

Table 1 Edmonton Feb 1-2, 2010	Suggestions for rewording objectives	Measurable Attributes
1. Promote a conservation ethic in the general public		
2. Maximize waterfowl harvest	Don't like Maximized. Sustained? Equitable?	
3. Maximize hunter satisfaction	Needs to be worded differently. What does this mean? What satisfies them? Moving target; how do you measure?	
4. Promote non-consumptive uses of waterfowl	add "and waterfowl habitats."	ability to measure landscape change - quantity and quality of habitat -some index of carrying capacity - waterfowl population size
5. Maintain landscapes capable of sustaining waterfowl populations in perpetuity	add "at goal levels." at what levels? More than minimum	
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 What does perpetuate mean? What do we mean by tradition?	to what end? - perpetuate vs preserve? at what levels?	Continued access to private land number of people who identify themselves as hunters hunting permit sales complaints from landowners
9. Minimize harvest of under-abundant waterfowl species don't like "minimize", what does underabundant mean?	focus on "sustainable"	
10. Minimize loss and degradation of wetlands and associated uplands	Maintain wetlands to sustain populations at goal levels. Maintain wetlands to maintain eco goods and services	
11. Provide more public hunting opportunities	Same as 3	
12. Minimize the detrimental effects of over-abundant populations (e.g. depredation, habitat destruction)	Yes, to a publicly acceptable level	

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	Suggestions for rewording objectives	Measureable Attributes
13. Maintain/establish regulations that are simple and will lead to high compliance rates among hunters	Develop/maintain; consistent with plan goals. Simple to understand how they are applied, just hunting or other? Hunters have responsibility	
14. Maintain healthy waterfowl populations as part of the North American fauna	How define healthy? Add "at goal levels"	measure of abundance and distribution; need a benchmark
15. Maximize ecological goods and services derived from wetlands and associated uplands managed for waterfowl	"Understand and promote" instead of "maximize" Means objective; doesn't have to be "managed"	
16. Increase public support for waterfowl conservation	okay	number and proportion supporting conservation increased/sustained public funding votes people make - expression of behavior, not just intentions
17. Increase waterfowl hunter participation	okay	
18. Ensure that no species of waterfowl falls below population levels necessary for long-term viability.	do at the very least	
19. Increase and improve duck breeding habitat	okay	
20. Ensure cooperation among jurisdictions (state, flyway, partners, etc.).	add "province" Not sure NAWMP can do it	
21. Increase and improve duck wintering habitat	okay. Not an overlap with 10	
22. Maximize the efficiency and effectiveness of the infrastructure and funding for waterfowl conservation	add human resources; "framework" works better than "infrastructure"	
23. Provide maximum hunting opportunity.	don't know what it means	
24. Maintain the social license to hunt	could be a big deal	
25. Increase duck recruitment		
26. Increase and improve duck migration habitat	similar to 19 and 2	

Table 1 Edmonton Feb 1-2, 2010	Suggestions for rewording objectives	Measureable Attributes
27. Reduce mortality from disease and contaminants	okay	
28. Maintain a broad fall and winter distribution of waterfowl	okay	
29. Establish the infrastructure needed to ensure coherence in waterfowl management	don't know what coherence means; same as cooperative	
30. Formalize the institutions needed to incorporate human dimensions into waterfowl management decisions	<del>Formalize the institutions needed to incorporate human dimensions into waterfowl management decisions</del>	
31. Increase hunter education and communications efforts	vague To what end? So they can understand simple regs?	
32. Collaborate/integrate NAWMP with other environmental initiatives.		
33 Ensure NAWMP is adaptable to long term changes in environmental conditions e.g. climate change		
34. Better understanding of the socio economic factors influencing changes in waterfowl habitat		
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Table 1 Edmonton Feb 1-2, 2010	Suggestions for rewording objectives	Measurable Attributes
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**Instructions for Table Discussions # 1**

*Actions: See the "foundational" list at the bottom.*

**Developing objectives:**

*Identify how to convert population objectives (14) into habitat objectives (5). Need to define healthy populations--what do we mean by that?*

Assign a recorder

*Obtain baseline--do a gap analysis--difference between what we have and what we need, then develop conservation actions (including maintaining what we have)*

Discuss the definitions of fundamental and means objectives to ensure common understanding. Examples can be discussed, but do not discuss the categorizing of each objective as a group as this is done in next process using TurningPoint.

