Oregon Deer and Elk Hunters' Attitudes Toward Big Game Management and Hunting Opportunities





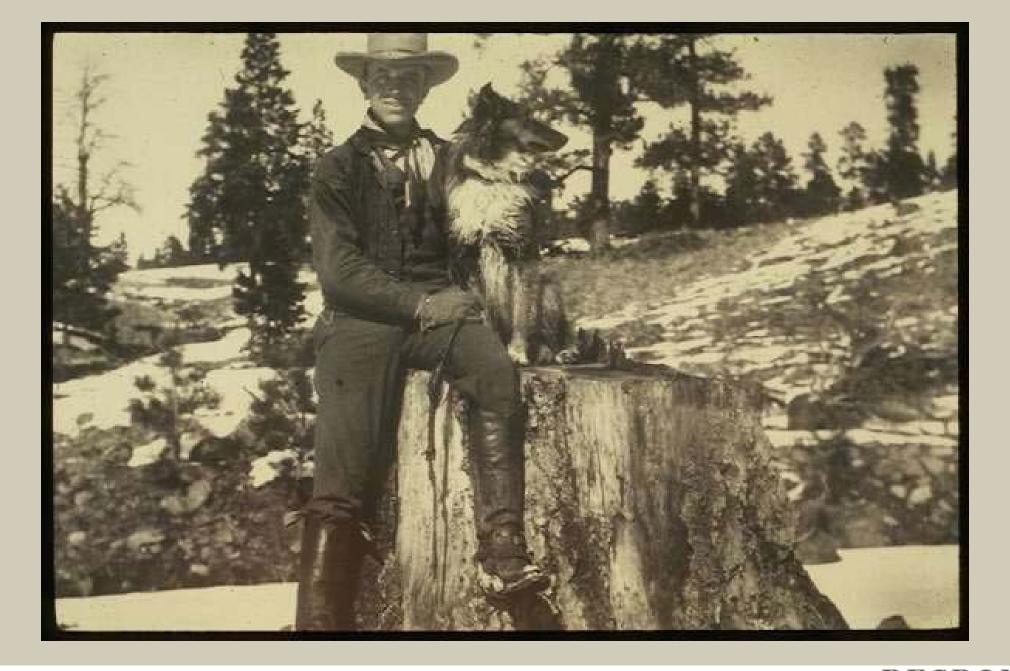


Photo credits: Oregon Dept. of Fish and Wildlife

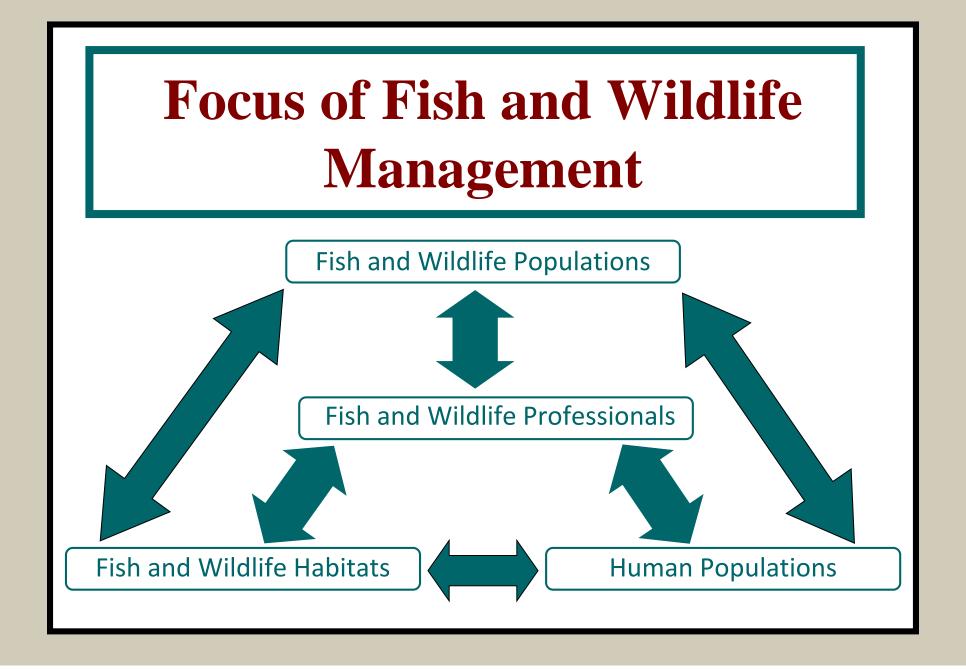
Presented to the Oregon Department of Fish and Wildlife Commission September 13, 2019

Mark Damian Duda, Executive Director, Responsive Management





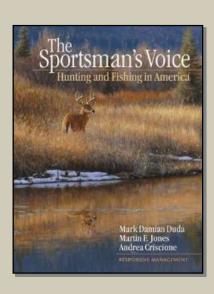






About Responsive Management

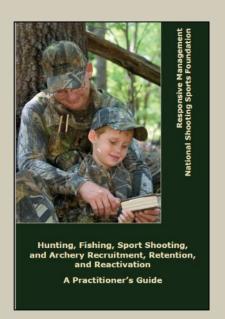
- Research firm specializing in natural resource and outdoor recreation issues
- > 30 years of continuous survey research projects
- **→** More than 1,000 human dimensions studies
- > Almost \$70 million in human dimensions research
- Research in 50 states and 15 countries
- Research conducted for every state fish and wildlife agency and federal resource agency
- Research for all major NGOs, including RBFF, NSSF, NRA, ASA, ATA, Ducks Unlimited, Trout Unlimited, and more
- Research for industry leaders, such as Winchester, Vista Outdoor (Bushnell, Primos, Federal Premium, etc.), Trijicon, Yamaha, and more
- Data collection for the nation's top universities: Clemson University, Colorado State University, Duke University, Penn State University, Rutgers University, Stanford University, University of Southern California, and many more





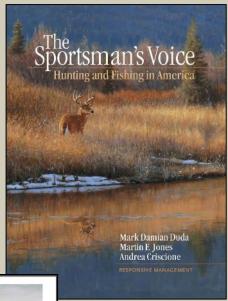


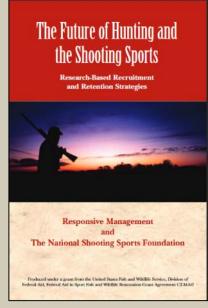
Responsive Management Books, Major Reports, **Articles, and Peer-Reviewed Journal Articles**

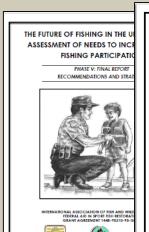


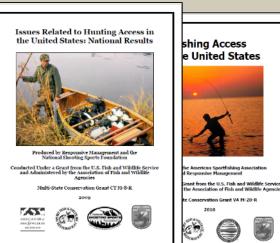


FACTORS RELATED TO HUNTING AND FISHING PARTICIPATION IN THE UNITED STATES











FEDERAL AID IN SPORT FISH AND WILDLIFE RESTORATION

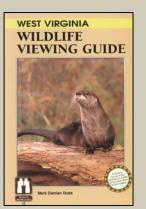
on-game species such as the bald engle, the

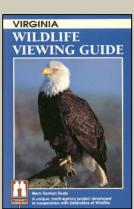
throats mail for hunting: an increase in the total U.S. population an

