Stakeholder Consultation Process Results

North American Waterfowl Management Plan Revision



Appendices





DJ Case & Associates

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Appendix A. Round 1 and 2 Web site feedback forms

ROUND 1 WEB STAKEHOLDER INPUT FORM AND INFORMATION

The NAWMP Committee and Revision Steering Committee are seeking input from the waterfowl management community in the revision of NAWMP (view goals and process communiqué PDF). A first step in the process is to develop a set of widely supported FOs for waterfowl conservation that clearly reflects stakeholder values.

The Revision Steering and Plan Committees have drafted an initial list of candidate objectives for waterfowl management. This list is drawn from previous discussions on goals and objectives held by various stakeholder groups. It is by no means comprehensive or complete, and we need your input.



Round 1 Stakeholder Input Form and Information, www. nawmprevision.org

Please download and review the initial objectives list (PDF).

After reviewing the list, please consider and respond to the questions below. Your responses will be recorded and compiled along with others and used by the Revision Steering Committee to synthesize a set of draft objectives that will be the basis of a decision framework and supporting models developed in later stages of the Revision process. Comments will be accepted through Monday, April

There will be opportunities for stakeholder review and consultation throughout the revision process. New information will added as it becomes available, so check the "Updates" tab once in a while.

- Are there additional objectives you'd like to suggest?
- Would you suggest rewording any objectives? If so, how would you reword them?
- If you have any objectives to reword, please list the number(s) of the objective(s) you are rewording.
- Do you have any suggestions for how objectives might be measured?
- Please list the number(s) of the objective(s) for which you are suggesting measurable attributes.
- Which of these objectives do you think are the most important?

ROUND 2 WEB STAKEHOLDER INPUT FORM AND INFORMATION

The NAWMP Committee and Revision Steering Committee are once again seeking your input for the Plan Revision. Some of the questions below are similar to those being asked in round 2 workshops. There are several additional questions as well. Whether or not you have participated in a round 2 workshop, please take a few minutes to read through these questions and provide your input.

Note this isn't a survey; it's a way to capture the breadth and depth of experience, issues, concerns and suggestions related to the NAWMP revision. This opportunity will be open through March 25.

- Four fundamental goals (previously referred to as FOs) were identified during the first round of workshops.
 - o To maintain healthy waterfowl populations in North America
 - To conserve landscapes capable of sustaining waterfowl populations
 - To perpetuate waterfowl hunting
 - To sustain opportunities for the public to view and enjoy waterfowl and waterfowl landscapes
- What are the top four attributes that should be used to measure progress towards these goals? (E.g. number of wetland acres conserved):

The original North American Waterfowl Plan contained specific habitat and population goals. The current population objectives are essentially unchanged since 1986, and the habitat objectives have increased. There are many good reasons to include quantifiable objectives in a plan. They help with conservation planning, are used to gauge progress, inspire action, and justify resources. The next few questions ask for your input about objectives.

- Is it important for the NAWMP to have quantifiable objectives? If so, why is that important? If not, why not?
- Are the current NAWMP population objectives adequate to guide waterfowl conservation in the future? Why or why not?
- Should the plan include measureable objectives for each of the four fundamental goals? Why or why not?
- Should the plan include continental-scale distribution objectives for breeding, migration and wintering areas? Why or why not?
- Of the four fundamental goals, which is the most important for which to have clear, quantifiable objectives?
- Should objectives be realistic and achievable or should they be "stretch" objectives that will be a challenge to achieve?

The original NAWMP was unclear about what role harvest management should play in helping to achieve the waterfowl population objectives of the Plan.

- What role, if any, do you think harvest management should play in helping to achieve population goals (i.e., should we achieve our population goals strictly through habitat programs, or should harvest management also play a role)?
- Should harvest be constrained (e.g., shorter seasons, smaller bag limits) when waterfowl populations are below the NAWMP goal?

The original NAWMP called for stabilized regulations, which were described as regulations that remained unchanged for a period of years unless population surveys indicated a need to invoke restrictive regulations on certain species. This recommendation was never implemented.

- Should this proposal be revisited in the Plan revision? Why or why not?
- The original NAWMP identified six "priority habitat ranges" that became the original Joint Ventures. Now there are 22 habitat Joint Ventures that extend "wall-to-wall" (i.e., every place is included within a Joint Venture), and most have expanded their taxonomic focus to include "all birds".
- How has the geographic and taxonomic expansion of Joint Ventures affected waterfowl conservation in North America?
- Hunter recruitment and retention were implied objectives in the original NAWMP. What role, if any, do you think the NAWMP should play in helping recruit and retain waterfowl hunters?
- What other input do you want to provide to the Plan Committee as they proceed with the NAWMP revision?

Appendix B – Round 1 Workshop Materials

Round 1 NAWMP Revision Stakeholder Workshop Agenda

Workshop Goals

3:50

Adjourn

- To begin a process of engagement with waterfowl managers concerning the practical aspects of fulfilling "A Vision for Integrated Waterfowl Management"
- To provide stakeholders (and/or their proxies) an opportunity to express their beliefs about the appropriate objectives of waterfowl management, and how they might best be pursued from a large-scale, strategic perspective
- To provide feedback that will be useful to the Plan Committee as they develop the scope and nature of the pending Plan Revision

8:00 a.m.	Introductions and workshop agenda review
8:10	Orientation to the NAMWP Revision and workshop
8:35	Introduction to Structured Decision Making (SDM) and elicitation process
9:00	Breakout groups Problem statement discussion Objectives: additions; designations (fundamental or means or not) Objectives: brainstorm/identify measurable attributes
Break to be	e included in breakout group time period, as needed
10:45	Full group discussion of breakout group results
11:30	Lunch (on your own)
12:15	Review new objectives
12:25	Introduction to objectives hierarchies—Scott Boomer
12:45	Breakout groups Review list of fundamental and means objectives from morning Organize and group means objectives in relation to fundamental objectives Specify relationships (linkages) between means and fundamental objectives Identify additional measurable attributes associated with each objective Identify potential actions to achieve fundamental and means objectives Develop a graphical representation of the objectives hierarchy
Break to be	e included in breakout group time period, as needed
2:35	Full group review and discussion of breakout group results
3:25	Wrap-up
3:40	Workshop Evaluation

NAWMP Revision Workshops

Draft Purpose Statement (Aug 2009)

The purpose of the Plan is to sustain abundant waterfowl populations while preserving the traditions of wildfowling and achieving broad benefits to biodiversity, ecosystem processes and the people of North America. Plan goals will be accomplished by partnerships that conserve habitats and sustain populations, guided by sound science.

NAWMP Revision Workshop Goals

To begin a process of engagement with waterfowl managers concerning the practical aspects of fulfilling "A Vision for Integrated Waterfowl Management"

To provide stakeholders (and/or their proxies) an opportunity to express their beliefs about the appropriate objectives of waterfowl management, and how they might best be pursued from a large-scale, strategic perspective

To provide feedback that will be useful to the Plan Committee as they develop the scope and nature of the pending Plan Revision

Glossary

(Adapted from: CSP3171: Introduction to structure decision making, National Conservation Training Center, Shepherdstown, WV [http://training.fws.gov/EC/Resources/Decision_Analysis/dec_08/glossary.pdf])

Objective - An explicit statement of a desired outcome, typically expressed in subject-verb-object sentence structure. Objectives are always a reflection of values, so setting objectives falls in the realm of policy and should be informed by legal and regulatory mandates as well as stakeholder viewpoints.

Fundamental Objective – A fundamental objective is one of the ultimate goals of a decision. It is something that we care about for its own sake, or which is an end in itself. An objective can be identified as fundamental by asking why until the answer is "just because." A fundamental objective answers the question "Why?"

Means Objective – A means objective is one that is not sought for its own sake, but rather is a means of achieving a more fundamental objective. A means objective answers the question "How?"

Measurable Attribute – A metric used to assess achievement of an objective.

Actions/Alternatives – Different management actions that are available. This element requires explicit articulation of the alternatives available to the decision maker. The range of permissible options is often constrained by legal or political considerations, but structured assessment may lead to creative new alternatives.

Structured Decision Making (SDM) – Structured decision making (SDM) is a process that provides a framework to help us think through a decision in a methodical way—it is common sense made explicit. The term structured is misleading to the extent that this is not a rigid process that limits creativity. In fact it's quite the opposite—by providing a framework and various analytical tools, it melds values and science into decisions in a very documentable way. The focus is value-based – articulating the decision to be made and our objectives (values) relative to that decision.

Candidate objectives for waterfowl management

- 1. Promote a conservation ethic in the general public
- 2. Maximize waterfowl harvest
- 3. Maximize hunter satisfaction
- 4. Promote non-consumptive uses of waterfowl
- 5. Maintain landscapes capable of sustaining waterfowl populations in perpetuity
- 6. Increase the understanding of ecological mechanisms driving changes in waterfowl abundance and waterfowl landscapes
- 7. Expand the sources and amount of funding for waterfowl conservation activities
- 8. Perpetuate the tradition of waterfowling
- 9. Minimize harvest of under-abundant waterfowl species
- 10. Minimize loss and degradation of wetlands and associated uplands
- 11. Provide more public hunting opportunities
- 12. Minimize the detrimental effects of over-abundant populations (e.g. depredation, habitat destruction)
- 13. Maintain/establish regulations that are simple and will lead to high compliance rates among hunters
- 14. Maintain healthy waterfowl populations as part of the North American fauna
- 15. Maximize ecological goods and services derived from wetlands and associated uplands managed for waterfowl
- 16. Increase public support for waterfowl conservation
- 17. Increase waterfowl hunter participation
- 18. Ensure that no species of waterfowl falls below population levels necessary for long-term viability.
- 19. Increase and improve duck breeding habitat
- 21. Increase and improve duck wintering habitat
- 22. Maximize the efficiency and effectiveness of the infrastructure and funding for waterfowl conservation
- 23. Provide maximum hunting opportunity.
- 24. Maintain the social license to hunt

- 25. Increase duck recruitment
- 26. Increase and improve duck migration habitat
- 27. Reduce mortality from disease and contaminants
- 28. Maintain a broad fall and winter distribution of waterfowl
- 29. Establish the infrastructure needed to ensure coherence in waterfowl management
- 30. Formalize the institutions needed to incorporate human dimensions into waterfowl management decisions
- 31. Increase hunter education and communications efforts



NAWMP Revision: Progress & Prospects





MEMORANDUM
MIKE ANDERSON, JOHN EADIE, JEFF HERBERT, MIN HUANG, DALE HUMBURG, FRED JOHNSON, MARK KONEFF, JIM LEAFLOOR, SETH MOTT, THOMAS NUDDS, ERIC REED, JIM RINGELMAN, MICHAEL RUNGE, BARRY

FROM: DAVID A. SMITH- NAWMP COMMITTEE CO-CHAIR

FOR
STEVE WENDT - NAWMP COMMITTEE CO-CHAIR
DON CHILDRESS - IAFWA AHM TASK FORCE

SUBJECT: APPOINTING A JOINT TASK GROUP (JTG) FOR CLARIFYING NAWMP POPULATION OBJECTIVES AND THEIR USE IN HARVEST MANAGEMENT

DATE: JUNE 14 2005



Joint Task Group Recommendations (March 2007)

- Harvest managers should adopt a shoulder strategy for Northern Pintails and Mid-Continent Mallards.
- NAWMP should adopt the same shoulder strategy to ensure coherence.
- Enhance the technical capacity of the AHMWG and the NSST.
- 4. Focus more science on reducing key uncertainties.
- Convene a human dimensions working group to assess stakeholder values and develop an approach for more explicitly incorporating HD information into management
- Convene a waterfowl management policy summit: "Future of Waterfowl Management Workshop"



Messages from Minneapolis Policy Workshop (August 2008)

Achieved Low Success in:

- Goals for harvest and habitat management that are complementary and coherent.
- 2. Understanding and incorporating hunter expectations and satisfaction.
- 3. Simplifying waterfowl regulations.
- 4. Clear process for setting and revising population goals.
- 5. Rallying support of non-hunters.



Messages from Minneapolis Policy Workshop (August 2008)

Conclusions:

- ✓ A group or venue be created to continue the work of the Human Dimensions Working Group. (94% agreed or strongly agreed).
- ✓ The NAWMP update should be used to develop more coherent goals for waterfowl harvest and habitat management. (88% agreed or strongly agreed).



Getting Started

The PC appointed a NAWMP Revision Steering Committee (Feb 2009):

- Broad-based; focal point for gathering, vetting and synthesizing ideas about content.
- Identify technical work and resources needed.
- Review NAWMP Assessment report and highlight topics needing attention.
- Develop stakeholder engagement process.
- Propose a review of management processes and institutions in light of the Revision.
- Propose work plan, schedule, process, etc.



2010 Progress to Date

- Revision Steering Committee met in April to elaborate charge; numerous conference calls.
- Technical working group established and met at Patuxent in June to consider a process for re-formulating Plan objectives.
- RSC published the <u>NAWMP Revision Scoping</u> <u>Document</u> in early August.
- 4. PC met in August, reviewed draft Scoping document and agreed with recommendation that a series of objective identification workshops should be conducted as part of the initial consultation process.



Messages from PC Meeting (Aug 2009)

Draft Purpose Statement:

The purpose of the NAWMP is to sustain abundant waterfowl populations while preserving the traditions of wildfowling and achieving broad benefits to biodiversity, ecosystem processes and the people of North America. Plan goals will be accomplished by partnerships that conserve habitats and sustain populations, guided by sound science.

A Vision for Integrated Waterfowl Management



2010 Progress to Date

- The Technical Work Group met on November 9-10 to finalize workshop format and a recommended consultation process.
- 6. Plan Committee meeting/workshop November 11-12. Approved 2-phase consultation process.
- NAWMP workshops held in Portland, Memphis, Edmonton, Ottawa, Sacramento, and (now) Milwaukee.
- 8. Other input being received from flyways, DU, and NAWMPrevision.org website.



Purpose of Workshops

- Identify fundamental and means objectives for waterfowl management.
- Discuss alternative, broad-scale (high level) strategies for achieving objectives.
- Identify actions and measurable attributes associated with objectives
- · Create ownership of objectives.
- · Consistent process; diversity of attendees.



Primary participants = waterfowl <u>management</u> community (involved in managing populations, habitat, and hunting)

- · Plan Committee, Revision Steering Committee
- NAWMP Science Support Team (NSST)
- · AHM working group
- · HD working group
- · NAWC Councils and Staff
- · Federal, state, provincial governments
- Joint Ventures (Habitat & Species)
- · Flyway Councils and Technical Committees
- · NGOs DU, CA Waterfowl, Delta, WMI, others
- Minneapolis Meeting participants
- Sporting conservation council



How will the results be used?

The Revision Steering Committee will be responsible for synthesizing workshop results, drawing on technical resources as needed.

- · Synthesis work begins April 20-22.
- · Proposed objectives hierarchy.
- Technical group initial prototype model and decision framework.
- · Vetted with NAWMP Committee.



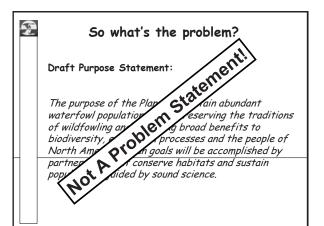
Consultation Process Round 2

- · Communicate results back to waterfowl management community.
- · Facilitated, face-to-face workshops: review objectives, actions, measurable attributes, consequence tables, and trade-
- Use consultation results to further inform objectives hierarchy, decision framework, and modeling protocols proposed in draft NAWMP revision.



Key Points on the Timeline

- March 22, 2010 Final round 1 workshop(s) in Milwaukee at NAWNRC.
- April 20-23, 2010 Revision Steering Committee begins work to synthesize results, develop prototype models.
- September, 2010 Begin round 2 consultations at AFWA annual meeting.
- January, 2011 Begin drafting NAWMP Revision document.
- · June, 2011 First draft released for comment.
- January, 2012 Final draft for PC approval.





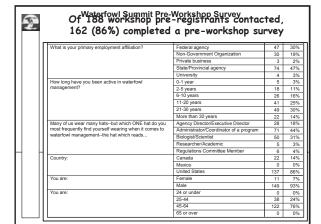
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...considers the critical elements of the decision context. These include:

- · The trigger or the underlying motivation
- · The nature of the problem
 - · Legal and regulatory mandates or socio-political
 - Timing and frequency of the decision(s)
 - Scope and spatial extent of the decision(s)
- The decision makers; linkages to other decisions

'The Future of Waterfowl Management Workshop"

- · August 26-28, 2008; Minneapolis, MN
- 192 attendees; cross-section of management community





a. Resources dedicated to waterfowl habitat conservation should be re-allocated among important waterfowl landscapes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	44	27.2	67.3%	29.3
	Somewhat agree	57	35.2	07.1070	67.3
	Neutral	29	17.9	19.3	86.7
	Somewhat disagree	16	9.9	13.4%	97.3
	Strongly disagree	4	2.5	2.1	100.0
	Total	150	92.6	100.0	
Missing	Don't know	9	5.6		
	System	3	1.9		
	Total	12	7.4		
Total		162	100.0		

Resources dedicated to conservation are not optimally allocated among landscapes



b. An inordinate amount of time is spent on the annual regulations setting process

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	45	27.8	71.1%	29.6
	Somewhat agree	63	38.9	/1.170	71.1
	Neutral	26	16.0	17.1	88.2
	Somewhat disagree	16	9.9	11.8%	98.7
	Strongly disagree	2	1.2	11.0 /0	100.0
	Total	152	93.8	100.0	
Missing	Don't know	8	4.9	1	
	System	2	1.2		
	Total	10	6.2	1	
Total		162	100.0		

Too much time is spent setting annual regulations



c. Greater attention should be placed on monitoring and evaluation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	46	28.4	77.50/	28.8
	Somewhat agree	78	48.1	77.5%	77.5
	Neutral	24	14.8	15.0	92.5
	Somewhat disagree	12	7.4	7.5%	100.0
	Total	160	98.8	100.0	
Missing	System	2	1.2		
Total		162	100.0		

Monitoring and evaluation needs to be enhanced



i. Attention to waterfowl and wetlands protection and management has declined at the federal level

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	43	26.5	72.2%	27.2
	Somewhat agree	71	43.8	12.270	72.2
	Neutral	22	13.6	13.9	86.1
	Somewhat disagree	15	9.3	13.9%	95.6
	Strongly disagree	7	4.3	13.3 /6	100.0
	Total	158	97.5	100.0	
Missing	Don't know	1	.6		
	System	3	1.9		
	Total	4	2.5		
Total		162	100.0		

Federal activities to conserve waterfowl and their habitats have declined



3. Attention to waterfowl and wetlands protection and management has declined at the state/province level

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	26	16.0	61.8%	16.6
	Somewhat agree	71	43.8	01.0%	61.8
	Neutral	18	11.1	11.5	73.2
	Somewhat disagree	34	21.0	26.8%	94.9
	Strongly disagree	8	4.9	20.0 /6	100.0
	Total	157	96.9	100.0	
Missing	Don't know	3	1.9		
	System	2	1.2		
	Total	5	3.1		
Total	•	162	100.0		

State and provincial activities to conserve waterfowl and their habitats have declined



b. Too little attention has been placed on understanding waterfowl hunters and their satisfaction

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	27	16.7	54.5%	17.5
	Somewhat agree	57	35.2	54.5%	54.5
	Neutral	30	18.5	19.5	74.0
	Somewhat disagree	32	19.8	26.0%	94.8
	Strongly disagree	8	4.9	26.0%	100.0
	Total	154	95.1	100.0	
Missing	Don't know	4	2.5		
	System	4	2.5		
	Total	8	4.9		
Total	•	162	100.0		

Too few resources are directed towards understanding waterfowl hunters



a. Attention to monitoring and evaluation and the science supporting waterfowl and wetlands management has declined among universities

1					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Strongly agree	42	25.9	75.00/	31.6
	Somewhat agree	59	36.4	75.9%	75.9
	Neutral	18	11.1	13.5	89.5
	Somewhat disagree	11	6.8	10.6%	97.7
	Strongly disagree	3	1.9	10.6%	100.0
	Total	133	82.1	100.0	
Missing	Don't know	27	16.7		
	System	2	1.2		
	Total	29	17.9		
Total		162	100.0		

Universities are less attentive to waterfowl science and monitoring/evaluating



b. Attention to monitoring and evaluation and the science supporting waterfowl and wetlands management has declined at the federal level

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	32	19.8	EQ 00/	20.5
	Somewhat agree	60	37.0	59.0%	59.0
	Neutral	27	16.7	17.3	76.3
	Somewhat disagree	28	17.3	23.7%	94.2
	Strongly disagree	9	5.6	23.7%	100.0
	Total	156	96.3	100.0	
Missing	Don't know	4	2.5		
	System	2	1.2		
	Total	6	3.7		
Total		162	100.0		

Federal agencies are less attentive to waterfowl science and monitoring/evaluating



What do these have in common?

- · Resources dedicated to conservation are not optimally allocated among landscapes.
- \cdot Too much time is spent setting annual
- · Monitoring and evaluation needs to
- · Federal activities to conserve and their habitats have declined.
- · State and provincial o conserve waterfowl and their habitats have
- Resource allocation? · Too few resou rected towards understanding waterfowl hunters.
- · Universitie ess attentive to waterfowl science and monitoring/evaluating.
- · Federal agencies are less attentive to waterfowl science and monitoring/evaluating.



Efficiently allocating resources is going to require...

- · Agreement on our fundamental objectives.
- · A more thoughtful plan for how we will go about achieving those objectives.
- \bullet Perhaps, updating our system of waterfowl management so we are better coordinated and working towards a common goal.

<u>Draft</u> problem statement:

The waterfowl management community is not in consensus on the fundamental objectives of waterfowl management, the means to achieve those objectives, nor the framework necessary for integrating multiple decisions in a way that efficiently allocates resources and coordinates actions."

NAWMP Revision



Consultation Workshop

Fred A. Johnson, U.S. Geological Survey G. Scott Boomer, U.S. Fish & Wildlife Service Dave Case, D. J. Case & Associates and members of the NAWMP Revision Steering Committee



What makes decisions hard?

- Sometimes you don't know all the possible actions
- The objectives may be complex or contradictory, or in dispute
- The system dynamics may be poorly known
- Sometimes we confuse all the components
- Even knowing all the other components, the solution (optimization) may be difficult to figure out



A Vision for **Integrated Waterfowl Management**

- ... the Plan should seek to establish a unified system of waterfowl conservation ...
- ... a fully coherent management system would feature:
 - A set of widely supported fundamental goals for waterfowl conservation
 - A decision framework that allows managers to understand and balance tradeoffs
 - Managers using that framework to efficiently allocate resources



3

Structured Decision Making

- Is a formal method for analyzing a decision, by breaking it into components
- Helps identify where the impediments to a decision are, to focus effort on the right piece
- Provides a wide array of analytical tools for dealing with particular impediments



Benefits of structured decision making

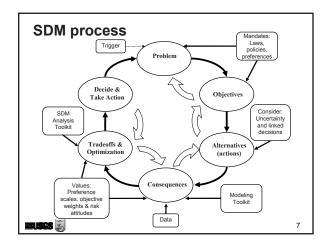
- Decision processes that are
 - Relatively bias free
 - Transparent
 - Explicit
 - Deliberative
 - Able to be documented
 - Replicable
 - Efficient, especially when no single person or entity is the decision maker
- An important goal is that everyone agrees with the process, knowing that not everyone will agree with the outcome(s)

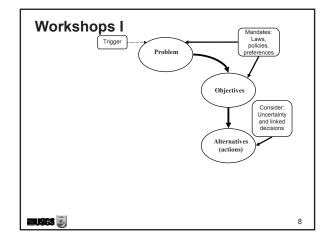


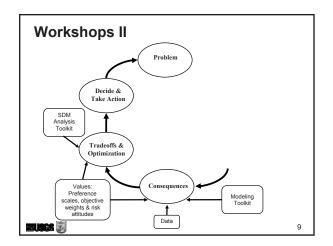
Two key elements of SDM

- Values-focused
 - The objectives (values) are discussed first, and drive the rest of the analysis
 - This is in contrast to our intuitive decision-making, which usually jumps straight to a debate of alternative actions or outcomes
- Problem decomposition
 - Break the problem into components, separating policy from science
 - Specify components, gather & analyze relevant information
 - Recompose the parts to make a decision









Workshop I goals

- To gather input on the overarching objectives of waterfowl management, and opinions on how such objectives might best be pursued from a large-scale, strategic perspective
- 2) To obtain information from stakeholders that will help inform the Plan Committee as they develop the scope and nature of the pending Plan Revision
- 3) To discuss with waterfowl managers the practical aspects of fulfilling "A Vision for Integrated Waterfowl Management"



10

Workshop agenda

- Today:
 - Introduction

 - The Revision Vision Taking a SDM approach
- Break-out groups to:
 Discuss the nature of the decision problem Identify fundamental & means objectives for waterfowl management
 - Identify some measurable attributes
 - Group discussion; opportunity for individual input
- - Tomorrow:
 Introduction to objectives hierarchies
 - - Break-out groups to:
 Construct an objectives hierarchy
 Identify strategic actions to achieve objectives
 - Group presentations; synthesis



Break-out Groups

- Review and discuss the Problem Statement
- Review the handout of potential objectives
- Add missing objectives
- Discuss and reach agreement on whether each is a fundamental or means objective
- Suggest re-wording for clarity if necessary
- Suggest one or more measurable attributes for your fundamental objectives



12

Fundamental vs. means objectives

Fundamental objectives

- An essential reason for your interest in the problem or decision
- Constitute the broadest objectives influenced by your (conservation) actions
- Important because it just is!

Means objectives

- Represent a way station in the progress toward a fundamental objective (e.g., decrease natural mortality)
- Serve to help generate potential actions and can deepen understanding of the decision problem



13

Fundamental vs. means objectives

- Is this where I want to go? (FUNDAMENTAL) or is it a way to get there? (MEANS)
- Fundamental objectives answer "why?" Means objectives answer "how?"
- The distinction usually is dependent on the decision problem; a means objective in one problem may be a fundamental objective in another (and vice-versa)
- The distinctions in our context can ultimately help us define and bound the scope of "integrated waterfowl management"



1.1

Objectives vs. actions

- The two are often confused in wildlife management planning documents
- E.g., "protect 1000 additional acres of habitat" Not an objective, but a management action chosen (either explicitly or implicitly) from a broader set of actions
- Means objectives help define a potential set of actions; e.g., increase recruitment (means objective) by restoring native prairie, or constructing predatorproof fences, or creating nesting islands (set of potential actions)



15

Measurable attributes

Fundamental objective	Measurable attribute
Maintain duck hunting tradition	Number of people who identify themselves as duck hunters
Ecosystem goods and services	Wetland acres (not counting farmed wetland)
Hunt quality	Proportion of hunters who say they were satisfied or very satisfied with their season
Promote conservation behavior in the public	Annual total of public and private dollars for habitat conservation (\$billion)



16

Break-out groups







Draft Purpose of the NAWMP

The purpose of the Plan is to sustain abundant waterfowl populations while preserving the traditions of wildfowling and achieving broad benefits to biodiversity, ecosystem processes and the people of North America.

(NAWMP Scoping Report for the 2011 Plan Revision, 8 Aug 09)



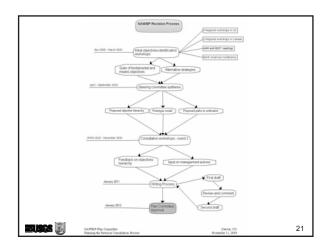


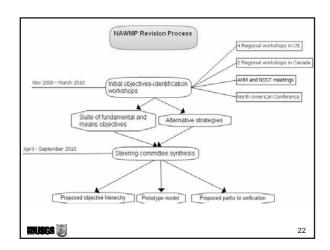
A Vision for **Integrated Waterfowl Management**

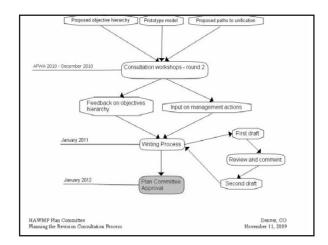
- ... the Plan should seek to establish a unified system of waterfowl conservation ...
- ... a fully coherent management system would feature:
 - A set of widely supported fundamental goals for waterfowl conservation
 - A decision framework that allows managers to understand and balance tradeoffs
 - Managers using that framework to efficiently allocate resources



20







After the break-outs: Individual input (1)

- You will be given the opportunity to express your opinion (via Turning Point) about the list of potential objectives
- Purpose is NOT to conduct a "vote," but a means to:
 - ensure everyone has a "voice" in a short period of time
 - determine the degree of variation in opinion
 - understand the sources of variation
 - have a record of (anonymous) responses



24

After the break-outs: Individual input (2)

- First step is to gather some basic demographics (nationality, affiliation, etc)
- Then for each potential objective provided, indicate whether you think it is:
 - 1 = not a relevant waterfowl management objective
 - 2 = a fundamental waterfowl management objective
 - 3 = a means waterfowl management objective



25

Workshop agenda

- Today:
 Introduction
 The Revision Vision Taking a SDM approach
- Break-out groups to:

 Discuss the nature of the decision problem

 Identify fundamental & means objectives for waterfowl management

 Identify some measurable attributes
- Group discussion; opportunity for individual input
- - Tomorrow:
 Introduction to objectives hierarchies
- Break-out groups to:
 Construct an objectives hierarchy Identify strategic actions to achieve objectives
- Group presentations; synthesis



NAWMP Revision



Consultation Workshop

Fred A. Johnson, U.S. Geological Survey G. Scott Boomer, U.S. Fish & Wildlife Service Dave Case, D. J. Case & Associates and members of the NAWMP Revision Steering Committee





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Workshop agenda

- Yesterday:
- Introduction
 - · The Revision Vision
 - Taking a SDM approach
 - Break-out groups to:
 - Discuss the nature of the decision problem
 Identify fundamental & means objectives for waterfowl management
 - Identify some measurable attributes
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 - · Introduction to objectives hierarchies
 - Break-out groups to:
 - Construct an objectives hierarchy
 - · Identify strategic actions to achieve objectives
 - Group presentations; synthesis



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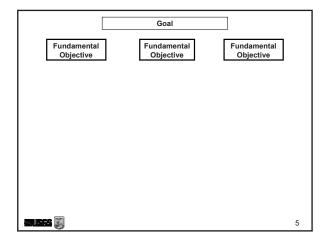
Promote a conservation ettal in the general public 1. Promote a conservation ettal in the general public 2. Maximize hunter satisfaction 2. Maximize hunter satisfaction 3. Naminize hunter satisfaction 4. Promote non-consumptive uses of waterfowl appulations in perputuly 5. Increase the understanding of ecological mechanisms doving changes in waterfowl abundance and waterfowl landscapes 6. Perpand the sources and amount of funding for waterfowl conservation activities 7. Expand the sources and amount of funding for waterfowl conservation activities 8. Perputuals the tradition of ventrowing 8. Perputuals the tradition of ventrowing 9. Perputuals the tradition of ventrowing of ventrowing one of the profit hunter of the public funding the vaterfowl conservation activities 10. Minimize loss and degradation of ventrowing (e.g. depredation, habitat destruction) 11. Minimize loss and degradation of ventrowing (e.g. depredation, habitat destruction) 12. Maximize ecological goods and services derived from ventrands and associated uplands managed for waterfowl and the satisfaction of the horith American fastan 13. Maximize ecological goods and services derived from ventrands and associated uplands managed for waterfowl 14. Maximize ecological goods and services derived from ventrands and associated uplands managed for waterfowl 15. Ensure that no species of waterfowf falls below population to prevent the profit of the profit American fastan 16. Ensure competions among instructions (talks, types, partners, etc.). 17. Increase and improve duck wintering habitat 18. Maximize the consequence of the infrastructure and funding for waterfowl conservation 18. Maximize the consequence of the infrastructure and funding for waterfowl conservation 18. Maximize the provided of the consequence of the infrastructure and funding for waterfowl conservation 18. Maximize and the facility of the derivative of the infrastructure and funding for waterfowl conservation 18. Maximize and the provided of the infrastructure

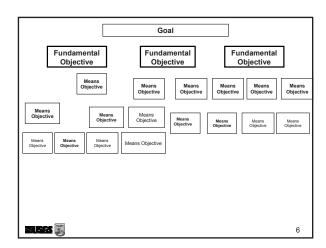
Evaluating Objectives

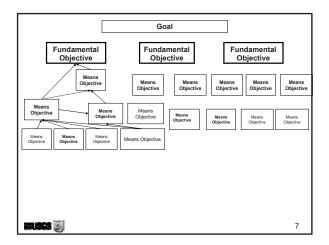
- Objective Hierarchies:
 - Group similar objectives along a gradient from fundamental to means
 - Graphically display the conceptual linkages between means objectives and fundamental objectives
 - Provide a context to develop measurable attributes
 - Provide a context to develop management actions or alternatives

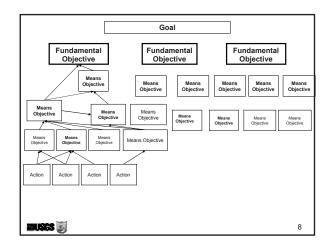


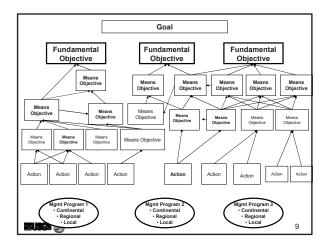
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Objectives Hierarchy: key points

- Ensures that the views of stakeholders are considered and documented
- Organizes the complexities of the waterfowl management enterprise
- Illustrates the linkages between means and fundamental objectives
- Explicitly recognizes how multiple management programs/institutions, through their actions, can affect the same means and fundamental objectives



10

Break-out Groups

- Review list of fundamental and means objectives
- Organize objectives from fundamental to means
- Specify relationships (linkages) between means and fundamental objectives
- List some measurable attributes associated with each objective
- Identify some potential actions to achieve fundamental or means objectives



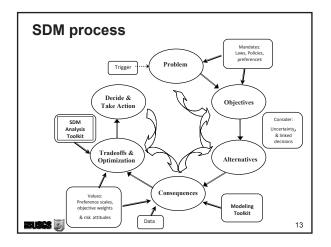
11

Break-out Groups

- Develop a graphical representation of the objectives hierarchy (PowerPoint, white board, or paper)
- Be prepared to discuss the key relationships between the fundamental and means objectives
- Be prepared to discuss some potential actions to achieve fundamental or means objectives

wires 🖏

12



Some technical details to consider

- Models link actions to outcomes that are relevant to the objectives (consequences); models are required to make predictions.
- The decision context determines the scope of the modeling and guides development.
- The initial modeling framework will have to accommodate a broad set of management alternatives to generate a prototypical consequences table.



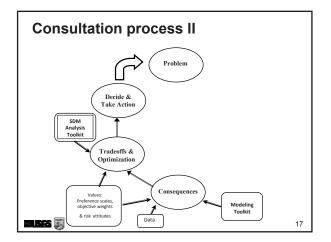
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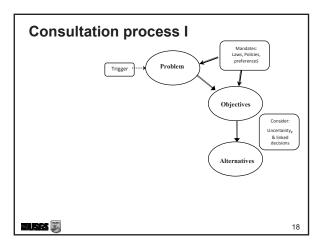
Some expected outcomes from Consultation Workshop

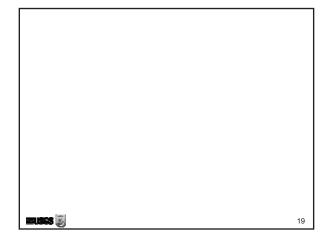
- Objectives hierarchy
- Measurable attributes
- A list of potential actions/alternatives at a very broad scale...

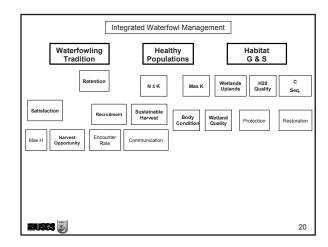


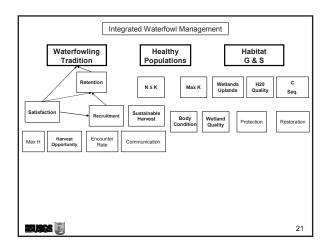


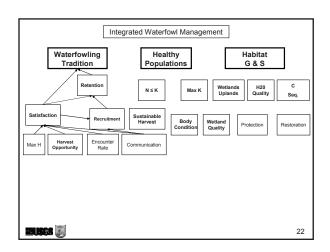


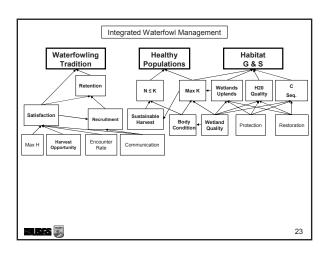


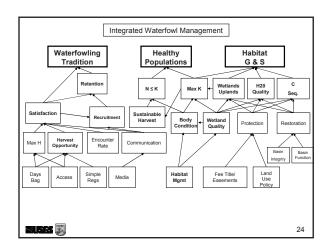


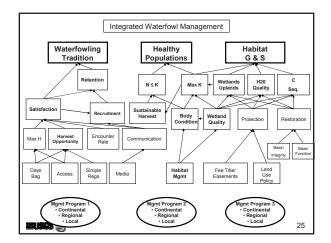


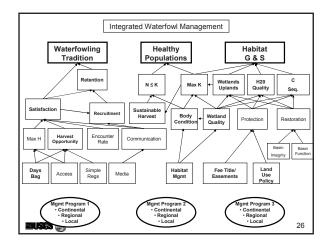


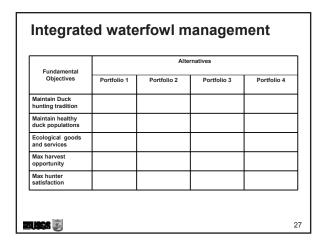


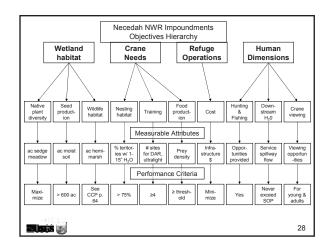


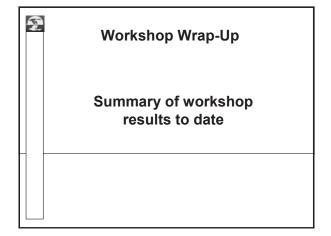






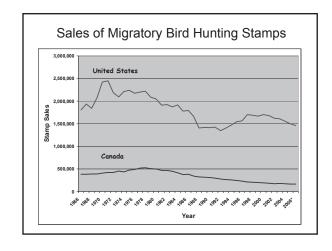


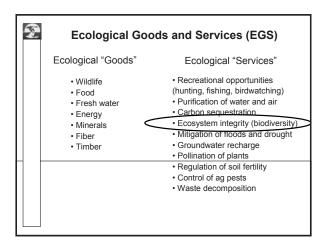


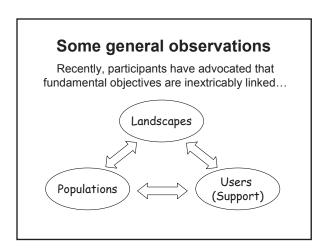


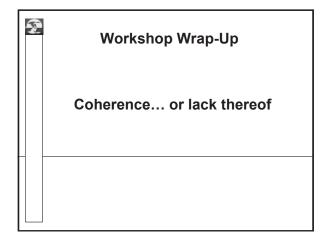
Fundamental Objectives	Miss. Flyway	Cent. Flyway	Portland (AHM Group)	Memphis (NAWMP NSST)	Edmonton Canada	Ottawa Canada	NAWMP PC	Sacramento
Maintain healthy waterfowl populations	11	VV	√√	√ √	11	√√	11	44
Perpetuate the waterfowling tradition	√√		√√	√ √		√	√√	√√
Perpetuate waterfowling and related non- consumptive uses								
Increase waterfowl hunter participation		VV						
Maximize hunt quality	V							
Maximize harvest opportunity	V							
Ensure waterfowl population viability					√	√		
Promote non- consumptive uses	V	7						

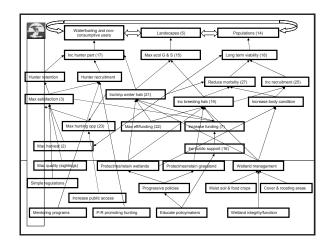
Fundamental Objectives	Miss. Flyway	Cent. Flyway	Portland (AHM Group)	Memphis (NAWMP NSST)	Edmonton Canada	Ottawa Canada	NAWMP PC	Sacramente
Promote conservation ethics in the public	√ √		V					
Increase Public Support for Waterfowl Hunting and Habitat Conservation		√						
Maintain/increase/ maximize EGS of waterfowl habitat	√√	√ √	N N	√		√		
Max. cons. of biodiversity while managing wetlands and associated uplands for waterfowl					V			
Maintain landscapes capable of sustaining healthy waterfowl populations			√√	11	√√	VV	√ √	VV

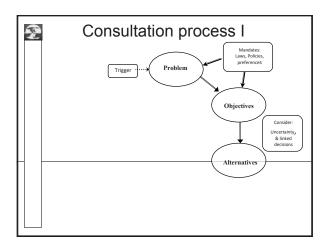


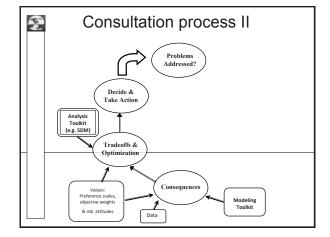










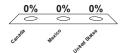


- Express your opinion (via Turning Point) about the list of potential objectives
- Purpose is NOT to conduct a "vote," but a means to:
 - ensure everyone has a "voice" in a short period of time
 - determine the degree of variation in opinion
 - understand the sources of variation
 - have a record of (anonymous) responses
- · If you have participated in another workshop (e.g. AHM), your input is already captured

- · First step is to gather some basic demographics (nationality, affiliation, etc)
- · Then for each potential objective provided, indicate whether you think it is:
 - 1 = not a relevant waterfowl management objective
 - 2 = a fundamental waterfowl management objective
 - 3 = a means waterfowl management objective

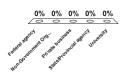
What is your country of residence?