Discuss the list of 31 candidate objectives and suggest re-wording for clarity, if necessary

Discuss and identify any additional objectives

Discuss potential measurable attributes

Table 2 Edmonton Feb. 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
1. Promote a conservation ethic in the general public		% of public that support waterfowl and wetlands
2. Maximize waterfowl harvest	Optimize waterfowl harvest.	Populations remain stable
3. Maximize hunter satisfaction	Optimize hunter satisfaction	% hunters expressing satisfaction
4. Promote non-consumptive uses of waterfowl		# of non-consumptive uses and users identified
5. Maintain landscapes capable of sustaining waterfowl populations in perpetuity	Replace with " Attain and maintain waterfowl populations"	
6. Increase the understanding of ecological mechanisms driving changes in waterfowl abundance and waterfowl landscapes		Increase in # of research papers identifying mechanisms
7. Expand the sources and amount of funding for waterfowl conservation activities		increased number of dollars and partners/funding sources
8. Perpetuate the tradition of waterfowling		% change (increase) in licenses sold
9. Minimize harvest of under-abundant waterfowl species	delete - refer to new #2 wording	
10. Minimize loss and degradation of wetlands and associated uplands		loss rates decrease
11. Provide more public hunting opportunities		increase # of acres as open to public hunting
12. Minimize the detrimental effects of over-abundant populations (e.g. depredation, habitat destruction)		no further increase; decrease in crop degradation and number of acres destroyed/degraded
13. Maintain/establish regulations that are simple and will lead to high compliance rates among hunters		higher compliant rates
14. Maintain healthy waterfowl populations as part of the North American fauna	Replace Maximize with "Quantify and Promote"	increase in wetland habitat

Table 2 Edmonton Feb. 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
15. Maximize ecological goods and services derived from wetlands and associated uplands managed for waterfowl		List of EG&S with dollar values attached. Increase in awareness of EG&S value
16. Increase public support for waterfowl conservation		
17. Increase waterfowl hunter participation		# of hunters
18. Ensure that no species of waterfowl falls below population levels necessary for long-term viability.		no populations become species at risk
19. Increase and improve duck breeding habitat	Redundant question, refer to # 5	increase in population. Increase in duck recruitment
20. Ensure cooperation among jurisdictions (state, flyway, partners, etc.).	add "provincial" binational e.g. binational "faster effective" cooperations and communication rather than "ensure"	full participation of jurisdictions in NAWMP meetings
21. Increase and improve duck wintering habitat	Redundant question, refer to # 5	Increase in # of birds (waterfowl populations)
22. Maximize the efficiency and effectiveness of the infrastructure and funding for waterfowl conservation	Achieve efficient and effective infrastructure funding for waterfowl conservation.	Better decision-making process. Increase in funding available (efficiency)
23. Provide maximum hunting opportunity.	redundant question 11	Increase in hunters
24. Maintain the social license to hunt	change "license" to "acceptance"	More hunters
25. Increase duck recruitment		Increase in populations
26. Increase and improve duck migration habitat	redundant question refer to 5	Increase in # birds