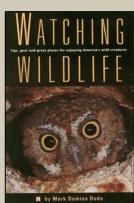


The Dirty Dozen Threats to Hunting:

21st Century Implications for Recruitment, Retention, and Reactivation









Presentation Overview

- Survey Methodology
- > The Public Input Process: Things to Keep in Mind
- Equipment Used for Hunting
- Hunting Locations
- Motivations for Hunting
- Satisfaction with Hunting
- Constraints to Hunting Participation
- Opinions on Regulatory Issues
- Youth Hunting



Photo credits: Oregon Dept. of Fish and Wildlife





Survey Methodology



Survey Methodology

- Survey conducted to determine the practices and opinions of deer and elk hunters in Oregon
- Scientific, probability-based multi-modal survey (contact by mail, email, and telephone)

Sample	Sample Size	Population Size	Sampling Error
Deer Hunters	1,070	276,319	+/- 2.99
Elk Hunters	1,107	246,496	+/- 2.94

- Results reported at 95% confidence interval
- Crosstabulations of survey results by:
 - Equipment used most often to hunt

- Age
- Avidity

- Region of residence
- Survey conducted January February 2019





First Class

U.S. Postage Paid



Dear Oregon Hunter,
Public input is important,
and we want your feedback
on hunting in Oregon. You
are one of a small number of
licensed hunters randomly
chosen to participate in this
study. You can take the
survey online at
www.wildlifestudy.org or
call toll free
844-836-9364 to have a
professional interviewer ask
you the survey questions.
You will be asked for your
access number, which can
be found above your name.
Responsee Management a research fem specializing in

OREGON DEPARTMENT OF FISH AND WILDLIFE

c/o Responsive Management

130 Franklin Street

Harrisonburg, VA 22801



Tell us about your Oregon deer and elk hunting experiences and opinions on hunting in Oregon.

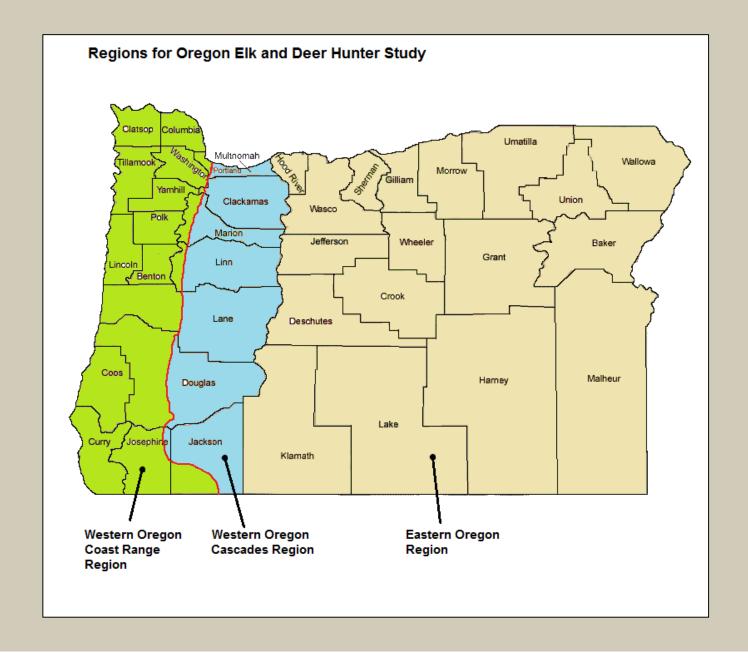
The easiest way to take the survey now is online at:

www.wildlifestudy.org

Please have your access code ready.



- Survey sample was stratified by region
- Goal was to survey at least 500 deer hunters and 500 elk hunters from the Eastern Region and a similar number from the Western Regions combined
- Within each region, the sample was drawn proportional to the type of contact information included in the license database (email, phone, mailing address)





Overview of Probability-Based Scientific Survey

- Because respondents were randomly selected, the results are truly representative of the study populations (Oregon elk hunters and Oregon deer hunters)
- Survey was NOT opt-in or left online for anyone to respond to
 - Non-probability survey sampling is inherently biased
- Every licensed hunter in the database had an opportunity to be selected for the survey, regardless of contact information available
- A random sample was drawn from the license database, and hunters were contacted based on the contact information available
- By pulling the sample proportional to the contact information in the database:
 - No single contact mode biased the survey
 - Every hunter had an equal opportunity to participate in the survey



Photo credit: Oregon Dept. of Fish and Wildlife

Probability-based Sample:

Also known as a random sample, because every person in the population of interest has a known, non-zero chance of being selected for the sample.

—Pew Research Center



The Public Input Process: Things to Keep in Mind



Input at public meetings often does not reflect the actual attitudes and opinions of the public and/or stakeholders.







Human Dimensions of Wildlife, 15:55-64, 2010 Copyright © Taylor & Francis Group, LLC ISSN: 1087-1209 print / 1533-158X online DOI: 10.1090/1987-199002-1-155



The Fallacy of Online Surveys: No Data Are Better Than Bad Data

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Responsive Management, Harrisonburg, Virginia, USA

Internet or nelline surveys have become attractive to fish and wildlife agencies as an economical way to measure constituents' opinions and attitudes on a variety of issues. Online surveys, however, can have several drawbacks that affect the scientific validity of the data. We describe four lossic problems that unline surveys currently present to researchers out them discuss three research projects conducted in collaboration with said fish and wildlife agencies that illustrate these drawbacks. Each research project involved on outline survey and on a corvesponding routlon telephone survey on more sponse but analysis. Systematic elimination of portions of the sample population in the online survey is demonstrated in each research project (i.e., the definition of them.) One research project involved a closul population, which enabled a direct comparison of telephone and nuline results with the total population.

Keywords Internet surveys, sample validity, SLOP surveys, public opinion, nonresponse bias

Introduction

Fish and wildlife and outdoor recreation professionals use public opinion and attitude surveys to facilitate understanding their constituents. When the surveys are scientifically valid and unbiased, this information is setful for organizational planning. Survey research, however, costs money. Given the current budgetary climate and the uncertainty of the future, organizations are looking for ways to save money. Strategic planning and human dimensions information-gathering are no exception.

Online surveys are becoming increasingly popular as information-gallering tools. Marketing companies offer online surveys at seemingly reasonable tates. Online surveys appear to be easy to set up and administer in-thouse, can save time and money, and provide immediate results. Unfortunately, online surveys soldom provide scientifically valid, accurate, and legally defensible data. Recent collaborative research conducted by Responsive Management and three state fish and wildlife sgeneties provides clear examples of how online surveys can produce inaccurate, uncritable, and biased data. There are four main reasons for this: (a) sample validity, (b) non-response bias, (c) stakeholder bias, and (d) unverified respondents.

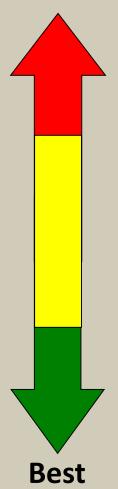
The challenges that online surveys present to obtaining scientifically valid survey results have been pointed out by others. Dillman, Smyth, and Christian (2009), for example, oito the lack of standardization regarding o-mail addresses surcture and how o-mail addresses are created, the absence of an online equivalent to the random digit dialing (RDD) algorithm for random selection of telephone numbers, and respondents' varying

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Online surveys often are not representative.

