Fishing

The sample of self-administered questionnaires for fishing was mailed in two waves in order to collect detailed data for a twelve-month period October, 2007 through September, 2008: First, in May, 2008 for activity that occurred from October, 2007 - March, 2008 (fall/winter season), and next in November, 2008 for activity that occurred from April - September, 2008 (spring/summer season). The sample was randomly selected from the ODFW fishing license database after adjusting in order to eliminate duplicate mailing addresses. A sample of 24,911 questionnaires was received (via mail) by Oregon residents and nonresidents from the ODFW fishing license database. The sample was stratified in order to obtain a reliable sample of *both* Oregon residents and nonresidents. Approximately 4,533 questionnaires were returned for a response rate of 18 percent.

Hunting

The sample of self-administered questionnaires for hunting was mailed in one wave (in March, 2008) to collect detailed data for hunting activity that occurred during the twelve-month period from March 2007 through February 2008. The sample was randomly selected from the ODFW hunting license database after adjusting in order to eliminate duplicate mailing addresses. A sample of 19,833 questionnaires was received (via mail) by Oregon residents and nonresidents from the ODFW hunting license database. The sample was stratified in order to obtain a reliable sample of *both* Oregon residents and nonresidents. Approximately 5,200 questionnaires were returned for a response rate of 26 percent.

Wildlife Viewing

The sample was selected through a random digit-dial telephone survey (to include non-listed and unpublished telephone numbers) of Oregon resident 18 years and older. The sample of telephone interview was conducted in four waves to coincide with each season with the first wave conducted in March, 2008 to capture wildlife viewing activity during the winter months of the year (Dec.-Feb.), the second wave conducted in June, 2008 to capture spring activity (Mar.-May), the third wave conducted in September, 2008 to capture summer activity (Jun.-Aug.), and the final wave conducted in December, 2008 to capture fall activity (Sep.-Nov.). A sample of 1,624 Oregon residents agreed to be interviewed and 1,000 interviews were completed for a response rate of 62%. In addition, the sample was stratified geographically in order to obtain a representative sample of residents throughout the state.

Shellfishing

The sample of self-administered questionnaires for shellfish harvesting was mailed in one wave (in September, 2008) to collect detailed data for shellfish harvest activity that occurred during the twelve-month period from September 2007 through August 2008. The sample was randomly selected from the ODFW shellfish license database after adjusting in order to eliminate duplicate mailing addresses. A sample of 3,224 questionnaires was received (via mail) by Oregon residents and nonresidents from the ODFW hunting license database. The sample was stratified in order to obtain a reliable sample of *both* Oregon residents and nonresidents. Approximately 1,000 questionnaires were returned for a response rate of 35 percent.

Geographic Allocation

Detailed findings for number of trips, days of participation, and expenditures are based on an allocation of the total number of trips taken during twelve-month period, as reported by the participants. Trip expenditure data was applied to locations throughout the state (regions and counties) based on the community (or nearest community) reported for as the primary location where participant spent the night overnight stay or in the case of day trip, the community where the most trip-related purchases were made.

Confidence levels

Generally, representative samples of 1,000 or more provide very reliable results. Confidence levels for respondent segments are shown in the table below.

Segment	Sample Size	Confidence Level (%)	
		90% Level (+/-)	95% Level (+/-)
Hunters	5,200	1.2	1.4
Fishers	4,533	1.3	1.5
Shellfishers	1,122	2.6	3.0
OR Households	1,000	2.6	3.1

Nonresponse Bias

The effect of nonresponse error was measured directly through the use of telephone interviews for each of the three recreation activities that were reported through use the self administered questionnaires (fishing, hunting, and shellfishing). Telephone interviews were conducted for a random sample of nonrespondents (those who did not return a questionnaire) for each of the three segments. The sample of nonrespondents was 200 for fishing and hunting, and 100 for shellfish harvesting. Overall, responses for each of these groups were similar, in terms of trip characteristics and expenditures, to those reported by the initial respondents. Through these telephone interviews, additional detail was gathered with regard to where to the allocation of expenditures -- before, during, or in the community closest to where the recreation activity occurred. The additional information was used to allocate expenditures at the regional and county-level.