Table 2 Edmonton Feb. 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
27. Reduce mortality from disease and contaminants		decrease in mortality
*28. Maintain a broad fall and winter distribution of waterfowl	linked to hunter satisfaction	Maintain a stable populations. Increase in hunter satisfaction
29. Establish the infrastructure needed to ensure coherence in waterfowl management	redundant question #22, suggest adding "coherent" to #22	
30. Formalize the institutions needed to incorporate human dimensions into waterfowl management decisions	Clarify institutions establish the framework	Develop a framework. Increase in public support
31. Increase hunter education and communications efforts	increase hunter education (delete communication--move to #34)	Increase in public support
32. Increase the understanding of the role of human dimensions in waterfowl management decisions.		Understand role. Increase in public support
33 Increase stakeholder communications efforts		# of stakeholder communications
34 Increase restoration of wetlands and associated upland habitats		increase # of acres of wetlands restored
35 new objective Nawmp with other envt. Initiatives		increase efficient delivery of conservation programs
36 new objective NAWMP adaptations		Plans include important adaptation modelss
37 new objective hunter recruitment (?)		Increase in # of young/new hunters (first time)
38 new objective maximize harvest (of overabundant?)		No change in public support. Stable, viable populations.

Table 2 Edmonton Feb. 1-2, 2010	Suggestions for rewording objectives	Measureable Attributes
39 new objective Invasives		decrease invasive species
40 new objective engage landowners		increase conservation of waterfowl habitats. Increase acres conserved/secure.
41 new objective biodiversity		increase biodiversity on wetlands
42 new objective maintain land managers		Increased habitat conservaiton
43 new objective expand partnerships		increased funding. Increased # of partners
44. new objective Better understanding socioeconomic factors		Increased public support. Understand role

**Instructions for Table Discussions # 1**

**Developing objectives:**

Assign a recorder

Discuss the definitions of fundamental and means objectives to ensure common understanding. Examples can be dicussed, but do not discuss the categorizing of each objective as a group as this is done in next process using TurningPoint.

Discuss the list of 31 candidate objectives and suggest re-wording for clarity, if necessary

Discuss and identify any additional objectives

Discuss potential measurable attributes



Table 3 Edmonton Feb 1-2, 2010	Suggestions for rewording objectives	Measureable Attributes
1. Promote a conservation ethic in the general public		% public supporting conservation policy and funding
2. Maximize waterfowl harvest		
3. Maximize hunter satisfaction		
4. Promote non-consumptive uses of waterfowl		Participation levels and expenditures for non-consumptive uses
5. Maintain landscapes capable of sustaining waterfowl populations in perpetuity	Maintain and restore	landuse condition, net land-use change
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		

Table 3 Edmonton Feb 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
15. Maximize ecological goods and services derived from wetlands and associated uplands managed for waterfowl		
16. Increase public support for waterfowl conservation		funding levels, gov and non-gov, hunter participation/license sales public/political support for policy, for conservation d
17. Increase waterfowl hunter participation		
18. Ensure that no species of waterfowl falls below population levels necessary for long-term viability.		long term ???; no species over abundant, no species underabundant
19. Increase and improve duck breeding habitat		
20. Ensure cooperation among jurisdictions (state, flyway, partners, etc.).		
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		

Table 3 Edmonton Feb 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
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		
32. Maximize conservation of biodiversity while managing wetlands and associated uplands for waterfowl		
33. Maintain and establish land managers' support for conserving wetlands and associated wetlands		
34. Expand partnerships that fund and deliver waterfowl conservation initiatives		
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Table 4 Edmonton Feb 1-2, 2010	Suggestions for rewording objectives	Measureable Attributes
1. Promote a conservation ethic in the general public	Optimize	set baselive via survey, assess
2. Maximize waterfowl harvest		population goals/sustainability are achieved
3. Maximize hunter satisfaction		license sales, hunter satisfaction
4. Promote non-consumptive uses of waterfowl	Maximize	public survey, ecotourism revenue analysis
5. Maintain landscapes capable of sustaining waterfowl populations in perpetuity	Ensure	population surveys, habitat inventory (GOS)
6. Increase the understanding of ecological mechanisms driving changes in waterfowl abundance and waterfowl landscapes	Improve	# publications, funding, application of research
7. Expand the sources and amount of funding for waterfowl conservation activities		\$ in the bank
8. Perpetuate the tradition of waterfowling		# hunters/survey
9. Minimize harvest of under-abundant waterfowl species		harvest data/regulations
10. Minimize loss and degradation of wetlands and associated uplands		GIS mapping
11. Provide more public hunting opportunities		Increased access, license sales, regulations
12. Minimize the detrimental effects of over-abundant populations (e.g. depredation, habitat destruction)	add crop to depredation	population management, habitat assessment, # complaints, damage
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		population surveys