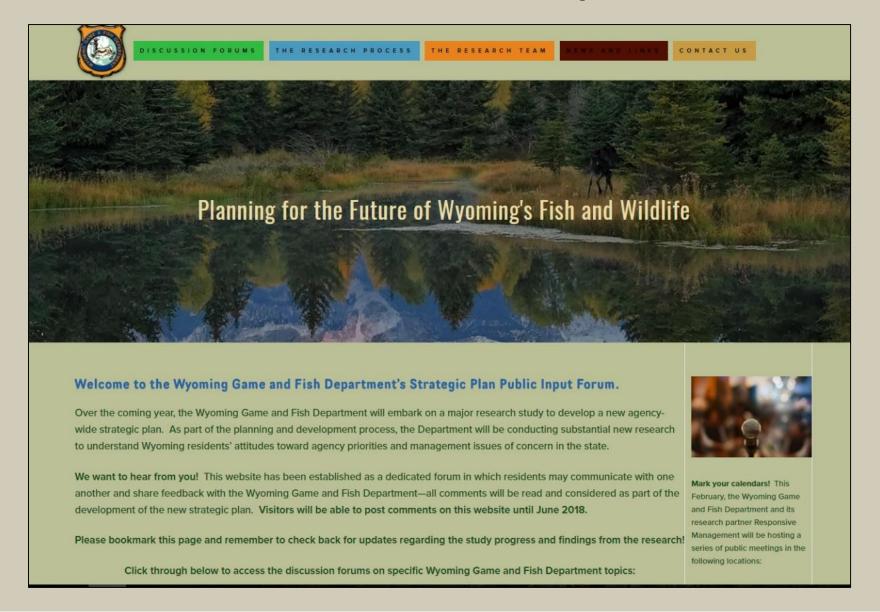
Worst



- > Open-ended placed on web, anyone can respond
- > Online panel respondents sign up in exchange for cash or other incentives
- Online panel respondents contacted and invited to participate
- Database with partial email addresses (e.g., most current databases of hunting and fishing licenses, boater registrations)
- Database with full coverage (e.g., agency employee databases)
- > Web used as part of multi-modal survey



Public forums often are not representative.



The loudest constituents may not always reflect the majority.



 Comments at public meetings and in online forums tell a different story than probability-based random samples

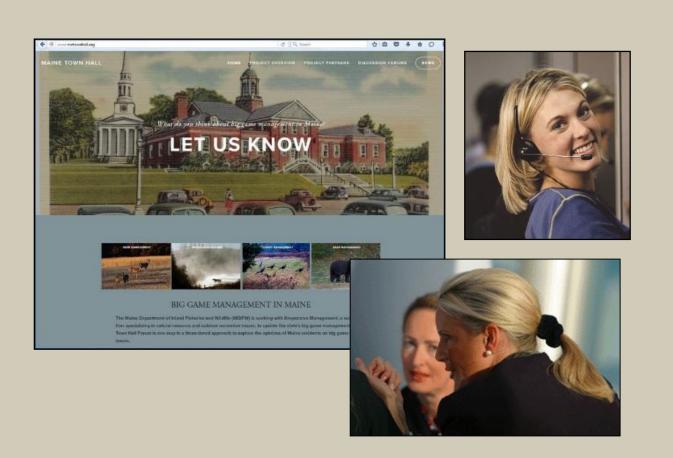
Remember that scientific and nonscientific assessments of public opinion often paint a different picture.







It's important to use the full range of research techniques to assess public opinions and attitudes.



- Scientific surveys and focus groups are critical, but public meetings and online forums (non-scientific methods) allow opportunities for all to provide input
- However, relying only on non-scientific methods can lead agencies away from majority views and preferences

Citizens groups and public input should not take the place of scientific data.



 Citizens groups should remain <u>data-driven</u>

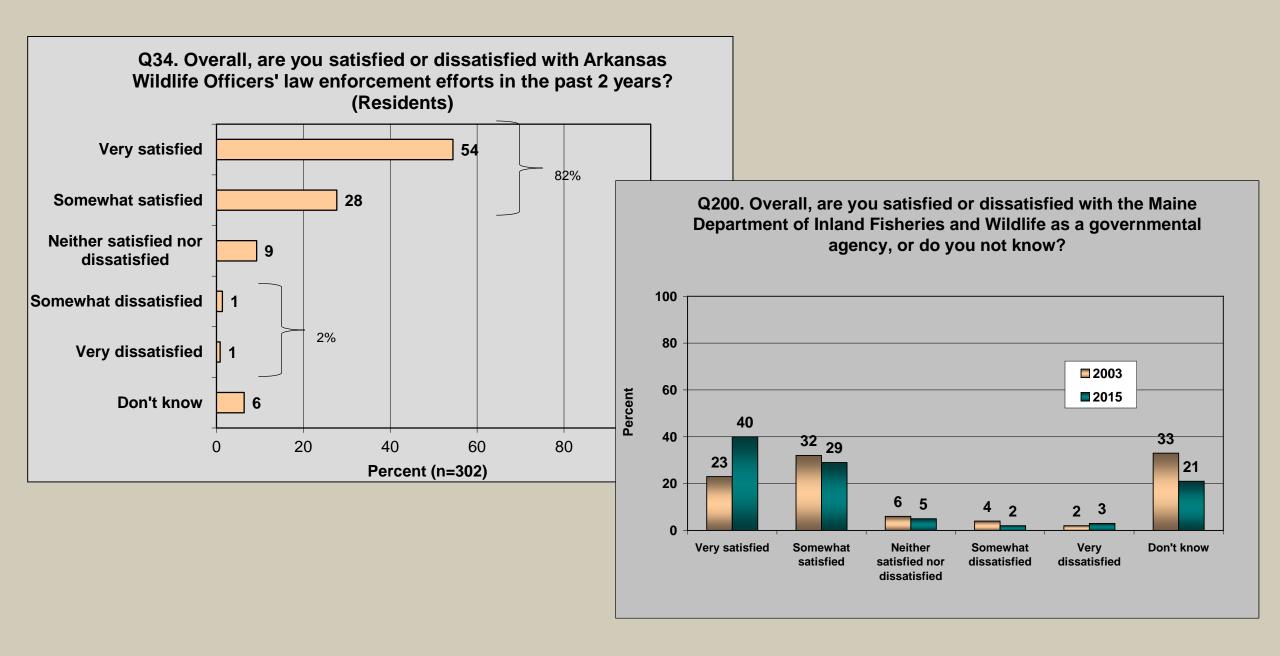




Public support for fish and wildlife agencies is often silent but strong.

 Agencies tend to hear only from the dissatisfied







Agencies should recognize their own credibility and use it accordingly.