- 1. Canada
- 2. Mexico
- 3. United States



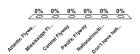
What is your primary employment affiliation?

- 1. Federal agency
- 2. Non-Government Organization
- 3. Private business
- 4. State/Provincial agency
- 5. University



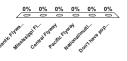
Which ONE best describes the geography for which you have waterfowl *habitat* responsibilities?

- 1. Atlantic Flyway
- 2. Mississippi Flyway
- 3. Central Flyway
- 4. Pacific Flyway
- 5. National/multiple Flyways
- 6. Don't have habitat responsibilities



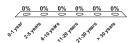
Which ONE best describes the geography for which you have waterfowl population responsibilities?

- 1. Atlantic Flyway
- 2. Mississippi Flyway
- 3. Central Flyway
- 4. Pacific Flyway
- 5. National/multiple **Flyways**
- 6. Don't have population responsibilities



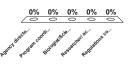
How long have you been active in waterfowl management?

- 1. 0-1 year
- 2. 2-5 years
- 3. 6-10 years
- 4. 11-20 years
- 5. 21-30 years
- 6. > 30 years



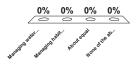
Which one hat do you most frequently wear when it comes to waterfowl management?

- 1. Agency director/ executive director
- 2. Program coordinator or administrator
- 3. Biologist/Scientist
- 4. Researcher/ academic
- 5. Regulations committee member



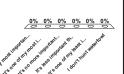
I spend most of my time on...

- 1. Managing waterfowl populations (sport harvest, subsistence take, take to reduce population
- 2. Managing habitat
- 3. About equal
- 4. None of the above

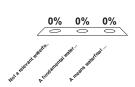


How important is waterfowl hunting to you?

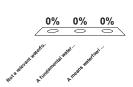
- 1. It's my most important recreational activity
- It's one of my most important recreational activities
- It's no more important than my other recreational activities
- 4. It's less important than my other recreational activities
- 5. It's one of my least important recreational activities
- 6. I don't hunt waterfowl



- 1. Promote a conservation ethic in the general public
- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective

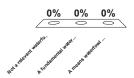


- 2. Maximize waterfowl harvest
- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



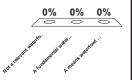
3. Maximize hunter satisfaction

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



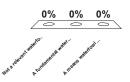
4. Promote non-consumptive uses of waterfowl

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



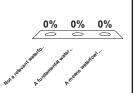
5. Maintain landscapes capable of sustaining waterfowl populations in perpetuity

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



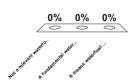
6. Increase the understanding of ecological mechanisms driving changes in waterfowl abundance and waterfowl landscapes

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



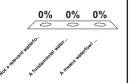
7. Expand the sources and amount of funding for waterfowl conservation activities

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



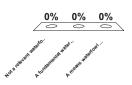
8. Perpetuate the tradition of waterfowling

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



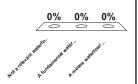
9. Minimize harvest of under-abundant waterfowl species

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



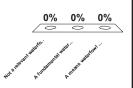
10. Minimize loss and degradation of wetlands and associated uplands

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



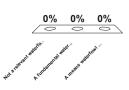
11. Provide more public hunting opportunities

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



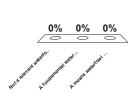
12. Minimize the detrimental effects of overabundant populations (e.g. depredation, habitat destruction)

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



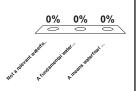
13. Maintain/establish regulations that are simple and will lead to high compliance rates among hunters

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



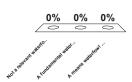
14. Maintain healthy waterfowl populations as part of the North American fauna

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



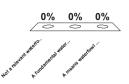
15. Maximize ecological goods and services derived from wetlands and associated uplands managed for waterfowl

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



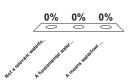
16. Increase public support for waterfowl conservation

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



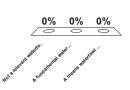
17. Increase waterfowl hunter participation

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



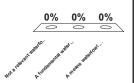
18. Ensure that no species of waterfowl falls below population levels necessary for longterm viability.

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



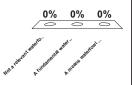
19. Increase and improve duck breeding habitat

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



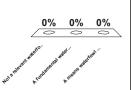
20. Ensure cooperation among jurisdictions (state, flyway, partners, etc.)

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



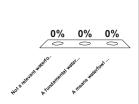
21. Increase and improve duck wintering habitat

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



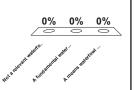
22. Maximize the efficiency and effectiveness of the infrastructure and funding for waterfowl conservation

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



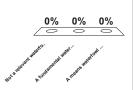
23. Provide maximum hunting opportunity

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



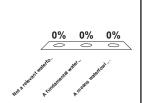
24. Maintain the social license to hunt

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



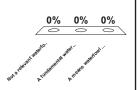
25. Increase duck recruitment

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



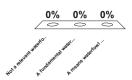
26. Increase and improve duck migration habitat

- 1. Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



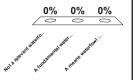
27. Reduce mortality from disease and contaminants

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



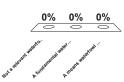
28. Maintain a broad fall and winter distribution of waterfowl

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



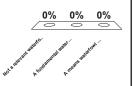
29. Establish the infrastructure needed to ensure coherence in waterfowl management

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



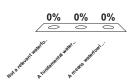
30. Formalize the institutions needed to incorporate human dimensions into waterfowl management decisions

- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- 3. A means waterfowl management objective



31. Increase hunter education and communications efforts

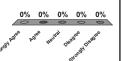
- Not a relevant waterfowl management objective
- 2. A fundamental waterfowl management objective
- A means waterfowl management objective



Workshop Evaluation

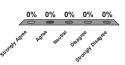
The meeting objective "To gather input on the overarching objective of waterfowl management, and opinions how such objectives might best be pursued form a large-scale strategic perspective" was met.

- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree



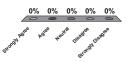
The meeting objective "To obtain information from stakeholders that will help inform the Plan Committee as they develop the scope and nature of the pending Plan Revision" was met.

- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree



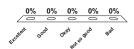
The meeting objective "To discuss with waterfowl managers the practical aspects of fulfilling 'A Vision for Integrated Waterfowl Management' " was met.

- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree



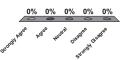
How do you feel about the Revision process as described at this meeting?

- 1. Excellent
- 2. Good
- 3. Okay
- 4. Not so good
- 5. Bad



Overall, I thought this workshop was a success

- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree



Appendix C - Round 2 Workshop Materials

Round 2 NAWMP Revision Stakeholder Workshop Agenda

Workshop Goals

- 1. To summarize Round 1 workshop results and provide an update on the NAWMP Plan Revision process.
- 2. To clarify the fundamental objectives and associated measurable attributes.
- 3. To seek input on the values associated with the fundamental objectives.
- 4. To discuss how best to formulate new objectives in the Plan Revision.
- 5. To initiate discussion of institutions and processes that will facilitate integrated waterfowl management.
- 6. To provide feedback to the NAWMP Plan Committee as they move forward with the Plan Revision.

8:00 a.m.	Welcome and Introductions
8:15	Orientation to the NAWMP Revision Process and Review of Round 1 Workshops—Jim Ringelman
9:00	Clarifying the Fundamental Objectives of the NAWMP—Jim Ringelman
9:15	 Table group discussions about the fundamental objectives Discuss meaning and intent Identify most important measurable attributes
10:15	Break
10:30	Valuing Fundamental Objectives—Jim Ringelman, DJ Case & Associates
11:30	Table group reports of morning discussions
Noon	LUNCH
1:00	Setting NAWMP objectives—Jim Ringelman, DJ Case & Associates Presentation and facilitated discussion
2:00	Institutions and Processes—Jim Ringelman
2:15	Table group discussions, Institutions and Processes
3:15	Break
3:30	Table group report out and facilitated discussion, institutions and processes—DJ Case & Associates
4:15	Facilitated discussion, NAWMP revision—DJ Case & Associates
4:30	Workshop Evaluation
4:45	Wrap-Up—Jim Ringelman
5:00 p.m.	Adjourn

NAWMP Revision Workshops - Round 2

Draft Purpose Statement (2010)

The purpose of the Plan is to sustain North America's waterfowl populations and their habitats at levels that satisfy human desires and perpetuate waterfowl hunting. Plan goals will be accomplished through partnerships guided by sound science.

Fundamental objectives

- Maintain healthy waterfowl populations in North America.
- Conserve landscapes capable of sustaining waterfowl populations.
- Perpetuate waterfowl hunting.
- Sustain opportunities for the public to view and enjoy waterfowl and waterfowl landscapes.

NAWMP Revision Round 2 Workshop Goals

- 1. To summarize Round 1 workshop results and provide an update on the NAWMP Plan Revision process.
- 2. To clarify the fundamental objectives and associated measurable attributes.
- 3. To seek input on the values associated with the fundamental objectives.
- 4. To discuss how best to formulate new objectives in the Plan Revision.
- 5. To initiate discussion of institutions and processes that will facilitate integrated waterfowl management.
- 6. To provide feedback to the NAWMP Plan Committee as they move forward with the Plan Revision.

Glossary

(Adapted from: CSP3171: Introduction to structure decision making, National Conservation Training Center, Shepherdstown, WV [http://training.fws.gov/EC/Resources/Decision_Analysis/dec_08/glossary.pdf])

Objective - An explicit statement of a desired outcome, typically expressed in subject-verb-object sentence structure. Objectives are always a reflection of values, so setting objectives falls in the realm of policy and should be informed by legal and regulatory mandates as well as stakeholder viewpoints.

Fundamental Objective – A fundamental objective is one of the ultimate goals of a decision. It is something that we care about for its own sake, or which is an end in itself. An objective can be identified as fundamental by asking why until the answer is "just because." A fundamental objective answers the question "Why?"

Means Objective – A means objective is one that is not sought for its own sake, but rather is a means of achieving a more fundamental objective. A means objective answers the question "How?"

Measurable Attribute – A metric used to assess achievement of an objective.

(over)

Actions/Alternatives – Different management actions that are available. This element requires explicit articulation of the alternatives available to the decision maker. The range of permissible options is often

constrained by legal or political considerations, but structured assessment may lead to creative new alternatives.

Structured Decision Making (SDM) – Structured decision making (SDM) is a process that provides a framework to help us think through a decision in a methodical way—it is common sense made explicit. The term structured is misleading to the extent that this is not a rigid process that limits creativity. In fact it's quite the opposite—by providing a framework and various analytical tools, it melds values and science into decisions in a very documentable way. The focus is value-based – articulating the decision to be made and our objectives (values) relative to that decision.

Assigning Values to Waterfowl Management Objectives

This exercise concerns the four objectives for waterfowl management that emerged during Round I workshops for the North American Waterfowl Management Plan revision. Those objectives are:

- 1. Perpetuate waterfowl hunting.
- 2. Sustain opportunities for the public to view and enjoy waterfowl and waterfowl landscapes.
- 3. Maintain healthy waterfowl populations in North America at levels sufficient to fulfill human desires (#1 and #2 above) and in harmony with the ecosystems on which waterfowl depend.
- 4. Conserve landscapes capable of sustaining waterfowl populations at levels sufficient to satisfy human desires (#1 and #2 above) in perpetuity.

We would first like to know how you view these objectives in terms of their overall importance to waterfowl management and conservation. Assume you have 100 points you can allocate among these four objectives based on their importance, and enter the point values on the lines next to each objective under "initial values assigned". You should consider how each objective is important "in and of its own sake" as well as how it can help to accomplish one or more other objectives. For example, perpetuating hunting also helps to conserve landscapes because of the funding provided by hunters.

Now we would like you to specify why you think these objectives are important. We'll call the "fundamental value" the importance of an objective "in and of its own sake". An example would be how much you value perpetuating waterfowl hunting just because it's an important and meaningful activity, and you don't want to see it go away. In contrast, the "means value" of an objective is the contribution one objective plays in helping to achieve another objective. An example would be the importance of waterfowl hunting (and associated waterfowl hunters) in helping to conserve landscapes (by providing funding, etc.).

Start by dividing up the "initial value" points you assigned to "conserve landscapes" in a way that reflects how you view the fundamental and means values. Enter points representing the fundamental value in the box that says "conserve landscapes", and allocate means values in boxes A, B, and C to reflect how you think conserving landscapes contributes to "healthy populations", "waterfowl hunting", and "viewing and enjoyment", respectively. Note that the total points you allocate to the fundamental and means objectives should equal the total you assigned for initial value of "conserve landscapes". If you find you want to revise your initial values, it's okay to go back and do that.

Using the approach described above, move to "healthy populations" and assign a fundamental value and means values (boxes D and E); then move on to "waterfowl hunting" (fundamental box and F); then to "viewing and enjoyment" (fundamental box and G). Here are some things to think about as you consider each means value:

- "A" represents the value that landscape conservation makes to healthy populations. Consider how such conservation could enhance waterfowl reproductive and survival rates, increase carrying capacity, etc.
- "B" represents the value of conserving landscapes in helping perpetuate waterfowl hunting. Consider how waterfowl "landscapes" (e.g., wetlands) provide places to hunt as well as habitat for waterfowl.
- "C" represents how conserving landscapes can help achieve the objective of waterfowl viewing and enjoyment. One connection is the extent to which waterfowl landscapes (habitat) provide places for people to view and enjoy waterfowl.
- "D" reflects the value that healthy populations play in perpetuating waterfowl hunting. Consider how healthy populations mean more birds in the duck marsh and more liberal seasons.
- "E" reflects the value that healthy populations play in opportunities to view and enjoy waterfowl. Consider the relationship between more birds and greater viewing opportunities.
- "F" represents the role that perpetuating waterfowl hunting plays in helping to conserve landscapes. Think about the relationship between waterfowl hunting/hunters, and the resulting financial/political support for landscape conservation.
- "G" represents the role that the viewing/enjoyment plays in helping conserve landscapes. Think about the public's enjoyment of waterfowl, the number of waterfowl viewers, and the resulting financial/political support for landscape conservation.

When you have filled in all of the fundamental and means boxes, look at all of the values and make sure they reflect your overall view of the waterfowl management enterprise. If not, adjust your responses.

Thank you for participating in this exercise!

Valuing Waterfowl Objectives Exercise Initial values assigned: Conserve landscapes Healthy populations Waterfowl hunting Viewing and enjoyment Healthy Conserve **Populations** Landscapes D G Viewing & Waterfowl Hunting Enjoyment Keypad number: Workshop location: Comments:



The North American Waterfowl Management Plan - A Model for Conservation -The Future of Waterfowl





The NAWMP

A new model for conservation (for '86)

- Landscape-scale effort "Joint Ventures"
- Partnerships and leveraging resources
- Numerical population objectives
- Implied goal of sustaining sport

hunting

-Regulatory elements



The NAWMP

Lack of clarity over...

- "Average environmental conditions"
- Role of harvest in achieving population objectives
- Hunter retention, participation,

success

• Explicit goals for non-consumptive users



The NAWMP Updates: 1994, 1998, 2004

- Expanded partnerships (incl. Mexico)
- Habitat goals and geography expanded
- Biodiversity, landscape-level conservation, ecological services themes
- Advocated for stronger science foundation and adaptive management
- Call for a "progress assessment"



The NAWMP Assessment - 2007

- Comprehensive review noted many successes
- Kev needs:
 - Tracking accomplishments and landscape change
 - Clear and robust accountability framework
 - Review population and habitat objectives
 - Increase attention to agriculture & water policy
 - Improve monitoring & assessment; revitalize
 - Greater linkage among NAWMP parts
 - Integrating harvest, habitat and stakeholders; complementary "Joint Task Group" created



Linking Harvest, Habitat and Stakeholders -The "Joint Task Group" Report

"Yield curve approach" - theoretical coherence between harvest and habitat goals (incl. NAWMP)

Other recommendations...

- Focus more science on reducing key uncertainties
- Convene human dimensions working group
 - Assess stakeholder values
 - ✓ Develop approach for explicitly incorporating HD information into management decisions
- Convene a waterfowl management policy summit: "Future of Waterfowl Management Workshop"



Messages from "Future of Waterfowl Management" Workshop (2008)

- 1. Resources dedicated to conservation not optimally allocated
 - Too much time spent setting annual regulations
 - Need better monitoring and evaluation
- 2. Federal/state/provincial activities to conserve waterfowl & habitats have declined
- 3. Too few resources directed towards understanding waterfowl hunters
- 4. Federal agencies less attentive to waterfowl science & monitoring/ evaluating



Messages from "Future of Waterfowl Management Workshop"

Low Success:

- Complementary & coherent goals for harvest and habitat management
- Understanding & incorporating hunter expectations and satisfaction
- Simplifying waterfowl regulations
- Setting and revising population using a clear process
- Rallying support of non-hunters



Messages from "Future of Waterfowl Management" Workshop (2008)

Proposed Actions:

- ✓ A group or venue be created to continue the work of the Human Dimensions Working Group. (94% agreed or strongly agreed).
- ✓ The NAWMP update should be used to develop more coherent goals for waterfowl harvest and habitat management. (88% agreed or strongly agreed).



NAWMP Revision: Results of Round I Consultations





Purpose of R-1 Workshops

- Solicit responses to the NAWMP Revision "Purpose Statement" and seek input on a "Problem Statement"
- Identify fundamental and means objectives for waterfowl management
- Discuss alternative, broad-scale (high level) strategies for achieving objectives
- Identify actions and measurable attributes associated with objectives
- Inform the management community about the NAWMP revision and engage them as participants in the process



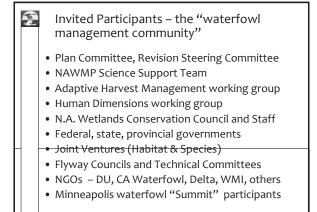
NAWMP Revision: R-1 Consultations

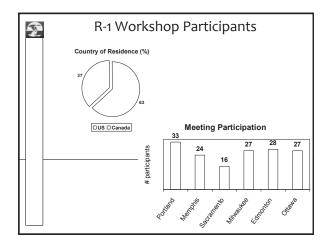
Workshops:

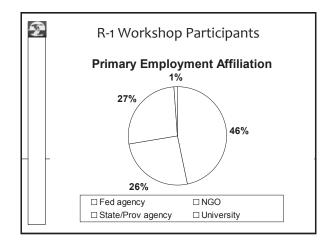
- Portland Dec 1-2, 2009
- Memphis Jan 27-28, 2010
- Edmonton Feb 1-2, 2010
- Ottawa Feb 16-17, 2010
- Sacramento Feb 25-26, 2010
- Milwaukee Mar 22, 2010

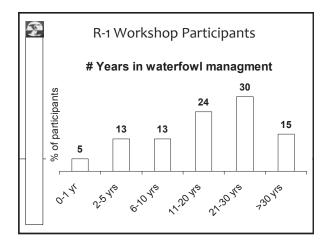
Additional input:

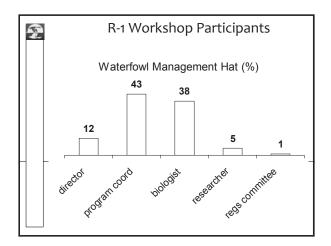
- Mexico
- Flyways
- Ducks Unlimited, Delta Waterfowl
- Website messages from individuals

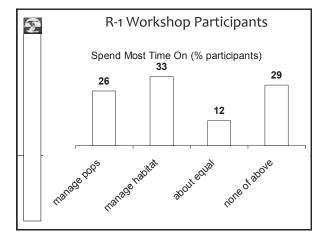














Clarifying the "Problem"

- Losing habitat faster than we are restoring/conserving it
- Losing hunters despite liberal regulations and healthy populations
- Interest in waterfowl conservation in agencies and among the public is waning
- Allocation of resources in waterfowl management is inefficient



Revised Problem Statement

"Although the waterfowl management community is in general agreement on the fundamental objectives of waterfowl management, it has not reached consensus on the means to achieve those objectives, nor the framework necessary for integrating multiple decisions in a way that efficiently allocates resources and coordinates actions."



Revised Purpose Statement

"The purpose of the Plan is to sustain North America's waterfowl populations and their habitats at levels that satisfy human desires and perpetuate waterfowl hunting. Plan goals will be accomplished through partnerships guided by sound science".



Objectives of Waterfowl Mgmt

Started with 31 candidate objectives derived from earlier meetings:

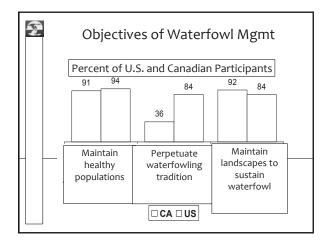
• Patuxent, Mississippi Flyway, DU

Offered starting point for discussions

• Obtain quantitative data via TurningPoint technology

Edits and new objectives encouraged

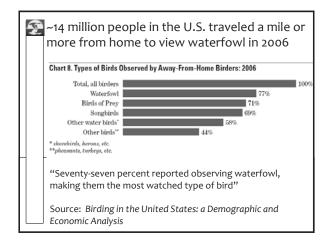
Edits & additions examined during synthesis

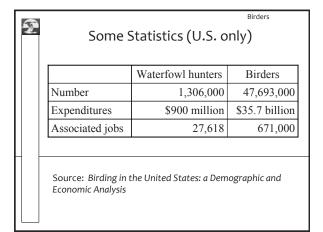




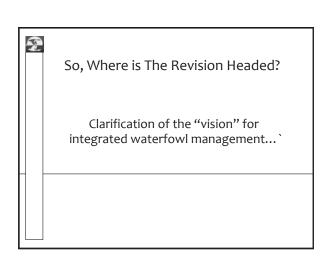
New or Modified Objectives: Other Users

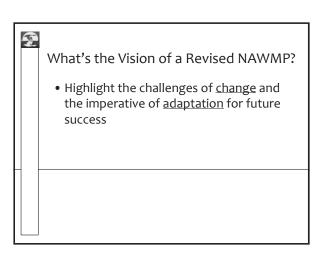
- Provide more public non-hunting opportunities
- Outreach to non-hunting community
- To provide waterfowl populations adequate to meet the requirements of the waterfowlers, aboriginal peoples and other users
- Maintain the tradition, societal values, and economic benefits of hunting and other recreational uses of waterfowl
- Increase support of non-consumptive users for waterfowl conservation
- Increase non-hunter participation
- Maximize non-hunting recreational opportunities
- Maximize non-hunting recreational satisfaction

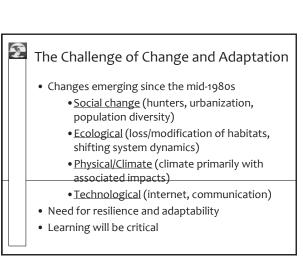


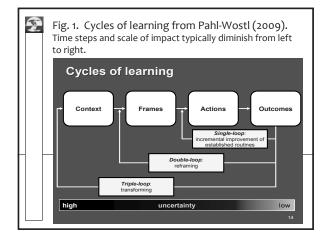


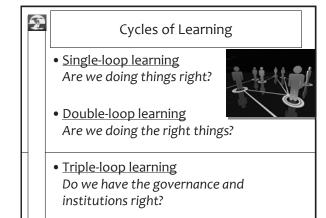
Fundamental Objectives of the NAWMP
 Maintain healthy waterfowl populations in North America.
 Conserve landscapes capable of sustaining waterfowl populations.
Perpetuate waterfowl hunting.
Sustain opportunities for the public to view and enjoy waterfowl and waterfowl landscapes.

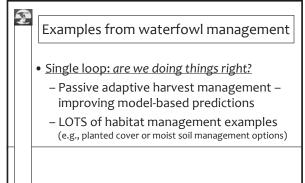


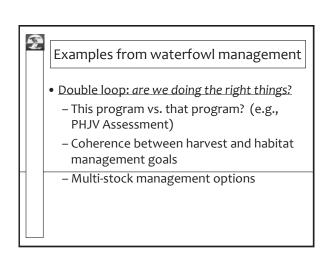


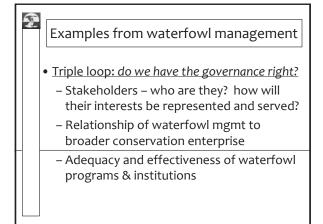


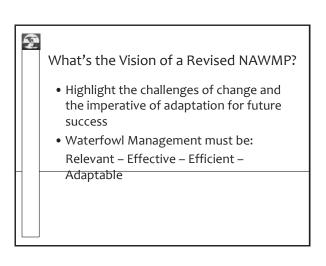














What's the Vision of a Revised NAWMP?

- Highlight the challenges of change and the imperative of adaptation for future success
- Waterfowl Management must be: Relevant - Effective - Efficient -Adaptable
- Strengthened consensus on future directions for waterfowl management



What's the Vision of a Revised NAWMP?

An integrated approach that considers habitat, populations, and human desires in objective setting, decision-making and resource allocation

A better focus on the things that matter most to the efficient achievement of renewed NAWMP goals



What's the Vision of a Revised NAWMP?

Set in motion changes that will establish an integrated system of waterfowl conservation featuring:

- Explicit and coherent objectives to guide habitat, harvest and human-dimension programs
- Means for coordinated actions to realize those objectives.



Five Critical Elements

- 1. A set of widely supported objectives
- 2. A working conceptual framework that allows managers to balance tradeoffs among objectives
- 3. Goals that are linked and coherent across
- 4. Managers using linked decision frameworks to efficiently allocate resources to achieve those objectives
- 5. Institutional and cultural support to enable such integrated management actions



Integration of waterfowl management also will require...

- · Hard thinking about means objectives and system drivers
- Dealing with current uncertainties (e.g., causal relationships); obtaining new information in the long term to address them
- A willingness to adapt and change as new information comes to light
- A high degree of explicitness and transparency
- Time to work through these issues



What is Achievable in the Near Term?

- NAWMP has always been a high-level strategic guidance document... that won't change
- Other institutions have important roles to play in the evolution of waterfowl management
- Many important details remain to be worked out – an "Action Plan"
- As in 1986, how far and how fast we go will depend upon our collective will



Moving Forward

Within the 2012 Revision:

- Achieve broad consensus on goals and objectives of waterfowl conservation
- Articulate, at a conceptual level, the desired future state of waterfowl management as an integrated enterprise
- Develop momentum needed to establish and fully implement such a framework (Action Plan)
- Identify key functional linkages among objectives and commit to testing these through adaptive management or directed research



Moving Forward

Immediately following the 2012 Revision:

Within the next 2 years...

- Establish quantifiable objectives for population and habitat conservation, harvest opportunity, and user participation... with acknowledged tradeoffs among them
- Implement a general integrated framework for making linked harvest, habitat, and user management decisions
- Implement monitoring and evaluation programs to track progress toward objectives and reduce uncertainties about key functional linkages among goals



Moving Forward

Every 5 years thereafter, review and assess...

- Progress towards objectives
- External factors affecting NAWMP outcomes
- Progress in understanding functional linkages among objectives
- Commitments to monitoring and assessment
- Institutional processes for integration, and their effectiveness, efficiency, and responsiveness to change

At about 10-year intervals, review appropriateness of objectives themselves, governance structures, etc.



Moving Forward

Relevant - Effective - Efficient - Adaptable



Goals of this workshop

- ✓ Summarize Round 1 workshop results & provide update on the NAWMP Plan **Revision process**
- Clarify the "fundamental" objectives and associated measurable attributes
- Seek input on values associated with the "fundamental" objectives



Goals of this workshop

- Discuss how best to formulate new objectives in the Plan Revision
- Initiate discussion of institutions and processes that will facilitate integrated waterfowl management
- To provide any other feedback to the NAWMP Plan Committee as they move forward with the Revision.



Why do these things?

Clarity is important!

• What do we want to accomplish?

Why do we value objectives?

• For their own sake, or because they help accomplish another objective?

Numerical objectives have been at the heart of NAWMP.

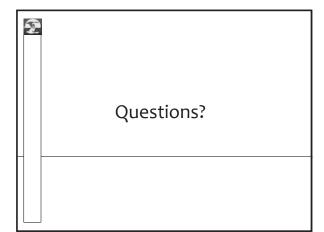
• How should these be established, and why?

Limited resources for monitoring.

• What are the most meaningful, measurable attributes?

Our institutions and processes must foster coherence for greater efficiency and to enable adaptation.

• Are we ready?





Clarifying "Fundamental" Objectives





Clarifying the Fundamental Objectives

What do we really mean by...

Maintain healthy waterfowl populations in North America

- What's "healthy"? Just numbers? Some demographic rate?
- Do distributions matter?
- What do we consider "in harmony" with their ecosystems?



Clarifying the Fundamental Objectives

What do we really mean by...

Conserve landscapes capable of sustaining waterfowl populations

- What is meant by "conserve"?
- What is meant by "sustaining"?
- What does this imply about "net change"?
- What constitutes "landscapes"?



Clarifying the Fundamental Objectives

What do we really mean by...

Perpetuate waterfowl hunting

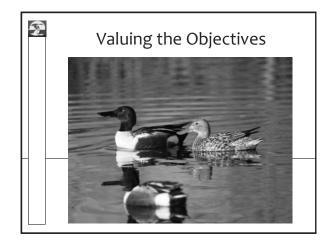
- · At what level?
- Hunter numbers? Success? Days afield? Satisfaction?
- What type of hunter (multiple motivations)?



Clarifying the Fundamental Objectives What do we really mean by...

Sustain opportunities for the public to view and enjoy waterfowl and waterfowl landscapes

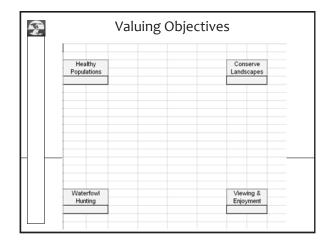
- At what level?
- Viewer numbers? Success? Days afield? Satisfaction?
- Target a certain demographic?
- Or is it \$\$ or influence in affecting conservation policy?

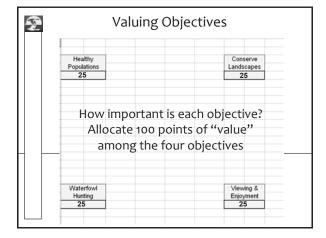


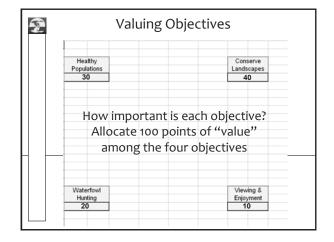


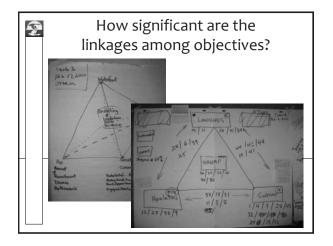
Valuing "Fundamental" Objectives

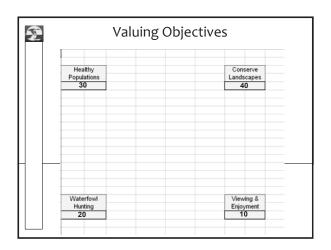
- How important are each of the objectives?
- Should they all be "valued" the same?
- Base responses on personal beliefs about the waterfowl management enterprise as it exists today.

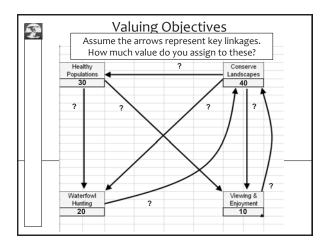


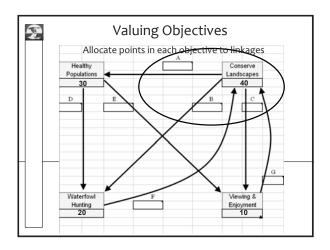


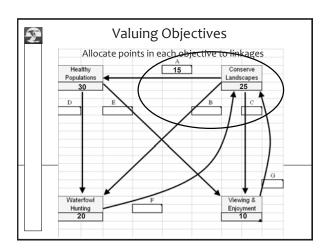


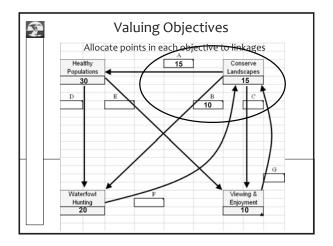


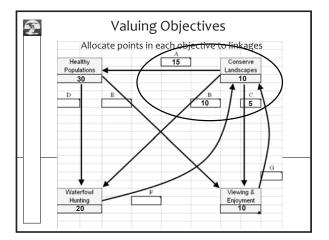


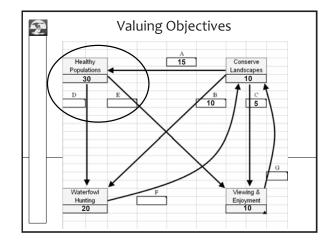


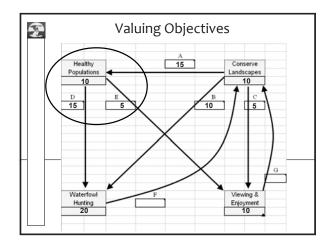


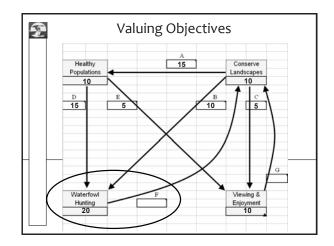


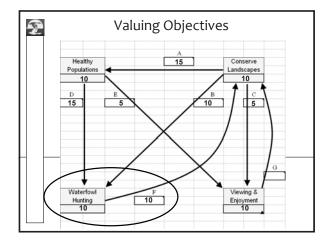


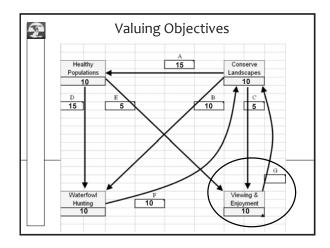


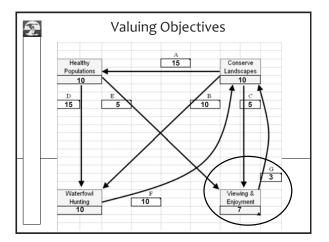


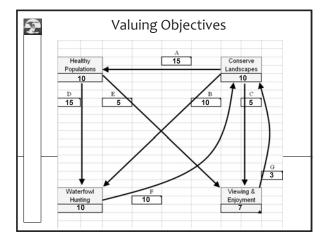


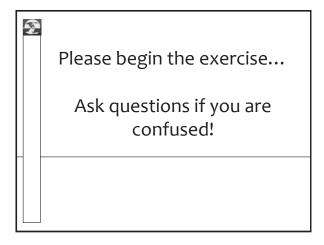


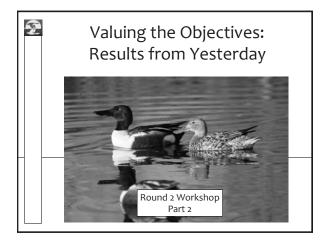








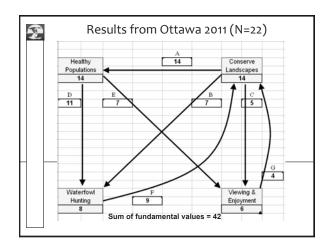


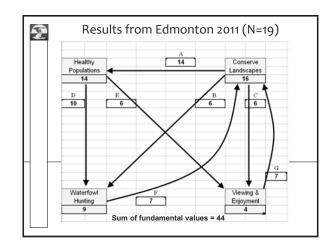


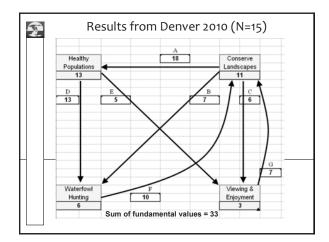


Valuing "Fundamental" Objectives

- How important are each of the objectives?
- Should they all be "valued" the same?
- Base responses on personal beliefs about the waterfowl management enterprise as it exists today









Implications of "Valuing Objectives" Exercise

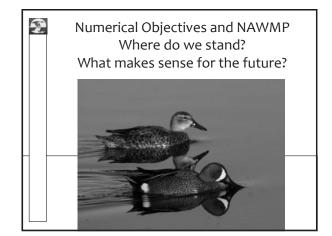
- Evidence that current objectives are not truly "fundamental" (a possible complication for structured decision making approaches)
- Illustrates the strong linkages within the waterfowl management enterprise
- Provides a sense of the magnitude of dependencies
- Underscores the need for a coherent management system
- Hopefully a valuable heuristic exercise



Some Practical Implications

If we "conserve landscapes"...

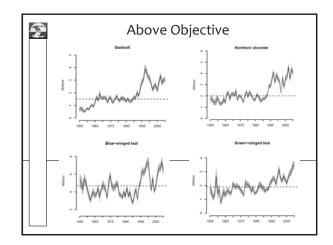
- ... to provide healthy populations, then we should target landscapes with greatest demographic impact
- ... to perpetuate hunting, then target landscapes in areas with greatest number of hunters
- ... to perpetuate viewing/enjoyment, then target landscapes near urban centers
- ... just because we like to watch sunrise in a marsh, then can work almost anywhere

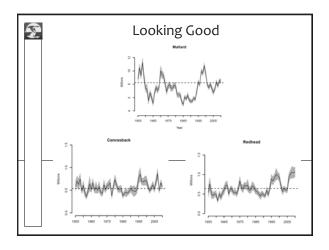


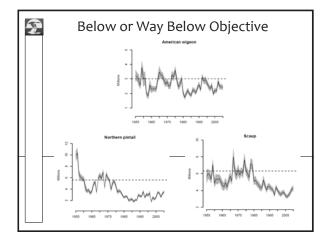


About Numerical Objectives

- Current population objectives essentially unchanged since original (1986) plan
- Habitat objectives have increased
- This session focuses on...
 - A quick review of population objectives
 - Discussing why we would want numerical objectives
 - Describing the desirable characteristics of quantitative objectives
 - Seeking input on how objectives should be developed

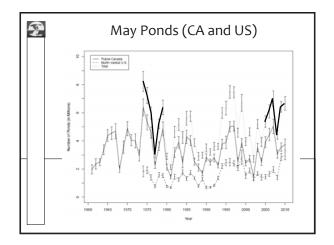


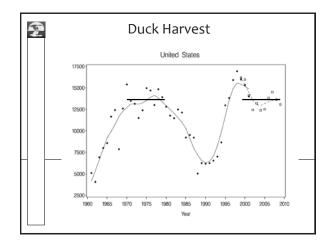


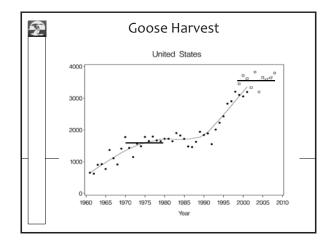


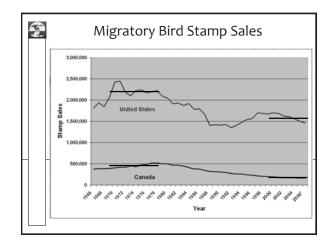
Other Waterfowl and Context Issues

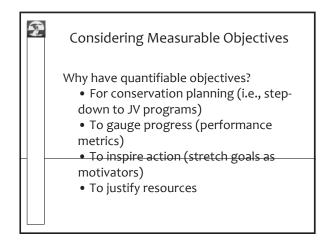
- · Most goose populations at or above objectives; many goose management plans
- Sea ducks problematic difficult to survey, but most thought to be in decline
- Moreover, context is important but sometimes inadequately specified; e.g.,
- objectives to be met:
 - during "years of average environmental conditions"
 - under <u>?</u> harvest management regime













Considering Measurable Objectives

Characteristics of useful objectives

- Strong science foundation
- Transparent
- Measurable
- Achievable (with some stretch)



Considering Measurable Objectives

How should measurable objectives be developed?

- Based on input from those charged with achieving them
- Closely tied to goals ("fundamental" objectives)
- With an understanding of interrelationships among objectives
- Consistent with existing plans(?)



Considering Measurable Objectives

What are special considerations in establishing numeric objectives for waterfowl?

- Boom-bust nature of many waterfowl populations
- Partial controllability in many areas
 - Populations driven by weather (precip)
 - ➤ Habitat driven by economic/social drivers
 - > Participation in hunting driven by social factors



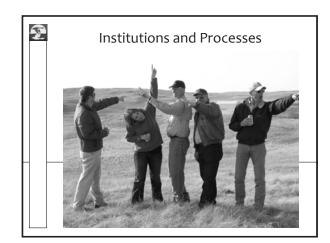
Considering the Objectives

Turning Point exercise

- Introduce issue
- Conduct poll
- Discuss responses
- No right or wrong answers
- Responses will help inform objectivesetting process during 2-year implementation phase



Turning Point Exercise





Institutions and Processes Adequate for Integrated Management

Two Basic Challenges:

- 1) Setting coherent multiple objectives that flow from the Plan's fundamental goals.
- 2) Managing adaptively toward those objectives in the years ahead.



Institutions and Processes Adequate for Integrated Management

1) Setting Objectives:

By what social process should we go about setting specific coherent multiple objectives for waterfowl management that may include elements of population size, landscape conditions, and human use? Who would do this? With what technical support?



Institutions and Processes Adequate for Integrated Management

For instance.

- How might we reconcile a desire for additional harvest opportunity with barriers to increasing carrying capacity?
- How might we decide the most appropriate approach to multi-stock harvest management and plan habitat actions accordingly?
- How might hunter participation goals be set across multiple jurisdictions?



Institutions and Processes Adequate for Integrated Management

2) Managing Adaptively:

Assuming that we accomplished this objective setting, again from a process point of view, how will we monitor progress toward achieving NAWMP goals and adapt our actions in light of those results? There are both administrative and technical aspects of this challenge.