 Surveys can help clarify the extent to which the public trusts the state agency



Photo credit: Oregon Dept. of Fish and Wildlife



Survey Results

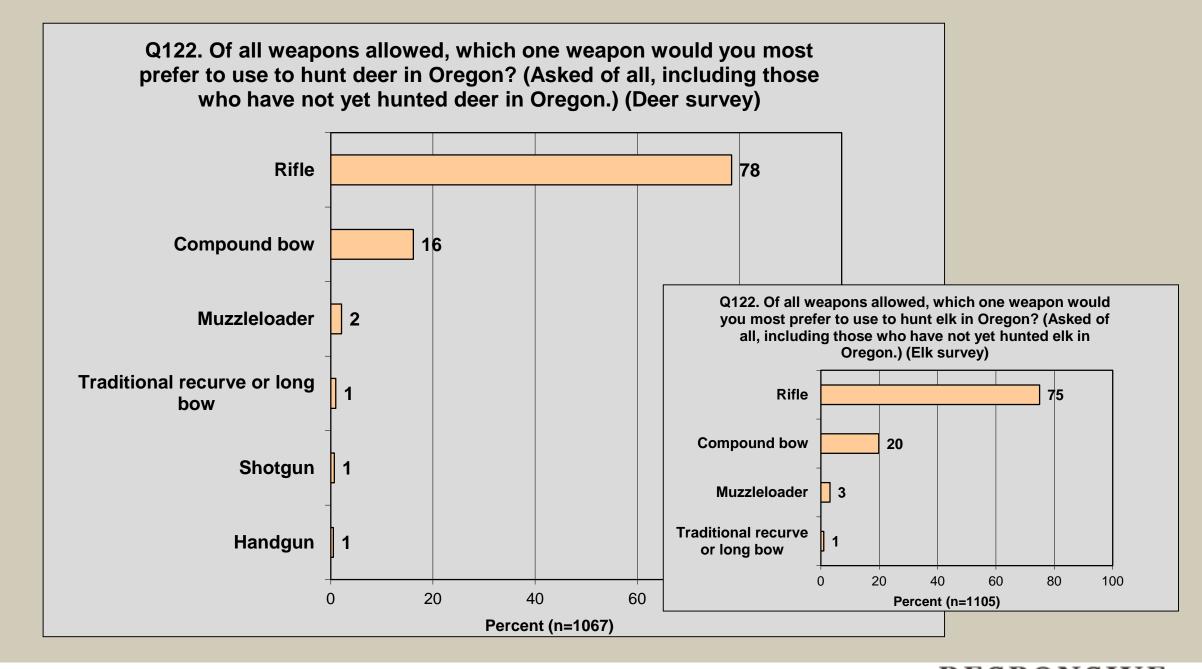


Equipment Used for Hunting

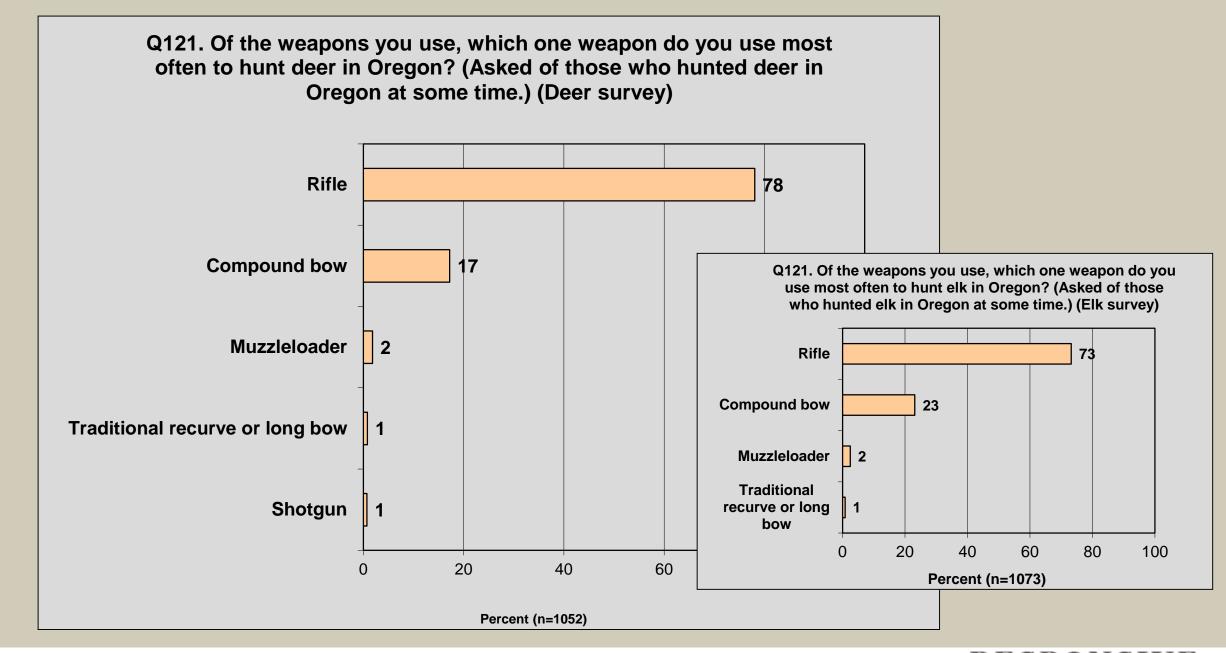


- The majority of Oregon's hunters prefer to hunt with a rifle, followed by a compound bow.
- Very few hunters prefer to hunt with a muzzleloader or traditional recurve or long bow (only 1% use the latter).







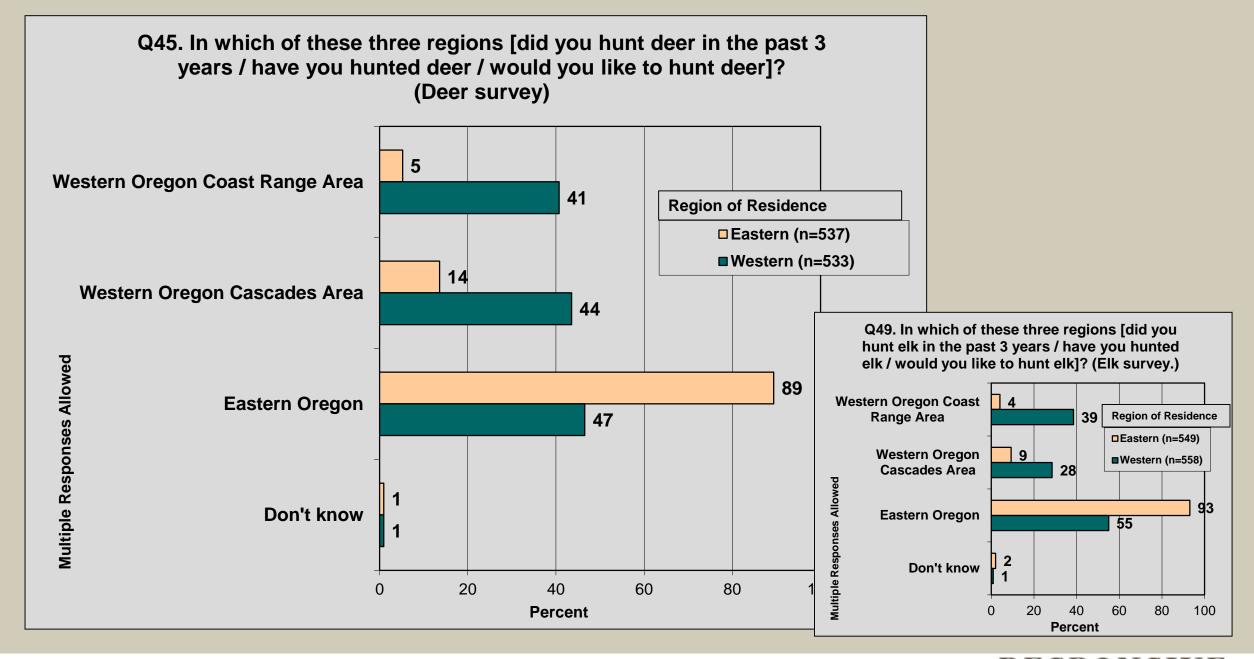




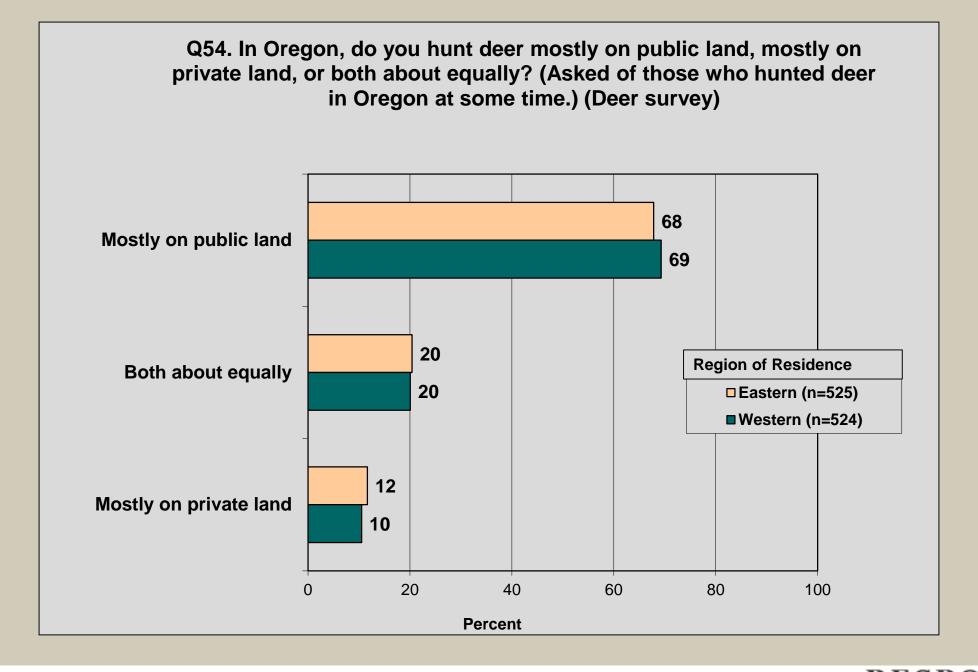
Hunting Locations



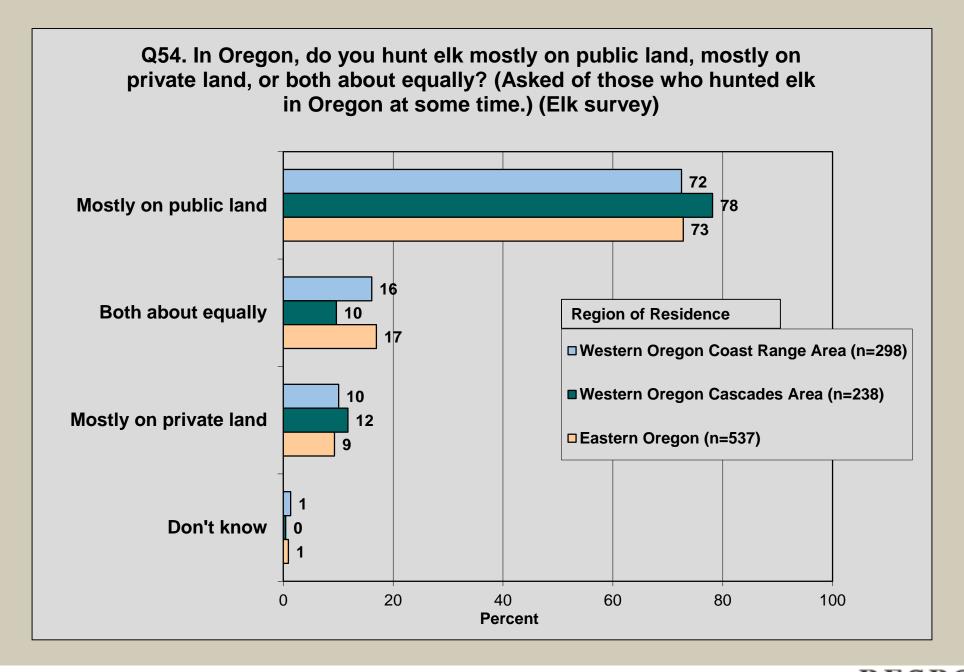
- While western Oregon residents hunt both eastern and western Oregon, eastern Oregon residents rarely hunt western Oregon and take advantage of general seasons.
- Hunters primarily hunt public land. Among hunters that hunt on private land, most hunt on areas where permission is required.