Institutions and Processes Adequate for Integrated Management

For instance,

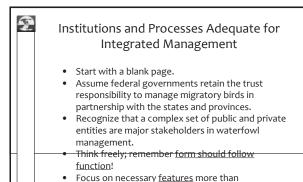
- What recurring decisions would need to be made? How often?
- Who would make such decisions?
- How would decisions be coordinated across scales and among jurisdictions?
- From where would technical support come?



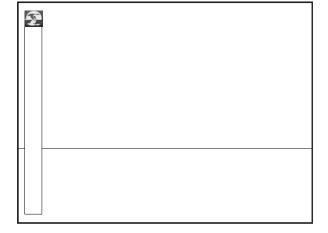
Institutions and Processes Adequate for Integrated Management

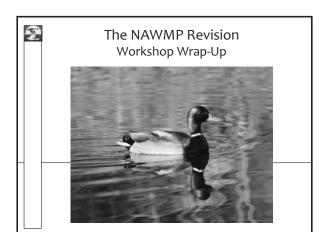
Can we rely on existing institutions and processes to achieve coherent adaptive actions, or might we need some new overarching coordination functions?

If so, what form should that take?



institutional details



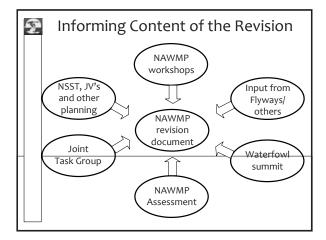




What's the Vision of a Revised NAWMP?

Set in motion changes that will establish an integrated system of waterfowl conservation featuring:

- Explicit and coherent objectives to guide habitat, harvest and human-dimension programs
- Means for coordinated actions to realize those objectives.





Keeping Informed, Seeking Input

NAWMPrevision.org

- "Feedback Form" -- on-line questions
- FAQ's
- Workshop summaries
- Relevant reports (e.g., NAWMP

Assessment; Joint Task Group)

• Communiqués issued periodically to update progress



Ensuring Coordination with Others

- Many entities are working on related issues. We're aware of them and talking with them.
 - NSST
 - Work Plan being revised
 - Developing demographic objectives at JV scales
 - Developing regional habitat objectives that account for environmental variation
 - Aggregating estimates of carrying capacity ("K") across populations and space



Ensuring Coordination with Others

- Many entities are working on related issues. We're aware of them and talking with them.
 - Working groups on species life cycle models
 - Northern Pintail
 - Scaup
 - Black Duck
 - Species Joint Ventures
 - Flyway goose & swan management plans



Ensuring Coordination with Others

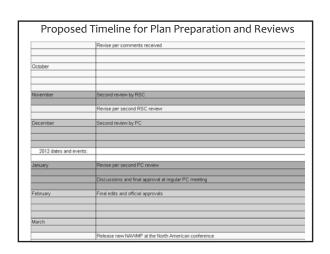
- Many entities are working on related issues. We're aware of them and talking with them.
 - HMWG (Harvest Management Working Group... formerly the AHM WG)
 - On-going AHM analyses and recommendations
 - Considering and responding to new EIS on hunting
 - Various hunter-related work (zones & splits & hunter responses; simple vs. complex regulations)
 - The Human Dimensions Working Group



Members of the Writing Team

- Jim Ringelman (Chair) NAWMP; DU
- Mike Anderson NAWMP; IWWR/DUC
- Bob Clark Env. Canada; U of SK
- John Eadie UC Davis
- Greg Soullierre UMR/GL JV; FWS
- Andy Raedeke MO Dept Cons; MS flyway
- Mark Koneff -- USFWS

January	Revise and finalize outline approved by the PC in Vancouver; decide roles and
	responsibilities; develop firmer timeline
	Start drafting preliminary and contextual pieces
February	Work on "new content" text on topics that emerged consistently at workshops
March	
March	
	Face-to-face meeting after RSC digest workshop results (@ North American conference)
	Prepare and refine "new content" material; complete working draft
April	
May	
	Completed, working draft
	Review of draft by RSC
June	Revise draft based on RSC comments
	Review of draft by PC
July	Revise draft based on PC comments
	Distribute first draft for general review and comment





The NAWMP Revision: Guiding Philosophy, Form and Contents

- Provides strategic guidance; offers substantive content based on wealth of information
- Establishes momentum, and sets clear direction, for a coherent management system
- Companion "Action Plan" recommends "who does what, by when"
- Acknowledges need for coordination with other efforts also underway



The Revised NAWMP

- ✓ Relevant
- ✓ Effective
- ✓ Efficient
- ✓ Adaptable



Thank you for your contributions



Institutions and Processes Adequate for Integrated Management

Two Basic Challenges:

- 1) Setting coherent multiple objectives that flow from the Plan's fundamental goals.
- 2) Managing adaptively toward those objectives in the years ahead.



Institutions and Processes Adequate for Integrated Management

By what social process would we go about setting specific coherent multiple objectives for waterfowl management that may include elements of population size, landscape conditions, and human use? Who would do this? With what technical approach and support?



Institutions and Processes Adequate for Integrated Management

For instance,

- How might we reconcile a desire for additional harvest opportunity with barriers to increasing carrying capacity?
- How might we decide the most appropriate approach to multi-stock harvest management and plan habitat actions accordingly?



Institutions and Processes Adequate for Integrated Management

Assuming that we accomplished this objective setting, again from a process point of view, how will we monitor progress toward achieving NAWMP goals and adapt our actions in light of those results? There are both administrative and technical aspects of this challenge.



Institutions and Processes Adequate for Integrated Management

For instance,

- Who would make such decisions?
- From where would technical support
- When would recurring decisions need to be made?
- How would decisions be coordinated across scales and among jurisdictions?



Institutions and Processes Adequate for Integrated Management

Can we rely on existing institutions and processes to achieve coordinated, coherent actions, or might we need to frame some new overarching coordination function? If so, what form should that take?

- Start with a blank page
 Assume federal governments retain the trust responsibility to manage migratory birds in partnership with the states and
- Assume existing approval bodies (NAWCC and MBCC) retain the authority to allocate NAWCA funding
- Focus on necessary <u>FEATURES</u> more than institutional details
- Think freely; remember form should follow function!

NAWMP Revision Round 2 Consultation Workshops

Institutions and Processes for Integrated Management Table Group Discussion Guide

By what <u>social process</u> would we go about setting specific coherent multiple objectives for waterfowl management that may include elements of population size, landscape conditions, and human use? Who would do this? With what technical approach and support?

For instance,

- How might we reconcile a desire for additional harvest opportunity with barriers to increasing carrying capacity?
- How might we decide the most appropriate approach to multi-stock harvest management?

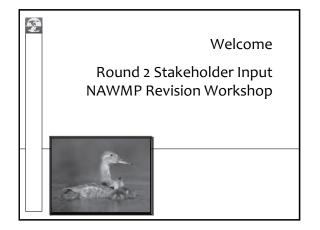
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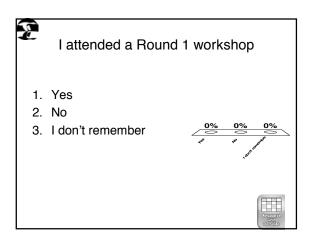
For instance,

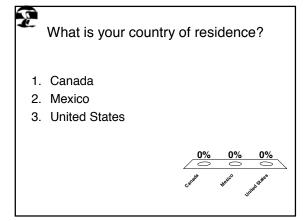
- Who would make such decisions?
- From where would technical support come?
- When would recurring decisions need to be made?
- How would decisions be coordinated across scales and among jurisdictions?

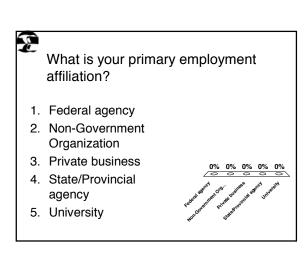
Can we rely on existing institutions and processes to achieve coordinated, coherent actions, or might we need to add some sort of overarching coordination function? If so, what form should that take?

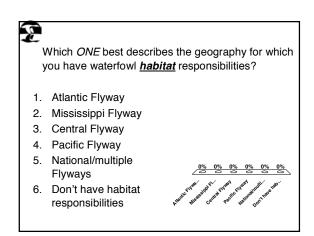
For instance, one of the decision problems we face is the spatial and temporal allocation of people and financial resources to various waterfowl management actions. Do current institutional arrangements allow this?

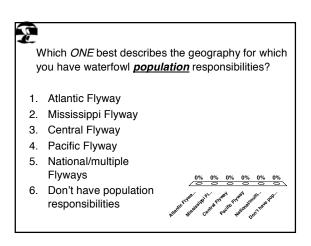


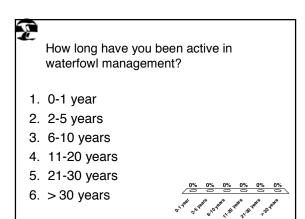


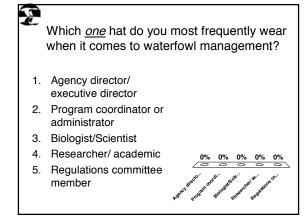


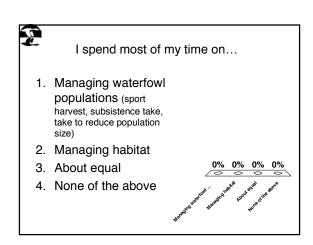


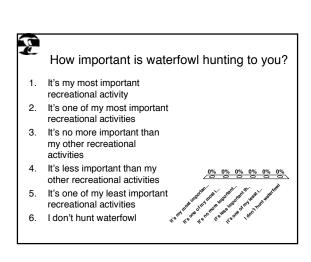


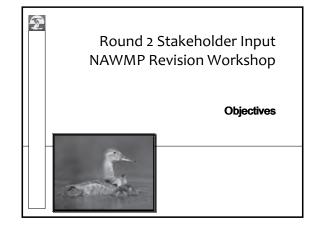


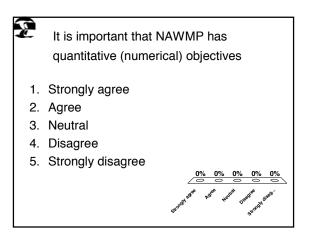








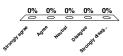






It makes sense to have quantifiable objectives for each of the four fundamental objectives.

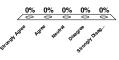
- 1. Strongly agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly disagree





The current NAWMP population objectives are adequate to guide waterfowl conservation into the future.

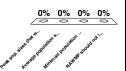
- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree





What is the most appropriate form of a numeric <u>population</u> objective for NAWMP?

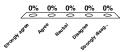
- Peak pop. sizes that will be achieved periodically when habitat conditions are good
- 2. Average population sizes over a period of years
- 3. Minimum population sizes maintained even when habitat conditions are poor
- NAWMP should not include numeric population objectives





NAWMP should include continental-scale, numeric <u>distribution</u> objectives for breeding, migration and wintering areas.

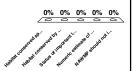
- 1. Strongly agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly disagree





What is the most appropriate form of a numeric <u>habitat</u> objective for NAWMP?

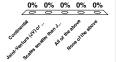
- Habitat conserved specifically for waterfowl conservation
- Habitat conserved by all conservation efforts, whether or not targeted for waterfowl
- Status of important landscape features needed to sustain waterfowl pops, incorporating both habitat gains & losses
- Numeric estimate of waterfowl carrying capacity
- NAWMP should not include numeric habitat objectives





Numeric habitat objectives should be employed on the following scales:

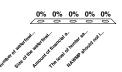
- 1. Continental
- 2. Joint-Venture (JV) or Bird Conservation Region (BCR)
- 3. Scales smaller than JV's or BCR's
- 4. All of the above
- 5. None of the above





What is the most appropriate form of a numeric <u>waterfowl hunting</u> objective for NAWMP?

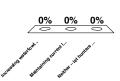
- Number of waterfowl hunters and/or days afield
- 2. Size of the waterfowl harvest
- Amount of financial and policy support provided by waterfowl hunters
- 4. The level of hunter satisfaction as determined by surveys
- 5. NAWMP should not include numeric waterfowl hunting objectives





NAWMP should set an objective of:

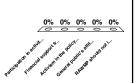
- Increasing waterfowl hunters and/or hunting activity
- Maintaining current levels of hunters and/or hunting activity
- 3. Neither let hunters and/or hunting activity fluctuate as it may





What is the most appropriate form of a numeric $\underline{\text{waterfowl}}$ $\underline{\text{viewing and enjoyment}}$ objective for NAWMP?

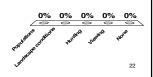
- Participation in activities associated with viewing/enjoying waterfowl
- Financial support from waterfowl viewers
- Activism in the policy arena by those who view and enjoy – but don't hunt – waterfowl
- General public's attitude towards waterfowl conservation
- NAWMP should not include numeric waterfowl viewing and enjoyment objectives





Of the four fundamental objectives, it is most important that we have clear numeric objectives for (4 votes total):

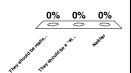
- 1. Populations
- Landscape conditions
- 3. Hunting
- 4. Viewing
- 5. None





Which of these most closely reflects your philosophy about objectives?

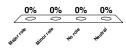
- They should be realistic & achievable
- They should be a "stretch" that will be a challenge to achieve
- 3. Neither

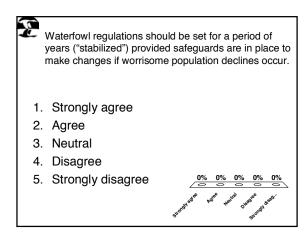


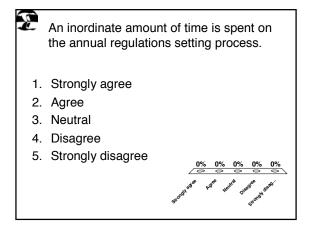


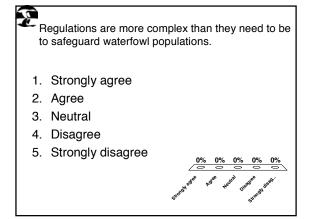
What role should harvest management play in achieving NAWMP waterfowl population goals?

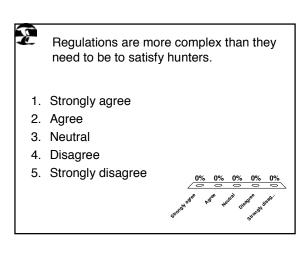
- 1. Major role
- 2. Minor role
- 3. No role
- 4. Neutral

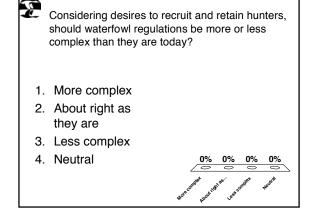


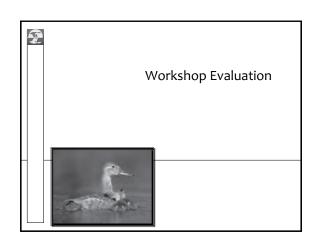








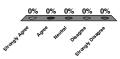






Workshop goal 1 "To summarize Round 1 workshop results and provide an update on the Plan Revision process" was met.

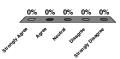
- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree





Workshop goal 2 "To clarify the fundamental objectives and associated measurable attributes" was met.

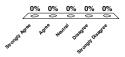
- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree





Workshop goal 3 "To seek input on the values associated with the fundamental objectives" was met.

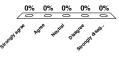
- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree





Workshop goal 4 "To discuss how best to formulate new objectives in the Plan Revision" was met.

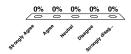
- 1. Strongly agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly disagree





Workshop goal 5 "To initiate discussion of institutions and processes that will facilitate integrated waterfowl management" was met.

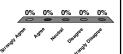
- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly disagree

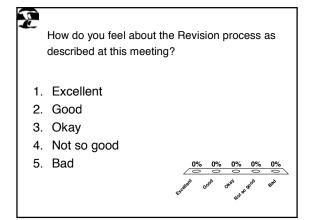


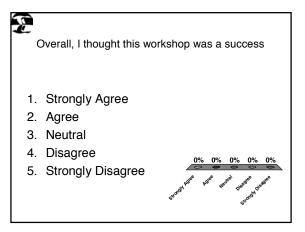


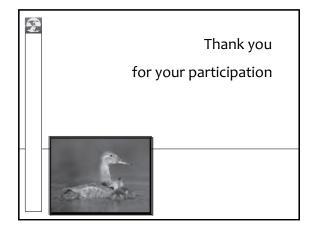
Workshop goal 6 "To provide feedback to the NAWMP Plan Committee as they move forward with the Plan Revision" was met.

- 1. Strongly Agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly Disagree









Appendix D – Round 2 Grand Rapids workshop materials and results

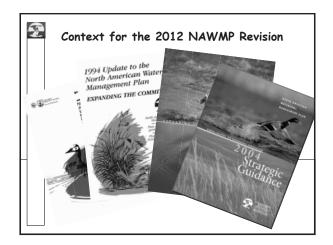
Round 2 NAWMP Revision Stakeholder Workshop September 30 Amway Grand Plaza, Haldane Room Grand Rapids, MI Agenda

Workshop Goals

- To provide a summary of Round 1 Workshop results and an update on the Plan Revision process
- To provide participants an opportunity to clarify and weight the fundamental objectives
- To provide participants an opportunity to identify key measurable attributes, causal relationships and linkages
- To initiate discussion of institutions and processes that will facilitate integrated waterfowl management
- To provide feedback to the Plan Committee as they move forward with the Plan Revision

Thursday, September 30

8:00 a.m.	Introductions and workshop agenda review—DJ Case
8:15	Orientation to the NAWMP Revision Process and Review of Round 1 Workshops—Jim Ringelman, Mike Anderson, Seth Mott
9:15	 Fundamental Objectives of the NAWMP—Fred Johnson Clarifying their meaning and intent Describing measurable attributes Exploring relative weights
Noon	Lunch
1:00 p.m.	Review and comment on morning discussion—DJCase
1:05	Belief networks and the NAWMP—Fred Johnson Introduction to belief networks Causal relationships and linkages An example belief network From belief network to decision framework
2:30	Break
2:45	Institutions and Processes
3:45	Presentation of group exercise results
4:15	Evaluation
4:30	Next steps in the NAWMP Revision
4:45	Adjourn





Page 2.....Principles

- 2) In waterfowl management decisions and actions, the first priority should be to perpetuate waterfowl populations and their supporting habitats...
- Recreational hunting will continue to be managed under existing regulatory processes in Canada and the U.S. These processes will be subject to continuous review to ensure they are compatible and consistent with waterfowl population needs on a continental bases, and to evaluate their environmental impacts and to ensure public participation



Page 16. Increasing our Scientific Base.

For the purposes of the Plan, adaptive management is described simply as the process of using iterative cycles of planning, implementation, and evaluation to improve management performance.....To manage adaptively, managers must be able to articulate clear, quantifiable objectives for each conservation action; predict the biological outcomes.....monitor....and compare outcomes with the original predictions and objectives.



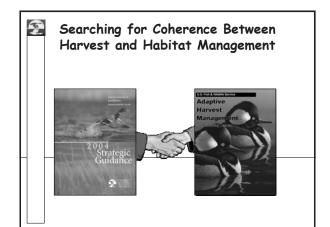
Adaptive Harvest Management (AHM) Task Force (2003)

Harvest-management objectives:

Currently, the basic management objective of the AHM process is to maximize cumulative harvest over an infinite time horizon

In one case (midcontinent mallards), an additional objective is to maintain population size at or above the goal of the NAWMP.

Are the size of the harvest and NAWMP population goals sufficient for defining the objectives of duck harvest management, or should the objectives be broadened to include other interests such as hunter satisfaction, the distribution of hunting opportunity, or the frequency of regulatory changes?





MEMORANDUM MIKE ANDERSON, JOHN EADIE, JEFF HERBERT, MIN HUANG, DALE HUMBURG, FRED JOHNSON, MARK KONEFF, JIM LEAFLOOR, SETH MOTT, THOMAS NUDDS, ERIC REED, JIM RINGELMAN, MICHAEL RUNGE, BARRY

FROM: DAVID A. SMITH- NAWMP COMMITTEE CO-CHAIR

FOR
STEVE WENDT - NAWMP COMMITTEE Co-CHAIR
DON CHILDRESS - IAFWA AHM TASK FORCE

SUBJECT: APPOINTING A JOINT TASK GROUP (JTG) FOR CLARIFYING NAWMP POPULATION OBJECTIVES AND THEIR USE IN HARVEST MANAGEMENT

DATE: JUNE 14 2005

Your participation in an ad hoc group of waterfowl scientists is requested to advance Recommendation A of AHM Task Force Status Report #5, (the establishment of a technical group to explore useful ways in which to interpret NAWMP goals for both habitat and harvest management). This Joint Task Group (ITG) is being asked to further develop and discuss options for the future use of



Joint Task Group Recommendations (2007)

- Harvest managers should adopt a shoulder strategy for Northern Pintails and Mid-Continent Mallards.
- 2. NAWMP should adopt the same shoulder strategy to ensure coherence.
- Enhance the technical capacity of the AHMWG and the NSST.
- 4. Focus more science on reducing key uncertainties.
- Convene an HD working group to assess stakeholder values and develop an approach for more explicitly incorporating HD information into management decisions.
- 6. Convene a waterfowl management policy summit.



NAWMP Continental Progress Assessment Report (2007) Recommendations

#3 Adaptive Management, as the way of approaching NAWMP delivery, needs to be embraced and employed more widely.

#20 The Plan Committee should advocate that waterfowl harvest and habitat managers develop a coherent and coordinated approach for setting and achieving Plan objectives.



Messages from Minneapolis Summit (August 2008)

Conclusions:

- A group or venue be created to continue the work of the Human Dimensions Working Group. (94% agreed or strongly agreed)
- The NAWMP update should be used to develop more coherent goals for waterfowl harvest and habitat management. (88% agreed or strongly agreed.)



NAWMP Revision Scoping Report (August, 2009)

Desired Outcomes for the 2011 Revision (in part)

 Achieve broad consensus on the fundamental goals of waterfowl conservation





NAWMP Revision: Results of Round I Consultations





Purpose of the Workshops

- Solicit responses to the NAWMP Revision "Purpose Statement" and seek input on a "Problem Statement"
- · Identify fundamental and means objectives for waterfowl management
- Discuss alternative, broad-scale (high level) strategies for achieving objectives
- Identify actions and measurable attributes associated with objectives
- Inform the management community about the NAWMP revision and engage them as participants in the process



Primary participants = waterfowl management community (involved in managing populations, habitat, and hunting)

- · Plan Committee, Revision Steering Committee
- NAWMP Science Support Team
- · Adaptive Harvest Management working group
- · Human Dimensions working group
- · N.A. Wetlands Conservation Council and Staff
- · Federal, state, provincial governments
- · Joint Ventures (Habitat & Species)
- · Flyway Councils and Technical Committees
- · NGOs DU, CA Waterfowl, Delta, WMI, others
- · Minneapolis waterfowl "Summit" participants



NAWMP Revision: Round I Consultations

Formal workshops:

- · Portland Dec 1-2, 2009
- · Memphis Jan 27-28, 2010
- · Edmonton Feb 1-2, 2010
- · Ottawa Feb 16-17, 2010
- · Sacramento Feb 25-26, 2010
- · Milwaukee Mar 22, 2010

Other written input:

- · Mexico
- Flyways
- · Ducks Unlimited, Delta Waterfowl
- · Website messages from individuals



Agenda

Day 1

- · Discuss the nature of objective setting
- \cdot Group candidate list into fundamental to means objectives
- Specify relationships (linkages) among fundamental and means objectives
- · List measurable attributes associated with each objective
- Identify potential actions to achieve fundamental or means objectives

Day 2

- Develop a graphical representation of the objectives hierarchy (powerpoint, white board, and sticky notes)
- Discuss the key relationships between the fundamental and means objectives
- Elicit potential actions to achieve fundamental or means objectives

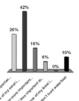


Quantifying Opinions and Beliefs

"Turning Point" technology: individuals respond to questions; instantaneous feedback to the group.

How important is waterfowl hunting to you?

- It's my most important recreational activity
- It's one of my most important recreational activities
- It's no more important than my other recreational activities
- It's less important than my other recreational activities
- It's one of my least important recreational activities
- 6. I don't hunt waterfowl





Following the Workshops...

D.J. Case and NAWMP Technical Team synthesized results

• NAWMP Technical Team meetings: April 20,22, 2010; August 16-19, 2010

Discussion and interpretation by the Revision Steering Committee.

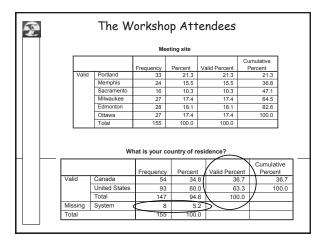
Revision Steering Committee meetings:

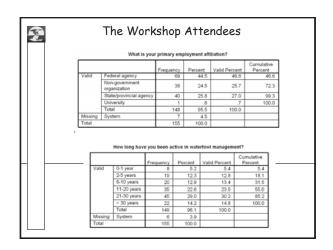
· April 28, 2010; August 18-19, 2010

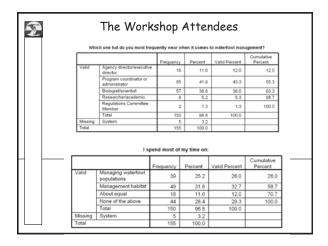


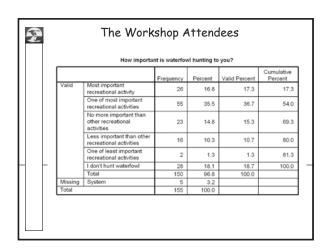
Workshop Update...

- √ Who attended
- ✓ Purpose and Problem statements
- √ Fundamental objectives
- √ Objectives hierarchies











Draft Purpose Statement

The purpose of the Plan is to sustain abundant waterfowl populations while preserving the traditions of wildfowling and achieving broad benefits to biodiversity, ecosystem processes and the people of North America. Plan goals will be accomplished by partnerships that conserve habitats and sustain populations, guided by sound science.



Purpose Statement

The purpose of the Plan is to sustain abundant waterfowl populations while preserving the traditions of wildfowling and achieving broad benefits to biodiversity, ecosystem processes and the people of North America. Plan goals will be accomplished by partnerships that conserve habitats and sustain populations, guided by sound science.

The purpose of the Plan is to sustain North America's waterfowl populations and their habitats at levels that satisfy human desires and perpetuate waterfowl hunting. Plan goals will be accomplished through partnerships guided by sound science.



Clarifying the "Problem"

Losing habitat faster than we are restoring/conserving it

Losing hunters despite liberal regulations and healthy populations

Interest in waterfowl conservation in agencies and among the public is waning

But why???... not for lack of effort!

- ✓ Need to do more things?
- ✓ Need to do things differently?
- ✓ Symptoms versus causation



So What are Underlying Problems?

From the "Future of Waterfowl Summit"...

- \cdot Resources dedicated to conservation are not optimally allocated among landscapes.
- · Too much time is spent setting annual regulations.
- · Monitoring and evaluation needs to be enhanced.
- · Federal a declined. Resource Allocation

State and provincial activities to conserve watertowl and their habitats have declined.

- habitats have declined.

 Too few resources are directed towards understanding waterfowl
- hunters.
- $\boldsymbol{\cdot}$ Universities are less attentive to waterfowl science and monitoring/evaluating.
- $\boldsymbol{\cdot}$ Federal agencies are less attentive to waterfowl science and monitoring/evaluating.



<u>Draft</u> problem statement presented at workshops:

"The waterfowl management community is not in consensus on the fundamental objectives of waterfowl management, the means to achieve those objectives, nor the framework necessary for integrating multiple decisions in a way that efficiently allocates resources and coordinates actions."



<u>Draft</u> problem statement presented at workshops:

"The waterfowl management community is not in consensus on the fundamental objectives of waterfowl management, the means to achieve those objectives, nor the framework necessary for integrating multiple decisions in a way that efficiently allocates resources and coordinates actions."

Problem statement (offered by the Atlantic Flyway Migratory Game Bird Technical Section):

"Although the waterfowl management community is in general agreement on the fundamental objectives of waterfowl management, it has not reached consensus on the means to achieve those objectives, nor the framework necessary for integrating multiple decisions in a way that efficiently allocates resources and coordinates actions."



Objectives

Candidate objectives derived from earlier meetings

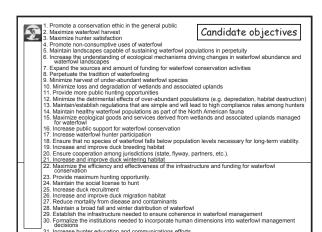
· Patuxent, Mississippi Flyway, DU

Offer a starting point for discussions

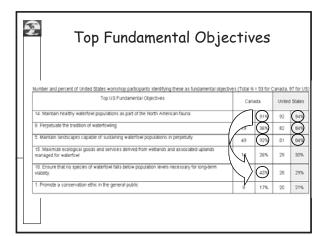
- Expedite workshop flow
- · Obtain quantitative data via "Turning Point" technology

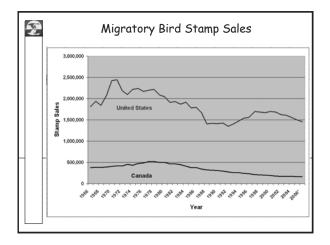
Participants encouraged to edit candidate objectives or offer new ones

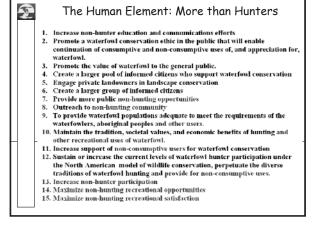
Edits and additions examined after workshops as part of synthesis

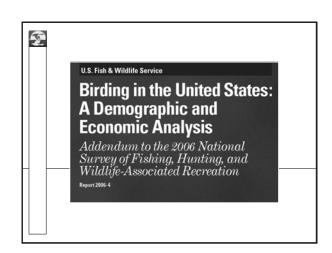


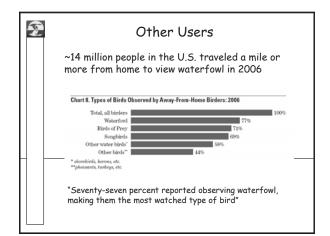
31. Increase hunter education and communications efforts

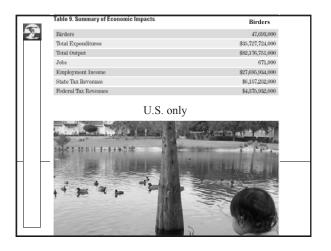


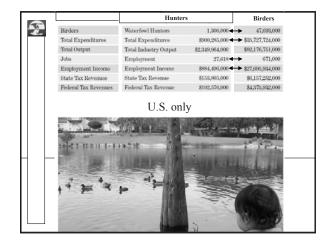


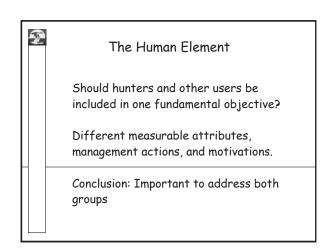


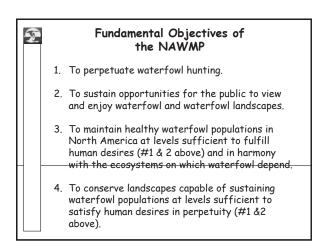


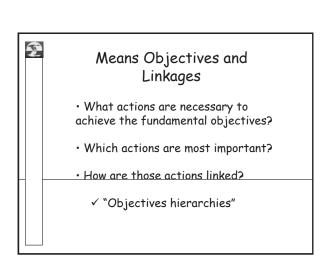


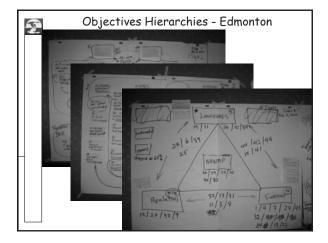


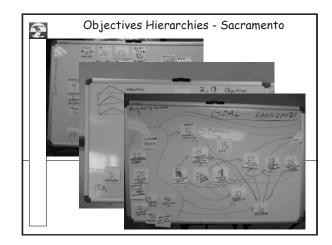














Objective Hierarchies... Important Common Threads

- Populations, landscapes and people (i.e., the fundamental objectives) were usually "linked"
- The "people" objective was sometimes generalized to include all users, not just hunters
- Participants clearly understood the interaction among objectives
- Most groups did not have time to consider measurable attributes associated with objectives, nor did they prescribe actions to achieve objectives



Purposes of the Workshops

- √ Solicit responses to the NAWMP Revision "Purpose Statement" and seek input on a "Problem Statement"
- ✓ Identify fundamental and means objectives for waterfowl management
- o Discuss alternative, broad-scale (high level) strategies for achieving objectives
- o Identify actions and measurable attributes associated with objectives
- ✓ Inform the management community about the NAWMP revision and engage them as participants in the process



So, Where is All This Going?

Clarification of the "vision" for integrated waterfowl management...



Why a Vision discussion now?

 Highlight the challenges of change and the imperative of adaptation for future success



The Challenge of Change and Adaptation

- Changes emerging since the mid-1980s
 - <u>Social change</u> (hunters, urbanization, population diversity)
 - <u>Ecological</u> (loss/modification of habitats, shifting system dynamics)
 - <u>Physical/Climate</u> (climate primarily with associated impacts)
 - <u>Technological</u> (internet, communication)
- Need for Resilience and Adaptability



Why a Vision Discussion now?

- Highlight the challenges of change and the imperative of adaptation for future success
- Waterfowl Management must be:
 Relevant Effective Efficient Adaptable



Why a Vision Discussion now?

- Highlight the challenges of change and the imperative of adaptation for future success
- Waterfowl Management must be:
 Relevant Effective Efficient Adaptable
- Provide context and encourage discussion during Round II



Why a Vision Discussion now?

- Highlight the challenges of change and the imperative of adaptation for future success
- Waterfowl Management must be:
 Relevant Effective Efficient Adaptable
- Provide context and encourage discussion during Round II
- Strengthen consensus on future directions for waterfowl management



A Vision for Integrated Waterfowl Management

We believe that the future of waterfowl management should consist of an integrated approach that fully considers the dimensions of habitat, populations, and human desires in decision-making and resource allocation. Such a coherent system should enable us to focus better on the things that matter most to the efficient achievement of renewed NAWMP conservation goals.



A Vision for Integrated Waterfowl Management

We believe that the future of waterfowl management should consist of an integrated approach that fully considers the dimensions of habitat, populations, and human desires in decision-making and resource allocation. Such a coherent system should enable us to focus better on the things that matter most to the efficient achievement of renewed NAWMP conservation goals.

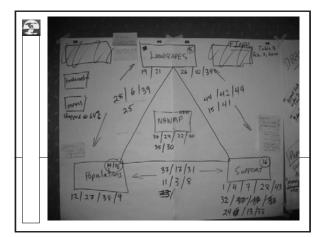


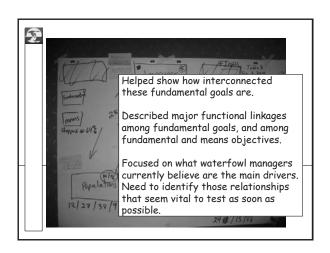
So, how will the NAWMP Revision Contribute to the Evolution of Waterfowl Management?



Fundamental Goals of Waterfowl Management

- 1. To perpetuate waterfowl hunting.
- 2. To sustain opportunities for the public to view and enjoy waterfowl and waterfowl landscapes.
- To maintain healthy waterfowl populations in North America at levels sufficient to fulfill human desires (#1 and #2 above) and in harmony with the ecosystems on which waterfowl depend.
- To conserve landscapes capable of sustaining waterfowl populations at levels sufficient to satisfy human desires (#1 & 2 above) in perpetuity.







A Vision for Integrated Waterfowl Management

This Revision of the Plan seeks to set in motion changes that will establish a integrated system of waterfowl conservation featuring explicit and coherent objectives to guide habitat, harvest and human-dimension programs, and the means for coordinated actions to realize those objectives. Such a fully coherent management system would feature 5 elements:



A Vision for Integrated Waterfowl Management

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A Vision for Integrated Waterfowl Management

This Revision of the Plan seeks to set in motion changes that will establish a integrated system of waterfowl conservation featuring explicit and coherent objectives to guide habitat, harvest and human-dimension programs, and the means for coordinated actions to realize those objectives. Such a fully coherent management system would feature 5 elements:



A Vision for Integrated Waterfowl Management

- A set of widely supported fundamental goals;
- A working conceptual framework that allow managers to balance tradeoffs among goals;
- Goals that are linked and coherent across scales;
- Managers using linked decision frameworks to efficiently allocate resources to achieve those goals; and
- Institutional and cultural support to enable such integrated management actions.



What is Achievable in the Near Term?

- NAWMP has always been a high-level strategic guidance document.
- Other institutions have important roles to play in the evolution of waterfowl management.
- Many important details remain to be worked out.
- As in 1986, how far and how fast we go will depend upon our collective will.



Moving Forward

Within the 2012 Revision:

- Achieve broad consensus on the fundamental goals of waterfowl conservation.
- Reach agreement, at a conceptual level, on the desired future state of waterfowl management as an integrated enterprise.
- Achieve sufficient progress elaborating this integrated framework to develop momentum needed to establish and fully implement such a framework.
- Identify key functional linkages among fundamental objectives (and means objectives) and commit to testing these through adaptive management or directed research.



Moving Forward

Immediately Following the 2012 Revision:

- Within the next 2 years, establish specific objectives for population and habitat conservation, harvest opportunity, and user participation with acknowledged tradeoffs among them
- Implement a general integrated framework for making linked harvest, habitat, and user management decisions.
- Implement monitoring and evaluation programs to track progress toward objectives and reduce uncertainties about key functional linkages among fundamental goals.



Moving Forward

Future 5-year Reviews of the Plan:

- Review progress towards achieving the renewed NAWMP objectives. Review external factors affecting NAWMP outcomes. Suggest course corrections as needed.
- Review progress in understanding functional linkages among objectives. Modify decision models as required.
- Assess commitments to monitoring and assessment. Recommend changes as required.
- Assess institutional processes for integration, effectiveness, efficiency, and responsiveness to change. Recommend adjustments as appropriate.
- At about 10-year intervals, review appropriateness of objectives themselves, governance structures, etc.



Moving Forward

Relevant - Effective - Efficient - Adaptable

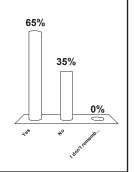
North American Waterfowl Management Plan Revision:

Welcome NAMWP Revision Stakeholder Input Round 2 Workshop



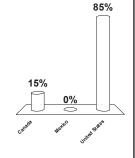
I attended a Round 1 workshop

- 1. Yes
- 2. No
- 3. I don't remember



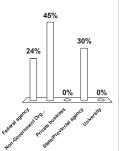
What is your country of residence?

- 1. Canada
- 2. Mexico
- 3. United States



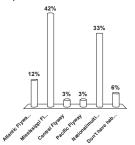
What is your primary employment affiliation?

- 1. Federal agency
- 2. Non-Government Organization
- 3. Private business
- 4. State/Provincial agency
- 5. University



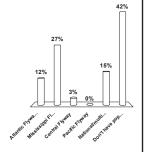
Which *ONE* best describes the geography for which you have waterfowl *habitat* responsibilities?

- 1. Atlantic Flyway
- 2. Mississippi Flyway
- 3. Central Flyway
- 4. Pacific Flyway
- 5. National/multiple Flyways
- 6. Don't have habitat responsibilities



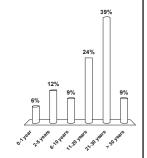
Which *ONE* best describes the geography for which you have waterfowl *population* responsibilities?

- 1. Atlantic Flyway
- 2. Mississippi Flyway
- 3. Central Flyway
- 4. Pacific Flyway
- 5. National/multiple Flyways
- 6. Don't have population responsibilities



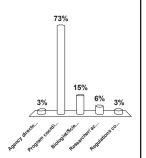
How long have you been active in waterfowl management?

- 1. 0-1 year
- 2. 2-5 years
- 3. 6-10 years
- 4. 11-20 years
- 5. 21-30 years
- 6. > 30 years



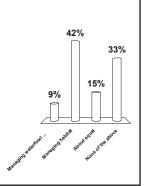
Which <u>one</u> hat do you most frequently wear when it comes to waterfowl management?

- Agency director/ executive director
- 2. Program coordinator or administrator
- 3. Biologist/Scientist
- 4. Researcher/ academic
- 5. Regulations committee member



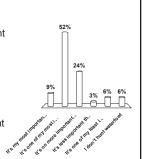
I spend most of my time on...

- Managing waterfowl populations (sport harvest, subsistence take, take to reduce population size)
- 2. Managing habitat
- 3. About equal
- 4. None of the above

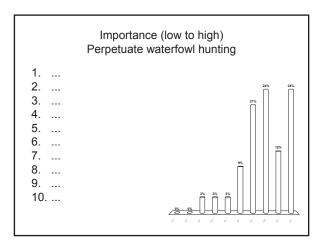


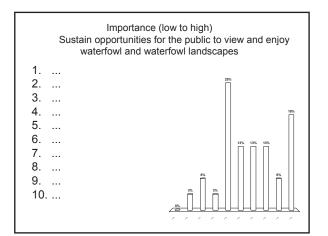
How important is waterfowl hunting to you?

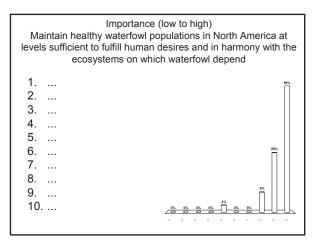
- It's my most important recreational activity
- 2. It's one of my most important recreational activities
- It's no more important than my other recreational activities
- 4. It's less important than my other recreational activities
- 5. It's one of my least important recreational activities
- 6. I don't hunt waterfowl

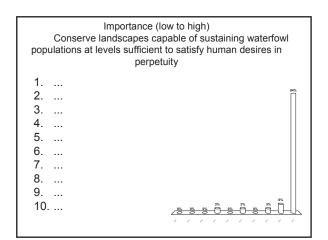


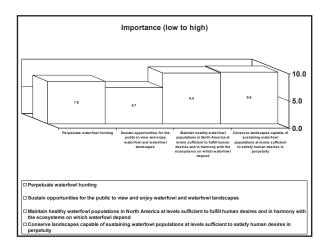
Ranking Fundamental Objectives



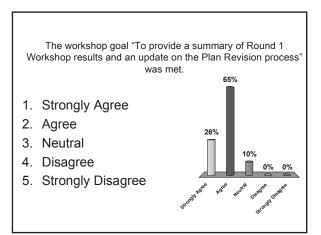








Workshop Evaluation



The workshop "To provide participants an opportunity to clarify and weight the fundamental objectives" was met.

1. Strongly Agree
2. Agree
3. Neutral
4. Disagree
5. Strongly Disagree

The workshop goal "To provide participants an opportunity to identify key measurable attributes, causal relationships and linkages" was met.

1. Strongly Agree
2. Agree
3. Neutral
4. Disagree
5. Strongly Disagree

The workshop goal "To initiate discussion of institutions and processes that will facilitate integrated waterfowl management" was met.

1. Strongly Agree
2. Agree
3. Neutral
4. Disagree
5. Strongly disagree

The workshop goal "To provide feedback that will be useful to the Plan Committee as they move forward with the Plan Revision" was met.

1. Strongly Agree
2. Agree
3. Neutral
4. Disagree
5. Strongly Disagree
5. Strongly Disagree

How do you feel about the Revision process as described at this meeting?

1. Excellent
2. Good
3. Okay
4. Not so good
5. Bad

Overall, I thought this workshop was a success

1. Strongly Agree
2. Agree
3. Neutral
4. Disagree
5. Strongly Disagree

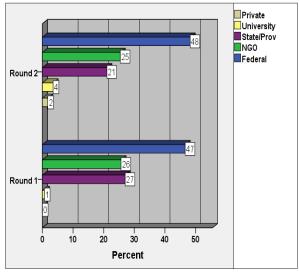
Appendix E. Demographics results cross-tabulated descriptive statistics

Comparison of participant characteristics, Round 1 versus Round 2

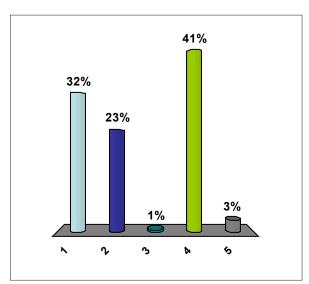
		Cana			U.S.		Total	
			nd	Rou		Rou		
Participant Characteristic, Round 1 vs Round 2		1	2	1	2	1	2	
q3: Primary employment?	Federal agency	41%	39%	49%	55%	46%	499	
	Non-gov org	48%	37%	13%	18%	26%	26	
	Private business	0%	2%	0%	1%	0%	2	
	State/Provincial	11%	22%	37%	19%	27%	20	
	University	0%	0%	1%	6%	1%	4	
	Total	54	46	93	67	147	11	
q4: Geography for which you have habitat responsibilities?	Atlantic FW	19%	26%	5%	1%	10%	12	
	Mississippi FVV	2%	4%	17%	12%	12%	9	
	Central FVV	6%	9%	11%	16%	9%	13	
	Pacific FW	9%	7%	30%	22%	22%	16	
	National/multiple FWs	46%	48%	19%	24%	29%	34	
	None	19%	7%	17%	24%	18%	17	
	Total	54	46	93	67	147	11	
q5: Geography for which you have	Atlantic FW	15%	22%	8%	4%	10%	12	
population	Mississippi FVV	0%	7%	19%	10%	12%	ē	
responsibilities?	Central FW	4%	7%	9%	13%	7%	11	
	Pacific FW	4%	2%	26%	18%	18%	12	
	National/multiple FWs	33%	41%	29%	33%	31%	36	
	None	44%	22%	10%	21%	22%	21	
	Total	54	46	93	67	147	1	
q6: How long	0-1 yr	7%	2%	4%	9%	5%	6	
active in waterfowl management?	2-5 yrs	6%	11%	16%	16%	12%	14	
_	6-10 yrs	9%	9%	16%	12%	14%	11	
	11-20 yrs	26%	26%	22%	31%	23%	29	
	21-30 yrs	35%	33%	28%	21%	31%	28	
	>30 yrs	17%	20%	14%	10%	15%	14	
	Total	54	46	93	67	147	1	
q7: Most frequent	Agency/Executive director	19%	28%	9%	6%	12%	15	
waterfowl mngt hat?	Program coordinator/admin	50%	35%	40%	45%	44%	41	
	Biologist/scientist	24%	26%	45%	37%	37%	33	
	Researcher	6%	7%	5%	10%	5%	9	
	Regulations committee member	2%	4%	1%	1%	1%	3	
	Total	54	46	93	67	147	1	
q8: I spend most	Managing WF populations	15%	26%	31%	39%	25%	34	
time:	Managing habitat	43%	46%	27%	28%	33%	35	
	Equal habitat/populations	6%	2%	16%	15%	12%	10	
	None	37%	26%	26%	18%	30%	21	
	Total	54	46	93	67	147	1	
q9: How important a recreational activity is WF hunting to you?	Most important rec-activity	17%	17%	17%	21%	17%	19	
	1 of most important rec-activities	31%	33%	41%	30%	37%	31	
	No more important than others	7%	17%	20%	19%	16%	19	
	Less important than others	13%	11%	9%	6%	10%	8	
	1 of least important rec-activities	2%	0%	1%	3%	1%	2	
	Don't WF hunt	30%	22%	12%	21%	18%	21	
	Total	54	46	93	67	147	1	

Appendix F. Comparison of demographics, revision workshops and 2008 Future of Waterfowl Management Summit

What is your primary employment affiliation?

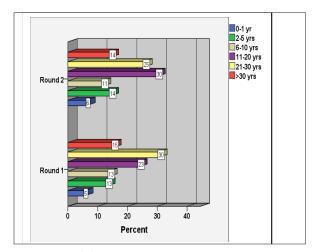


Revision Workshops:

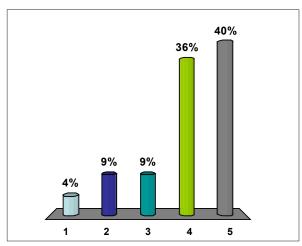


WF Summit: 1=Federal, 2=NGO, 3=private bus, 4=state/prv agency, 5=University

How long have you been active in waterfowl management?

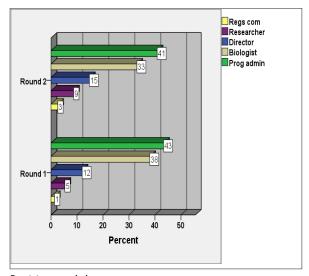


Revision workshops:

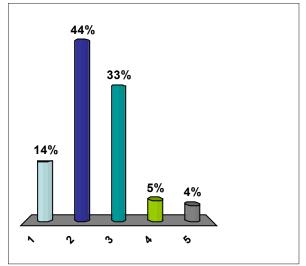


WF Summit: 1=0-1 yr, 2=2-5 yrs, 3=6-10 yrs, 4=11-20 yrs, 5=21-30 years

Which one hat do you most frequently wear when it comes to waterfowl management?

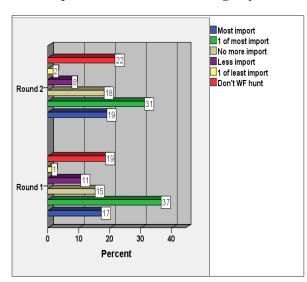




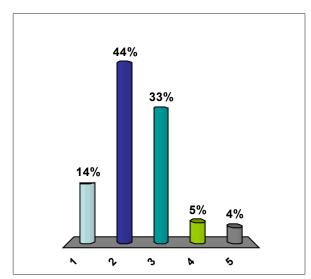


WF Summit: 1=director, 2=prog admin, 3= biologist, 4=research, 5=regs committee

How important is waterfowl hunting to you?



Revision workshop



WF Summit: 1=most import, 2=1 of most, 3=no more import, 4=less import, 5=1 of least, 6=don't hunt

Appendix G. Candidate Objectives Results

Round 1 participants' identification of objectives as either "fundamental," "means," or "not a relevant objective"

		Country of residence?		ice?
Ch	aracterize each objective	Canada	U.S.	Total
1. Promote a	Not a relevant waterfowl management objective	11%	20%	17%
conservation ethic in the general public	A fundamental waterfowl management objective	17%	22%	20%
gonoral panno	A means waterfowl management objective	72%	58%	63%
	Total	54	93	147
2. Maximize waterfowl harvest	Not a relevant waterfowl management objective	46%	23%	32%
	A fundamental waterfowl management objective	11%	2%	5%
	A means waterfowl management objective	43%	75%	63%
	Total	54	92	146
3. Maximize hunter	Not a relevant waterfowl management objective	17%	9%	12%
satisfaction	A fundamental waterfowl management objective	9%	3%	6%
	A means waterfowl management objective	74%	88%	83%
	Total	54	91	145
4. Promote non-	Not a relevant waterfowl management objective	13%	11%	12%
consumptive uses of waterfowl	A fundamental waterfowl management objective	6%	6%	6%
	A means waterfowl management objective	81%	83%	82%
	Total	53	93	146
5. Maintain landscapes	Not a relevant waterfowl management objective	0%	0%	0%
capable of sustaining waterfowl populations in	A fundamental waterfowl management objective	93%	83%	86%
perpetuity	A means waterfowl management objective	7%	17%	14%
	Total	54	92	146
6. Increase the	Not a relevant waterfowl management objective	2%	4%	3%
understanding of ecological mechanisms	A fundamental waterfowl management objective	7%	2%	4%
driving changes in waterfowl abundance and waterfowl landscapes	A means waterfowl management objective	91%	94%	93%
	Total	54	93	147
7. Expand the sources	Not a relevant waterfowl management objective	2%	5%	4%
and amount of funding for waterfowl conservation	A fundamental waterfowl management objective	7%	1%	3%
activities	A means waterfowl management objective	91%	94%	93%
	Total	54	93	147
8. Perpetuate the tradition	Not a relevant waterfowl management objective	6%	2%	3%
of waterfowling	A fundamental waterfowl management objective	41%	84%	68%
	A means waterfowl management objective	54%	14%	29%
	Total	54	93	147
9. Minimize harvest of under-abundant waterfowl species	Not a relevant waterfowl management objective	20%	26%	24%
	A fundamental waterfowl management objective	7%	1%	3%
	A means waterfowl management objective	72%	73%	73%
	Total	54	93	147
10. Minimize loss and	Not a relevant waterfowl management objective	0%	1%	1%
degradation of wetlands and associated uplands	A fundamental waterfowl management objective	28%	4%	13%
ana associatea apianas	A means waterfowl management objective	72%	95%	86%
	Total	54	93	147

Round 1 participants' identification of objectives as either "fundamental," "means," or "not a relevant objective"

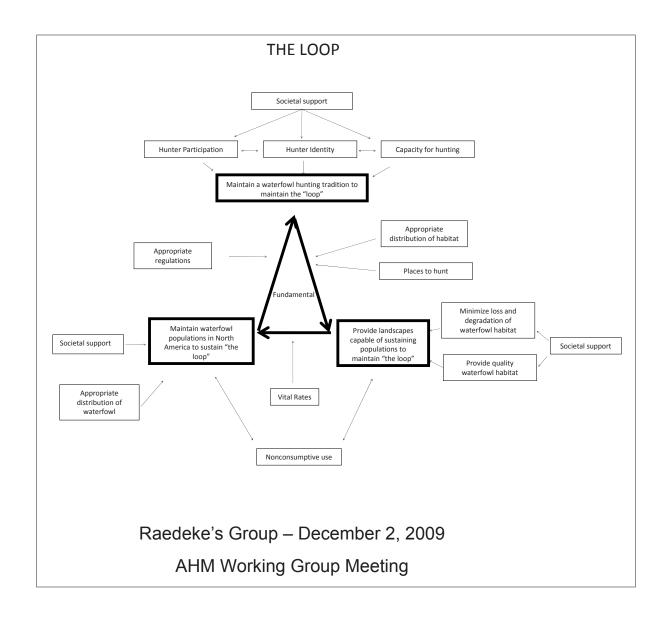
		Country of residence?		nce?
Ch	aracterize each objective	Canada	U.S.	Total
11. Provide more public	Not a relevant waterfowl management objective	28%	12%	18%
hunting opportunities	A fundamental waterfowl management objective	0%	0%	0%
	A means waterfowl management objective	72%	88%	82%
	Total	54	93	147
12. Minimize the	Not a relevant waterfowl management objective	6%	4%	5%
detrimental effects of over-abundant populations (e.g.	A fundamental waterfowl management objective	6%	2%	3%
	A means waterfowl management objective	89%	94%	92%
depredation, habitat destruction)	Total	54	93	147
13. Maintain/establish	Not a relevant waterfowl management objective	17%	13%	14%
regulations that are simple and will lead to	A fundamental waterfowl management objective	4%	1%	2%
high compliance rates	A means waterfowl management objective	80%	86%	84%
among hünters	Total	54	93	147
14. Maintain healthy	Not a relevant waterfowl management objective	2%	3%	3%
waterfowl populations as part of the North American	A fundamental waterfowl management objective	91%	94%	93%
fauna	A means waterfowl management objective	7%	3%	5%
	Total	54	93	147
15. Maximize ecological	Not a relevant waterfowl management objective	11%	18%	16%
goods and services derived from wetlands	A fundamental waterfowl management objective	26%	30%	29%
and associated uplands	A means waterfowl management objective	63%	52%	56%
managed for waterfowl	Total	54	93	147
16. Increase public	Not a relevant waterfowl management objective	2%	2%	2%
support for waterfowl conservation	A fundamental waterfowl management objective	20%	4%	10%
	A means waterfowl management objective	78%	94%	88%
	Total	54	93	147
17. Increase waterfowl	Not a relevant waterfowl management objective	4%	6%	5%
hunter participation	A fundamental waterfowl management objective	6%	3%	4%
	A means waterfowl management objective	91%	90%	90%
	Total	54	93	147
18. Ensure that no	Not a relevant waterfowl management objective	2%	13%	9%
species of waterfowl falls below population levels necessary for long-term	A fundamental waterfowl management objective	41%	29%	33%
	A means waterfowl management objective	57%	58%	58%
viability.	Total	54	93	147
19. Increase and improve	Not a relevant waterfowl management objective	2%	8%	5%
duck breeding habitat	A fundamental waterfowl management objective	17%	6%	10%
	A means waterfowl management objective	81%	86%	84%
	Total	54	93	147
20. Ensure cooperation	Not a relevant waterfowl management objective	4%	22%	15%
among jurisdictions (state, flyway, partners,	A fundamental waterfowl management objective	9%	6%	7%
etc.)	A means waterfowl management objective	87%	72%	78%
	Total	54	93	147

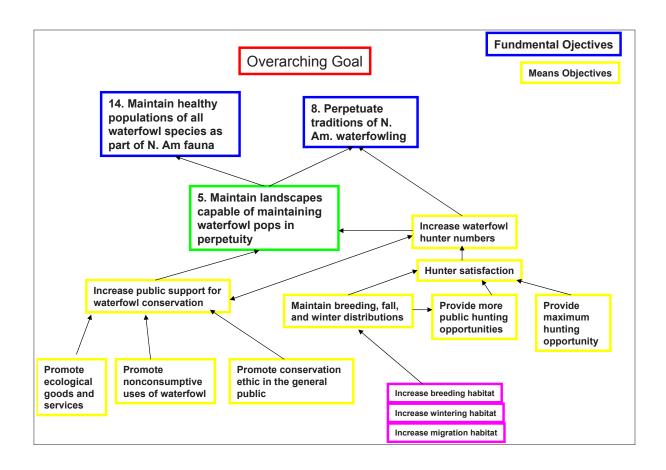
Round 1 participants' identification of objectives as either "fundamental," "means," or "not a relevant objective"

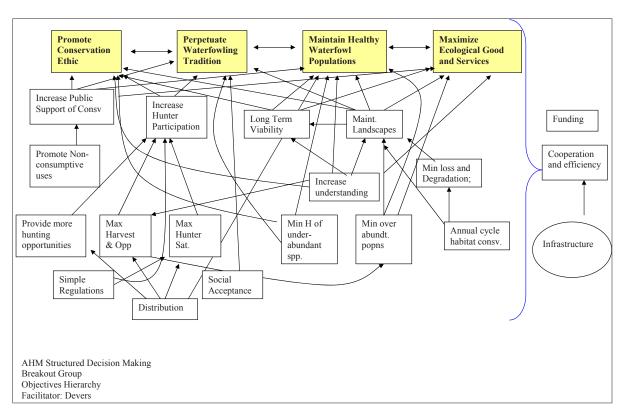
		Country of residence?		nce?
Ch	aracterize each objective	Canada	U.S.	Total
21. Increase and improve	Not a relevant waterfowl management objective	2%	9%	6%
duck wintering habitat	A fundamental waterfowl management objective	11%	2%	5%
	A means waterfowl management objective	87%	89%	88%
	Total	54	93	147
22. Maximize the	Not a relevant waterfowl management objective	9%	15%	13%
efficiency and effectiveness of the infrastructure and funding	A fundamental waterfowl management objective	4%	5%	5%
	A means waterfowl management objective	87%	80%	82%
for waterfowl conservation	Total	54	93	147
23. Provide maximum	Not a relevant waterfowl management objective	35%	13%	21%
hunting opportunity	A fundamental waterfowl management objective	9%	2%	5%
	A means waterfowl management objective	56%	85%	74%
	Total	54	93	147
24. Maintain the social	Not a relevant waterfowl management objective	17%	17%	17%
license to hunt	A fundamental waterfowl management objective	17%	12%	14%
	A means waterfowl management objective	67%	71%	69%
	Total	54	93	147
25. Increase duck	Not a relevant waterfowl management objective	7%	9%	8%
recruitment	A fundamental waterfowl management objective	11%	1%	5%
	A means waterfowl management objective	81%	90%	87%
	Total	54	93	147
26. Increase and improve	Not a relevant waterfowl management objective	2%	8%	5%
duck migration habitat	A fundamental waterfowl management objective	11%	1%	5%
	A means waterfowl management objective	87%	91%	90%
	Total	54	93	147
27. Reduce mortality from	Not a relevant waterfowl management objective	11%	14%	13%
disease and contaminants	A fundamental waterfowl management objective	4%	0%	1%
Contaminants	A means waterfowl management objective	85%	86%	86%
	Total	54	93	147
28. Maintain a broad fall	Not a relevant waterfowl management objective	19%	13%	15%
and winter distribution of waterfowl	A fundamental waterfowl management objective	11%	1%	5%
watchowi	A means waterfowl management objective	70%	86%	80%
	Total	54	93	147
29. Establish the	Not a relevant waterfowl management objective	15%	30%	24%
infrastructure needed to ensure coherence in	A fundamental waterfowl management objective	7%	2%	4%
waterfowl management	A means waterfowl management objective	78%	68%	71%
	Total	54	93	147
30. Formalize the	Not a relevant waterfowl management objective	39%	38%	38%
institutions needed to incorporate human dimensions into waterfowl management decisions	A fundamental waterfowl management objective	4%	4%	4%
	A means waterfowl management objective	57%	58%	58%
	Total	54	93	147
31. Increase hunter	Not a relevant waterfowl management objective	15%	16%	16%
education and communications efforts	A fundamental waterfowl management objective	0%	0%	0%
communications elloits	A means waterfowl management objective	85%	84%	84%
	Total	54	93	147

Appendix H. Objectives Hierarchies Diagrams

PORTLAND WORKSHOP







Maximize EG&S

Increase Public support for conservation Promote non-consumptive use

Ensure Long-term viability
Increase ecological understanding
Maintain landscapes

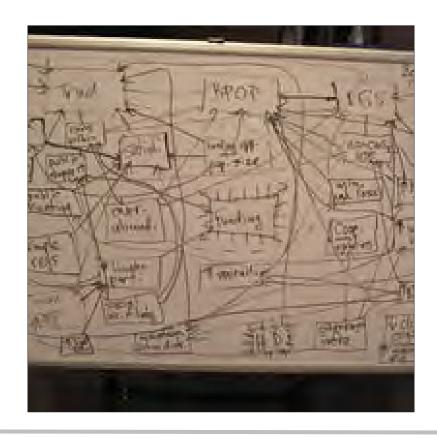
Maintain landscapes

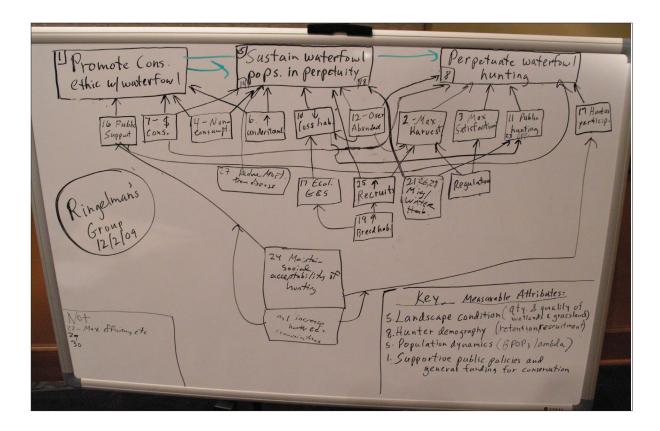
Minimize loss and degradation Increase ecological understanding Minimize over abundant populations Manage habitat throughout annual life cycle

Increase ecological understanding

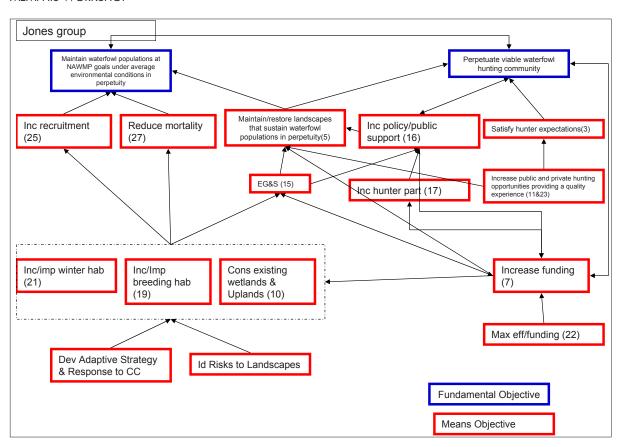
Minimize over-abundant species

Maximize harvest and opportunity

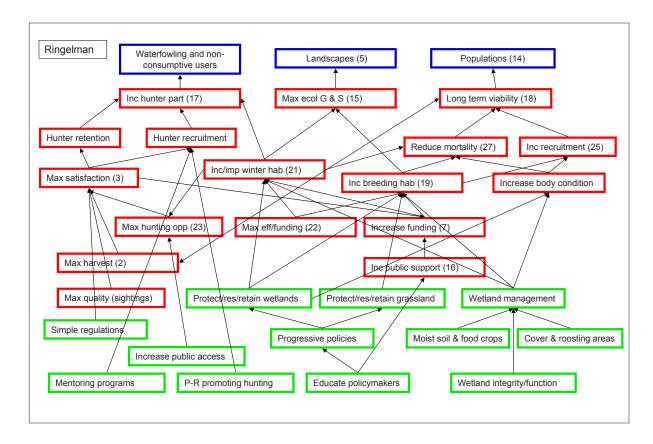


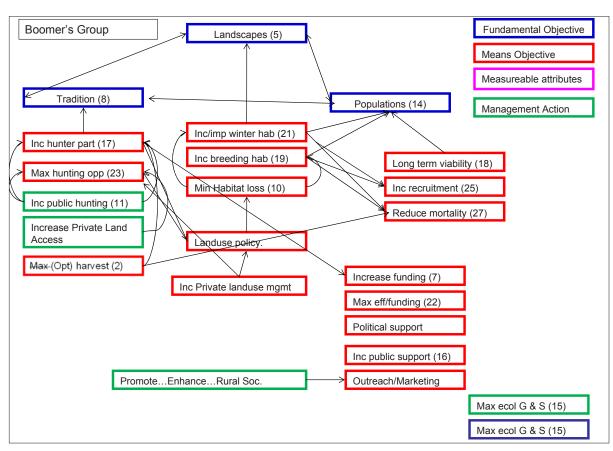


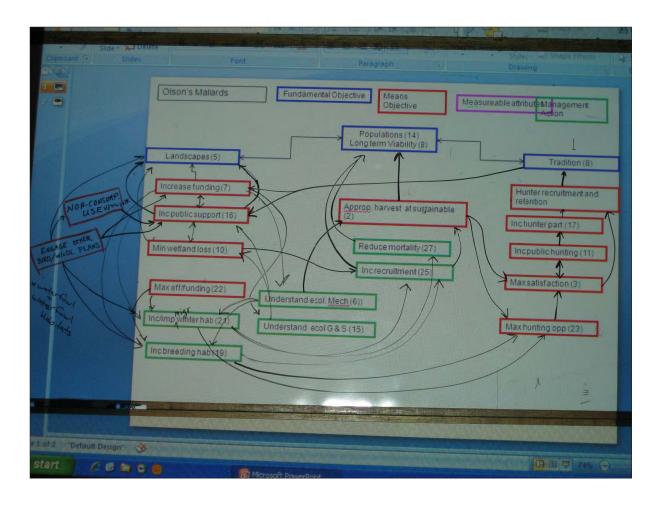
MEMPHIS WORKSHOP

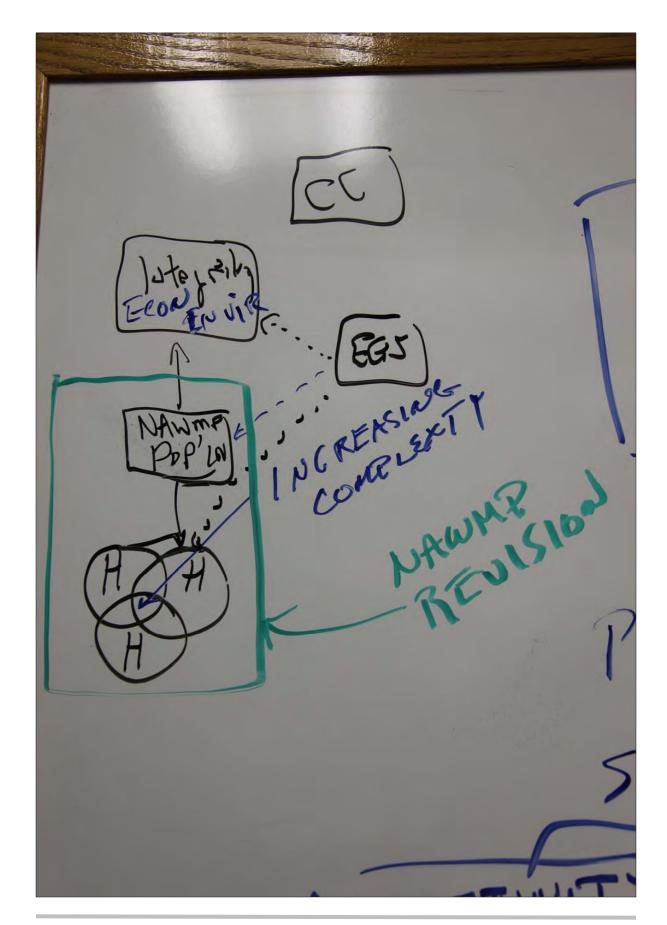


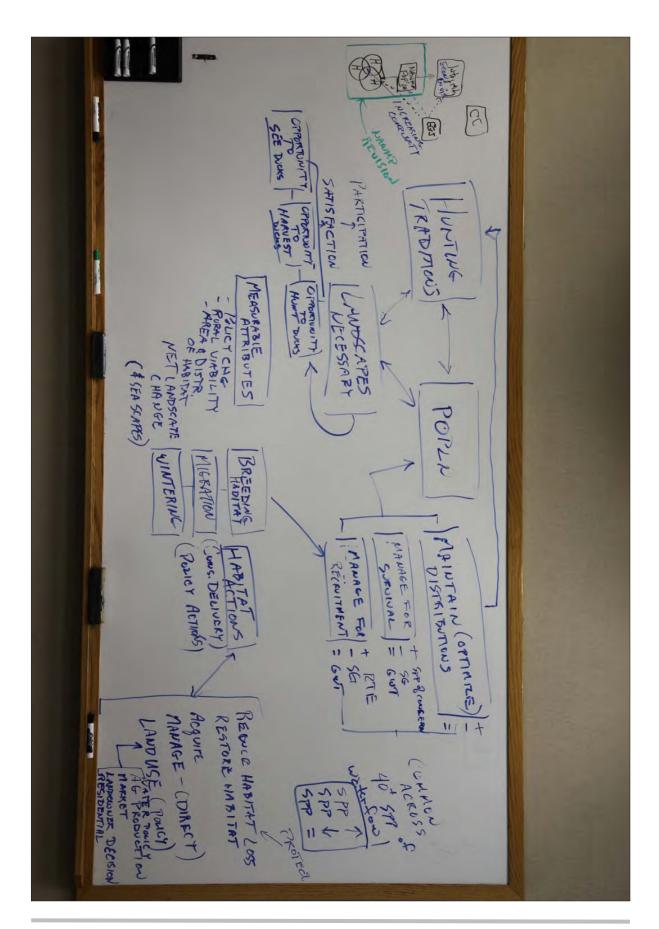
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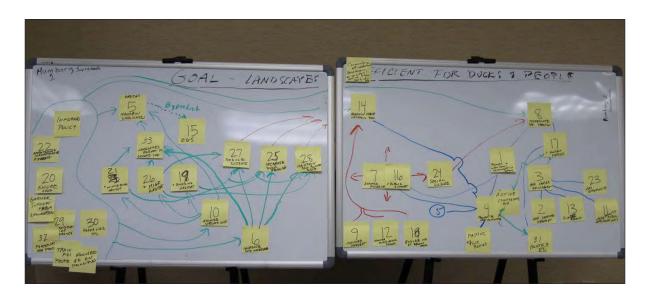


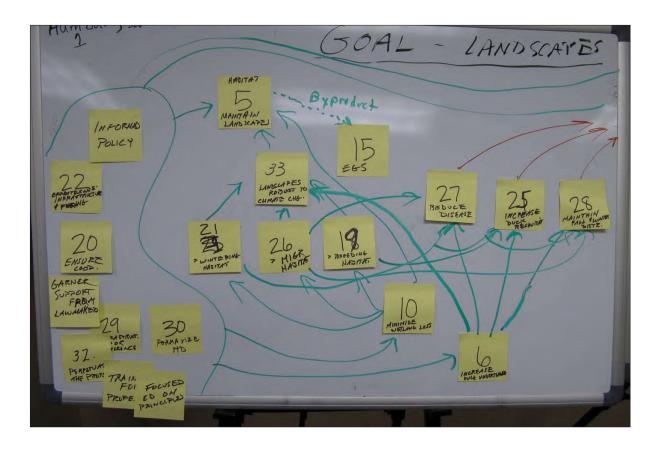


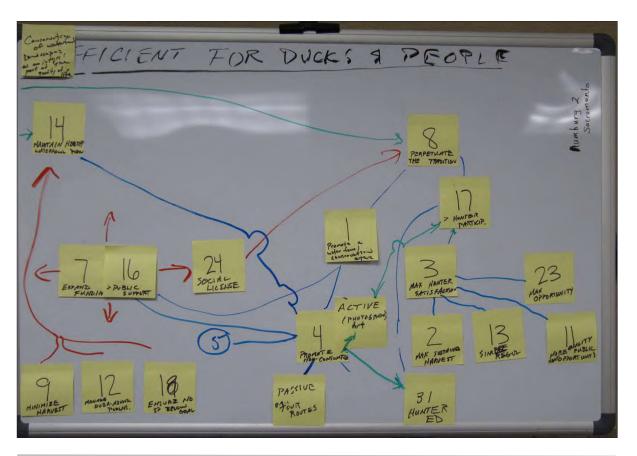
Page 138 | Stakeholder Consultation Process Results North American Waterfowl Management Plan Revision

SACRAMENTO WORKSHOP

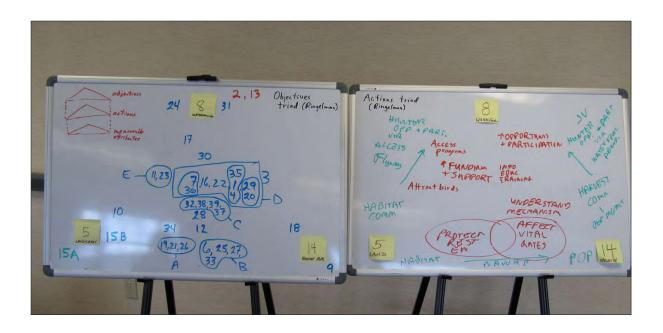


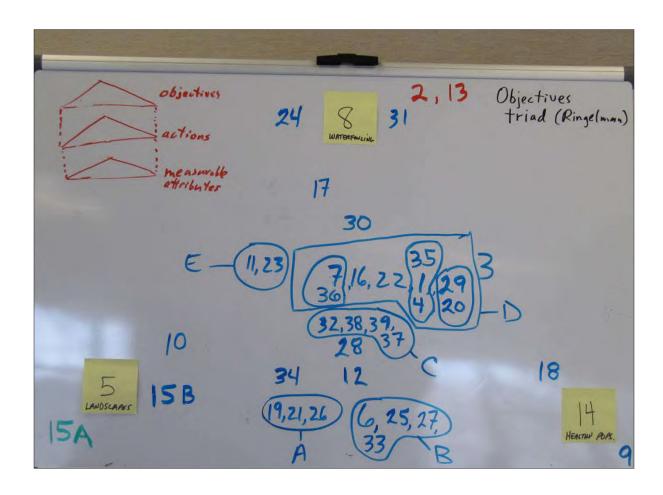


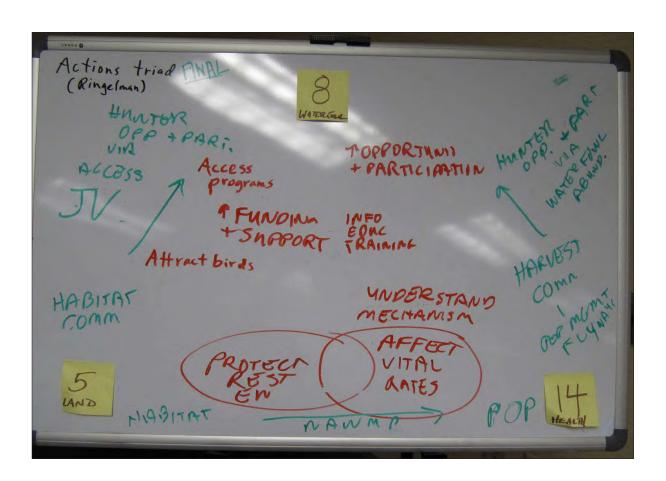


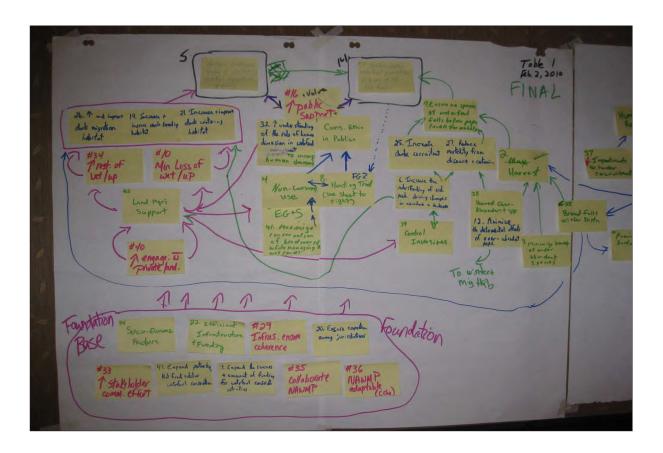


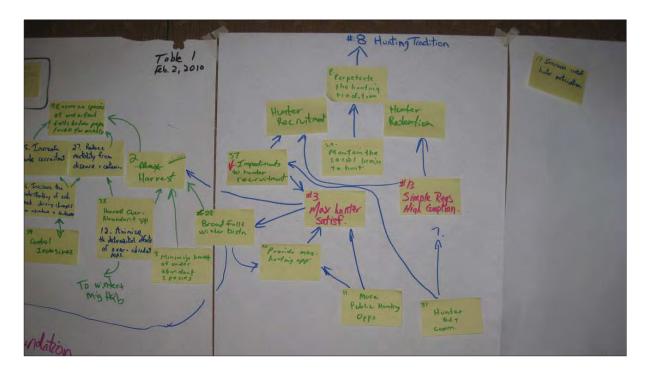
Page 140 | Stakeholder Consultation Process Results North American Waterfowl Management Plan Revision

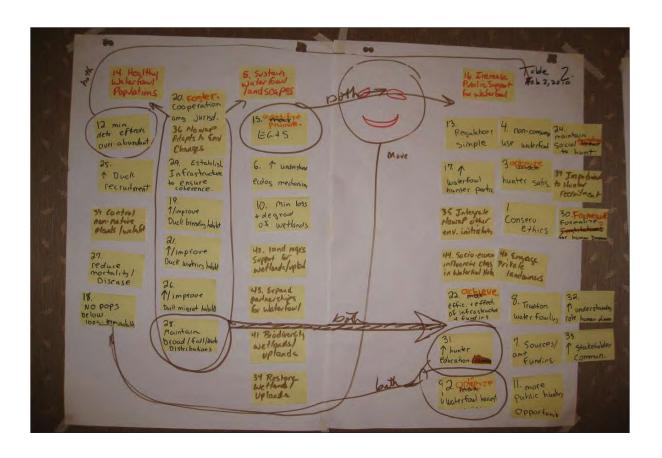


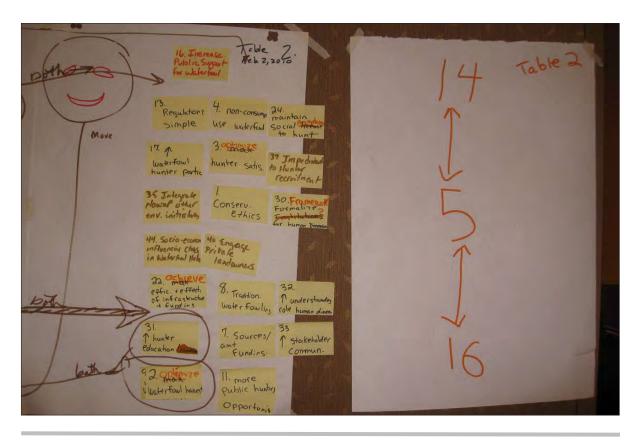




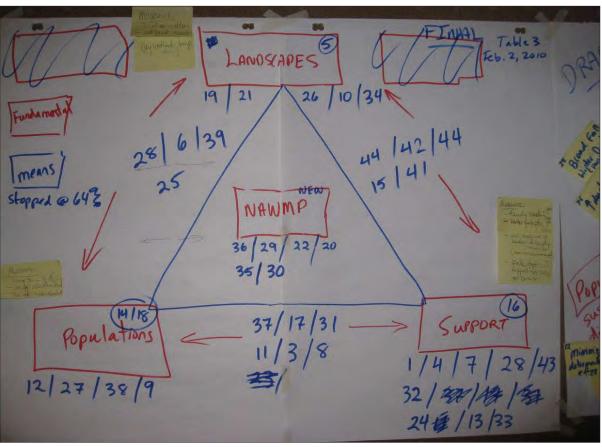






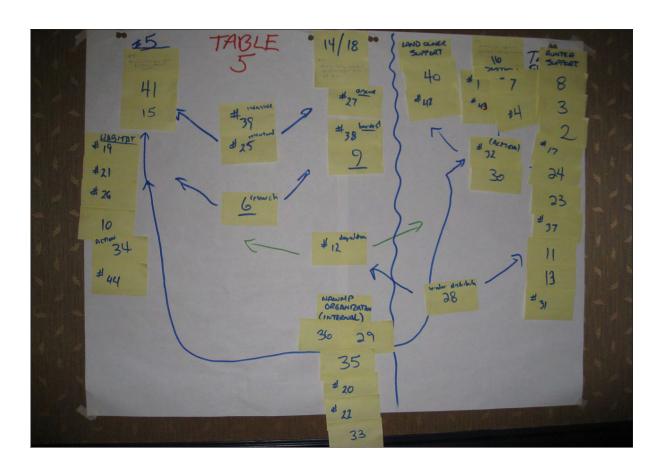


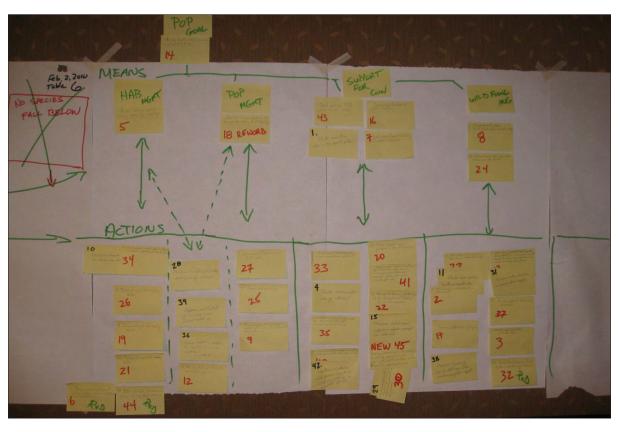
Page 144 | Stakeholder Consultation Process Results North American Waterfowl Management Plan Revision