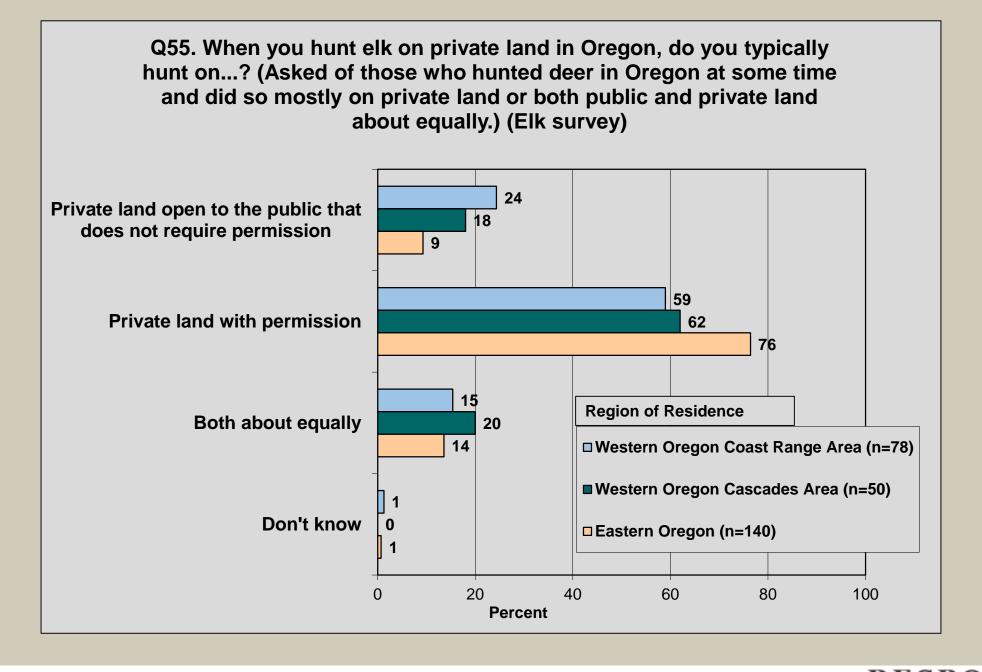










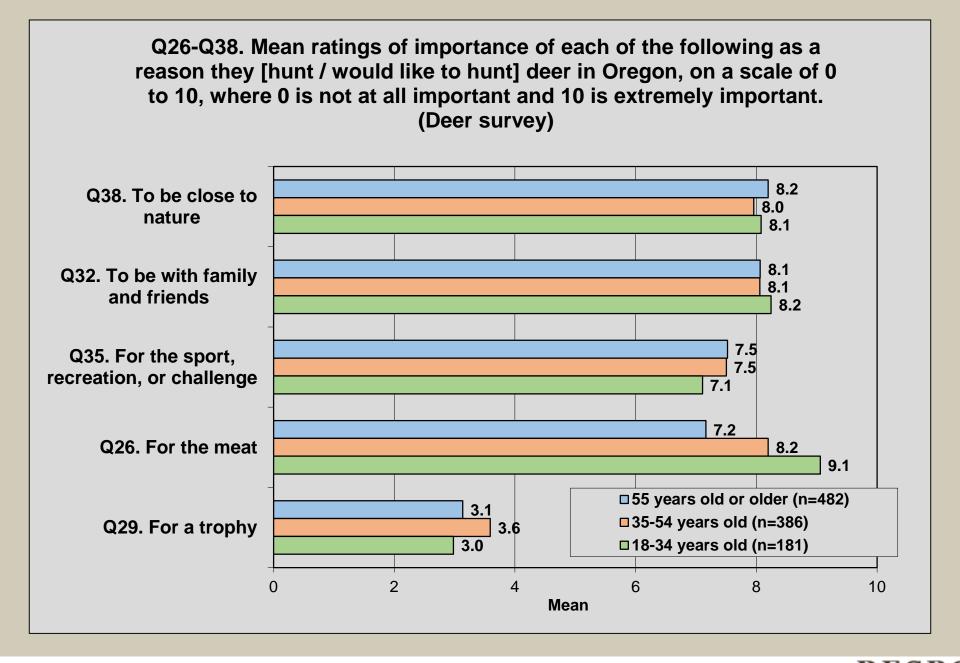




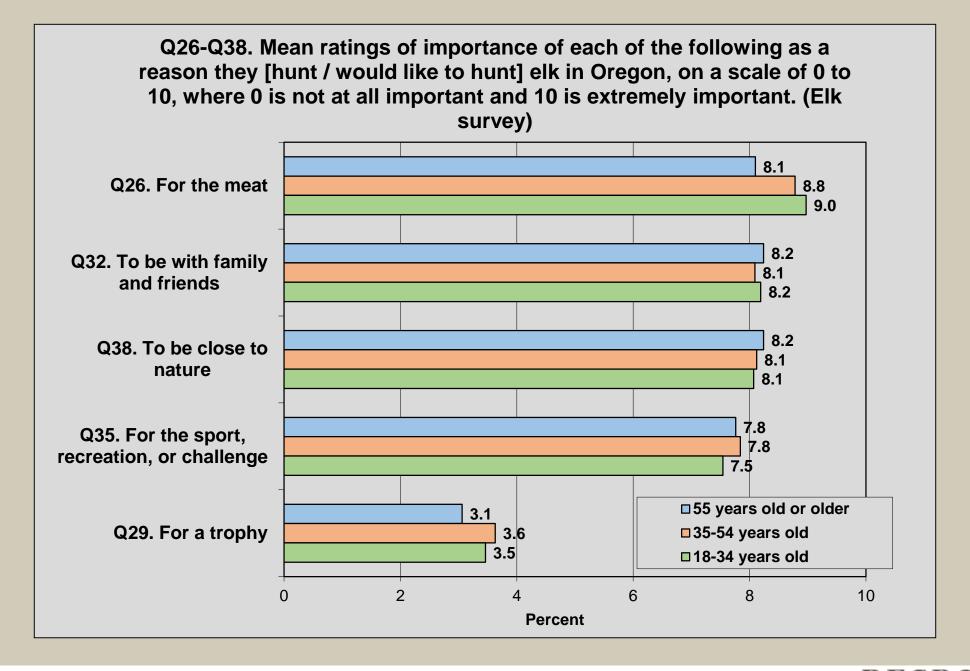
Motivations for Hunting



- Oregon hunters' most important reasons for hunting are to be close to nature; to be with friends and family; for the sport, recreation, or challenge; and for the meat.
- Harvesting a trophy animal was very low on the ranking of reasons for hunting.