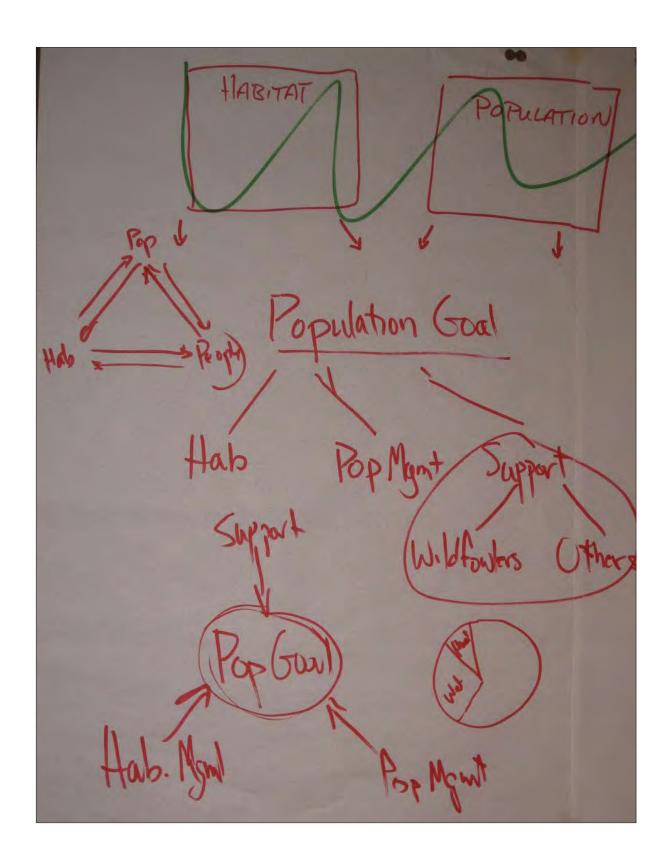


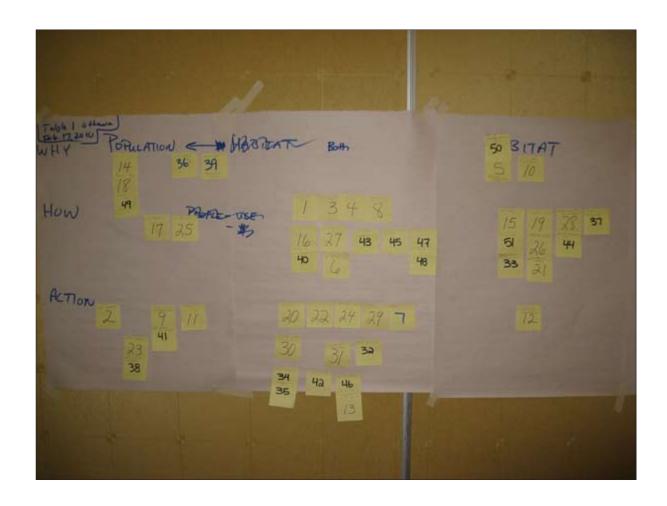


GROUP 4 CM. CHUTTURD.	MITA
7h ree	lessed stool
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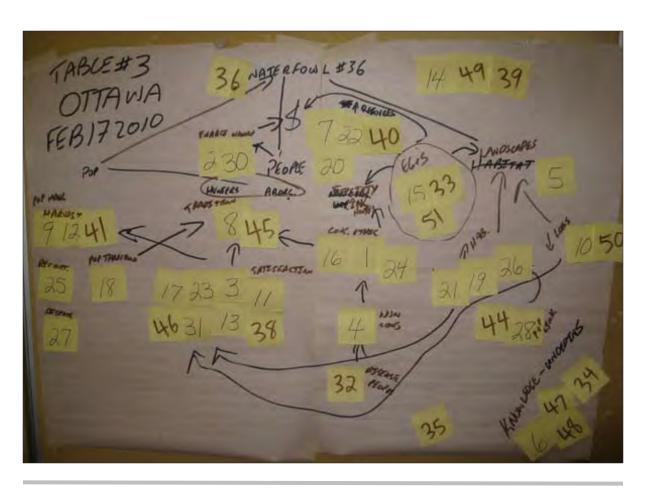


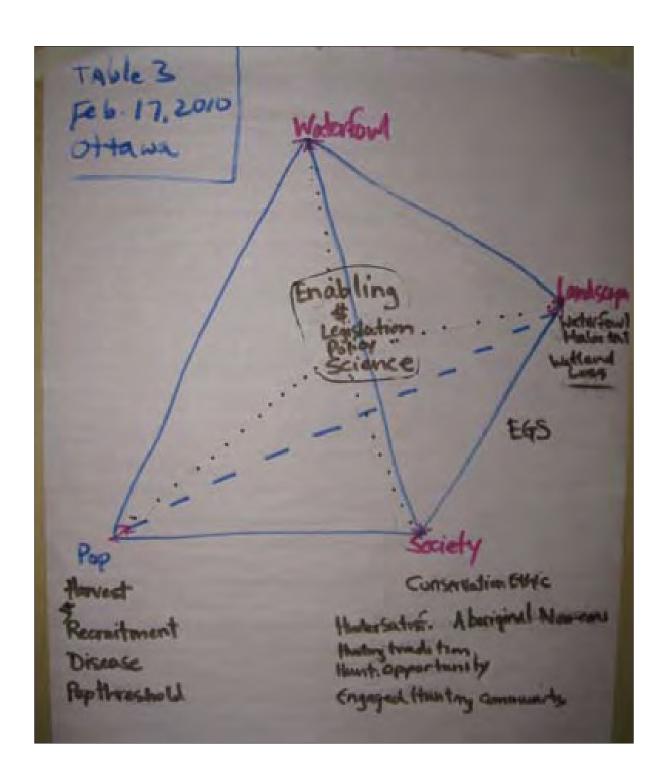


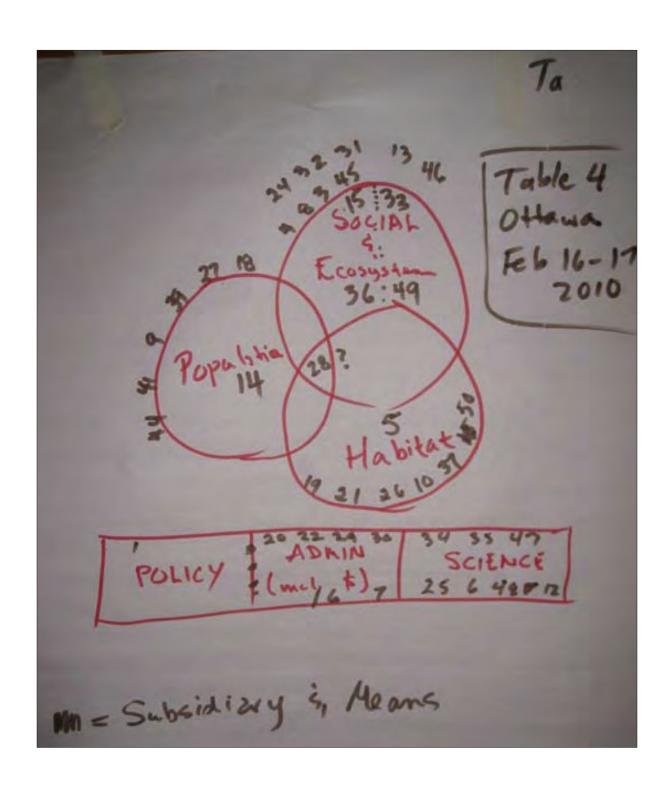




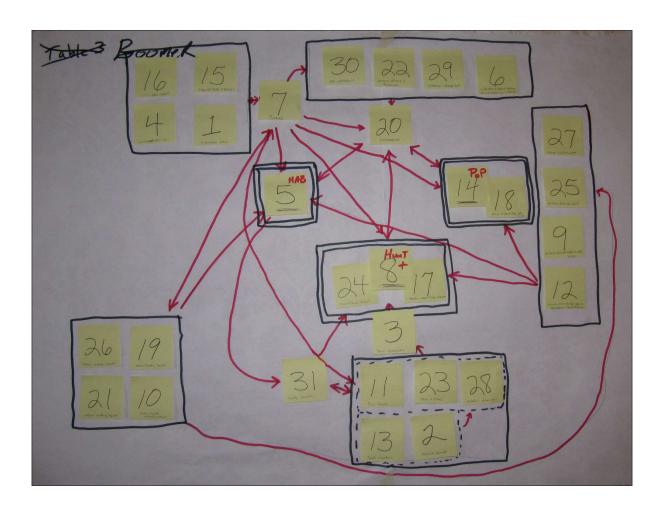


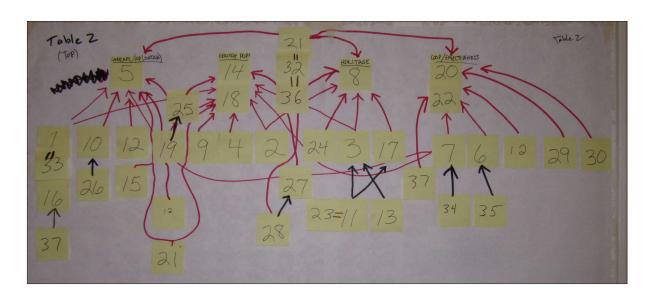


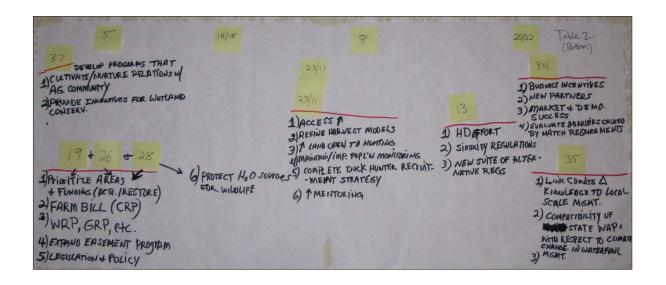


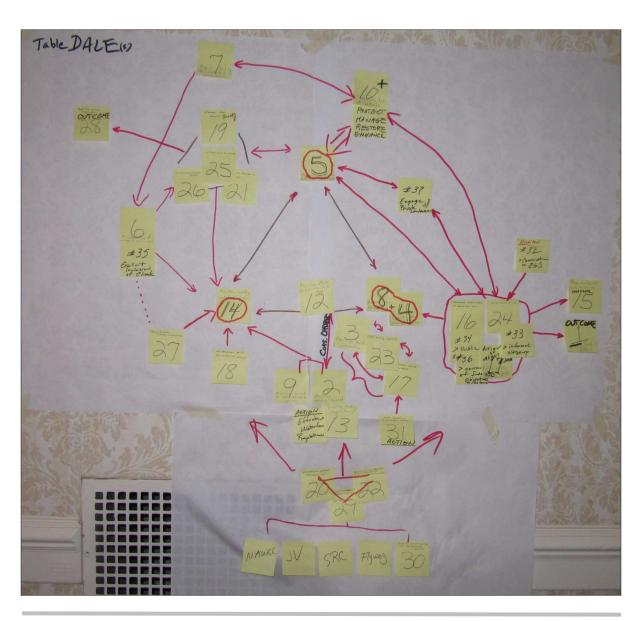




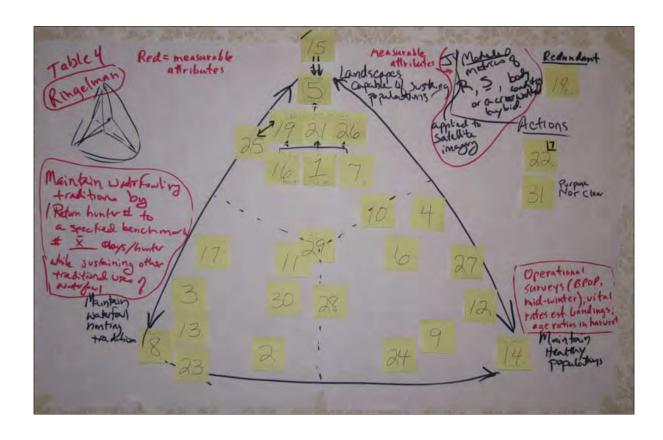


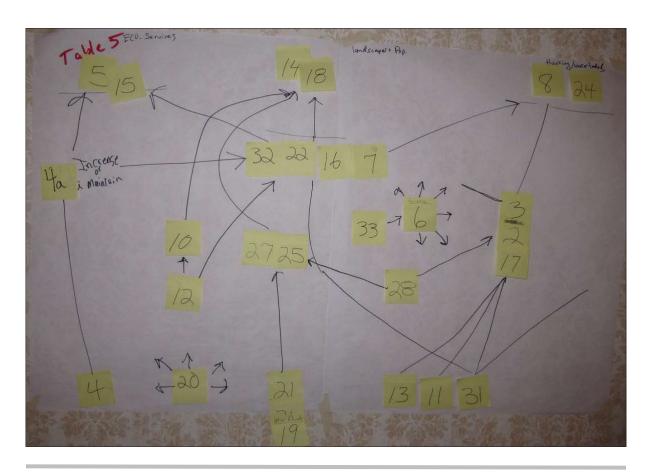


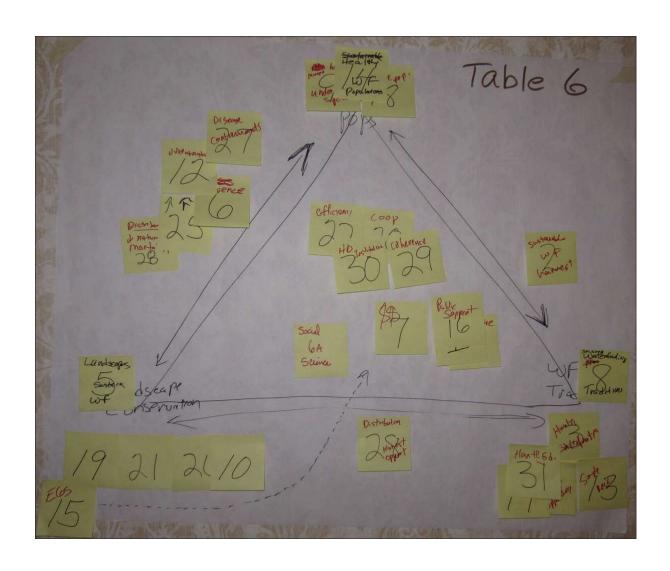




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Appendix I. Valuing exercise cross-tabulated descriptive statistics

Table I1: "Valuing waterfowl objectives exercise. (Descriptives by attendance at Round 1)

				q1:	Lattended Re	ound 1 Wksh	p?			
			Yes					No		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	62	13.45	7.99	13	10	27	11.70	10.04	10	5
L-A	62	14.58	7.42	15	10	27	15.11	6.26	15	10
L-B	62	6.82	3.51	5	5	27	6.00	2.95	5	5
L-C	62	4.95	3.54	5	5	27	4.33	2.81	5	5
Populations (P)	62	16.56	10.71	15	10	27	14.07	11.77	10	10
P-D	62	9.63	5.79	10	5	27	13.44	9.70	10	10
P-E	62	5.31	2.80	5	5	27	5.93	4.53	5	5
Hunting (H)	62	9.11	7.78	8	5	27	10.70	8.39	5	5
H-F	62	8.61	5.22	6	5	27	8.74	5.67	10	5
Mewing (V)	62	5.60	5.14	5	5	27	4.15	3.06	5	5
V-G	62	5.37	3.72	5	5	27	5.81	4.18	5	5
L-total	62	39.81	12.97	40	40	27	37.15	12.75	40	40
P-total	62	31.50	10.53	30	30	27	33.44	11.50	30	30
H-total	62	17.73	9.46	15	10	27	19.44	9.31	20	10
V-total	62	10.97	6.34	10	10	27	9.96	4.82	10	10
Grand total	62	100.00	.00	100	100	27	100.00	.00	100	100

Table 12: "Valuing waterfowl objectives exercise. (Descriptives by workshop location)

							Mee	ting location	R2						
		1	New Orleans	5				Denver1					Portland		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	23	11.70	8.91	10	5	15	11.33	9.15	10	20	6	15.83	10.21	18	20
L-A	23	15.87	9.16	15	10	15	17.87	9.05	15	15	6	9.17	4.92	10	10
L-B	23	5.96	3.30	5	5	15	6.73	3.71	8	10	6	5.83	3.76	5	5
L-C	23	3.78	3.10	5	5	15	5.73	3.47	5	5	6	2.50	2.74	3	0
Populations (P)	23	24.04	12.99	20	30	15	13.27	8.87	10	10	6	13.33	7.53	15	15
P-D	23	9.87	7.29	10	5	15	12.67	11.52	8	5	6	7.50	5.24	8	5
P-E	23	4.04	2.75	5	5	15	5.40	3.79	5	5	6	2.50	2.74	3	0
Hunting (H)	23	9.43	4.74	10	10	15	6.47	5.99	5	5	6	21.67	18.35	18	10
H-F	23	7.00	5.95	5	5	15	9.87	3.81	10	10	6	6.67	2.58	5	5
Mewing (V)	23	4.70	3.72	5	5	15	3.80	3.28	5	5	6	10.00	12.25	5	5
V-G	23	3.61	2.87	4	5	15	6.87	4.05	5	5	6	5.00	3.16	5	5
L-total	23	37.30	13.99	40	40	15	41.67	16.97	40	40	6	33.33	18.62	35	30
P-total	23	37.96	12.35	40	40	15	31.33	13.56	30	20	6	23.33	12.11	30	30
H-total	23	16.43	8.12	15	10	15	16.33	6.40	15	10	6	28.33	18.07	25	10
V-total	23	8.30	4.34	10	10	15	10.67	4.58	10	10	6	15.00	12.65	10	10
Grand total	23	100.00	.00	100	100	15	100.00	.00	100	100	6	100.00	.00	100	100

Table 13: "Valuing waterfowl objectives exercise. (Descriptives by workshop location)

	l						Meet	ting locatior	1 R2						
			Denver2					Edmonton					Ottawa		
Values	∨alid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	8	6.63	4.75	5	5	19	16.37	7.43	20	20	20	13.35	8.54	10	10
L-A	8	14.00	8.07	10	10	19	14.32	6.87	15	20	20	14.00	4.80	14	10
L-B	8	6.88	2.59	5	5	19	6.32	3.58	5	5	20	7.60	3.90	8	10
L-C	8	4.13	3.23	5	5	19	5.63	3.44	5	5	20	5.30	3.51	5	5
Populations (P)	8	10.88	8.72	10	10	19	14.37	11.14	13	10	20	13.25	8.63	13	10
P-D	8	11.63	8.52	9	5	19	9.58	5.90	10	5	20	11.15	5.24	10	10
P-E	8	4.13	1.64	5	5	19	6.05	3.12	5	5	20	7.60	3.76	5	5
Hunting (H)	8	15.63	8.21	15	10	19	8.68	7.98	5	5	20	8.25	5.39	5	5
H-F	8	11.62	6.30	10	10	19	7.26	3.80	5	5	20	9.75	6.46	7	5
Mewing (V)	8	6.50	4.07	8	10	19	4.42	3.52	4	5	20	5.65	2.98	5	5
V-G	8	8.00	5.71	7	5	19	7.00	4.29	5	5	20	4.10	1.86	5	5
L-total	8	31.63	9.91	30	30	19	42.63	11.80	45	40	20	40.25	10.45	40	40
P-total	8	26.63	6.19	28	20	19	30.00	8.50	30	30	20	32.00	7.33	30	30
H-total	8	27.25	8.22	30	30	19	15.95	8.21	15	15	20	18.00	8.80	15	10
V-total	8	14.50	8.82	13	10	19	11.42	5.08	10	10	20	9.75	3.02	10	10
Grand total	8	100.00	.00	100	100	19	100.00	.00	100	100	20	100.00	.00	100	100

Table 14: "Valuing waterfowl objectives exercise. (Descriptives by country of residence)

					q2: Co	untry?				
			Canada					U.S.		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	40	14.75	8.02	15	10	51	11.27	8.79	10	5
L-A	40	14.30	5.82	15	20	51	15.29	8.82	15	10
L-B	40	6.68	3.49	5	5	51	6.53	3.55	5	5
L-C	40	5.53	3.34	5	5	51	4.18	3.32	5	5
Populations (P)	40	14.58	9.95	14	10	51	17.14	12.10	15	10
P-D	40	10.50	5.53	10	10	51	10.59	8.71	8	5
P-E	40	6.80	3.47	5	5	51	4.25	3.05	5	5
Hunting (H)	40	8.25	6.54	5	5	51	11.16	9.32	10	10
H-F	40	8.33	5.39	5	5	51	8.67	5.38	10	10
Mewing (V)	40	4.80	3.30	5	5	51	5.53	5.44	5	5
V-G	40	5.50	3.51	5	5	51	5.39	4.12	5	5
L-total	40	41.25	10.89	40	40	51	37.27	15.13	40	40
P-total	40	31.88	7.98	30	30	51	31.98	12.92	30	30
H-total	40	16.58	8.33	15	10	51	19.82	10.36	20	10
V-total	40	10.30	4.31	10	10	51	10.92	6.85	10	10
Grand total	40	100.00	.00	100	100	51	100.00	.00	100	100

Table 15: "Valuing waterfowl objectives exercise. (Descriptives by primary employment)

							q3: Prima	ry employ	ment?						
			Federal				S	tate/Prov					Non-govt		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	43	14.02	9.83	15	20	20	13.25	8.16	15	15	28	10.61	6.44	10	10
L-A	43	13.47	7.82	10	10	20	15.90	4.96	15	20	28	16.25	8.69	15	20
L-B	43	5.60	3.28	5	5	20	6.90	2.51	5	5	28	7.89	4.04	10	10
L-C	43	5.00	3.09	5	5	20	3.95	3.00	5	5	28	5.00	4.03	5	5
Populations (P)	43	18.98	11.89	15	20	20	13.15	8.46	14	10	28	13.50	11.07	10	10
P-D	43	9.79	7.45	8	5	20	11.40	5.99	11	5	28	11.11	8.45	10	10
P-E	43	5.30	3.43	5	5	20	5.60	3.95	5	5	28	5.32	3.27	5	5
Hunting (H)	43	8.44	6.12	5	5	20	10.40	5.24	10	10	28	11.71	12.06	6	5
H-F	43	8.07	5.36	5	5	20	9.50	6.08	8	5	28	8.50	4.90	7	5
Mewing (√)	43	5.28	3.88	5	5	20	4.95	3.14	5	5	28	5.29	6.36	5	5
V-G	43	6.05	3.87	5	5	20	5.00	4.30	5	5	28	4.82	3.43	5	5
L-total	43	38.09	13.68	40	40	20	40.00	12.14	40	40	28	39.75	14.53	40	40
P-total	43	34.07	11.81	35	40	20	30.15	9.48	30	30	28	29.93	10.33	30	30
H-total	43	16.51	8.06	15	10	20	19.90	8.87	20	15	28	20.21	11.85	15	10
V-total	43	11.33	4.69	10	10	20	9.95	6.22	10	10	28	10.11	7.15	10	10
Grand total	43	100.00	.00	100	100	20	100.00	.00	100	100	28	100.00	.00	100	100

Table 16: "Valuing waterfowl objectives exercise. (Descriptives by habitat responsibilities)

						q4: G	ieography f	or habitat i	responsibiliti	ies?					
			Flyway					National					None		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	45	14.51	8.37	15	10	31	10.74	8.02	10	0	15	11.93	9.84	5	5
L-A	45	15.40	7.35	15	10	31	14.68	6.27	15	20	15	13.60	10.83	10	10
L-B	45	6.80	3.17	5	10	31	6.77	3.89	5	5	15	5.60	3.68	5	5
L-C	45	5.40	3.63	5	5	31	4.13	3.10	5	5	15	4.20	3.00	5	5
Populations (P)	45	13.76	7.48	15	15	31	15.90	12.67	12	10	15	23.00	14.86	20	10
P-D	45	9.44	6.76	10	5	31	11.61	7.69	10	5	15	11.67	8.85	10	15
P-E	45	5.42	3.61	5	5	31	5.65	3.55	5	5	15	4.67	2.87	5	5
Hunting (H)	45	8.91	7.10	5	5	31	11.61	10.49	10	5	15	9.20	6.25	5	5
H-F	45	9.16	5.47	8	5	31	8.74	5.60	7	5	15	6.13	3.98	5	5
Mewing (V)	45	5.16	3.08	5	5	31	5.10	6.62	4	0	15	5.60	3.56	5	5
V-G	45	6.04	4.13	5	5	31	5.06	3.63	5	5	15	4.40	3.25	5	5
L-total	45	42.11	12.59	40	40	31	36.32	12.87	40	40	15	35.33	16.09	40	40
P-total	45	28.62	8.32	30	30	31	33.16	11.51	30	30	15	39.33	13.21	40	40
H-total	45	18.07	8.86	15	10	31	20.35	10.67	20	15	15	15.33	9.15	10	10
V-total	45	11.20	5.32	10	10	31	10.16	7.08	10	10	15	10.00	4.63	10	10
Grand total	45	100.00	.00	100	100	31	100.00	.00	100	100	15	100.00	.00	100	100

Table 17: "Valuing waterfowl objectives exercise. (Descriptives by population responsibilities)

						q5: Geo	graphy for p	population	responsibilit	ies?					
			Flyway					National					None		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	40	14.50	8.97	15	20	32	10.16	6.42	10	10	19	13.68	10.20	15	0
L-A	40	15.05	7.73	15	10	32	14.78	7.77	15	20	19	14.58	7.57	12	10
L-B	40	6.68	3.19	5	5	32	6.19	3.39	5	5	19	7.11	4.34	10	10
L-C	40	4.78	3.45	5	5	32	4.03	2.69	5	5	19	6.00	4.04	5	10
Populations (P)	40	15.65	8.10	15	10	32	19.50	14.22	15	10	19	10.89	9.46	10	10
P-D	40	9.70	6.66	10	5	32	11.87	8.28	10	5	19	10.11	7.62	10	5
P-E	40	4.97	2.92	5	5	32	5.34	4.15	5	5	19	6.26	3.26	5	5
Hunting (H)	40	9.50	7.27	5	5	32	10.22	5.75	10	5	19	10.11	13.14	5	5
H-F	40	8.95	5.83	8	5	32	7.81	4.66	6	5	19	8.79	5.58	5	5
Mewing (V)	40	5.00	2.56	5	5	32	5.13	4.32	5	10	19	5.79	7.71	5	5
V-G	40	5.23	3.92	5	5	32	4.97	3.23	5	5	19	6.68	4.53	5	5
L-total	40	41.00	13.92	40	40	32	35.16	12.08	40	40	19	41.37	14.15	45	50
P-total	40	30.33	9.06	30	30	32	36.72	11.26	35	30	19	27.26	11.65	25	20
H-total	40	18.45	9.06	15	10	32	18.03	7.61	15	10	19	18.89	13.54	15	10
V-total	40	10.23	4.89	10	10	32	10.09	4.91	10	10	19	12.47	8.55	10	10
Grand total	40	100.00	.00	100	100	32	100.00	.00	100	100	19	100.0	.00	100	100

Table 18: "Valuing waterfowl objectives exercise. (Descriptives by years active in waterfowl management)

						q	6: Years ac	tive in WF	mngt?						
			11 yrs					11-20 yrs					>20 yrs		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	27	15.59	9.94	15	5	27	9.81	8.29	10	10	37	12.95	7.14	15	10
L-A	27	14.81	8.02	15	10	27	15.74	6.80	15	20	37	14.24	8.04	12	10
L-B	27	6.30	4.36	5	5	27	6.37	2.57	5	5	37	6.97	3.45	7	10
L-C	27	5.26	2.78	5	5	27	3.67	3.04	5	5	37	5.22	3.87	5	5
Populations (P)	27	15.67	9.49	15	20	27	15.59	11.52	10	10	37	16.57	12.38	15	10
P-D	27	6.78	4.67	5	5	27	13.78	7.74	15	15	37	10.95	7.81	10	5
P-E	27	6.44	4.33	5	5	27	4.56	3.26	5	5	37	5.19	2.72	5	5
Hunting (H)	27	8.48	10.35	5	5	27	11.93	7.75	10	5	37	9.41	6.84	8	5
H-F	27	8.37	5.66	5	5	27	9.30	5.93	10	10	37	8.05	4.75	5	5
Mewing (V)	27	6.37	6.46	5	5	27	4.44	4.15	4	5	37	4.92	3.00	5	5
V-G	27	5.93	3.87	5	5	27	4.81	4.62	5	5	37	5.54	3.20	5	5
L-total	27	41.96	14.39	45	40	27	35.59	12.48	35	40	37	39.38	13.37	40	40
P-total	27	28.89	11.63	30	30	27	33.93	8.66	33	30	37	32.70	11.76	30	30
H-total	27	16.85	11.36	15	10	27	21.22	8.81	20	20	37	17.46	8.53	15	10
V-total	27	12.30	7.16	10	10	27	9.26	6.27	10	5	37	10.46	4.07	10	10
Grand total	27	100.00	.00	100	100	27	100.00	.00	100	100	37	100.0	.00	100	100

Table 19: "Valuing waterfowl objectives exercise. (Descriptives by most frequent waterfowl management "hat" worn)

				q7: Mos	t frequent \	WF mngt ha	it?			
		Adi	ministrator					Biologist		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	53	12.96	8.47	10	10	38	12.58	8.87	13	20
L-A	53	14.34	7.57	15	10	38	15.58	7.75	15	10
L-B	53	6.91	3.59	5	10	38	6.16	3.38	5	5
L-C	53	4.58	3.40	5	5	38	5.03	3.37	5	5
Populations (P)	53	14.58	10.64	13	15	38	18.00	11.84	15	10
P-D	53	11.28	7.89	10	5	38	9.53	6.75	10	5
P-E	53	5.47	3.72	5	5	38	5.24	3.11	5	5
Hunting (H)	53	9.77	7.59	5	5	38	10.03	9.31	10	10
H-F	53	9.53	5.29	10	10	38	7.11	5.20	5	5
Mewing (√)	53	4.81	3.52	5	5	38	5.76	5.81	5	5
V-G	53	5.75	4.22	5	5	38	5.00	3.25	5	5
L-total	53	38.79	13.13	40	40	38	39.34	14.20	40	40
P-total	53	31.34	10.28	30	30	38	32.76	11.95	30	30
H-total	53	19.30	9.13	20	10	38	17.13	10.22	15	10
V-total	53	10.57	5.71	10	10	38	10.76	6.10	10	10
Grand total	53	100.00	.00	100	100	38	100.00	.00	100	100

Table 110: "Valuing waterfowl objectives exercise. (Descriptives by waterfowl management responsibilites)

									q	8: I spend	most time:									\neg
		Managin	g WF popu	ulations			Man	aging habi	tat			Equal ha	ibitat/popul	ations				None		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	34	11.91	7.40	10	5	33	14.30	8.56	15	10	8	12.88	10.91	10	10	16	11.56	10.12	10	0
L-A	34	14.32	8.56	14	10	33	15.52	6.61	15	20	8	12.13	6.79	10	10	16	16.00	8.13	15	20
L-B	34	5.91	3.48	5	5	33	7.61	3.76	10	10	8	6.13	3.04	5	5	16	6.19	2.97	5	5
L-C	34	3.82	2.84	5	5	33	5.91	3.87	5	5	8	4.25	3.77	4	0	16	4.69	2.68	5	5
Populations (P)	34	21.00	11.74	20	10	33	11.91	8.80	10	15	8	12.13	8.48	10	5	16	15.81	12.32	15	15
P-D	34	11.29	7.86	10	10	33	9.12	5.35	10	5	8	11.13	9.45	9	5	16	11.62	9.33	8	5
P-E	34	4.41	2.85	5	5	33	6.24	3.90	5	5	8	3.38	2.07	5	5	16	6.63	3.48	5	5
Hunting (H)	34	10.82	7.09	10	5	33	8.70	9.93	5	5	8	14.50	9.59	10	10	16	8.00	5.42	7	5
H-F	34	7.79	6.00	5	5	33	9.27	5.36	10	5	8	9.63	5.78	10	10	16	7.94	3.57	6	5
Mewing (V)	34	4.50	3.42	5	5	33	5.79	5.83	5	5	8	6.38	4.24	8	10	16	4.94	4.28	5	5
V-G	34	4.21	2.74	5	5	33	5.64	3.55	5	5	8	7.50	6.46	8	10	16	6.63	4.30	5	5
L-total	34	35.97	13.70	40	40	33	43.33	13.83	45	50	8	35.38	11.82	37	20	16	38.44	11.79	40	40
P-total	34	36.71	10.88	40	40	33	27.27	9.36	30	30	8	26.63	6.19	28	20	16	34.06	11.72	30	30
H-total	34	18.62	9.22	18	10	33	17.97	11.02	15	10	8	24.13	10.23	28	30	16	15.94	5.84	15	15
V-total	34	8.71	3.25	10	10	33	11.42	7.04	10	10	8	13.88	9.72	15	5	16	11.56	3.97	10	10
Grand total	34	100.00	.00	100	100	33	100.0	.00	100	100	8	100.00	.00	100	100	16	100.00	.00	100	100

Table 111: "Valuing waterfowl objectives exercise. (Descriptives by importance of waterfowl hunting to workshop participants)

						q9: H	ow importar	it WF hun	ting to you?	,					
		Ven	y important				Les	s importar	ıt			[Don't hunt		
Values	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode	Valid N	Mean	SD	Median	Mode
Landscapes (L)	43	11.00	7.48	10	10	29	13.83	8.62	15	5	19	15.32	10.34	18	20
L-A	43	15.02	7.17	15	10	29	15.21	7.74	15	10	19	13.95	8.75	10	10
L-B	43	6.77	3.34	5	5	29	7.66	3.32	6	5	19	4.58	3.47	5	5
L-C	43	3.74	3.09	5	5	29	5.62	3.67	5	5	19	5.79	3.01	5	5
Populations (P)	43	13.74	9.76	10	10	29	16.52	10.15	15	10	19	20.37	14.63	20	20
P-D	43	13.79	8.46	15	15	29	8.31	4.31	8	5	19	6.63	5.67	5	5
P-E	43	4.47	2.81	5	5	29	5.34	3.73	5	5	19	7.47	3.64	10	10
Hunting (H)	43	12.49	9.82	10	10	29	9.07	5.87	7	5	19	5.21	5.08	5	5
H-F	43	9.44	5.58	10	5	29	8.03	4.90	8	5	19	7.16	5.39	5	5
Mewing (V)	43	4.58	5.59	5	5	29	5.55	3.12	5	5	19	6.11	4.03	5	5
V-G	43	4.95	3.12	5	5	29	4.86	4.06	5	5	19	7.42	4.50	5	5
L-total	43	36.53	13.72	40	40	29	42.31	13.94	40	40	19	39.63	11.75	40	40
P-total	43	32.00	10.52	30	30	29	30.17	10.48	30	30	19	34.47	12.68	35	25
H-total	43	21.93	10.63	20	15	29	17.10	7.71	15	10	19	12.37	5.86	10	10
V-total	43	9.53	6.50	10	10	29	10.41	5.26	10	10	19	13.53	4.17	10	10
Grand total	43	100.00	.00	100	100	29	100.00	.00	100	100	19	100.00	.00	100	100

Appendix J. Objectives results cross-tabulated frequencies and descriptive statistics

Table J1: "It is important that NAWMP has quantitative (numerical) objectives." (Frequencies)

		q10: Importar	nt that NAW	MP has quar	ntitative objed	tives?
Round (R) 2 Characteristic	Strongly agree	Agree	Neutral	Disagree	Total
Meeting location R2	New Orleans	35%	54%	8%	4%	26
	Denver1	69%	31%	0%	0%	16
	Portland	67%	33%	0%	0%	15
	Denver2	71%	29%	0%	0%	7
	Edmonton	71%	29%	0%	0%	17
	Ottawa	61%	39%	0%	0%	23
	Total	59%	38%	2%	1%	104
q1: I attended Round 1	Yes	58%	39%	1%	1%	69
Wkshop?	No	61%	35%	3%	0%	31
	Don't remember	67%	33%	0%	0%	3
q2: Country?	Canada	63%	37%	0%	0%	41
4 , -	U.S.	56%	39%	3%	2%	62
q3: Primary employment?	Federal agency	48%	46%	4%	2%	50
4	Non-gov org	77%	23%	0%	0%	26
	Private business	100%	0%	0%	0%	2
	State/Provincial	57%	43%	0%	0%	21
	University	75%	25%	0%	0%	4
q4: Geography for which	Atlantic FW	54%	46%	0%	0%	13
you have habitat	Mississippi FW	67%	33%	0%	0%	9
responsibilities?	Central FW	83%	17%	0%	0%	12
	Pacific FW	50%	50%	0%	0%	16
	National/multiple FWs	67%	33%	0%	0%	36
	None	33%	50%	11%	6%	18
q5: Geography for which	Atlantic FW	54%	46%	0%	0%	13
you have population	Mississippi FW	50%	50%	0%	0%	10
responsibilities?	Central FW	30% 80%	20%	0%	0%	-
	Pacific FW	64%	36%	0%	0%	10
	National/multiple FWs	47%	47%	3%	3%	36
A 11 1 2 2	None	71%	25%	4%	0%	24
q6: How long active in waterfowl management?	0-1 yr	67%	17%	17%	0%	6
•	2-5 yrs	31%	69%	0%	0%	16
	6-10 yrs	58%	42%	0%	0%	12
	11-20 yrs	56%	41%	3%	0%	32
	21-30 yrs	76%	24%	0%	0%	25
	>30 yrs	62%	31%	0%	8%	13
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	64%	36%	0%	0%	11
	Program coordinator/admin	68%	32%	0%	0%	44
	Biologist/scientist	43%	51%	5%	0%	37
	Researcher	70%	20%	0%	10%	10
	Regulations committee member	50%	50%	0%	0%	2
q8: I spend most time:	Managing WF populations	44%	50%	3%	3%	36
	Managing habitat	69%	31%	0%	0%	35
	Equal habitat/populations	60%	40%	0%	0%	10
	None	65%	30%	4%	0%	23
q9: How important a recreational activity is WF	Most important rec-activity	50%	50%	0%	0%	20
hunting to you?	1 of most important rec-activities	65%	32%	3%	0%	34
	No more important than others	68%	32%	0%	0%	19
	Less important than others	63%	38%	0%	0%	8
	1 of least important rec-activities	100%	0%	0%	0%	1
	Don't WF hunt	45%	45%	5%	5%	22

Table J2: "It is important that NAWMP has quantitative (numerical) objectives." (Descriptives)

		q10	: Important t	hat NAWMP has qua	intitative ob	jectives?	
Round (R)) 2 Characteristic	Valid N	Mean	Word anchor	Median	Mode	SD
Meeting location R2	New Orleans	26	1.81	Agree	2.00	2	.75
	Denver1	16	1.31	Strongly agree	1.00	1	.48
	Portland	15	1.33	Strongly agree	1.00	1	.49
	Denver2	7	1.29	Strongly agree	1.00	1	.49
	Edmonton	17	1.29	Strongly agree	1.00	1	.47
	Ottawa	23	1.39	Strongly agree	1.00	1	.50
	Total	104	1.45	Strongly agree	1.00	1	.59
q1: Lattended Round 1	Yes	69	1.46	Strongly agree	1.00	1	.61
Wkshop?	No	31	1.42	Strongly agree	1.00	1	.56
	Don't remember	3	1.33	Strongly agree	1.00	1	.58
q2: Country?	Canada	41	1.37	Strongly agree	1.00	1	.49
	U.S.	62	1.50	Agree	1.00	1	.65
q3: Primary employment?	Federal agency	50	1.60	Agree	2.00	1	.67
	Non-gov org	26	1.23	Strongly agree	1.00	1	.43
	Private business	2	1.00	Strongly agree	1.00	1	.00
	State/Provincial	21	1.43	Strongly agree	1.00	1	.51
	University	4	1.25	Strongly agree	1.00	1	.50
q4: Geography for which	Atlantic FW	13	1.46	Strongly agree	1.00	1	.52
you have habitat responsibilities?	Mississippi FW	9	1.33	Strongly agree	1.00	1	.50
Table III III III III III III III III III I	Central FW	12	1.17	Strongly agree	1.00	1	.39
	Pacific FW	16	1.50	Strongly agree	1.50	1	.52
	National/multiple FWs	36	1.33	Strongly agree	1.00	1	.48
	None	18	1.89	Strongly agree	2.00	2	.83
q5: Geography for which	Atlantic FW	13	1.46	Strongly agree	1.00	1	.52
you have population responsibilities?	Mississippi FW	10	1.50	Agree	1.50	1	.53
	Central FW	10	1.20	Strongly agree	1.00	1	.42
	Pacific FW	11	1.36	Strongly agree	1.00	1	.50
	National/multiple FWs	36	1.61	Agree	2.00	1	.69
	None	24	1.33	Strongly agree	1.00	1	.56
q6: How long active in	0-1 yr	6	1.50	Agree	1.00	1	.84
waterfowl management?	2-5 yrs	16	1.69	Agree	2.00	2	.48
	6-10 yrs	12	1.42	Strongly agree	1.00	1	.51
	11-20 yrs	32	1.47	Strongly agree	1.00	1	.57
	21-30 yrs	25	1.24	Strongly agree	1.00	1	.44
	>30 yrs	13	1.54	Agree	1.00	1	.88
q7: Most frequent	Agency/Executive director	11	1.36	Strongly agree	1.00	1	.50
waterfowl mingt hat?	Program coordinator/admin	44	1.32	Strongly agree	1.00	1	.47
	Biologist/scientist	37	1.62	Agree	2.00	2	.59
	Researcher	10	1.50	Agree	1.00	1	.97
	Regulations committee member	2	1.50	Agree	1.50	1	.71
q8: I spend most time:	Managing WF populations	36	1.64	Agree	2.00	2	.68
	Managing habitat	35	1.31	Strongly agree	1.00	1	.47
	Equal habitat/populations	10	1.40	Strongly agree	1.00	1	.52
	None	23	1.39	Strongly agree	1.00	1	.58
q9: How important a	Most important rec-activity	20	1.50	Agree	1.50	1	.51
recreational activity is WF hunting to you?	1 of most important rec-activities	34	1.38	Strongly agree	1.00	1	.55
nanting to you?	No more important than others	19	1.32	Strongly agree	1.00	1	.48
	Less important than others	8	1.38	Strongly agree	1.00	1	.52
	1 of least important rec-activities	1	1.00	Strongly agree	1.00	1	
	. J. reads important reo-activities	· '	1.00	our orniginy agrice	1	ı '	

a. Based on rounded mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table J3: "It makes sense to have quantifiable objectives for each of the four fundamental objectives." (Frequencies)

		q11: Mak			itifiable object objectives?	ives for each	of 4
Round (R)	2 Characteristic	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	Total
Meeting location R2	New Orleans	15%	54%	12%	15%	4%	26
	Denver1	13%	56%	19%	13%	0%	16
	Portland	40%	60%	0%	0%	0%	15
	Denver2	43%	43%	14%	0%	0%	7
	Edmonton	35%	65%	0%	0%	0%	17
	Ottawa	35%	52%	9%	4%	0%	23
	Total	28%	56%	9%	7%	1%	104
q1: I attended Round 1	Yes	25%	55%	10%	9%	1%	69
Wkshop?	No	35%	55%	6%	3%	0%	31
	Don't remember	33%	67%	0%	0%	0%	3
q2: Country?	Canada	32%	59%	7%	2%	0%	41
	U.S.	26%	53%	10%	10%	2%	62
q3: Primary employment?	Federal agency	24%	54%	12%	8%	2%	50
	Non-gov org	38%	46%	8%	8%	0%	26
	Private business	50%	0%	50%	0%	0%	2
	State/Provincial	29%	67%	0%	5%	0%	21
	University	0%	100%	0%	0%	0%	4
q4: Geography for which	Atlantic FW	31%	62%	8%	0%	0%	13
ýou havě habitat responsibilities?	Mississippi FW	33%	67%	0%	0%	0%	9
responsibilities :	Central FW	33%	50%	0%	8%	8%	12
	Pacific FW	31%	56%	13%	0%	0%	16
	National/multiple FWs	22%	64%	8%	6%	0%	36
	None	28%	33%	17%	22%	0%	18
q5: Geography for which	Atlantic FW	23%	54%	8%	15%	0%	13
you have population	Mississippi FW	30%	40%	10%	20%	0%	10
responsibilities?	Central FW	20%	60%	0%	10%	10%	10
	Pacific FW	27%	64%	9%	0%	0%	11
	National/multiple FWs	19%	58%	17%	6%	0%	36
	None	46%	54%	0%	0%	0%	24
qβ: How long active in	0-1 yr	50%	50%	0%	0%	0%	6
waterfowl management?	2-5 yrs	25%	63%	6%	6%	0%	16
	6-10 yrs	42%	50%	0%	8%	0%	12
	11-20 yrs	25%	59%	9%	6%	0%	32
	21-30 yrs	32%	48%	12%	8%	0%	25
	>30 yrs	8%	62%	15%	8%	8%	13
q7: Most frequent	Agency/Executive director	55%	45%	0%	0%	0%	11
waterfowl mngt hat?	Program coordinator/admin	30%	55%	11%	5%	0%	44
	Biologist/scientist	19%	59%	5%	14%	3%	37
	Researcher	30%	50%	20%	0%	0%	10
	Regulations committee member	0%	100%	0%	0%	0%	2
q8: I spend most time:	Managing WF populations	17%	56%	11%	14%	3%	36
40. I Spena most time.	Managing habitat	34%	57%	9%	0%	0%	35
	Equal habitat/populations	40%	60%	0%	0%	0%	10
	None	30%	52%	9%	9%	0%	23
q9: How important a	Most important rec-activity	30%	65%	5%	0%	0%	20
recreational activity is WF	1 of most important rec-activities	21%	59%	12%	6%	3%	34
hunting to you?	No more important than others	42%	47%	5%	5%	0%	19
	Less important than others	25%	50%	0%	25%	0%	8
	<u> </u>		0%		0%		
	1 of least important rec-activities	100%		0%		0%	1 22
	Don't WF hunt	23%	55%	14%	9%	0%	22

Table J4: "It makes sense to have quantifiable objectives for each of the four fundamental objectives." (Descriptives)

		q11: M	akes sense	to have quanitifiable fundamental objecti	objectives : ves?	for each o	f 4
Round (R)	2 Characteristic	Valid N	Mean	Word anchor	Median	Mode	SD
Meeting location R2	New Orleans	26	2.38	Agree	2.00	2	1.06
	Denver1	16	2.31	Agree	2.00	2	.87
	Portland	15	1.60	Agree	2.00	2	.51
	Denver2	7	1.71	Agree	2.00	1	.76
	Edmonton	17	1.65	Agree	2.00	2	.49
	Ottawa	23	1.83	Agree	2.00	2	.78
	Total	104	1.97	Agree	2.00	2	.85
q1: Lattended Round 1	Yes	69	2.07	Agree	2.00	2	.91
Ŵkshop?	No	31	1.77	Agree	2.00	2	.72
	Don't remember	3	1.67	Agree	2.00	2	.58
q2: Country?	Canada	41	1.80	Agree	2.00	2	.68
qz. oodiniy.	U.S.	62	2.08	Agree	2.00	2	.95
q3: Primary employment?	Federal agency	50	2.10	Agree	2.00	2	.93
qo. i ilinary employment:	<u> </u>	26	1.85		2.00	2	.88
	Non-gov org Private business	26	2.00	Agree Agree	2.00	1	1.41
	State/Provincial		1.81		2.00		.68
		21		Agree		2	
-4. C	University	4	2.00	Agree	2.00	2	.00
q4: Geography for which you have habitat	Atlantic FW	13	1.77	Agree	2.00		.60
responsibilities?	Mississippi FW	9	1.67	Agree	2.00	2	.50
	Central FW	12	2.08	Agree	2.00	2	1.24
	Pacific FW	16	1.81	Agree	2.00	2	.66
	National/multiple FW/s	36	1.97	Agree	2.00	2	.74
	None	18	2.33	Agree	2.00	2	1.14
q5: Geography for which you have population	Atlantic FW	13	2.15	Agree	2.00	2	.99
responsibilities?	Mississippi FW	10	2.20	Agree	2.00	2	1.14
	Central FW	10	2.30	Agree	2.00	2	1.25
	Pacific FW	11	1.82	Agree	2.00	2	.60
	National/multiple FWs	36	2.08	Agree	2.00	2	.77
	None	24	1.54	Agree	2.00	2	.51
q6: How long active in	0-1 yr	6	1.50	Agree	1.50	1	.55
waterfowl management?	2-5 yrs	16	1.94	Agree	2.00	2	.77
	6-10 yrs	12	1.75	Agree	2.00	2	.87
	11-20 yrs	32	1.97	Agree	2.00	2	.78
	21-30 yrs	25	1.96	Agree	2.00	2	.89
	>30 yrs	13	2.46	Agree	2.00	2	1.05
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	11	1.45	Strongly agree	1.00	1	.52
mngt hat?	Program coordinator/admin	44	1.91	Agree	2.00	2	.77
	Biologist/scientist	37	2.22	Agree	2.00	2	1.00
	Researcher	10	1.90	Agree	2.00	2	.74
	Regulations committee member	2	2.00	Agree	2.00	2	.00
q8: I spend most time:	Managing WF populations	36	2.31	Agree	2.00	2	1.01
,	Managing habitat	35	1.74	Agree	2.00	2	.61
	Equal habitat/populations	10	1.60	Agree	2.00	2	.52
	None None	23	1.96	Agree	2.00	2	.88
q9: How important a	Most important rec-activity	20	1.75	Agree	2.00	2	.55
recreational activity is WF	1 of most important rec-activities	34	2.12	Agree	2.00	2	.91
hunting to you?	No more important than others	19	1.74		2.00	2	.81
	· ·			Agree			
	Less important than others	8	2.25	Agree	2.00	2	1.16
	1 of least important rec-activities	1	1.00	Strongly agree	1.00	1	- 07
	Don't WF hunt	22	2.09	Agree	2.00	2	.87

a. Based on rounded mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table J5: "The current NAWMP population objectives are adequate to guide waterfowl conservation into the future." (Frequencies)

		q12: C	urrent NAW	MP pop-obj onservation	ectives adequ ninto future?	ate to guide V	VF
Round (R)) 2 Characteristic	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	Total
Meeting location R2	New Orleans	4%	19%	27%	42%	8%	26
	Denver1	6%	44%	19%	25%	6%	16
	Portland	7%	60%	7%	27%	0%	1:
	Denver2	14%	14%	0%	43%	29%	
	Edmonton	0%	29%	12%	47%	12%	1
	Ottawa	9%	9%	22%	57%	4%	2:
	Total	6%	28%	17%	41%	8%	10
q1: Lattended Round 1	Yes	6%	23%	16%	49%	6%	6
Ŵkshop?	No	6%	39%	19%	26%	10%	3
	Don't remember	0%	33%	33%	0%	33%	
q2: Country?	Canada	5%	20%	17%	51%	7%	4
42. 555111.7.	U.S.	6%	34%	18%	34%	8%	6
g3: Primary employment?	Federal agency	4%	28%	20%	38%	10%	5
qo. minary employment:	<u> </u>						2
	Non-gov org	15%	27%	4%	46%	8%	-
	Private business	0%	50%	50%	0%	0%	
	State/Provincial	0%	19%	24%	52%	5%	2
	University	0%	75%	25%	0%	0%	<u>.</u>
q4: Geography for which you have habitat	Atlantic FW	0%	0%	31%	62%	8%	1
responsibilities?	Mississippi FW	0%	33%	33%	33%	0%	
	Central FW	8%	50%	17%	25%	0%	1
	Pacific FW	0%	50%	19%	31%	0%	1
	National/multiple FWs	14%	19%	3%	50%	14%	3
	None	0%	28%	28%	33%	11%	1
q5: Geography for which	Atlantic FW	0%	0%	31%	62%	8%	1
you have population responsibilities?	Mississippi FW	0%	50%	30%	20%	0%	1
•	Central FW	10%	50%	20%	10%	10%	1
	Pacific FW	0%	55%	9%	36%	0%	1
	National/multiple FWs	6%	22%	8%	50%	14%	3
	None	13%	21%	21%	42%	4%	2
q8: How long active in	0-1 yr	0%	17%	67%	17%	0%	
waterfowl management?	2-5 yrs	6%	31%	38%	25%	0%	1
	6-10 yrs	0%	33%	8%	58%	0%	1
	11-20 yrs	3%	19%	9%	50%	19%	3
	21-30 yrs	8%	36%	12%	44%	0%	2
	>30 yrs	15%	31%	8%	31%	15%	1
a7: Mart fraguest	· ·	9%	18%		36%	9%	-
q7: Most frequent waterfowl mngt hat?	Agency/Executive director Program coordinator/admin	7%	23%	27%	50%	7%	1 4
	<u> </u>			14%			-
	Biologist/scientist	5%	30%	22%	35%	8%	3
	Researcher	0%	50%	10%	30%	10%	1
	Regulations committee member	0%	50%	0%	50%	0%	
q8: I spend most time:	Managing WF populations	6%	28%	17%	42%	8%	3
	Managing habitat	6%	26%	17%	43%	9%	3
	Equal habitat/populations	10%	40%	10%	30%	10%	1
	None	4%	26%	22%	43%	4%	2
q9: How important a	Most important rec-activity	10%	45%	5%	30%	10%	2
ecreational activity is WF nunting to you?	1 of most important rec-activities	12%	26%	12%	44%	6%	- 3
	No more important than others	0%	21%	26%	47%	5%	1
	Less important than others	0%	13%	13%	75%	0%	
	1 of least important rec-activities	0%	100%	0%	0%	0%	
	Don't WF hunt	0%	23%	32%	32%	14%	-

Table J6: "The current NAWMP population objectives are adequate to guide waterfowl conservation into the future." (Descriptives)

		q12:	Current NA	WMP pop-objectiv conservation into	res adequati) future?	e to guide	WF
Round (F	R) 2 Characteristic	Valid N	Mean	Word anchor	Median	Mode	SD
Meeting location R2	New Orleans	26	3.31	Neutral	3.50	4	1.01
	Denver1	16	2.81	Neutral	2.50	2	1.11
	Portland	15	2.53	Neutral	2.00	2	.99
	Denver2	7	3.57	Disagree	4.00	4	1.51
	Edmonton	17	3.41	Neutral	4.00	4	1.06
	Ottawa	23	3.39	Neutral	4.00	4	1.03
	Total	104	3.17	Neutral	3.00	4	1.10
q1: Lattended Round 1	Yes	69	3.26	Neutral	4.00	4	1.07
Ŵkshop?	No	31	2.94	Neutral	3.00	2	1.15
	Don't remember	3	3.33	Neutral	3.00	2	1.53
q2: Country?	Canada	41	3.37	Neutral	4.00	4	1.04
	U.S.	62	3.03	Neutral	3.00	2	1.13
q3: Primary	Federal agency	50	3.22	Neutral	3.00	4	1.03
employment?	Non-gov org	26	3.04	Neutral	4.00	4	1.31
	Private business	2	2.50	Neutral	2.50	2	.7
	State/Provincial	21	3.43	Neutral	4.00	4	.87
	University	4	2.25	Agree	2.00	2	.50
q4: Geography for which	Atlantic FW	13	3.77	Disagree	4.00	4	.60
you have habitat	Mississippi FW	9	3.00	Neutral	3.00	2	.8'
responsibilities?	Central FW	12	2.58	Neutral	2.00	2	1.00
	Pacific FW	16	2.81	Neutral	2.50	2	.9
	National/multiple FWs	36	3.31	Neutral	4.00	4	1.3
	None	18	3.28	Neutral	3.00	4	1.0
q5: Geography for which	Atlantic FW	13	3.77	Disagree	4.00	4	.61
you have population	Mississippi FW	10	2.70	Neutral	2.50	2	.8;
responsibilities?	Central FW	10	2.60	Neutral	2.00	2	1.17
	Pacific FW	11	2.82	Neutral	2.00	2	.93
	National/multiple FWs	36	3.44	Neutral	4.00	4	1.10
	None None	24	3.04	Neutral	3.00	4	1.16
q6: How long active in	0-1 yr	6	3.00	Neutral	3.00	3	.63
waterfowl management?	2-5 yrs	16	2.81	Neutral	3.00	3	.9
	<u> </u>					_	
	6-10 yrs	12 32	3.25	Neutral	4.00	4	.97
	11-20 yrs	25	3.63	Disagree	4.00	4	1.10
	21-30 yrs		2.92	Neutral	3.00	4	1.08
-7. Mrt. dt	>30 yrs	13	3.00	Neutral	3.00	2	1.4
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	11	3.18	Neutral	3.00	4	1.17
·	Program coordinator/admin	44	3.27	Neutral	4.00	4	1.1
	Biologist/scientist	37	3.11	Neutral	3.00	4	1.10
	Researcher	10	3.00	Neutral	2.50	2	1.1:
	Regulations committee member	2	3.00	Neutral	3.00	2	1.4
q8: I spend most time:	Managing WF populations	36	3.19	Neutral	3.50	4	1.1
	Managing habitat	35	3.23	Neutral	4.00	4	1.1
	Equal habitat/populations	10	2.90	Neutral	2.50	2	1.29
	None	23	3.17	Neutral	3.00	4	1.0
q9: How important a recreational activity is	Most important rec-activity	20	2.85	Neutral	2.00	2	1.2
WF hunting to you?	1 of most important rec-activities	34	3.06	Neutral	3.50	4	1.2
	No more important than others	19	3.37	Neutral	4.00	4	.9
	Less important than others	8	3.63	Disagree	4.00	4	.74
	1 of least important rec-activities	1	2.00	Neutral	2.00	2	
	Don't WF hunt	22	3.36	Neutral	3.00	3	1.00

a. Based on round mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table J7: "What is the most appropriate form of a numeric population objective for NAWMP?" (Frequencies)

		Peak pop-sizes	Awerage pop-	numeric pop-obejct Minimum pop-	NAWMP	
Round (R)	2 Characteristic	achieved periodically when habitat is good	sizes over period of years	sizes even when habitat is poor	should not include pop- objectives	Total
Meeting location R2	New Orleans	15%	54%	23%	8%	26
occuring resources the	Denver1	24%	59%	18%	0%	17
	Portland	0%	87%	13%	0%	1:
	Denver2	0%	100%	0%	0%	<u> </u>
	Edmonton	24%	71%	6%	0%	1
	Ottawa	9%	78%	9%	4%	23
	Total	13%	70%	13%	3%	10:
at Lawrended David 1		15%	75%		0%	61
q1: Lattended Round 1 Wkshop?	Yes No	9%	67%	10% 21%	3%	_
						3:
	Don't remember	33%	33%	0%	33%	:
q2: Country?	Canada	15%	76%	7%	2%	4
	U.S.	13%	68%	17%	2%	63
q3: Primary employment?	Federal agency	14%	69%	14%	2%	49
	Non-gov org	14%	75%	11%	0%	21
	Private business	0%	100%	0%	0%	- 2
	State/Provincial	14%	67%	14%	5%	2'
	University	0%	75%	25%	0%	
q4: Geography for which you have habitat	Atlantic FW	23%	69%	8%	0%	1:
you nave nabitat responsibilities?	Mississippi FW	22%	67%	0%	11%	
	Central FW	15%	69%	15%	0%	13
	Pacific FW	0%	94%	6%	0%	17
	National/multiple FWs	11%	69%	17%	3%	3:
	None	17%	56%	22%	6%	18
q5: Geography for which	Atlantic FW	31%	62%	8%	0%	13
you have population responsibilities?	Mssissippi FW	20%	60%	10%	10%	10
	Central FW	9%	64%	27%	0%	1
	Pacific FW	0%	83%	17%	0%	1:
	National/multiple FWs	14%	66%	14%	6%	3:
	None	8%	83%	8%	0%	2.
q6: How long active in	0-1 yr	0%	86%	14%	0%	١.
waterfowl management?	2-5 yrs	0%	50%	44%	6%	16
	6-10 yrs	8%	67%	17%	8%	12
	11-20 yrs	19%	69%	9%	3%	37
	21-30 yrs	24%	72%	4%	0%	25
	>30 yrs	8%	92%	0%	0%	13
q7: Most frequent waterfowl	Agency/Executive director	9%	82%	9%	0%	1
mngt hat?	Program coordinator/admin	13%	78%	9%	0%	45
	Biologist/scientist	16%	57%	19%	8%	37
	Researcher	10%	70%	20%	0%	10
		0%		0%	0%	 '
a0: I anond mo⇒ time:	Regulations committee member	14%	100% 64%	17%	6%	31
q8: I spend most time:	Managing WF populations					-
	Managing habitat	17%	78%	6%	0%	31
	Equal habitat/populations	10%	80%	10%	0%	1
* H	None	9%	65%	22%	4%	2
q9: How important a recreational activity is WF	Most important rec-activity	25%	65%	10%	0%	2
hunting to you?	1 of most important rec-activities	12%	79%	9%	0%	3
	No more important than others	5%	68%	16%	11%	1
	Less important than others	13%	88%	0%	0%	
	1 of least important rec-activities	100%	0%	0%	0%	
	Don't WF hunt	9%	61%	26%	4%	2

Table J8: "NAWMP should include continental-scale, numeric distribution objectives for breeding, migration and wintering areas." (Frequencies)

		q14: NAWi obje	MP should i ctives for l	noude conti breeding, m	inental-scale, igration, & win	numeric distrib tering areas.	oution
Round (R)	2 Characteristic	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	Total
Meeting location R2	New Orleans	12%	23%	23%	27%	15%	26
	Denver1	33%	61%	0%	6%	0%	18
	Portland	7%	73%	20%	0%	0%	15
	Denver2	0%	50%	17%	17%	17%	6
	Edmonton	18%	47%	18%	12%	6%	17
	Ottawa	17%	35%	17%	26%	4%	23
	Total	16%	45%	16%	16%	7%	105
q1: Lattended Round 1	Yes	13%	44%	13%	22%	7%	68
Wkshop?	No	21%	52%	21%	3%	3%	33
	Don't remember	33%	0%	0%	33%	33%	3
q2: Country?	Canada	17%	41%	17%	20%	5%	41
	U.S.	16%	48%	14%	14%	8%	63
q3: Primary employment?	Federal agency	14%	48%	16%	14%	8%	50
	Non-gov org	25%	46%	7%	14%	7%	28
	Private business	50%	50%	0%	0%	0%	2
	State/Provincial	5%	35%	25%	30%	5%	20
	University	25%	50%	25%	0%	0%	4
q4: Geography for which	Atlantic FW	8%	54%	15%	23%	0%	13
you have habitat	Mississippi FW	25%	38%	13%	13%	13%	8
responsibilities?	Central FW	38%	31%	15%	8%	8%	13
	Pacific FW	12%	65%	18%	0%	6%	17
	National/multiple FWs	11%	47%	11%	25%	6%	36
	None None	17%	28%	28%	17%	11%	18
q5: Geography for which	Atlantic FW	15%	46%	23%	15%	0%	13
you have population		33%	22%	11%	33%	0%	9
responsibilities?	Mississippi FW Central FW	36%	36%	9%	9%	9%	11
							12
	Pacific FW	8% 11%	67%	25% 14%	0% 25%	0% 14%	36
	National/multiple FW/s		36%		8%		24
-0.111	None	13%	58%	17%		4%	
q6: How long active in waterfowl management?	0-1 yr	14%	71%	14%	0%	0%	7
·	2-5 yrs	13%	56%	13%	13%	6%	16
	6-10 yrs	23%	54%	8%	15%	0%	13
	11-20 yrs	19%	39%	19%	16%	6%	31
	21-30 yrs	8%	44%	20%	20%	8%	25
	>30 yrs	23%	23%	15%	23%	15%	13
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	45%	18%	18%	18%	0%	11
·····g· ·····s·	Program coordinator/admin	13%	49%	16%	16%	7%	45
	Biologist/scientist	8%	51%	16%	14%	11%	37
	Researcher	20%	40%	20%	20%	0%	10
	Regulations committee member	50%	0%	0%	50%	0%	2
q8: I spend most time:	Managing WF populations	8%	39%	17%	25%	11%	36
	Managing habitat	19%	51%	14%	8%	8%	37
	Equal habitat/populations	22%	56%	11%	11%	0%	9
	None	22%	39%	22%	17%	0%	23
q9: How important a	Most important rec-activity	15%	30%	20%	25%	10%	20
recreational activity is WF hunting to you?	1 of most important rec-activities	21%	38%	12%	18%	12%	34
- /	No more important than others	17%	50%	11%	17%	6%	18
	Less important than others	0%	63%	13%	25%	0%	8
	1 of least important rec-activities	100%	0%	0%	0%	0%	1
	Don't WF hunt	13%	58%	25%	4%	0%	24

Table J9: "NAWMP should include continental-scale, numeric distribution objectives for breeding, migration and wintering areas." (Descriptives)

			jectives for	r breeding, migrati •			
Round (F	R) 2 Characteristic	Valid N	Mean	Word anchor	Median	Mode	SD
Meeting location R2	New Orleans	26	3.12	Neutral	3.00	4	1.28
	Denver1	18	1.78	Agree	2.00	2	.73
	Portland	15	2.13	Agree	2.00	2	.52
	Denver2	6	3.00	Neutral	2.50	2	1.26
	Edmonton	17	2.41	Agree	2.00	2	1.12
	Ottawa	23	2.65	Neutral	2.00	2	1.19
	Total	105	2.52	Neutral	2.00	2	1.14
g1: Lattended Round 1	Yes	68	2.66	Neutral	2.00	2	1.18
Wkshop?	No	33	2.15	Agree	2.00	2	.91
	Don't remember	3	3.33	Neutral	4.00	1	2.08
q2: Country?	Canada	41	2.54	Neutral	2.00	2	1.14
	U.S.	63	2.51	Neutral	2.00	2	1.16
q3: Primary	Federal agency	50	2.54	Neutral	2.00	2	1.15
employment?	Non-gov org	28	2.32	Agree	2.00	2	1.22
	Private business	2	1.50	Agree	1.50	1	.71
	State/Provincial	20	2.95	Neutral	3.00	2	1.05
	University	4	2.00	Agree	2.00	2	.82
q4: Geography for which	Atlantic FW	13	2.54	Neutral	2.00	2	.97
you have habitat	Mississippi FW	8	2.50	Neutral	2.00	2	1.41
responsibilities?	Central FW	13	2.15	Agree	2.00	1	1.28
	Pacific FW	17	2.24	Agree	2.00	2	.90
	National/multiple FW/s	36	2.67	Neutral	2.00	2	1.15
	None	18	2.78	Neutral	3.00	2	1.26
q5: Geography for which	Atlantic FW	13	2.38	Agree	2.00	2	.96
you have population	Mississippi FW	9	2.44	Agree	2.00	1	1.33
responsibilities?	Central FW	11	2.18	Agree	2.00	1	1.33
	Pacific FW	12	2.17	Agree	2.00	2	.58
	National/multiple FWs	36	2.94	Neutral	3.00	2	1.29
	None	24	2.33	Agree	2.00	2	.96
aß: How long potivo in		7	2.00		2.00	2	.58
q6: How long active in waterfowl management?	0-1 yr 2-5 yrs	16	2.44	Agree	2.00	2	1.09
				Agree			
	6-10 yrs	13	2.15	Agree	2.00	2	.99
	11-20 yrs	31	2.52	Neutral	2.00	2	1.18
	21-30 yrs	25	2.76	Neutral	2.00	2	1.13
· · · · · · · · · · · · · · · · ·	>30 yrs	13	2.85	Neutral	3.00	1	1.46
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	11	2.09	Agree	2.00	1	1.22
Ť	Program coordinator/admin	45	2.53	Neutral	2.00	2	1.12
	Biologist/scientist	37	2.68	Neutral	2.00	2	1.16
	Researcher	10	2.40	Agree	2.00	2	1.07
	Regulations committee member	2	2.50	Neutral	2.50	1	2.12
q8: I spend most time:	Managing WF populations	36	2.92	Neutral	3.00	2	1.20
	Managing habitat	37	2.35	Agree	2.00	2	1.14
	Equal habitat/populations	9	2.11	Agree	2.00	2	.93
	None	23	2.35	Agree	2.00	2	1.03
q9: How important a recreational activity is	Most important rec-activity	20	2.85	Neutral	3.00	2	1.27
recreational activity is WF hunting to you?	1 of most important rec-activities	34	2.62	Neutral	2.00	2	1.33
-	No more important than others	18	2.44	Agree	2.00	2	1.15
	Less important than others	8	2.63	Neutral	2.00	2	.92
	1 of least important rec-activities	1	1.00	Agree	1.00	1	
	Don't WF hunt	24	2.21	Agree	2.00	2	.72

a. Based on rounded mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table J10: "What is the most appropriate form of a numeric habitat objective for NAWMP?" (Frequencies)

		q15: V	What is most approp	oriate form of NAWM	P numeric habita	at objective?	
Round (R):	2 Characteristic	Habitat conserved specifically for WF conservation	Habitat conserved by all conservation efforts, whether or not targeted for WF	Status of important landscape features needed to sustain WF pops, incorporating habitat gains & losses	Numeric estimate of WF carrying capacity	NAWMP should not include numeric habitat objectives	Total
Meeting location R2	New Orleans	15%	0%	54%	19%	12%	26
	Denver1	0%	11%	56%	22%	11%	18
	Portland	0%	40%	47%	13%	0%	15
	Denver2	17%	0%	83%	0%	0%	6
	Edmonton	0%	18%	76%	6%	0%	17
	Ottawa	9%	13%	70%	9%	0%	23
	Total	7%	13%	62%	13%	5%	105
q1: Lattended Round 1 Wkshop?	Yes	9%	7%	66%	12%	6%	68
www.snop?	No	0%	24%	58%	18%	0%	33
	Don't remember	0%	33%	33%	0%	33%	3
q2: Country?	Canada	5%	15%	71%	10%	0%	41
	U.S.	6%	13%	57%	16%	8%	63
q3: Primary employment?	Federal agency	6%	8%	58%	22%	6%	50
	Non-gov org	4%	14%	75%	7%	0%	28
	Private business	0%	100%	0%	0%	0%	2
	State/Provincial	10%	5%	75%	0%	10%	20
	University	0%	75%	0%	25%	0%	4
q4: Geography for which you have habitat responsibilities?	Atlantic FW	8%	23%	62%	0%	8%	13
nave nabitat responsibilities :	Mississippi FW	0%	0%	88%	13%	0%	8
	Central FW	0%	8%	77%	8%	8%	13
	Pacific FW	6%	35%	53%	6%	0%	17
	National/multiple FWs	8%	3%	64%	19%	6%	36
	None	11%	17%	44%	22%	6%	18
q5: Geography for which you	Atlantic FW	8%	23%	54%	8%	8%	13
have population responsibilities?	Mississippi FW	11%	0%	67%	22%	0%	9
	Central FW	0%	18%	64%	9%	9%	11
	Pacific FW	0%	42%	50%	8%	0%	12
	National/multiple FWs	14%	3%	58%	17%	8%	36
	None	0%	13%	75%	13%	0%	24
q6: How long active in waterfowl management?	0-1 yr	0%	29%	43%	29%	0%	7
wascriowi management:	2-5 yrs	6%	19%	63%	13%	0%	16
	6-10 yrs	8%	31%	38%	15%	8%	13
	11-20 yrs	6%	0%	68%	16%	10%	31
	21-30 yrs	8%	8%	72%	12%	0%	25
	>30 yrs	8%	23%	62%	0%	8%	13
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	9%	9%	82%	0%	0%	11
gs thes.	Program coordinator/admin	4%	11%	67%	9%	9%	45
	Biologist/scientist	11%	14%	59%	16%	0%	37
	Researcher	0%	20%	30%	40%	10%	10
	Regulations committee member	0%	50%	50%	0%	0%	2
q8: I spend most time:	Managing WF populations	8%	6%	61%	17%	8%	36
	Managing habitat	5%	14%	62%	14%	5%	37
	Equal habitat/populations	0%	33%	56%	11%	0%	9
	None	9%	17%	65%	9%	0%	23
q9: How important a recreational activity is WF	Most important rec-activity	10%	15%	55%	10%	10%	20
hunting to you?	1 of most important rec-activities	3%	9%	65%	21%	3%	34
	No more important than others	11%	11%	78%	0%	0%	18
	Less important than others	13%	13%	63%	13%	0%	8
	1 of least important rec-activities	0%	0%	100%	0%	0%	1
	Don't WF hunt	4%	21%	50%	17%	8%	24

Table J11: "Numeric habitat objectives should be employed on the following scales." (Frequencies)

			q16: What s	cales for numeric	habitat obje	ctives?	
Round (R)	2 Characteristic	Continental	JVor BCR	Scales smaller than JVs or BCRs	All scales	None of scales	Total
Meeting location R2	New Orleans	4%	38%	0%	54%	4%	26
-	Denver1	0%	44%	6%	44%	6%	18
	Portland	0%	40%	7%	47%	7%	15
	Denver2	0%	50%	0%	50%	0%	6
	Edmonton	0%	41%	18%	41%	0%	17
	Ottawa	4%	70%	17%	9%	0%	23
	Total	2%	48%	9%	39%	3%	105
q1: I attended Round 1	Yes	3%	47%	10%	35%	4%	68
Ŵkshop?	No	0%	45%	6%	48%	0%	33
	Don't remember	0%	67%	0%	33%	0%	3
q2: Country?	Canada	2%	54%	17%	27%	0%	41
	U.S.	2%	43%	3%	48%	5%	63
q3: Primary employment?	Federal agency	2%	48%	6%	40%	4%	50
	Non-gov org	0%	46%	11%	39%	4%	28
	Private business	0%	0%	50%	50%	0%	2
	State/Provincial	5%	45%	10%	40%	0%	20
	University	0%	75%	0%	25%	0%	4
q4: Geography for which you	Atlantic FW	0%	54%	23%	23%	0%	13
have habitat résponsibilitiés?	Mississippi FW	0%	63%	0%	38%	0%	8
	Central FW	0%	31%	15%	46%	8%	13
	Pacific FW	0%	35%	0%	65%	0%	17
	National/multiple FW/s	6%	61%	8%	19%	6%	36
	None	0%	33%	6%	61%	0%	18
q5: Geography for which you	Atlantic FW	0%	69%	15%	15%	0%	13
have population	Mississippi FW	0%	56%	11%	33%	0%	9
responsibilities?	Central FW	0%	36%	9%	55%	0%	11
	Pacific FW	0%	25%	0%	75%	0%	12
	National/multiple FWs	6%	47%	11%	31%	6%	36
	None	0%	50%	4%	42%	4%	24
q6: How long active in	0-1 yr	0%	43%	14%	43%	0%	7
waterfowl management?	2-5 yrs	0%	50%	13%	31%	6%	16
	6-10 yrs	0%	31%	0%	62%	8%	13
	11-20 yrs	3%	58%	10%	26%	3%	31
	21-30 yrs	0%	44%	8%	48%	0%	25
	>30 yrs	8%	46%	8%	38%	0%	13
q7: Most frequent waterfowl	Agency/Executive director	0%	64%	0%	36%	0%	11
mngt hat?	Program coordinator/admin	2%	49%	4%	42%	2%	45
	Biologist/scientist	0%	49%	11%	35%	5%	37
	Researcher	10%	20%	20%	50%	0%	10
	Regulations committee member	0%	50%	50%	0%	0%	2
q8: I spend most time:	Managing WF populations	0%	53%	6%	39%	3%	36
go. 7 spena most time.	Managing habitat	0%	43%	8%	46%	3%	37
	Equal habitat/populations	0%	56%	0%	44%	0%	9
	None	9%	43%	17%	26%	4%	23
q9: How important a	Most important rec-activity	0%	45%	10%	45%	0%	20
recreational activity is WF	1 of most important rec-activities	0%	44%	9%	38%	9%	34
hunting to you?	No more important than others	6%	39%	11%	44%	0%	18
	Less important than others	13%	63%	0%	25%	0%	8
	· · · · · · · · · · · · · · · · · · ·	0%	0378	0%	100%	0%	1
	1 of least important rec-activities Don't WF hunt	0%	58%	8%	33%	0%	24
	DOME OUT HAIR	076	3076	מייס	3370	076	24

Table J12: "What is the most appropriate form of a numeric waterfowl hunting objective for NAWMP?" (Frequencies)

			q17: M	st appropriate NAWM	P numeric WF-hunting	g objective	
Roun	d (R) 2 Characteristic	Number WF-hunters 8/or days afield	Size of WF- harvest	Amount of financial/policy support provided by WF-hunters	Level of hunter satisfaction as determined by surveys	NAWMP should not include numeric WF- hunting objectives	Total
Meeting	New Orleans	35%	8%	4%	12%	42%	26
location R2	Denver1	56%	0%	11%	6%	28%	18
	Portland	27%	47%	0%	13%	13%	15
	Denver2	83%	0%	0%	0%	17%	6
	Edmonton	35%	6%	18%	29%	12%	17
	Ottawa	30%	26%	0%	13%	30%	23
	Total	39%	15%	6%	13%	27%	105
q1: I attended	Yes	31%	13%	4%	15%	37%	68
Round 1 Wkshop?	No	55%	21%	6%	12%	6%	33
ookshop.	Don't remember	67%	0%	33%	0%	0%	3
q2: Country?	Canada	32%	15%	7%	20%	27%	41
4	U.S.	44%	16%	5%	10%	25%	63
q3: Primary	Federal agency	40%	14%	0%	10%	36%	50
employment?	Non-gov org	32%	18%	18%	14%	18%	28
	Private business	0%	0%	0%	50%	50%	2
	State/Provincial	60%	0%	5%	20%	15%	20
	University	0%	100%	0%	0%	0%	4
q4: Geography	Atlantic FW	31%	23%	0%	31%	15%	13
for which you		75%	0%	0%	0%	25%	8
have habitat responsibilities?	Mississippi FW Central FW	75% 46%	8%	15%	15%	25% 15%	13
responsibilities :							
	Pacific FW	29%	18%	12%	6%	35%	17
	National/multiple FW/s	44%		11% 6% 14% 25%	36		
	None	22%	28%	0%	11%	39%	18
q5: Geography for which you	Atlantic FW	23%	15%	0%	31%	31%	13
have population	Mississippi FW	56%	0%	0%	0%	44%	9
responsibilities?	Central FW	36%	9%	18%	18%	18%	11
	Pacific FW	33%	25%	17%	0%	25%	12
	National/multiple FW/s	44%	8%	3%	11%	33%	36
	None	38%	29%	4%	17%	13%	24
q6: How long active in	0-1 yr	43%	43%	0%	14%	0%	7
waterfowl	2-5 yrs	38%	25%	6%	6%	25%	16
management?	6-10 yrs	31%	8%	8%	23%	31%	13
	11-20 yrs	52%	6%	3%	13%	26%	31
	21-30 yrs	32%	16%	8%	16%	28%	25
	>30 yrs	31%	15%	8%	8%	38%	13
g7: Most	Agency/Executive director	27%	18%	0%	36%	18%	11
frequent waterfowl mngt	Program coordinator/admin	49%	9%	7%	7%	29%	45
hat?	Biologist/scientist	38%	8%	5%	19%	30%	37
	Researcher	10%	70%	0%	0%	20%	10
	Regulations committee member	50%	0%	50%	0%	0%	2
q8: I spend	Managing WF populations	33%	8%	6%	11%	42%	36
most time:	Managing habitat	41%	14%	8%	19%	19%	37
	Equal habitat/populations	56%	22%	0%	11%	11%	9
	None	39%	26%	4%	9%	22%	23
q9: How	Most important rec-activity	50%	10%	10%	10%	20%	20
important a	1 of most important rec-activities	35%	24%	3%	9%	29%	34
recreational	No more important than others	56%	6%	0%	22%	17%	18
		3070	0.70	070	2270	11.70	1 10
activity is WF hunting to you?		498/	4984	498/	2507	2004	
activity is WF	Less important than others 1 of least important rec-activities	13% 0%	13% 0%	13% 0%	25% 100%	38% 0%	8

Table J13: "NAWMP should set an objective of:" (Frequencies)

		q1	8: NAWMP should s	set objective of:	
Round (R):	2 Characteristic	Increase WF- hunters &/or hunting	Maintain current hunters &/or hunting	Neither: let hunters &/or hunting fluctuate	Total
Meeting location R2	New Orleans	19%	15%	65%	26
	Denver1	33%	11%	56%	18
	Portland	40%	27%	33%	15
	Denver2	83%	17%	0%	6
	Edmonton	53%	35%	12%	17
	Ottawa	32%	18%	50%	22
	Total	37%	20%	43%	104
q1: Lattended Round 1	Yes	37%	19%	43%	67
Wkshop?	No	33%	24%	42%	33
	Don't remember	67%	0%	33%	3
q2: Country?	Canada	38%	28%	35%	40
qz. country:	U.S.	37%	16%	48%	63
q3: Primary employment?	Federal agency	30%	14%	56%	50
qu. Filmary employment:	- '	57%	25%	18%	28
	Non-gov org Private business	100%	23%	1896	1
	State/Provincial	25%	35%	40%	20
-d. Cooperator dos missis com	University	25%	0%	75%	4
q4: Geography for which you have habitat responsibilities?	Atlantic FW	17% 25%	17%	67%	12
•	Mississippi FW		25%	50%	8
	Central FW	54%	23%	23%	13
	Pacific FW	18%	24%	59%	17
	National/multiple FWs	53%	22%	25%	36
	None	28%	11%	61%	18
q5: Geography for which you have population	Atlantic FW	8%	8%	83%	12
responsibilities?	Mississippi FW	22%	22%	56%	9
	Central FW	45%	27%	27%	11
	Pacific FW	25%	25%	50%	12
	National/multiple FWs	36%	25%	39%	36
	None	58%	13%	29%	24
q8: How long active in waterfowl management?	0-1 yr	29%	14%	57%	7
waterrow management:	2-5 yrs	25%	25%	50%	16
	6-10 yrs	23%	8%	69%	13
	11-20 yrs	39%	29%	32%	31
	21-30 yrs	48%	12%	40%	25
	>30 yrs	42%	25%	33%	12
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	55%	18%	27%	11
milgt nat:	Program coordinator/admin	38%	20%	42%	45
	Biologist/scientist	25%	22%	53%	36
	Researcher	40%	20%	40%	10
	Regulations committee member	100%	0%	0%	2
q8: I spend most time:	Managing WF populations	22%	22%	56%	36
	Managing habitat	50%	19%	31%	36
	Equal habitat/populations	33%	33%	33%	9
	None	39%	13%	48%	23
q9: How important a	Most important rec-activity	65%	20%	15%	20
recreational activity is WF hunting to you?	1 of most important rec-activities	44%	21%	35%	34
• .	No more important than others	24%	24%	53%	17
	Less important than others	25%	25%	50%	8
	1 of least important rec-activities	100%	0%	0%	1
	Don't WF hunt	13%	17%	71%	24