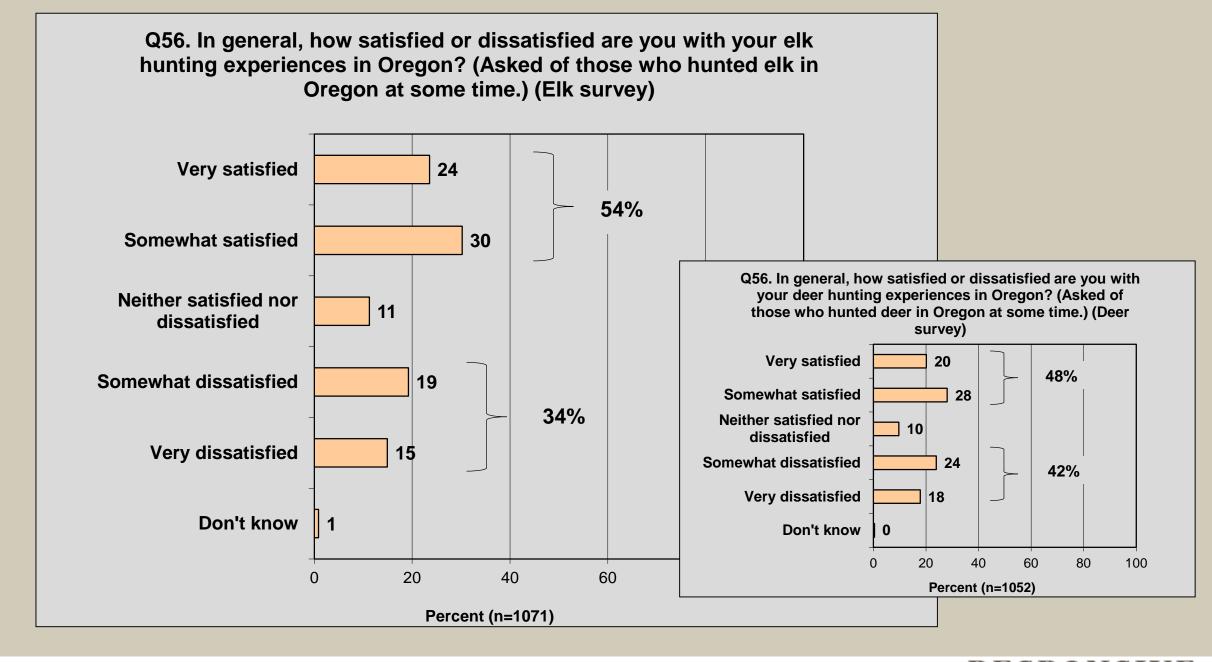


Satisfaction with Hunting

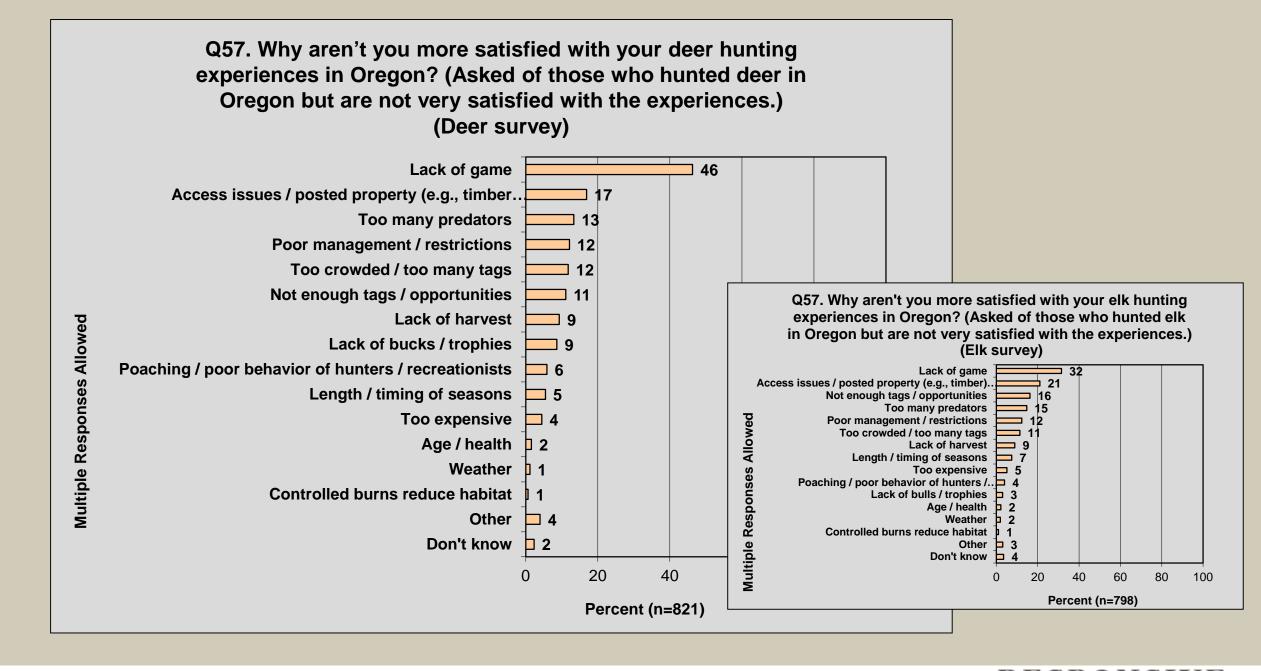


- Although deer and elk hunters are more often satisfied than dissatisfied with their hunting in Oregon, dissatisfaction is substantial.
 - Lack of game is the most common reason for dissatisfaction among both deer and elk hunters, followed by access issues.
- Most important to deer and elk hunter satisfaction is simply being able to hunt every year, followed by having a higher or better chance of harvest success.
- However, deer and elk hunters agree that having the opportunity to hunt is more important than harvesting an animal.