Table J14: "What is the most appropriate form of a numeric waterfowl viewing and enjoyment objective for NAWMP?" (Frequencies)

		q19: Most a	appropriate for	m of NAWMP nume	ric WF viewing &	enjoyment objective?	
Rour	nd (R) 2 Characteristic	Participation in WF viewing/enjoying activities	Financial support from WF viewers	Activism in policy arena by those who view/enjoy (don't hunt) WF	General public's attitude toward WF conservation	NAWMP should not include numeric WF- viewing/enjoyment objectives	Total
Meeting location	New Orleans	23%	0%	4%	4%	69%	26
R2	Denver1	39%	6%	6%	33%	17%	18
	Portland	33%	27%	7%	27%	7%	15
	Denver2	50%	0%	17%	33%	0%	- 6
	Edmonton	35%	12%	12%	18%	24%	17
	Ottawa	35%	13%	0%	26%	26%	23
	Total	33%	10%	6%	21%	30%	105
q1: Lattended	Yes	29%	4%	6%	19%	41%	68
Round 1 Wkshop?	No	45%	18%	3%	21%	12%	33
vviiziiop .	Don't remember	0%	33%	33%	33%	0%	3
q2: Country?	Canada	32%	12%	5%	22%	29%	41
	U.S.	35%	8%	6%	19%	32%	63
q3: Primary	Federal agency	38%	4%	4%	16%	38%	50
employment?	Non-gov org	29%	14%	11%	29%	18%	28
	Private business	0%	50%	50%	0%	0%	2
	State/Provincial	35%	5%	0%	20%	40%	20
	University	25%	50%	0%	25%	0%	4
a4: Geography	Atlantic FW	31%	8%	0%	15%	46%	13
q4: Geography for which you have habitat	Mississippi FW	63%	13%	0%	13%	13%	8
responsibilities?	Central FW	38%	15%	8%	15%	23%	13
·	Pacific FW	35%	6%	6%	35%	18%	17
	National/multiple FW/s	31%	6%	8%	22%	33%	36
	None	22%	17%	6%	17%	39%	18
q5: Geography	Atlantic FW	31%	8%	0%	15%	46%	13
for which you	Mississippi FW	44%	22%	0%	11%	22%	9
have population responsibilities?	Central FW	27%	27%	0%	18%	27%	11
	Pacific FW	33%	0%	8%	33%	25%	12
	National/multiple FW/s	22%	3%	8% 8%	19%	47%	36
-0. 11 1	None	50%	13%		25%	4%	24
q6: How long active in	0-1 yr	71%	14%	0%	14%	0%	7
waterfowl management?	2-5 yrs	38%	19%	6%	6%	31%	16
management:	6-10 yrs	31%	8%	0%	31%	31%	13
	11-20 yrs	32%	6%	6%	16%	39%	31
	21-30 yrs	32%	0%	4%	36%	28%	25
	>30 yrs	15%	23%	15%	15%	31%	13
g7: Most frequent	Agency/Executive director	45%	18%	0%	18%	18%	11
waterfowl mngt	Program coordinator/admin	31%	4%	9%	22%	33%	45
hat?	Biologist/scientist	32%	8%	5%	19%	35%	37
	Researcher	30%	20%	0%	30%	20%	10
	Regulations committee member	50%	50%	0%	0%	0%	2
q8: I spend most time:	Managing WF populations	22%	8%	3%	8%	58%	36
most time.	Managing habitat	41%	8%	8%	32%	11%	37
	Equal habitat/populations	67%	0%	11%	0%	22%	9
	None	26%	17%	4%	30%	22%	23
q9: How important a	Most important rec-activity	40%	10%	10%	25%	15%	20
recreational	1 of most important rec-activities	26%	12%	6%	26%	29%	34
activity is WF hunting to you?	No more important than others	28%	17%	6%	11%	39%	18
s.mag to you:	Less important than others	25%	0%	13%	25%	38%	8
	1 of least important rec-activities	100%	0%	0%	0%	0%	1
	Don't WF hunt	42%	4%	0%	17%	38%	24

Table J15: Of the four fundamental objectives, it is most important that we have clear numeric objectives for (4 votes total)...Votes for "1": Populations (each respondent could cast total of 4 votes; that is, 0 for "1", 1 vote for "1", 2 votes for "1", 3 votes for "1", or 4 votes for "1"). (Frequencies)

			Numb	er of vote:	s for "1" i	opulation:	5
Round (F	R) 2 Characteristic	0	1	2	3	4	Total Voters
Meeting location R2	New Orleans	3	4	10	5	4	26
	Denver1	3	3	5	4	3	18
	Portland	1	10	4	0	0	15
	Denver2	0	1	3	0	0	4
	Edmonton	3	5	9	0	0	17
	Ottawa	1	9	9	2	2	23
	Total	11	32	40	11	9	103
g1: Lattended Round 1	Yes	7	18	28	7	7	67
Ŵkshop?	No	4	13	9	4	2	32
	Don't remember	0	1	2	0	0	3
q2: Country?	Canada	4	13	20	2	2	41
	U.S.	7	19	19	9	7	61
q3: Primary	Federal agency	5	10	21	8	5	49
employment?	Non-gov org	3	11	11	1	2	28
	Private business	1	1	0	0	0	2
	State/Provincial	1	8	6	2	2	19
	University	1	2	1	0	0	4
q4: Geography for which	Atlantic FW	1	5	4	1	2	13
you have habitat responsibilities?	Mississippi FW	0	5	2	1	0	8
	Central FW	3	1	4	1	3	12
	Pacific FW	2	8	5	2	0	17
	National/multiple FWs	1	7	21	3	3	35
	None	4	6	4	3	1	18
q5: Geography for which you have population responsibilities?	Atlantic FW	2	3	3	3	2	13
	Mississippi FW	0	5	2	2	0	9
	Central FW	2	2	3	1	3	11
	Pacific FW	1	7	3	1	0	12
	National/multiple FWs	4	7	18	3	3	35
	None	2	8	11	1	1	23
q6: How long active in	0-1 yr	1	3	2	1	0	7
waterfowl management?	2-5 yrs	2	6	6	1	1	16
	6-10 yrs	1	5	5	0	2	13
	11-20 yrs	3	7	11	5	4	30
	21-30 yrs	3	7	9	4	1	24
	>30 yrs	1	4	7	0	1	13
q7: Most frequent	Agency/Executive director	1	3	7	0	0	11
waterfowl mngt hat?	Program coordinator/admin	6	11	14	7	5	43
	Biologist/scientist	4	10	15	4	4	37
	Researcher	0	6	4	0	0	10
	Regulations committee member	0	2	0	0	0	2
q8: I spend most time:	Managing WF populations	3	9	11	8	5	36
	Managing habitat	3	13	16	2	2	36
	Equal habitat/populations	0	5	3	0	0	8
	None	5	5	10	1	2	23
q9: How important a	Most important rec-activity	0	9	10	0	1	20
q9: How important a recreational activity is WF hunting to you?	1 of most important rec-activities	4	9	13	3	4	33
	No more important than others	3	7	4	3	0	17
	Less important than others	1	1	4	2	0	8
	1 of least important rec-activities	0	0	1	0	0	1
	Don't WF hunt	3	6	8	3	4	24

Table J16: Of the four fundamental objectives, it is most important that we have clear numeric objectives for (4 votes total)...Votes for "2": Landscape conditions (each respondent could cast total of 4 votes; that is, 0 for "2", 1 vote for "2", 2 votes for "2", 3 votes for "2", or 4 votes for "2"). (Frequencies)

		N	lumber of	votes for	"2" Lands	cape cond	ditions
Round (R) 2 Characteristic	0	1	2	3	4	Total Voters
Meeting location R2	New Orleans	23%	35%	27%	8%	8%	26
	Denver1	28%	22%	44%	6%	0%	18
	Portland	0%	33%	40%	27%	0%	15
	Denver2	0%	75%	25%	0%	0%	4
	Edmonton	6%	12%	59%	18%	6%	17
	Ottawa	9%	35%	48%	9%	0%	23
	Total	14%	30%	42%	12%	3%	103
g1: Lattended Round 1	Yes	12%	30%	43%	12%	3%	67
Wkshop?	No	9%	34%	41%	13%	3%	32
	Don't remember	67%	0%	33%	0%	0%	3
q2: Country?	Canada	7%	24%	54%	12%	2%	41
	U.S.	16%	34%	34%	11%	3%	61
q3: Primary	Federal agency	14%	37%	37%	8%	4%	49
employment?	Non-gov org	11%	32%	46%	11%	0%	28
	Private business	0%	50%	0%	50%	0%	2
	State/Provincial	16%	16%	53%	11%	5%	19
	University	0%	0%	50%	50%	0%	4
q4: Geography for	Atlantic FW	15%	31%	38%	15%	0%	13
which you have habitat responsibilities?	Mississippi FW	0%	25%	50%	25%	0%	8
responsibilities :	Central FW	33%	8%	58%	0%	0%	12
	Pacific FW	0%	35%	41%	18%	6%	17
5: Geography for	National/multiple FW/s	20%	29%	43%	6%	3%	35
	None	6%	44%	28%	17%	6%	18
a5: Geography for	Atlantic FW	15%	38%	23%	15%	8%	13
which you have population	Mississippi FW	0%	44%	44%	11%	0%	9
responsibilities?	Central FW	36%	18%	36%	9%	0%	11
	Pacific FW	0%	33%	58%	8%	0%	12
	National/multiple FW/s	20%	20%	46%	11%	3%	35
	None	4%	39%	39%	13%	4%	23
g6: How long active in	0-1 yr	0%	57%	29%	14%	0%	7
waterfowl	2-5 yrs	13%	19%	44%	13%	13%	16
management?	6-10 yrs	23%	23%	46%	8%	0%	13
	11-20 yrs	17%	30%	37%	17%	0%	30
	21-30 yrs	8%	38%	46%	4%	4%	24
	>30 yrs	15%	23%	46%	15%	0%	13
q7: Most frequent	Agency/Executive director	0%	36%	55%	9%	0%	11
waterfowl mngt hat?	Program coordinator/admin	16%	33%	42%	5%	5%	43
	Biologist/scientist	16%	27%	32%	22%	3%	37
	Researcher	0%	30%	60%	10%	0%	10
	Regulations committee member	50%	0%	50%	0%	0%	2
g8: I spend most time:	Managing WF populations	22%	28%	36%	8%	6%	36
42. I share most mile.	Managing habitat	8%	33%	39%	17%	3%	36
	Equal habitat/populations	0%	38%	50%	13%	0%	8
	None None	13%	26%	52%	9%	0%	23
a9: How important a	Most important rec-activity	10%	45%	35%	10%	0%	20
q9: How important a regreational activity is	1 of most important rec-activity	18%	21%	45%	15%	0%	33
WF hunting to you?	No more important than others	6%	29%	35%	24%	6%	17
	· ·						
	Less important than others	0%	38%	50%	0%	13%	8
	1 of least important rec-activities	0%	0%	100%	0%	0%	1
	Don't WF hunt	21%	29%	42%	4%	4%	24

Table J17: Of the four fundamental objectives, it is most important that we have clear numeric objectives for (4 votes total)...Votes for "3": Hunting (each respondent could cast total of 4 votes; that is, 0 for "3", 1 vote for "3", 2 votes for "3", 3 votes for "3", or 4 votes for "3"). (Frequencies)

			Number	of votes f	or "3" Hur	nting
Round (R)	2 Characteristic	0	1	2	3	Total Voters
Meeting location R2	New Orleans	69%	27%	4%	0%	26
	Denver1	67%	22%	11%	0%	18
	Portland	40%	47%	13%	0%	15
	Denver2	25%	75%	0%	0%	4
	Edmonton	71%	24%	0%	6%	17
	Ottawa	57%	43%	0%	0%	23
	Total	60%	34%	5%	1%	103
q1: Lattended Round 1	Yes	66%	33%	1%	0%	67
Wkshop?	No	53%	41%	6%	0%	32
	Don't remember	33%	0%	33%	33%	3
q2: Country?	Canada	66%	32%	0%	2%	41
	U.S.	57%	36%	7%	0%	61
q3: Primary employment?	Federal agency	67%	29%	4%	0%	49
	Non-gov org	50%	39%	7%	4%	28
	Private business	0%	100%	0%	0%	2
	State/Provincial	68%	32%	0%	0%	19
	University	50%	50%	0%	0%	4
q4: Geography for which you	Atlantic FW	69%	31%	0%	0%	13
have habitat responsibilities?	Mississippi FW	63%	38%	0%	0%	8
	Central FW	67%	17%	8%	8%	12
	Pacific FW	59%	41%	0%	0%	17
	National/multiple FWs	60%	31%	9%	0%	35
	None	50%	44%	6%	0%	18
g5: Geography for which you	Atlantic FW	77%	23%	0%	0%	13
nave population responsibilities?	Mississippi FW	56%	44%	0%	0%	9
responsibilities :	Central FW	64%	18%	9%	9%	11
sponsionities ?	Pacific FW	42%	58%	0%	0%	12
	National/multiple FW/s	60%	34%	6%	0%	35
	None	61%	30%	9%	0%	23
q6: How long active in	0-1 yr	43%	57%	0%	0%	7
waterfowl management?	2-5 yrs	69%	19%	13%	0%	16
	6-10 vrs	54%	38%	8%	0%	13
	11-20 yrs	67%	30%	3%	0%	30
	21-30 yrs	54%	42%	4%	0%	24
	>30 yrs	62%	31%	0%	8%	13
q7: Most frequent waterfowl	Agency/Executive director	55%	45%	0%	0%	11
mngt hat?	Program coordinator/admin	60%	35%	5%	0%	43
	Biologist/scientist	68%	27%	5%	0%	37
	Researcher	50%	40%	10%	0%	10
	Regulations committee member	0%	50%	0%	50%	2
q8: I spend most time:	Managing WF populations	69%	28%	0%	3%	36
40. / Spend most time.	Managing habitat	64%	31%	6%	0%	36
	Equal habitat/populations	38%	63%	0%	0%	8
	None Square rabitat/populations	48%	39%	13%	0%	23
a9: How important a	Most important rec-activity	35%	60%	5%	0%	20
q9: How important a recreational activity is WF	1 of most important rec-activity	64%	24%	9%	3%	33
hunting to you?	No more important than others	53%	47%	0%	0%	17
	<u> </u>					
	Less important than others	88% 100%	13% 0%	0%	0% 0%	8
	1 of least important rec-activities			0%		1
	Don't WF hunt	71%	25%	4%	0%	24

Table J18: Of the four fundamental objectives, it is most important that we have clear numeric objectives for (4 votes total)...Votes for "4": Viewing (each respondent could cast total of 4 votes; that is, 0 for "4", 1 vote for "4", 2 votes for "4", 3 votes for "4", or 4 votes for "4"). (Frequencies)

		Number	of votes for	'4" Mewing
Round (R) 2	Characteristic	0	1	Total Voters
Meeting location R2	New Orleans	88%	12%	26
	Denver1	83%	17%	18
	Portland	87%	13%	15
	Denver2	75%	25%	4
	Edmonton	88%	12%	17
	Ottawa	87%	13%	23
	Total	86%	14%	103
q1: Lattended Round 1 Wkshop?	Yes	85%	15%	67
	No	88%	13%	32
	Don't remember	100%	0%	3
q2: Country?	Canada	88%	12%	41
	U.S.	85%	15%	61
q3: Primary employment?	Federal agency	84%	16%	49
4	Non-gov org	86%	14%	28
	Private business	50%	50%	2
	State/Provincial	95%	5%	19
	University	100%	0%	
q4: Geography for which you	Atlantic FW	85%	15%	13
have habitat responsibilities?	Mississippi FW	88%	13%	1 8
	Central FW	83%	17%	12
	Pacific FW	82%		17
			18%	
	National/multiple FW/s	94% 78%	6%	35
	None		22%	
5: Geography for which you lave population responsibilities?	Atlantic FW	85%	15%	13
	Mississippi FW	78%	22%	
	Central FW	91%	9%	11
	Pacific FW	75%	25%	12
	National/multiple FW/s	91%	9%	35
	None	87%	13%	23
q6: How long active in waterfowl management?	0-1 yr	57%	43%	
	2-5 yrs	94%	6%	16
	6-10 yrs	92%	8%	13
	11-20 yrs	90%	10%	30
	21-30 yrs	83%	17%	24
	>30 yrs	85%	15%	13
q7: Most frequent waterfowl mngt	Agency/Executive director	91%	9%	1
hat?	Program coordinator/admin	81%	19%	43
	Biologist/scientist	92%	8%	37
	Researcher	80%	20%	10
	Regulations committee member	100%	0%	2
q8: I spend most time:	Managing WF populations	92%	8%	36
	Managing habitat	89%	11%	36
	Equal habitat/populations	75%	25%	8
	None	78%	22%	23
q9: How important a recreational activity is WF hunting to you?	Most important rec-activity	80%	20%	21
activity is WF hunting to you?	1 of most important rec-activities	91%	9%	33
	No more important than others	94%	6%	17
	Less important than others	100%	0%	
	1 of least important rec-activities	100%	0%	,
	Don't WF hunt	75%	25%	24

Table J19: "Which of these most closely reflects your philosophy about objectives?" (Frequencies)

		q21: Which m	ost closely relects your objectives?	philosophy :	about
Round (R) 2	Characteristic	Should be realistic & achievable	Should be "stretch" -challenge to achieve	Neither	Total
Meeting location R2	New Orleans	58%	31%	12%	26
-	Denver1	44%	50%	6%	18
	Portland	47%	53%	0%	15
	Denver2	33%	67%	0%	6
	Edmonton	53%	47%	0%	17
	Ottawa	78%	22%	0%	23
	Total	56%	40%	4%	105
q1: Lattended Round 1 Wkshop?	Yes	56%	43%	1%	68
,	No	55%	36%	9%	33
	Don't remember	67%	33%	0%	3
q2: Country?	Canada	71%	29%	0%	41
42. 333,	U.S.	46%	48%	6%	63
q3: Primary employment?	Federal agency	60%	34%	6%	50
4	Non-gov org	50%	46%	4%	28
	Private business	50%	50%	0%	2
	State/Provincial	55%	45%	0%	20
	University	50%	50%	0%	4
q4: Geography for which you	Atlantic FW	85%	15%	0%	13
have habitat responsibilities?	Mississippi FW	38%	63%	0%	8
	Central FW	46%	46%	8%	13
	Pacific FW	59%	35%	6%	17
	National/multiple FWs	53%	44%	3%	36
	None National/Inditiple Floos	56%	39%	6%	18
af: Coography for which you			15%	0%	13
q5: Geography for which you have population responsibilities?	ncibilities?	56%	0%	9	
	Mississippi FVV Central FVV	36%	55%	9%	11
	Pacific FW				
		67%	25%	8%	12
	National/multiple FW/s	58%	39%	3%	36
	None	46%	50%	4%	24
q6: How long active in waterfowl management?	0-1 yr	29%	57%	14%	7
•	2-5 yrs	69%	31%	0%	16
	6-10 yrs	69%	23%	8%	13
	11-20 yrs	52%	45%	3%	31
	21-30 yrs	60%	40%	0%	25
7.14	>30 yrs	46%	46%	8%	13
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	36%	64%	0%	11
	Program coordinator/admin	58%	40%	2%	45
	Biologist/scientist	57%	35%	8%	37
	Researcher	70%	30%	0%	10
	Regulations committee member	50%	50%	0%	2
q8: I spend most time:	Managing WF populations	67%	28%	6%	36
	Managing habitat	51%	46%	3%	37
	Equal habitat/populations	56%	44%	0%	9
	None	48%	48%	4%	23
q9: How important a recreational activity is WF hunting to you?	Most important rec-activity	55%	45%	0%	20
activity is our nullting to you?	1 of most important rec-activities	44%	53%	3%	34
	No more important than others	67%	33%	0%	18
	Less important than others	50%	50%	0%	8
	1 of least important rec-activities	100%	0%	0%	1
	Don't WF hunt	67%	21%	13%	24

Appendix K. Evaluation results cross-tabulated frequencies and descriptive statistics

Table K1: Workshop goal 1 "To summarize Round 1 workshop results and provide an update on the Plan Revision process" was met.

				marize Rd 1 w cess) was mei	
Round (R) 2	Characteristic	Strongly agree	Agree	Neutral	Total
Meeting location R2	New Orleans	4%	73%	23%	26
	Denver1	22%	72%	6%	18
	Portland	20%	73%	7%	15
	Denver2	38%	63%	0%	
	Edmonton	53%	47%	0%	17
	Ottawa	42%	58%	0%	24
	Total	28%	65%	7%	108
q1: Lattended Round 1 Wkshop?	Yes	31%	61%	7%	70
4	No	18%	76%	6%	34
	Don't remember	67%	33%	0%	3
q2: Country?	Canada	43%	55%	2%	42
qz. oodnay.	U.S.	18%	72%	9%	65
q3: Primary employment?	Federal agency	27%	65%	8%	52
qo. i iiiilai y employment:		39%	54%	7%	28
	Non-gov org Private business	0%	100%	0%	
	State/Provincial	19%	76%	5%	2.
		25%	75%	0%	-
g4: Geography for which you	University Atlantic FW	31%	69%	0%	1:
have habitat responsibilities?	Mississippi FW	25%	75%	0%	1.
	Central FW	7%	79%	14%	14
	Pacific FW	28%	67%	6%	1:
		43%	54%	3%	37
.F. Coorman, does which coor	National/multiple FWs None	11%	67%	22%	10
	Atlantic FW	38%	62%	0%	1:
do: Geography for which you have population responsibilities?					
: Geography for which you ve population responsibilities?	Mississippi FW	22% 8%	56% 75%	22%	
	Central FW			17%	1:
	Pacific FW	8%	85%	8%	13
	National/multiple FW/s	27%	68%	5%	37
	None	46%	50%	4%	24
q6: How long active in waterfowl management?	0-1 yr	29%	57%	14%	
•	2-5 yrs	38%	56%	6%	10
	6-10 yrs	8%	85%	8%	13
	11-20 yrs	29%	68%	3%	3.
	21-30 yrs	27%	69%	4%	20
	>30 yrs	33%	47%	20%	1:
q7: Most frequent waterfowl mngt = hat?	Agency/Executive director	8%	92%	0%	1:
	Program coordinator/admin	43%	54%	2%	4
	Biologist/scientist	16%	68%	16%	3.
	Researcher	20%	70%	10%	11
	Regulations committee member	50%	50%	0%	
q8: I spend most time:	Managing WF populations	16%	70%	14%	37
	Managing habitat	41%	59%	0%	3:
	Equal habitat/populations	33%	67%	0%	:
	None	22%	65%	13%	23
19: How important a recreational activity is WF hunting to you?	Most important rec-activity	25%	70%	5%	20
aouvily is our numbing to you?	1 of most important rec-activities	23%	74%	3%	3:
	No more important than others	28%	67%	6%	18
	Less important than others	44%	44%	11%	
	1 of least important rec-activities	0%	100%	0%	2
	Don't WF hunt	33%	50%	17%	2.

TableK2: Workshop goal 1 "To summarize Round 1 workshop results and provide an update on the Plan Revision process" was met. (Descriptives)

		q22: V	Wkshp goal	1 (summarize Rd 1 of process) was mo		date revisi	on
Round (R) 2 Characteristic	Valid N	Mean	Word anchor	Median	Mode	SD
Meeting location R2	New Orleans	26	2.19	Agree	2.00	2	.49
	Denver1	18	1.83	Agree	2.00	2	.51
	Portland	15	1.87	Agree	2.00	2	.52
	Denver2	8	1.63	Agree	2.00	2	.52
	Edmonton	17	1.47	Strongly agree	1.00	1	.51
	Ottawa	24	1.58	Agree	2.00	2	.50
	Total	108	1.80	Agree	2.00	2	.56
q1: Lattended Round 1 Wkshop?	Yes	70	1.76	Agree	2.00	2	.58
Ŵkshop?	No	34	1.88	Agree	2.00	2	.48
	Don't remember	3	1.33	Strongly agree	1.00	1	.58
q2: Country?	Canada	42	1.60	Agree	2.00	2	.54
,,,-	U.S.	65	1.91	Agree	2.00	2	.52
q3: Primary employment?	Federal agency	52	1.81	Agree	2.00	2	.56
. , , ,	Non-gov org	28	1.68	Agree	2.00	2	.61
	Private business	2	2.00	Agree	2.00	2	.00
	State/Provincial	21	1.86	Agree	2.00	2	.48
	University	4	1.75	Agree	2.00	2	.50
q4: Geography for which	Atlantic FW	13	1.69	Agree	2.00	2	.48
you have habitat	Mississippi FW	8	1.75	Agree	2.00	2	.46
responsibilities?	Central FW	14	2.07	Agree	2.00	2	.47
	Pacific FW	18	1.78	Agree	2.00	2	.55
	National/multiple FWs	37	1.59	Agree	2.00	2	.55
	None	18	2.11	Agree	2.00	2	.58
g5: Geography for which	Atlantic FW	13	1.62	Agree	2.00	2	.51
you have population	Mississippi FW	9	2.00	Agree	2.00	2	.71
responsibilities?	Central FW	12	2.08	Agree	2.00	2	.51
	Pacific FW	13	2.00	<u> </u>	2.00	2	.41
sponsibilities?	National/multiple FW/s	37	1.78	Agree Agree	2.00	2	.53
	None None	24	1.58	Agree	2.00	2	.58
q6: How long active in	0-1 yr	7	1.86	<u> </u>	2.00	2	.69
waterfowl management?	2-5 yrs	16	1.69	Agree Agree	2.00	2	.60
	· ·	13	2.00	<u> </u>	2.00	2	.41
	6-10 yrs	31	1.74	Agree	2.00	2	.51
	11-20 yrs 21-30 yrs	26	1.74	Agree	2.00	2	.51
				Agree			.74
q7: Most frequent	>30 yrs Agency/Executive director	15 13	1.87	Agree	2.00	2	.28
gr: Most frequent waterfowl mngt hat?				Agree	_		-
	Program coordinator/admin	46	1.59	Agree	2.00	2	.54
	Biologist/scientist	37	2.00	Agree	2.00	2	.58
	Researcher	10	1.90	Agree	2.00	2	.57
-0.1	Regulations committee member	2	1.50	Agree	1.50	1	.71
q8: I spend most time:	Managing WF populations	37	1.97	Agree	2.00	2	.55
	Managing habitat	39	1.59	Agree	2.00	2	.50
	Equal habitat/populations	9	1.67	Agree	2.00	2	.50
A 11 1 1 1 1	None	23	1.91	Agree	2.00	2	.60
q9: How important a recreational activity is	Most important rec-activity	20	1.80	Agree	2.00	2	.52
WF hunting to you?	1 of most important rec-activities	35	1.80	Agree	2.00	2	.47
	No more important than others	18	1.78	Agree	2.00	2	.55
	Less important than others	9	1.67	Agree	2.00	1	.71
	1 of least important rec-activities	2	2.00	Agree	2.00	2	.00
	Don't WF hunt	24	1.83	Agree	2.00	2	.70

a. Based on rounded mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table K3: Workshop goal 2 "To clarify the fundamental objectives and associated measurable attributes" was met. (Frequencies)

Neurolation			q23: W			ımental object tives) was me	ives & associ: at?	ated
Deriver	Round (R) 2	Characteristic		Agree	Neutral	Disagree		Total
Portland	Meeting location R2	New Orleans	0%	8%	35%	46%	12%	26
Denorer		Denver1	11%	50%	28%	11%	0%	18
Ethicution		Portland	7%	60%	27%	7%	0%	15
Ottawa		Denver2	25%	75%	0%	0%	0%	8
Total S94		Edmonton	18%	59%	18%	6%	0%	17
1 Tattended Round Wishpop Yes 996 4096 2986 1996 1996 096 34 1996 1		Ottawa	4%	63%	29%	4%	0%	24
No		Total	8%	47%	26%	16%	3%	108
2 2 2 2 2 2 2 2 2 2	q1: Lattended Round 1 Wkshop?	Yes	9%	40%	29%	19%	4%	70
q2: Country? Canada 10% 57% 26% 7% 0% 42 q3: Primary employment? Federal agency 8% 40% 25% 22% 5% 55 65		No	6%	65%	18%	12%	0%	34
Q3 Primary employment? Federal agency 8% 42% 25% 22% 5% 5% 5% 5% 5%		Don't remember	33%	33%	33%	0%	0%	3
q3: Primary employment? Federal agency norg 896 h 4096 h 3196 h 296 h 136 h 137 h 136 h	q2: Country?	Canada	10%	57%	26%	7%	0%	42
q3: Primary employment? Federal agency 896 4096 31% 19% 2% 52 Non-gow org 11% 64% 10% 7% 096 28 Private business 09% 100% 09% 22% 24% 10% 22 g4: Geography for which you have habitat responsibilities? Atlantic FW 89% 40% 30% 15% 0% 10% 15% 0% 10% 22% 24% 10% 13% 15% 0% 13% 15% 0% 13% 15% 0% 13%		U.S.	8%	42%	25%	22%	5%	65
Non-gov org	g3: Primary employment?							
Private business 0.9% 100% 0.9% 0.	,		11%	6496	1896	7%	0%	28
State/Provincial 10% 23% 23% 24% 10% 24								
Maintain FW 0% 100% 0% 0% 0% 0% 0%								
q4: Geography for which you have habitat responsibilities? Attantic FW 89% 46% 31% 15% 0% 13 Massissippi FW 13% 25% 25% 30% 13% 13% 3 Central FW 23% 21% 29% 21% 0% 18 Pacific FW 0% 67% 52% 11% 0% 18 Actional/multiple FWS 5% 59% 59% 24% 39% 3% 37 None 6% 33% 24% 39% 39% 6% 18 4Call Cography for which you have population responsibilities? Alarnic FW 3% 33% 24% 39% 6% 18 Amaze population responsibilities? Alarnic FW 25% 33% 22% 11% 3 Central FW 25% 33% 25% 17% 0% 12 Pacific FW 25% 33% 25% 17% 0% 3 Age: How long active in waterfowl management?								
Massissipi FW 13% 25% 38% 13% 13% 8 Central FW 23% 21% 23% 21% 0% 14 Pacific FW 0% 67% 22% 11% 0% 13 Mational/multiple FWs 5% 53% 52% 33% 6% 33 Actional/multiple FWs 5% 33% 22% 33% 6% 18 Actional/multiple FWs 3% 33% 22% 33% 6% 13 Actional/multiple FWs 3% 33% 23% 0% 13 Actional/multiple FWs 0% 33% 33% 23% 11% 33 Central FW 25% 33% 33% 23% 11% 0% 12 Pacific FW 0% 63% 15% 15% 0% 12 Pacific FW 0% 63% 33% 22% 11% 0% 32 Pacific FW 0% 0% 4	a4: Geography for which you	<u> </u>						
Central FW 29% 21% 29% 21% 0% 14 Pacific FW 0% 67% 22% 11% 0% 18 National/multiple FWs 5% 59% 24% 38% 38% 37 None 6% 33% 22% 33% 6% 18 Atlantic FW 3% 38% 33% 22% 33% 6% 18 Massissippi FW 0% 33% 33% 22% 11% 0% 12 Pacific FW 26% 33% 25% 17% 0% 12 Pacific FW 0% 68% 33% 25% 17% 0% 12 Pacific FW 0% 68% 15% 29% 0% 12 Pacific FW 0% 68% 15% 39%								
Pacific FW 0% 67% 22% 11% 0% 18 18 18 18 18 18 18 1		- ''						
National/multiple FWs 5% 59% 24% 8% 3% 37 None 6% 33% 22% 33% 6% 18 Alartic FW 3% 38% 31% 23% 0% 0% 13 Mississippi FW 0% 38% 33% 25% 17% 0% 12 Central FW 25% 33% 25% 17% 0% 12 Pacific FW 25% 33% 25% 17% 0% 12 Pacific FW 0% 68% 15% 15% 0% 13 National/multiple FWs 5% 43% 30% 15% 15% 5% 37 None 13% 58% 21% 8% 0% 0% 12 G5: How long active in waterfowl management? 10 % 58% 31% 38% 39% 31% 68% 0% 14 G6: How long active in waterfowl management? 10 % 58% 31% 38% 19% 68% 16 G10 yrs 0% 58% 31% 38% 19% 68% 16 G10 yrs 0% 54% 44% 29% 0% 0% 13 11-20 yrs 10% 39% 29% 23% 0% 0% 13 11-20 yrs 30% 62% 47% 13% 13% 7% 15 G7: Most frequent waterfowl most hat? 21-30 yrs 20% 47% 13% 13% 7% 15 G7: Most frequent waterfowl most hat? 68% 62% 47% 13% 13% 7% 15 G7: Most frequent waterfowl most hat? 68% 68% 19% 23% 38% 24% 38% 36%								
None 6% 33% 22% 33% 6% 18								
q5: Geography for which you have population responsibilities? Attantic FW 89% 38% 31% 23% 0% 13 Mssissippi FW 0% 33% 33% 22% 11% 9 Central FW 25% 33% 25% 17% 0% 12 Pacific FW 0% 68% 15% 15% 0% 13 Mational/multiple FWs 5% 43% 30% 15% 0% 13 None 13% 58% 21% 8% 0% 24 40: How long active in waterfowl management? 0.1 yr 0% 57% 14% 29% 0% 2 26: I sys 6% 31% 38% 19% 0% 1 1 40: I sys 0% 57% 14% 29% 0% 0% 1 40: I sys 0% 31% 38% 29% 29% 0% 1 47: Most frequent waterfowl most 10 49 22% 47%		<u> </u>						
Massissippi FW	as: Coography for which you							
Central FW 25% 33% 25% 17% 0% 12								
Pacific FW 0% 69% 15% 15% 0% 13 National/multiple FWs 5% 43% 30% 16% 5% 37 None 13% 58% 21% 88% 0% 24 Q6: How long active in waterfowl management? 0-1 yr 0% 57% 14% 29% 0% 7 2-5 yrs 6% 31% 38% 19% 6% 16 6-10 yrs 0% 54% 46% 0% 0% 0% 13 11-20 yrs 10% 39% 22% 23% 0% 31 11-20 yrs 10% 39% 62% 15% 12% 4% 26 230 yrs 20% 47% 13% 13% 7% 15 Q7: Most frequent waterfowl mngt hat? Program coordinator/admin 9% 57% 17% 15% 2% 48 Biologist/scientist 0% 32% 38% 24% 5% 37 Researcher 10% 60% 30% 0% 0% 0% 10 Regulations committee member 100% 60% 30% 0% 0% 0% 38 Q8: I spend most time: Managing WF populations 8% 19% 32% 32% 38% 0% 38 Q9: How important a recreational activity is WF hunting to you? Most important rec-activities 14% 49% 22% 13% 0% 38 Q9: How important a recreational activity is WF hunting to you? 10 fleast important rec-activities 0% 56% 22% 11% 0% 38 Q9: How important a recreational activity is WF hunting to you? 10 fleast important rec-activities 0% 56% 22% 11% 0% 38 Q9: How important a recreational activity is WF hunting to you? 10 fleast important rec-activities 0% 56% 22% 11% 0% 38 Q9: How important a recreational activity is WF hunting to you? 10 fleast important rec-activities 0% 56% 22% 11% 0% 38 Q9: How important a recreational activity is WF hunting to you? 10 fleast important rec-activities 0% 56% 22% 11% 0% 0% 0% 0% 0% 0%								
National/multiple FWs 5% 43% 30% 16% 5% 37 None 13% 58% 21% 8% 0% 04 24 24 GE: How long active in waterfowl management? 2-5 yrs 6% 31% 38% 19% 6% 16 6-10 yrs 6% 31% 38% 19% 6% 16 6-10 yrs 10% 39% 29% 23% 0% 18 11-20 yrs 10% 39% 29% 23% 0% 18 12-30 yrs 8% 62% 15% 12% 4% 26 >30 yrs 20% 47% 13% 13% 7% 15 q7; Most frequent waterfowl mngt hat? 48 60% 15% 12% 4% 26 >30 yrs 20% 47% 13% 13% 7% 15 Program coordinator/admin 9% 57% 17% 15% 29% 46 Biologist/scientist 0% 32% 38% 24% 5% 37 Researcher 10% 60% 30% 0% 0% 0% 10 Regulations committee member 100% 60% 30% 0% 0% 0% 10 Regulations committee member 100% 60% 33% 32% 38% 37 Amanaging habitat 5% 72% 21% 3% 0% 0% 39 Geyl How important a recreational activity is WF hunting to you? 1 of most important rec-activities 14% 48% 22% 13% 0% 23 1 of most important trec-activities 0% 56% 22% 11% 11% 3 1 of least important rec-activities 0% 56% 22% 11% 11% 3								
None 13% 58% 21% 8% 0% 24								
Q6: How long active in waterfowl management? 0-1 yr 0-1 w 57% 14% 29% 0-1 w 7 2-5 yrs 6-1 w 6-1 w 5-4 w 46% 0-1 w 0-1 w 1-2 w		<u> </u>						
Part								
Program coordinator/admin 9% 57% 17% 3% 3% 19% 10% 10% 13%	q6: How long active in waterfowl management?							
11-20 yrs 10% 39% 29% 23% 0% 36 26 26 27 27 27 27 27 2	•							
21-30 yrs 3% 62% 15% 12% 4% 26								
Note		· ·						
q7: Most frequent waterfowl mngt hat? Agency/Executive director 15% 54% 23% 3% 0% 13 Program coordinator/admin 9% 57% 17% 15% 2% 46 Biologist/scientist 0% 32% 38% 24% 5% 37 Researcher 10% 60% 30% 0% 0% 0% 10 Regulations committee member 100% 3% 0% 0% 3% 0% 3% 3% 3% 0% 3% 3% 0% 3% 0% 3% 3% 1% 0% 3% 3% 1% 0% 3% 3% 3% 0% 0								
Program coordinator/admin 9% 57% 17% 15% 2% 48		-						
Program coordinator/admin 9% 57% 17% 15% 2% 48		• '						
Researcher 10% 60% 30% 0% 0% 0% 10								
Regulations committee member 100% 0% 0% 0% 0% 0% 0%								
Managing WF populations 8% 19% 32% 32% 38% 37 Managing habitat 5% 72% 21% 3% 0% 39 Equal habitat/populations 0% 56% 33% 11% 0% 9 None 17% 48% 22% 13% 0% 23 49: How important a recreational activity is WF hunting to you? Most important rec-activity 5% 60% 15% 20% 0% 20 1 of most important rec-activities 14% 49% 20% 14% 3% 35 No more important than others 0% 33% 39% 22% 6% 18 Less important than others 0% 56% 22% 11% 11% 9 1 of least important rec-activities 0% 50% 50% 0% 0% 0% 2								
Managing habitat 5% 72% 21% 3% 0% 39		<u> </u>						
Equal habitat/populations 0% 56% 33% 11% 0% 9 None 17% 48% 22% 13% 0% 23 q9: How important a recreational activity is WF hunting to you? 1 of most important rec-activities 14% 49% 20% 14% 3% 35 No more important than others 0% 33% 39% 22% 6% 18 Less important than others 0% 56% 22% 11% 11% 11% 9 1 of least important rec-activities 0% 50% 50% 0% 0% 0% 2	q8: I spend most time:							
None 17% 48% 22% 13% 0% 23								
q9: How important a recreational activity is WF hunting to you? Most important rec-activity 5% 60% 15% 20% 0% 20 1 of most important rec-activities 14% 49% 20% 14% 3% 35 No more important than others 0% 33% 39% 22% 6% 18 Less important than others 0% 56% 22% 11% 11% 9 1 of least important rec-activities 0% 50% 50% 0% 0% 2		Equal habitat/populations						
activity is WF hunting to you? 1 of most important rec-activities 14% 49% 20% 14% 3% 35 No more important than others 0% 33% 39% 22% 6% 18 Less important than others 0% 56% 22% 11% 11% 9 1 of least important rec-activities 0% 50% 50% 0% 0% 0% 2		None						
1 of most important rec-activities		Most important rec-activity	5%	60%	15%	20%	0%	20
Less important than others 0% 56% 22% 11% 11% 9 1 of least important rec-activities 0% 50% 50% 0% 0% 2	activity is our nunting to you?	1 of most important rec-activities	14%	49%	20%	14%	3%	35
1 of least important rec-activities		No more important than others	0%	33%	39%	22%	6%	18
·		Less important than others	0%	56%	22%	11%	11%	9
Don't WF hunt 13% 42% 33% 13% 0% 24		1 of least important rec-activities	0%	50%	50%	0%	0%	2
		Don't WF hunt	13%	42%	33%	13%	0%	24

Table K4: Workshop goal 2 "To clarify the fundamental objectives and associated measurable attributes" was met. (Descriptives)

		q23: ₩	Akshp goal 2 me	? (clarify fundamen asurable objective:	tal objective ;) was met?	s & assoc	ated
Round (R) 2 Characteristic	Valid N	Mean	Word anchor	Median	Mode	SD
Meeting location R2	New Orleans	26	3.62	Disagree	4.00	4	.80
	Denver1	18	2.39	Agree	2.00	2	.85
	Portland	15	2.33	Agree	2.00	2	.72
	Denver2	8	1.75	Agree	2.00	2	.46
	Edmonton	17	2.12	Agree	2.00	2	.78
	Ottawa	24	2.33	Agree	2.00	2	.64
	Total	108	2.57	Neutral	2.00	2	.95
g1: Lattended Round 1	Yes	70	2.70	Neutral	3.00	2	1.01
Wkshop?	No	34	2.35	Agree	2.00	2	.77
	Don't remember	3	2.00	Agree	2.00	1	1.00
q2: Country?	Canada	42	2.31	Agree	2.00	2	.75
	U.S.	65	2.74	Neutral	3.00	2	1.03
q3: Primary employment?	Federal agency	52	2.67	Neutral	3.00	2	.94
	Non-gov org	28	2.21	Agree	2.00	2	.74
	Private business	2	2.00	Agree	2.00	2	.00
	State/Provincial	21	2.95	Neutral	3.00	2	1.16
	University	4	2.00	Agree	2.00	2	.00
q4: Geography for which	Atlantic FW	13	2.54	Neutral	2.00	2	.88
you have habitat responsibilities?	Mississippi FW	8	2.88	Neutral	3.00	3	1.25
responsibilities :	Central FW	14	2.43	Agree	2.50	1	1.16
	Pacific FW	18	2.44	Agree	2.00	2	.70
	National/multiple FWs	37	2.43	Agree	2.00	2	.83
	None	18	3.00	Neutral	3.00	2	1.08
o5: Geography for which	Atlantic FW	13	2.69	Neutral	3.00	2	.95
q5: Geography for which you have population	Mississippi FW	9	3.11	Neutral	3.00	2	1.05
responsibilities :	Central FW	12	2.33	Agree	2.00	2	1.07
esponsibilitiės?	Pacific FW	13	2.46	Agree	2.00	2	.78
	National/multiple FW/s	37	2.73	Neutral	3.00	2	.99
	None	24	2.25	Agree	2.00	2	.79
q6: How long active in	0-1 yr	7	2.71	Neutral	2.00	2	.95
waterfowl management?	2-5 yrs	16	2.88	Neutral	3.00	3	1.02
	6-10 yrs	13	2.46	Agree	2.00	2	.52
	11-20 yrs	31	2.65	Neutral	3.00	2	.95
	21-30 yrs	26	2.42	Agree	2.00	2	.95
	>30 yrs	15	2.40	Agree	2.00	2	1.18
a7: Most frequent	Agency/Executive director	13	2.23	Agree	2.00	2	.83
waterfowl mngt hat?	Program coordinator/admin	46	2.46	Agree	2.00	2	.94
	Biologist/scientist	37	3.03	Neutral	3.00	3	.90
	Researcher	10	2.20	Agree	2.00	2	.63
	Regulations committee member	2	1.00	Agree	1.00	1	.00
q8: I spend most time:	Managing WF populations	37	3.14	Neutral	3.00	3	1.08
go spena most time.	Managing habitat	39	2.21	Agree	2.00	2	.57
	Equal habitat/populations	9	2.56	Neutral	2.00	2	.73
	None	23	2.30	Agree	2.00	2	.13
a9: How important a		20	2.50	Neutral	2.00	2	.89
q9: How important a recreational activity is WF	Most important rec-activity 1 of most important rec-activities	35	2.50		2.00	2	1.01
hunting to you?	<u>'</u>			Agree		3	
	No more important than others	18	3.00	Neutral	3.00		.91
	Less important than others	9	2.78	Neutral	2.00	2	1.09
	1 of least important rec-activities	2	2.50	Neutral	2.50	2	.71
	Don't WF hunt	24	2.46	Agree	2.00	2	.88

a. Based on rounded mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table K5: Workshop goal 3 "To seek input on the values associated with the fundamental objectives" was met. (Frequencies)

		qz4: VVKshp	goal 3 (see	k input on va objectives) v	lues associate vas met?	ea with fundan	nental
Round (R)	2 Characteristic	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	Total
Meeting location R2	New Orleans	8%	42%	27%	19%	4%	26
•	Denver1	6%	61%	28%	6%	0%	18
	Portland	13%	60%	20%	7%	0%	1:
	Denver2	13%	88%	0%	0%	0%	1
	Edmonton	35%	53%	0%	12%	0%	17
	Ottawa	21%	58%	21%	0%	0%	24
	Total	16%	56%	19%	8%	1%	108
q1: Lattended Round 1	Yes	19%	53%	19%	9%	1%	70
Wkshop?	No.	12%	59%	21%	9%	0%	34
	Don't remember	0%	100%	0%	0%	0%	"
q2: Country?	Canada	24%	55%	14%	7%	0%	4
qz. country:	U.S.	11%	57%	22%	9%	2%	6:
q3: Primary employment?		15%	58%	19%	6%	2%	52
qo: rnmary employment?	Federal agency						_
	Non-gov org	21%	54%	14%	11%	0%	28
	Private business	0%	100%	0%	0%	0%	1
	State/Provincial	14%	48%	24%	14%	0%	2'
	University	0%	75%	25%	0%	0%	-
q4: Geography for which you have habitat responsibilities?	Atlantic FW	15%	62%	23%	0%	0%	13
nave nabled responsibilities.	Mississippi FW	25%	50%	13%	13%	0%	
	Central FW	0%	64%	29%	7%	0%	14
	Pacific FW	11%	50%	28%	11%	0%	18
	National/multiple FWs	24%	54%	14%	8%	0%	37
	None	11%	61%	11%	11%	6%	18
q5: Geography for which you	Atlantic FW	15%	62%	23%	0%	0%	13
have population responsibilities?	Mississippi FW	22%	67%	11%	0%	0%	
	Central FW	0%	50%	33%	17%	0%	12
	Pacific FW	8%	38%	38%	15%	% 0% % 0%	13
	National/multiple FWs	14%	59%	14%	11%	3%	37
	None	29%	58%	8%	4%	0%	24
q6: How long active in	0-1 yr	14%	71%	14%	0%	0%	7
waterfowl management?	2-5 yrs	25%	38%	25%	13%	0%	16
	6-10 yrs	8%	46%	31%	15%	0%	13
	11-20 yrs	16%	65%	16%	3%	0%	31
	21-30 yrs	15%	54%	23%	8%	0%	26
	>30 yrs	13%	67%	0%	13%	7%	15
q7: Most frequent waterfowl	Agency/Executive director	23%	46%	15%	15%	0%	13
mngt hat?	Program coordinator/admin	17%	59%	17%	7%	0%	46
	Biologist/scientist	11%	57%	22%	11%	0%	37
	Researcher	10%	60%	20%	0%	10%	10
	Regulations committee member	50%	50%	0%	0%	0%	"
=0. I ====d === + +!=							-
q8: I spend most time:	Managing WF populations	8%	43%	30%	16%	3%	31
	Managing habitat	18%	62%	15%	5%	0%	3:
	Equal habitat/populations	33%	67%	0%	0%	0%	'
	None	17%	65%	13%	4%	0%	2
q9: How important a recreational activity is WF	Most important rec-activity	25%	50%	25%	0%	0%	2
recreational activity is our nunting to you?	1 of most important rec-activities	11%	66%	11%	11%	0%	3
	No more important than others	0%	67%	11%	22%	0%	1
	Less important than others	33%	56%	0%	11%	0%	
	1 of least important rec-activities	0%	100%	0%	0%	0%	
	Don't WF hunt	21%	38%	38%	0%	4%	2

Table K6: Workshop goal 3 "To seek input on the values associated with the fundamental objectives" was met. (Descrptives)

		q24: W	kshp goal 3 fundam	(seek input iental objecti	on values a ves) was m	issociated et?	with
Round (R)	2 Characteristic	√alid N	Mean	Word anchor ^a	Median	Mode	SD
Meeting location R2	New Orleans	26	2.69	Neutral	2.50	2	1.01
occuring revolution 112	Denver1	18	2.33	Agree	2.00	2	.69
	Portland	15	2.20	Agree	2.00		.77
	Denver2	8	1.88	Agree	2.00		.35
	Edmonton	17	1.88	Agree	2.00		.93
	Ottawa	24	2.00	Agree	2.00		.66
	Total	108	2.22	Agree	2.00		.85
q1: I attended Round 1				 -	2.00		
qi: i attended ikound i Wkshop?	Yes No	70 34	2.21	Agree	2.00		.90
	Don't remember	34	2.20	Agree	2.00		.00
-0. 0				Agree			
q2: Country?	Canada	42	2.05	Agree	2.00		.82
	U.S.	65	2.34	Agree	2.00		.85
q3: Primary employment?	Federal agency	52	2.21	Agree	2.00	_	.85
	Non-gov org	28	2.14	Agree	2.00		.89
	Private business	2	2.00	Agree	2.00		.00
	State/Provincial	21	2.38	Agree	2.00	_	.92
	University	4	2.25	Agree		.50	
q4: Geography for which you have habitat	Atlantic FW	13	2.08	Agree			.64
responsibilities?	Mississippi FW	8	2.13	Agree	2.00		.99
	Central FW	14	2.43	Agree	2.00		.65
	Pacific FW	18	2.39	Agree	2.00	2	.85
	National/multiple FWs	37	2.05	Agree	2.00	2	.85
	None	18	2.39	Agree	2.00	2	1.04
q5: Geography for which	Atlantic FW	13	2.08	Agree	2.00	2	.64
you have population responsibilities?	Mississippi FW	9	1.89	Agree	2.00	2	.60
	Central FW	12	2.67	Neutral	2.50) 2	.78
	Pacific FW	13	2.62	Neutral	3.00	2	.87
	National/multiple FWs	37	2.30	Agree	2.00	2	.94
	None	24	1.87	Agree	2.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.74
q6: How long active in	0-1 yr	7	2.00	Agree	2.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.58
waterfowl management?	2-5 yrs	16	2.25	Agree	2.00	2	1.00
	6-10 yrs	13	2.54	Neutral	2.00	2	.88
	11-20 yrs	31	2.06	Agree	2.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.68
	21-30 yrs	26	2.23	Agree	2.00		.82
	>30 yrs	15	2.33	Agree	2.00		1.11
q7: Most frequent waterfowl	Agency/Executive director	13	2.23	Agree	2.00	2	1.01
mngt hat?	Program coordinator/admin	46	2.13	Agree	2.00	2	.78
	Biologist/scientist	37	2.32	Agree	2.00	2	.82
	Researcher	10	2.40	Agree	2.00	2	1.07
	Regulations committee member	2	1.50	Agree	1.50	1	.71
q8: I spend most time:	Managing WF populations	37	2.62	Neutral	2.00	2	.95
•	Managing habitat	39	2.08	Agree	2.00	2	.74
	Equal habitat/populations	9	1.67	Agree	2.00		.50
	None	23	2.04	Agree	2.00		.71
q9: How important a	Most important rec-activity	20	2.00	Agree	2.00		.73
recreational activity is WF	1 of most important rec-activities	35	2.23	Agree	2.00		.81
hunting to you?	No more important than others	18	2.56	Neutral	2.00		.86
	Less important than others	9	1.89	Agree	2.00	2	.93
	1 of least important rec-activities	2	2.00	Agree	2.00	2	.00
	Don't WF hunt	24	2.29	Agree	2.00	2	.95

a. Based on rounded mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table K7: Workshop goal 4 "To discuss how best to formulate new objectives in the Plan Revision" was met. (Frequencies)

		q25: Wkshi	p goal 4 (dis	cuss how to f was r		objectives in re	evision)	
Round (R)	2 Characteristic	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	Total	
Meeting location R2 New Orleans		0%	8%	35%	46%	12%	26	
	Denver1	11%	22%	44%	22%	0%	18	
	Portland	7%	40%	47%	0%	7%	15	
	Denver2	0%	75%	25%	0%	0%	1	
	Edmonton	6%	41%	47%	6%	0%	17	
	Ottawa	0%	38%	54%	8%	0%	24	
	Total	4%	31%	44%	18%	4%	108	
g1: Lattended Round 1	Yes	4%	27%	44%	20%	4%	70	
Ŵkshop?	No	3%	41%	38%	15%	3%	3.	
	Don't remember	0%	33%	67%	0%	0%		
q2: Country?	Canada	2%	38%	50%	7%	2%	4	
1	U.S.	5%	28%	38%	25%	5%	6:	
q3: Primary employment?	Federal agency	4%	33%	44%	15%	4%	52	
qo. minary employment:	Non-gov org	7%	32%	39%	21%	0%	28	
	Private business	0%	50%	50%	0%	0%		
	State/Provincial	0%	29%	43%	24%	5%	2	
							_	
-4. O	University Atlantic FW	0%	25%	50%	0%	25% 0%	4	
q4: Geography for which you have habitat responsibilities?		0%	31%	69%	0%		13	
	Mississippi FW	0%	38%	25%	38%	0%		
	Central FW	14%	21%	43%	21%	0%	14	
	Pacific FW	11%	28%	33%	17%	11%	18	
	National/multiple FWs	0%	46%	41%	11%	3%	37	
	None	0%	11%	50%	33%	6%	18	
q5: Geography for which you have population responsibilities?	Atlantic FW	0%	23%	69%	8%	0%	13	
	Mississippi FW	0%	33%	22%	44%	0%		
	Central FW	8%	17%	42%	33%	0%	12	
	Pacific FW	8%	31%	23%	23%	15%	13	
	National/multiple FWs	3%	38%	38%	16%	5%	37	
	None	4%	33%	58%	4%	0%	24	
q8: How long active in	0-1 yr	0%	14%	57%	29%	0%		
waterfowl management?	2-5 yrs	6%	19%	50%	19%	6%	16	
	6-10 yrs	0%	23%	54%	23%	0%	13	
	11-20 yrs	3%	39%	45%	13%	0%	3′	
	21-30 yrs	8%	27%	46%	15%	4%	26	
	>30 yrs	0%	53%	13%	20%	13%	1:	
q7: Most frequent waterfowl	Agency/Executive director	8%	23%	54%	15%	0%	13	
mngt hat?	Program coordinator/admin	7%	37%	41%	15%	0%	46	
	Biologist/scientist	0%	27%	41%	27%	5%	37	
	Researcher	0%	20%	60%	0%	20%	10	
	Regulations committee member	0%	100%	0%	0%	0%	1	
q8: I spend most time:	Managing WF populations	0%	24%	38%	30%	8%	3	
-	Managing habitat	0%	36%	51%	10%	3%	35	
	Equal habitat/populations	11%	44%	33%	11%	0%	1	
	None	13%	30%	43%	13%	0%	2:	
q9: How important a	Most important rec-activity	0%	50%	45%	5%	0%	21	
recreational activity is WF	1 of most important rec-activities	6%	34%	37%	17%	6%	3	
hunting to you?	No more important than others	6%	22%	39%	28%	6%	1	
	Less important than others	0%	33%	44%	22%	0%	<u> </u>	
	1 of least important rec-activities	0%	50%	50%	0%	0%		
	Don't WF hunt	4%	17%	54%	21%	4%	2.	

Table K8: Workshop goal 4 "To discuss how best to formulate new objectives in the Plan Revision" was met. (Descriptives)

		q25: W	Akshp goal 4	(discuss how to to revision) was r	formulate net met?	w objective	es in
Round (R):	2 Characteristic	Valid N	Mean	Word anchor	Median	Mode	SD
Meeting location R2	New Orleans	26	3.62	Disagree	4.00	4	.80
	Denver1	18	2.78	Neutral	3.00	3	.94
	Portland	15	2.60	Neutral	3.00	3	.91
	Denver2	8	2.25	Agree	2.00	2	.46
	Edmonton	17	2.53	Neutral	3.00	3	.72
	Ottawa	24	2.71	Neutral	3.00	3	.62
	Total	108	2.86	Neutral	3.00	3	.88
q1: I attended Round 1	Yes	70	2.93	Neutral	3.00	3	.91
Ŵkshop?	No	34	2.74	Neutral	3.00	2	.86
	Don't remember	3	2.67	Neutral	3.00	3	.58
q2: Country?	Canada	42	2,69	Neutral	3.00	3	.75
4 , .	U.S.	65	2.97	Neutral	3.00	3	.95
q3: Primary employment?	Federal agency	52	2.83	Neutral	3.00	3	.88
qui i i i i i i i i i i i i i i i i i i	Non-gov org	28	2.75	Neutral	3.00	3	.89
	Private business	2	2.50	Neutral	2.50	2	.71
	State/Provincial	21	3.05	Neutral	3.00	3	.86
	University	4	3.25	Neutral	3.00	3	1.26
q4: Geography for which you	Atlantic FW	13	2.69	Neutral	3.00	3	.48
have habitat responsibilities?							
·	Mississippi FW	8	3.00	Neutral	3.00	2	.93
	Central FW	14	2.71	Neutral	3.00	3	.99
	Pacific FW	18	2.89	Neutral	3.00	3	1.18
	National/multiple FW/s	37	2.70	Neutral	3.00	2	.78
	None	18	3.33	Neutral	3.00	3	.77
q5: Geography for which you have population	Atlantic FW	13	2.85	Neutral	3.00	3	.55
responsibilities?	Mississippi FW	9	3.11	Neutral	3.00	4	.93
	Central FW	12	3.00	Neutral	3.00	3	.95
	Pacific FW	13	3.08	Neutral	3.00	2	1.26
	National/multiple FWs	37	2.84	Neutral	3.00	2	.93
	None	24	2.63	Neutral	3.00	3	.65
q6: How long active in	0-1 yr	7	3.14	Neutral	3.00	3	.69
waterfowl management?	2-5 yrs	16	3.00	Neutral	3.00	3	.97
	6-10 yrs	13	3.00	Neutral	3.00	3	.71
	11-20 yrs	31	2.68	Neutral	3.00	3	.75
	21-30 yrs	26	2.81	Neutral	3.00	3	.94
	>30 yrs	15	2.93	Neutral	2.00	2	1.16
q7: Most frequent waterfowl	Agency/Executive director	13	2.77	Neutral	3.00	3	.83
mngt hat?	Program coordinator/admin	46	2.65	Neutral	3.00	3	.82
	Biologist/scientist	37	3.11	Neutral	3.00	3	.88
	Researcher	10	3.20	Neutral	3.00	3	1.03
	Regulations committee member	2	2.00	Agree	2.00	2	.00
q8: I spend most time:	Managing WF populations	37	3.22	Neutral	3.00	3	.92
•	Managing habitat	39	2.79	Neutral	3.00	3	.73
	Equal habitat/populations	9	2.44	Agree	2.00	2	.88
	None	23	2.57	Neutral	3.00	3	.90
q9: How important a	Most important rec-activity	20	2.55	Neutral	2.50	2	.60
q9: How important a recreational activity is WF	1 of most important rec-activities	35	2.83	Neutral	3.00	3	.98
hunting to you?	No more important than others	18	3.06	Neutral	3.00	3	1.00
	Less important than others	9	2.89	Neutral	3.00	3	.78
	1 of least important rec-activities	2	2.50	Neutral	2.50	2	.71
	· .	24			3.00	3	.71
	Don't WF hunt	24	3.04	Neutral	3.00	5	.86

a. Based on rounded mean score where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table K9: Workshop goal 5 "To initiate discussion of institutions and processes that will facilitate integrated waterfowl management" was met. (Frequencies)

		q26: Wkshp goal 5 (initiate discussion of institutions & processes facilitating integrated WF mngt) was met? Strongly Strongly									
Round (R)	Round (R) 2 Characteristic Meeting location R2 New Orleans		Agree	Neutral	Disagree	Strongly disagree	Total				
Meeting location R2	New Orleans	4%	38%	35%	15%	8%	26				
	Denver1	11%	61%	22%	6%	0%	18				
	Portland	7%	73%	20%	0%	0%	15				
	Denver2	13%	75%	13%	0%	0%	8				
	Edmonton	0%	71%	24%	6%	0%	17				
	Ottawa	0%	54%	29%	17%	0%	24				
	Total	5%	58%	26%	9%	2%	108				
q1: I attended Round 1	Yes	3%	53%	30%	11%	3%	70				
Wkshop? q2: Country?	No	6%	74%	15%	6%	0%	34				
	Don't remember	0%	33%	67%	0%	0%	3				
q2: Country?	Canada	0%	57%	31%	12%	0%	42				
	U.S.	6%	60%	23%	8%	3%	65				
q3: Primary employment?	Federal agency	4%	56%	29%	10%	2%	52				
,,,,,,,,	Non-gov org	4%	57%	29%	7%	4%	28				
	Private business	0%	50%	50%	0%	0%	2				
	State/Provincial	0%	71%	14%	14%	0%	21				
	University	25%	50%	25%	0%	0%	4				
q4: Geography for which you	Atlantic FW	0%	54%	31%	15%	0%	13				
have habitat responsibilities?	Mississippi FW	0%	88%	0%	13%	0%	8				
	Central FW	14%	43%	29%	14%	0%	14				
	Pacific FW	6%	72%	17%	6%	0%	18				
	National/multiple FW/s	5%	57%	30%	8%	0%	37				
	None None	0%	50%	33%	6%	11%	18				
q5: Geography for which you	Atlantic FW	0%	54%	31%	15%	0%	13				
have population		0%	78%	11%	0%	11%	9				
responsibilities?	Mississippi FW Central FW	8%	42%	33%	17%	0%	12				
	Pacific FW	0%	69%	31% 27%	0%	0% 3%	13 37				
	National/multiple FW/s	8% 4%	51% 67%	21%	11% 8%	0%	24				
-0. How has a setting to	None										
q6: How long active in waterfowl management?	0-1 yr	0%	71%	14%	14%	0%	7				
•	2-5 yrs	6%	56%	31%	6%	0%	16				
	6-10 yrs	8%	62%	23%	8%	0%	13				
	11-20 yrs	6%	55%	29%	10%	0%	31				
	21-30 yrs	4%	62%	27%	8%	0%	26				
	>30 yrs	0%	53%	20%	13%	13%	15				
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	0%	77%	15%	8%	0%	13				
•	Program coordinator/admin	7%	65%	22%	7%	0%	46				
	Biologist/scientist	3%	49%	32%	14%	3%	37				
	Researcher	10%	50%	20%	10%	10%	10				
	Regulations committee member	0%	0%	100%	0%	0%	2				
q8: I spend most time:	Managing WF populations	0%	43%	35%	16%	5%	37				
	Managing habitat	0%	72%	21%	8%	0%	39				
	Equal habitat/populations	11%	56%	33%	0%	0%	9				
	None	17%	61%	17%	4%	0%	23				
q9: How important a recreational activity is WF	Most important rec-activity	0%	50%	45%	5%	0%	20				
hunting to you?	1 of most important rec-activities	6%	57%	23%	14%	0%	35				
	No more important than others	6%	56%	28%	6%	6%	18				
	Less important than others	0%	78%	11%	11%	0%	9				
	1 of least important rec-activities	0%	100%	0%	0%	0%	2				
	Don't WF hunt	8%	58%	21%	8%	4%	24				

Table K10: Workshop goal 5 "To initiate discussion of institutions and processes that will facilitate integrated waterfowl management" was met. (Descriptives)

		q20: 00Ks	facilitati	initiate discussion ng integrated WF	mngt) was n	net?	esses
Round (R)	Valid N	Mean	Word anchor	Median	Mode	SD	
Meeting location R2	New Orleans	26	2.85	Neutral	3.00	2	1.01
	Denver1	18	2.22	Agree	2.00	2	.73
	Portland	15	2.13	Agree	2.00	2	.52
	Denver2	8	2.00	Agree	2.00	2	.53
	Edmonton	17	2.35	Agree	2.00	2	.61
	Ottawa	24	2.63	Neutral	2.00	2	.77
	Total	108	2.45	Agree	2.00	2	.80
g1: Lattended Round 1	Yes	70	2.59	Neutral	2.00	2	.84
Wkshop?	No	34	2.21	Agree	2.00	2	.64
	Don't remember	3	2.67	Neutral	3.00	3	.58
q2: Country?	Canada	42	2.55	Neutral	2.00	2	.71
	U.S.	65	2.42	Agree	2.00	2	.85
q3: Primary employment?	Federal agency	52	2.50	Neutral	2.00	2	.80
	Non-gov org	28	2.50	Neutral	2.00	2	.84
	Private business	2	2.50	Neutral	2.50	2	.71
	State/Provincial	21	2.43	Agree	2.00	2	.75
	University	4	2.00	Agree	2.00	2	.82
q4: Geography for which you	Atlantic FW	13	2.62	Neutral	2.00	2	.77
have habitat résponsibilitiés?	Mississippi FW	8	2.25	Agree	2.00	2	.71
	Central FW	14	2.43	Agree	2.00	2	.94
	Pacific FW	18	2.22	Agree	2.00	2	.65
	National/multiple FW/s	37	2.41	Agree	2.00	2	.72
	None	18	2.78	Neutral	2.50	2	1.00
q5: Geography for which you have population	Atlantic FW	13	2.62	Neutral	2.00	2	.77
	Mississippi FW	9	2.44	Agree	2.00	2	1.01
responsibilities?	Central FW	12	2.58	Neutral	2.50	2	.90
	Pacific FW	13	2.31	Agree	2.00	2	.48
	National/multiple FW/s	37	2.49	Agree	2.00	2	.90
	None	24	2.33	Agree	2.00	2	.70
q6: How long active in	0-1 yr	7	2.43	-	2.00	2	.79
waterfowl management?	2-5 yrs	16	2.43	Agree Agree	2.00	2	.72
				<u> </u>			-
	6-10 yrs	13	2.31	Agree	2.00	2	.75
	11-20 yrs	31	2.42	Agree	2.00	2	.76
	21-30 yrs	26	2.38	Agree	2.00		-
-7: 14: -4: 4	>30 yrs	15	2.87	Neutral	2.00	2	1.13
q7: Most frequent waterfowl mngt hat?	Agency/Executive director	13	2.31	Agree	2.00	2	.63
-	Program coordinator/admin	46	2.28	Agree	2.00	2	.69
	Biologist/scientist	37	2.65	Neutral	2.00	2	.86
	Researcher	10	2.60	Neutral	2.00	2	1.17
	Regulations committee member	2	3.00	Neutral	3.00	3	.00
q8: I spend most time:	Managing WF populations	37	2.84	Neutral	3.00	2	.90
	Managing habitat	39	2.36	Agree	2.00	2	.63
	Equal habitat/populations	9	2.22	Agree	2.00	2	.67
	None	23	2.09	Agree	2.00	2	.73
q9: How important a recreational activity is WF	Most important rec-activity	20	2.55	Neutral	2.50	2	.60
hunting to you?	1 of most important rec-activities	35	2.46	Agree	2.00	2	.82
	No more important than others	18	2.50	Neutral	2.00	2	.92
	Less important than others	9	2.33	Agree	2.00	2	.71
	1 of least important rec-activities	2	2.00	Agree	2.00	2	.00
	Don't WF hunt	24	2.42	Agree	2.00	2	.93

a. Based on round mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table K11: Workshop goal 6 "To provide feedback to the NAWMP Plan Committee as they move forward with the Plan Revision" was met. (Descriptives)

							Round				
	1				2		Total				
		q27:Feedback to NAWMP met?			<u> </u>		NAWMP met?	<u> </u>	eedback to NAWMP		
	(R) 1 and 2 Characteristic	Valid N	Mean	Word anchor	Valid N	Mean	Word anchor	√alid N	Mean	Word anchor	
Meeting location R1	Portland	27	3.26	Neutral	0			27	3.26	Neutral	
loodilon III	Memphis	18	2.22	Agree	0			18	2.22	Agree	
	Sacramento	13	1.69	Agree	0			13	1.69	Agree	
	Milwaukee	23	1.83	Agree	0			23	1.83	Agree	
	Edmonton	25	1.48	Strongly Agree	0			25	1.48	Strongly agree	
	Ottawa	25	1.84	Agree	0			25	1.84	Agree	
Meeting location R2	New Orleans	0			26	2.58	Neutral	26	2.58	Neutral	
	Denver1	0			18	2.22	Agree	18	2.22	Agree	
	Portland	0			15	2.00	Agree	15	2.00	Agree	
	Denver2	0			8	2.38	Agree	8	2.38	Agree	
	Edmonton	0			17	2.12	Agree	17	2.12	Agree	
q2: Country?	Ottawa	0	·		24	2.08	Agree	24	2.08	Agree	
q2: Country?	Canada	51	1.71	Agree	42	2.19	Agree	93	1.92	Agree	
	U.S.	76	2.36	Agree	65	2.26	Agree	141	2.31	Agree	
q3: Primary employment?	Federal agency	56	2.05	Agree	52	2.25	Agree	108	2.15	Agree	
employment.	Non-gov org	37	1.92	Agree	28	2.32	Agree	65	2.09	Agree	
	Private business	0			2	2.50	Neutral	2	2.50	Neutral	
	State/Provincial	34	2.35	Agree	21	2.14	Agree	55	2.27	Agree	
	University	1	2.00	Agree	4	1.75	Agree	5	1.80	Agree	
g4: Geography for which you	Atlantic FW	15	1.87	Agree	13	1.77	Agree	28	1.82	Agree	
have habitat responsibilities	Mississippi FW	12	2.50	Neutral	8	2.25	Agree	20	2.40	Agree	
?	Central FW	9	2.44	Agree	14	2.36	Agree	23	2.39	Agree	
	Pacific FW	26	2.04	Agree	18	2.33	Agree	44	2.16	Agree	
	National/multiple FW/s	43	1.88	Agree	37	2.27	Agree	80	2.06	Agree	
	None	23	2.35	Agree	18	2.33	Agree	41	2.34	Agree	
q5: Geography for which you	Atlantic FW	15	2.00	Agree	13	1.85	Agree	28	1.93	Agree	
have population	Mississippi FW	13	2.31	Agree	9	2.33	Agree	22	2.32	Agree	
responsibilities	Central FW Pacific FW	8 20	2.50 2.15	Neutral	12 13	2.50	Neutral	20 33	2.50 2.27	Neutral	
r		41	2.13	Agree	37		Agree	78	2.24	Agree	
	National/multiple FW/s None	31	1.74	Agree	24	2.27	Agree	78 55	1.91	Agree	
-0. II I		7		Agree			Agree			Agree	
q6: How long active in	0-1 yr	16	2.43	Agree	7 16	2.43	Agree	14 32	2.43 2.37	Agree	
waterfowl management?	2-5 yrs 6-10 yrs	17	2.00	Agree Agree	13	2.08	Agree	30	2.03	Agree	
management.	11-20 yrs	29	1.86	-	31	1.94	Agree	60	1.90	Agree	
		42	2.07	Agree	26	2.31	Agree	68	2.16	Agree	
	21-30 yrs >30 yrs	18	2.22	Agree Agree	15	2.67	Agree Neutral	33	2.16	Agree Agree	
a7: Moot	· ·	16	1.88	-	13	2.81		29	2.42		
g7: Most frequent	Agency/Executive director Program coordinator/admin	57	1.75	Agree Agree	46	2.51	Agree Agree	103	1.93	Agree Agree	
waterfowl mngt hat?	Biologist/scientist	48	2.50	Neutral	37	2.13	_	85	2.41		
	Researcher	48 8	2.30		10	2.30	Agree Agree	85 18	2.41	Agree	
	Regulations committee member	1	2.00	Agree Agree	2	2.50	Ngree Neutral	18	2.33	Agree Agree	
q8: I spend		34		Neutral							
most time:	Managing WF populations Managing habitat	43	2.59 1.79	Agree	37 39	2.32	Agree Agree	71 82	2.45	Agree Agree	
	Equal habitat/populations	16	2.19	Agree	9	2.23	Agree	25	2.00	Agree	
	None	37	1.92	Agree	23	2.17	Agree	60	2.16	Agree	
q9: How	Most important rec-activity	23	2.30	Agree	20	2.17	Agree	43	2.02	Agree	
important a		46			35		_	81			
recreational activity is WF	1 of most important rec-activities No more important than others	18	2.20	Agree Agree	18	2.23	Agree Agree	36	2.21	Agree Agree	
hunting to	Less important than others	15	1.80	Agree	9	2.44	Agree	24	2.00	Agree	
you?		2	1.50		2	3.50	Ngree Neutral	4	2.50	Agree Neutral	
	1 of least important rec-activities Don't WF hunt	26	1.85	Agree	24	2.04		50	1.94		
	Don't Wr nunt			Agree		2.04	Agree	50	1.34	Agree	

a. Based on rounded mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree

Table K12: "How do you feel about the Revision process as described at this meeting?" (Descriptives)

						Roun	d					
			1			2		Total				
		q28	Revision	process?	q28:Revision process?			q28: Revision process?				
Round (R) 1 and 2	! Characteristic	√alid N	Mean	Word anchor ^a	Valid N	Mean	Word anchor	√alid N	Mean	Word anchor		
Meeting	Portland	27	3.93	Not so good	0			27	3.93	Not so good		
location R1	Memphis	18	2.61	ок	0			18	2.61	ок		
	Sacramento	13	2.15	ок	0			13	2.15	Good		
	Milwaukee	23	2.43	Good	0			23	2.43	Good		
	Edmonton	25	2.32	Good	0			25	2.32	Good		
	Ottawa	25	2.40	Good	0	l .		25	2.40	Good		
Meeting	New Orleans	0			26	3.81	Not so good	26	3.81	Not so goo		
location R2	Denver1	0			18	3.00	ок	18	3.00	ОК		
	Portland	0			15	2.47	Good	15	2.47	Good		
	Denver2	0			8	2.13	Good	8	2.13	Good		
	Edmonton	0			17	2.18	Good	17	2.18	Good		
	Ottawa	0	 	 	24	2.54	ОК	24	2.54	ОК		
q2: Country?	Canada	51	2.37	Good	42	2.48	Good	93	2.42	Good		
4-1 y 1	U.S.	76	2.91	ОК	65	3.05	ок	141	2.97	ОК		
q3: Primary	Federal agency	56	2.82	OK	52	2.98	OK	108	2.90	ОК		
employment?	Non-gov org	37	2.35	Good	28	2.46	Good	65	2.40	Good		
	Private business	0	2.33	3000	20	2.46	060a 0K	2	2.40	0600a		
	State/Provincial	34	2.94	ок	21	2.95	OK OK	55	2.95	OK		
								5				
-4: 0	University	1	1.00	Excellent	4	2.75	OK OK		2.40	Good		
q4: Geography for which you	Atlantic FW	15	2.47	Good	13	2.54	OK	28	2.50	OK		
have habitat	Mississippi FW	12	3.00	ОК	8	3.25	ОК	20	3.10	OK		
responsibilities?	Central FW	9	2.89	ОК	14	2.86	ОК	23	2.87	0K		
	Pacific FW	26	2.58	ок	18	2.67	ок	44	2.61	ОК		
	National/multiple FWs	43	2.51	ОК	37	2.73	ОК	80	2.61	ОК		
	None	23	3.13	ОК	18	3.17	ОК	41	3.15	ОК		
q5: Geography for which you	Atlantic FW	15	2.67	ок	13	2.77	OK	28	2.71	OK		
have population	Mississippi FW	13	3.15	ОК	9	3.22	ОК	22	3.18	OK		
responsibilities?	Central FW	8	3.25	ок	12	3.00	ок	20	3.10	ОК		
	Pacific FW	20	2.45	Good	13	2.77	ок	33	2.58	OK		
	National/multiple FWs	41	2.80	ок	37	2.97	ок	78	2.88	OK		
	None	31	2.42	Good	24	2.42	Good	55	2.42	Good		
q6: How long	0-1 yr	7	2.43	Good	7	2.71	ОК	14	2.57	ОК		
active in waterfowl	2-5 yrs	16	2.69	ОК	16	2.88	ОК	32	2.78	ОК		
management?	6-10 yrs	17	2.76	ОК	13	2.62	ОК	30	2.70	ОК		
	11-20 yrs	29	2.69	ок	31	2.94	ок	60	2.82	ок		
	21-30 yrs	42	2.81	ок	26	2.65	ок	68	2.75	ОК		
	>30 yrs	18	2.50	ОК	15	3.07	ОК	33	2.76	ок		
q7: Most	Agency/Executive director	16	2.25	Good	13	2.54	ОК	29	2.38	Good		
frequent waterfowl mngt	Program coordinator/admin	57	2.61	ок	46	2.74	ОК	103	2.67	ОК		
hat?	Biologist/scientist	48	2.98	ок	37	3.11	ок	85	3.04	ок		
	Researcher	8	2.50	ок	10	2.70	ОК	18	2.61	ОК		
	Regulations committee member	1	3.00	ок	2	2.00	Good	3	2.33	Good		
q8: I spend	Managing WF populations	34	3.24	ок	37	3.38	ок	71	3.31	ОК		
most time:	Managing habitat	43	2.42	Good	39	2.44	Good	82	2.43	Good		
	Equal habitat/populations	16	2.69	ОК	9	2.56	ОК	25	2.64	ОК		
	None	37	2.54	OK OK	23	2.70	OK OK	60	2.64	OK OK		
an: Hom			2.83	OK OK		2.70	OK OK	43		OK OK		
q9: How important a	Most important rec-activity	23			20				2.77			
recreational activity is WF	1 of most important rec-activities	46	2.83	OK	35	2.83	OK OK	81	2.83	OK OK		
hunting to you?	No more important than others	18	2.78	OK	18	2.89	ОК	36	2.83	OK		
	Less important than others	15	2.67	ОК	9	2.56	OK	24	2.63	OK		
	1 of least important rec-activities	2	2.00	Good	2	2.50	ОК	4	2.25	Good		
	Don't WF hunt	26	2.38	Good	24	3.00	ОК	50	2.68	OK		

a. Based on rounded mean where 1=Excellent, 2=Good, 3=OK, 4=Not so good, 5=Bad

TableK13: "Overall, I thought the workshop was a success?" (Descriptives)

			1			2		Total				
		n29: 1		as a success?	g29: \M		a success?	q29: Wkshop was a succ				
Round (R) 1 and 2	Characteristic	Valid N	Mean	Word anchor	Valid N	Mean	Word anchor	Valid N	Mean	Word		
Meeting location	Portland	26	3.00	Neutral	0	<u>. </u>		26	3.00	Neutra		
R1 Č	Memphis	18	2.28	Agree	0			18	2.28	Agree		
	Sacramento	13	1.69	Agree	0	<u>. </u>		13	1.69	Agree		
	Milwaukee	23	2.04	Agree	0	t		23	2.04	Agree		
	Edmonton	25	1.84	Agree	0	<u> </u>		25	1.84	Agree		
	Ottawa	25	1.92	Agree	0	 		25	1.92	Agree		
Meeting location	New Orleans	0	1		26	3.08	Neutral	26	3.08	Neutr		
R2	Denver1	0	<u> </u>		18	2.33	Agree	18	2.33	Agree		
	Portland	0	 		15	2.20	Agree	15	2.20	Agree		
	Denver2	0	<u> </u>		8	2.13	Agree	8	2.13	Agree		
	Edmonton	0	· ·		17	2.06	Agree	17	2.06	Agree		
	Ottawa	0	· ·		24	2.17		24	2.17			
12: Country?	Canada	51	1.88	Oproc	42	2.17	Agree	93	2.02	Agree		
qz. Country :	U.S.	75	2.33	Agree	65		Agree	140		Agree		
-0. Rd				Agree		2.52	Neutral		2.42	Agree		
q3: Primary employment?	Federal agency	56	2.23	Agree	52	2.52	Neutral	108	2.37	Agree		
· ′	Non-gov org	36	1.94	Agree	28	2.14	Agree	64	2.03	Agree		
	Private business	0			2	2.50	Neutral	2	2.50	Neutr:		
	State/Provincial	34	2.29	Agree	21	2.48	Agree	55	2.36	Agree		
	University	1	1.00	Strongly agree	4	2.00	Agree	5	1.80	Agree		
94: Geography for which you	Atlantic FW	14	1.71	Agree	13	2.15	Agree	27	1.93	Agree		
nave habitat	Mississippi FW	12	2.58	Neutral	8	2.00	Agree	20	2.35	Agree		
responsibilities?	Central FW	10	1.80	Agree	14	2.50	Agree	24	2.21	Agree		
	Pacific FW	26	2.00	Agree	18	2.39	Agree	44	2.16	Agree		
	National/multiple FWs	42	2.19	Agree	37	2.32	Agree	79	2.25	Agree		
	None	23	2.48	Agree	18	2.83	Neutral	41	2.63	Neutr:		
g5: Geography	Atlantic FW	14	1.93	Agree	13	2.31	Agree	27	2.11	Agree		
for which you have population	Mississippi FW	13	2.54	Neutral	9	2.44	Agree	22	2.50	Neutr:		
responsibilities?	Central FW	9	2.00	Agree	12	2.58	Neutral	21	2.33	Agree		
	Pacific FW	20	2.00	Agree	13	2.69	Neutral	33	2.27	Agree		
	National/multiple FW/s	41	2.44	Agree	37	2.43	Agree	78	2.44	Agree		
	None	30	1.87	Agree	24	2.13	Agree	54	1.98	Agree		
q6: How long	0-1 yr	7	2.00	Agree	7	2.57	Neutral	14	2.29	Agree		
active in	2-5 yrs	16	2.56	Neutral	16	2.38	Agree	32	2.47	Agree		
waterfowl management?	6-10 yrs	16	2.25	Agree	13	2.62	Neutral	29	2.41	Agree		
-	11-20 yrs	30	2.00	Agree	31	2.39	Agree	61	2.20	Agree		
	21-30 yrs	41	2.20	Agree	26	2.19	Agree	67	2.19	Agree		
	>30 yrs	18	1.94	Agree	15	2.53	Neutral	33	2.13	Agree		
a7: Most	Agency/Executive director	17	1.94	-	13	2.23		30	2.27	- -		
g7: Most frequent	Program coordinator/admin	55	2.05	Agree Agree	46	2.24	Agree Agree	101	2.07	Agree Agree		
waterfowl mngt hat?	Program coordinator/admin Biologist/scientist	48	2.05		37	2.24	Agree Neutral	85	2.14	Agree Neutra		
		8		Agree								
	Researcher		2.00	Agree	10	2.40	Agree	18	2.22	Agree		
	Regulations committee member	1	2.00	Agree	2	2.00	Agree	3	2.00	Agree		
q8: I spend nost time:	Managing WF populations	33	2.52	Neutral	37	2.78	Neutral	70	2.66	Neutr		
	Managing habitat	42	1.90	Agree	39	2.13	Agree	81	2.01	Agree		
	Equal habitat/populations	16	2.44	Agree	9	2.22	Agree	25	2.36	Agree		
	None	38	2.00	Agree	23	2.30	Agree	61	2.11	Agree		
q9: How mportant a	Most important rec-activity	22	2.45	Agree	20	2.45	Agree	42	2.45	Agree		
recreational	1 of most important rec-activities	45	2.20	Agree	35	2.34	Agree	80	2.26	Agree		
activity is WF nunting to you?	No more important than others	18	2.11	Agree	18	2.44	Agree	36	2.28	Agree		
g .o you.	Less important than others	16	1.94	Agree	9	2.22	Agree	25	2.04	Agree		
	1 of least important rec-activities	2	2.00	Agree	2	2.00	Agree	4	2.00	Agree		
	Don't WF hunt	26	2.00	Agree	24	2.50	Neutral	50	2.24	Agree		

a. Based on rounded mean where 1=Strongly agree, 2=Agree, 3=Neutral, 4=Disagree, 5=Strongly disagree