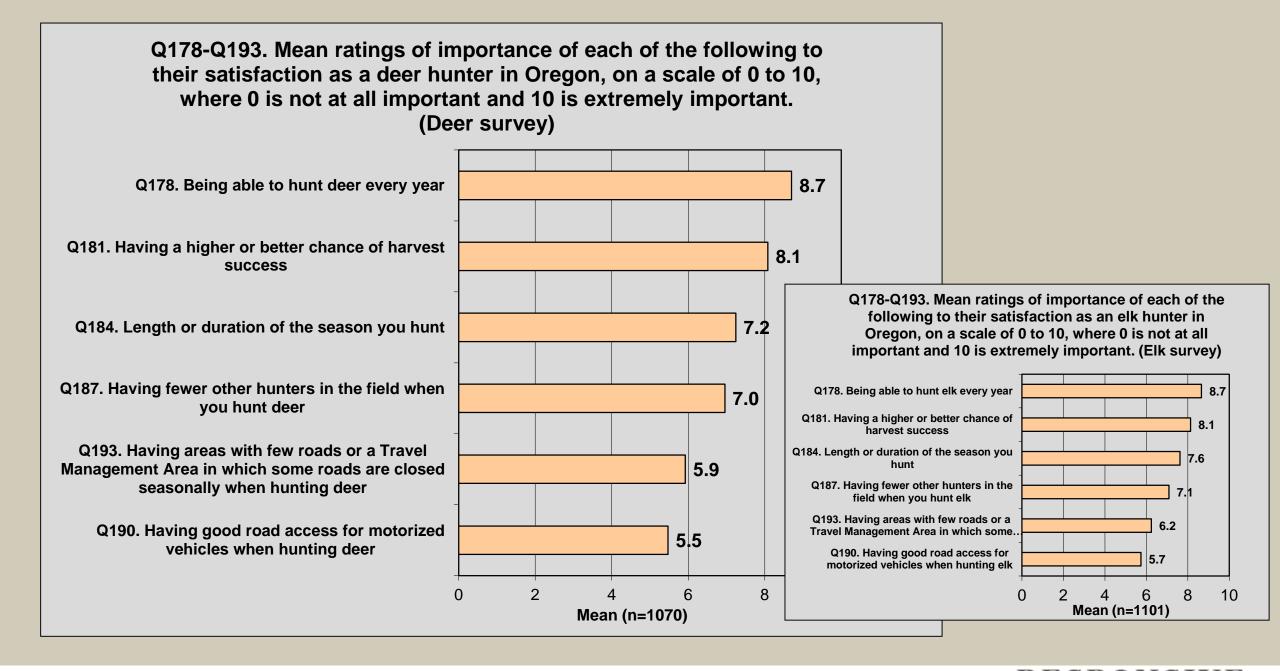




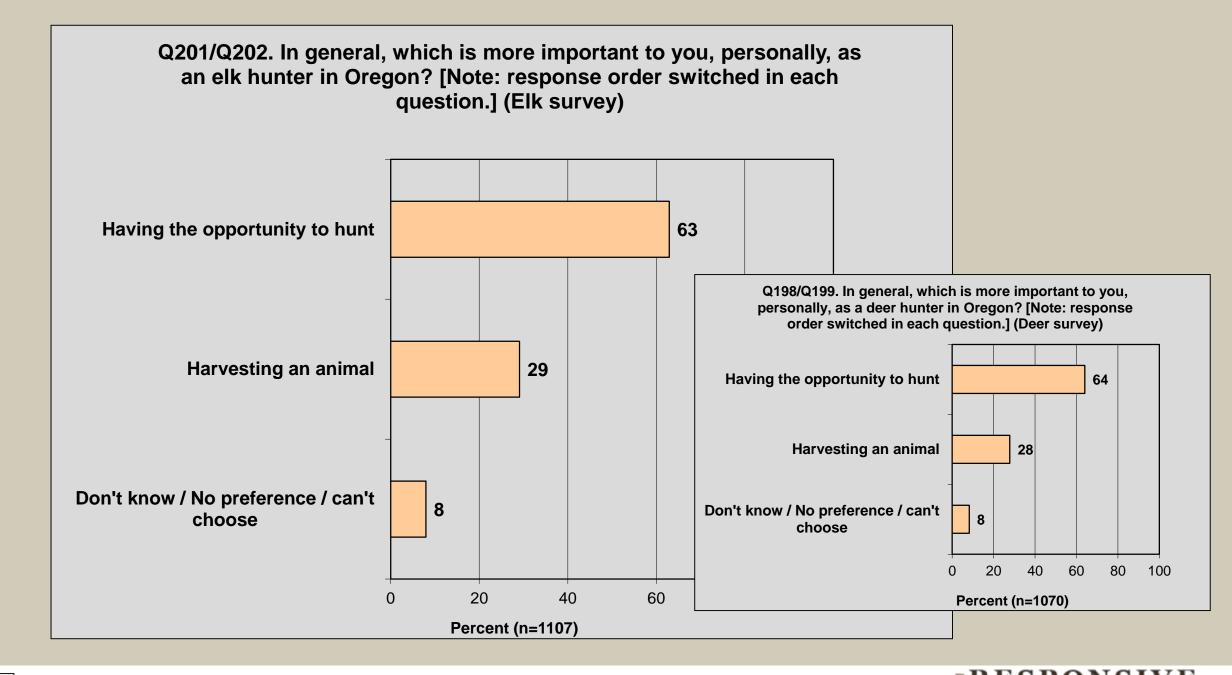










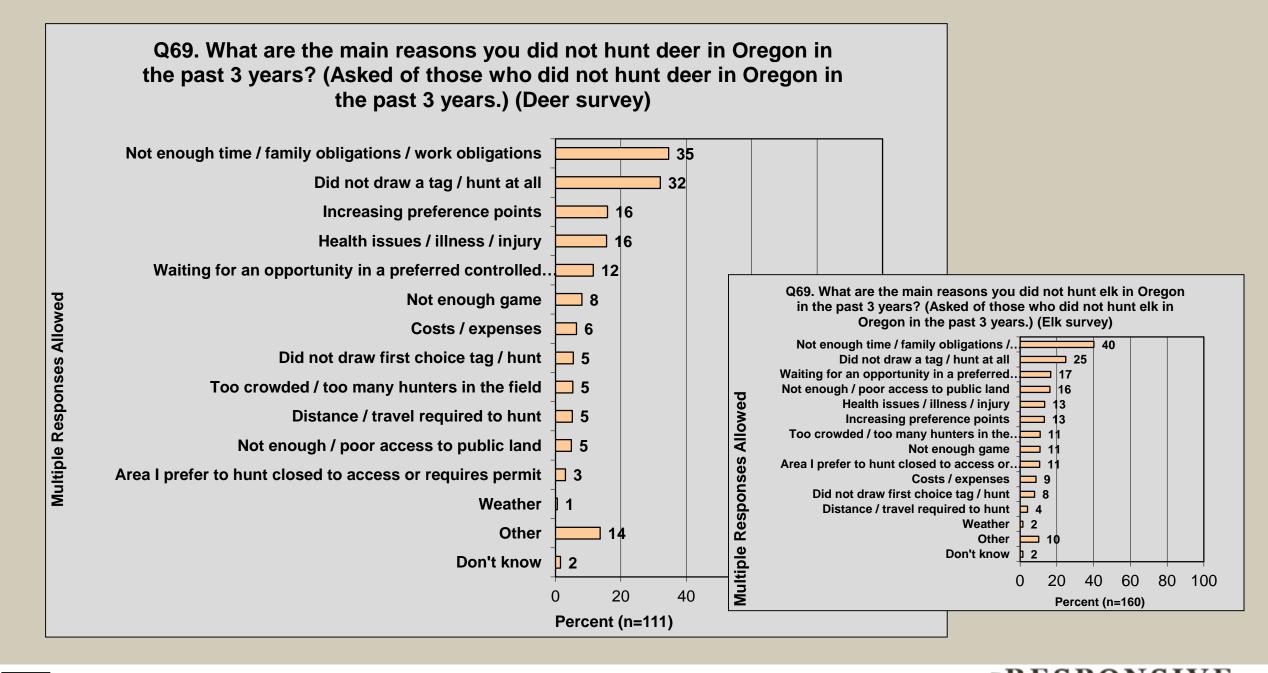




Constraints to Hunting Participation



 The primary reason hunters did not go hunting was a lack of time due to work/family obligations, followed by not drawing a tag.

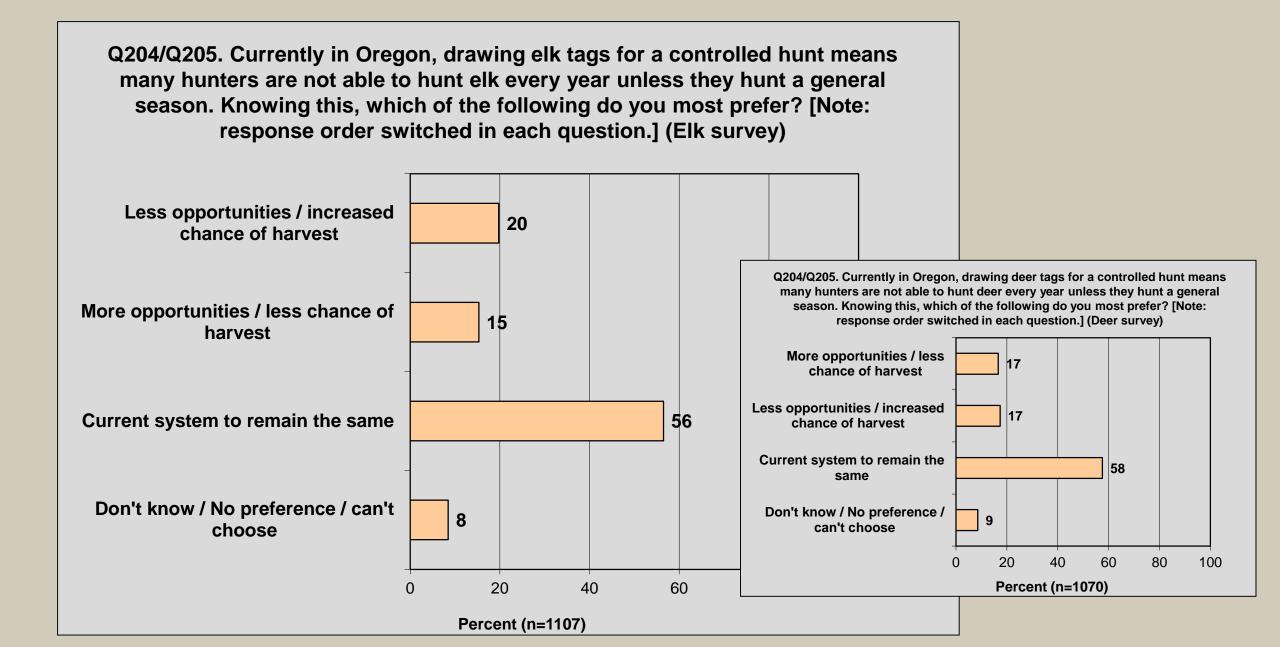




Opinions on Regulatory Issues



- Both deer and elk hunters prefer the current system in which drawing tags for a controlled hunt means many hunters are not able to hunt every year unless they hunt a general season.
- Deer and elk hunters are split on the other options of less opportunities / increased chance of harvest, and more opportunities / less chance of harvest.





Youth Hunting



- Most commonly, hunters think that there are about the right amount of opportunities for youth to hunt in Oregon.
- Regarding the importance of various aspects of youth hunting, simply providing more opportunities—to hunt in general but more importantly to hunt with family and friends—tops the list among both deer and elk hunters.