Table 4 Edmonton Feb 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
15. Maximize ecological goods and services derived from wetlands and associated uplands managed for waterfowl	maintain	assess research and applications, GIS information
16. Increase public support for waterfowl conservation		survey
17. Increase waterfowl hunter participation		sales of licenses
18. Ensure that no species of waterfowl falls below population levels necessary for long-term viability.		population surveys
19. Increase and improve duck breeding habitat	Optimize waterfowl breeding habitat	inventory and GIS work
20. Ensure cooperation among jurisdictions (state, flyway, partners, etc.).	Promote cooperation among stakeholders	evaluate progress towards a joint implementation plan
21. Increase and improve duck wintering habitat	Optimize waterfowl wintering habitat	GIS mapping
22. Maximize the efficiency and effectiveness of the infrastructure and funding for waterfowl conservation		progress towards joint plan ; \$ [something] (ROI)
23. Provide maximum hunting opportunity.		hunter days analysis, hunter survey
24. Maintain the social license to hunt		evaluate positive/negative legislation across jurisdictions
25. Increase duck recruitment	Optimize waterfowl recruitment	population surveys
26. Increase and improve duck migration habitat	Optimize	GIS, harvest surveys

Table 4 Edmonton Feb 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
27. Reduce mortality from disease and contaminants	Minimize	science data
28. Maintain a broad fall and winter distribution of waterfowl		population data/harvest surveys
29. Establish the infrastructure needed to ensure coherence in waterfowl management		new NAWMP revision plan
30. Formalize the institutions needed to incorporate human dimensions into waterfowl management decisions		new NAWMP revision plan
31. Increase hunter education and communications efforts		better compliance, increased hunters
32 Effective management/control of non-native invasive waterfowl and plant species		
33 Increased engagement with private landowners		
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Table 5 Edmonton Feb 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
1. Promote a conservation ethic in the general public	reword to "instill" to make this an objective	increase in political support, increase in public funding, increase in private funding, increase social attitudes
2. Maximize waterfowl harvest	Waterfowl harvest at maximum sustainable yield	MSY
3. Maximize hunter satisfaction		hunter surveys
4. Promote non-consumptive uses of waterfowl	reword to "Maximize" to make this an objective	naturalist surveys
5. Maintain landscapes capable of sustaining waterfowl populations in perpetuity		waterfowl productivity model, habitat inventory
6. Increase the understanding of ecological mechanisms driving changes in waterfowl abundance and waterfowl landscapes		greater precision in predictive models
7. Expand the sources and amount of funding for waterfowl conservation activities		measure dollars, number of contributors
8. Perpetuate the tradition of waterfowling	maintain waterfowl hunting	# of license sales
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)		measures commensurate with the types of impacts
13. Maintain/establish regulations that are simple and will lead to high compliance rates among hunters	Increase compliance rates among hunters	
14. Maintain healthy waterfowl populations as part of the North American fauna		PBOP est

Table 5 Edmonton Feb 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
15. Maximize ecological goods and services derived from wetlands and associated uplands managed for waterfowl	combine with 5?	
16. Increase public support for waterfowl conservation		\$ and political support
17. Increase waterfowl hunter participation	l	increased license sales
18. Ensure that no species of waterfowl falls below population levels necessary for long-term viability.		no ESA./SARA listings
19. Increase and improve duck breeding habitat		
20. Ensure cooperation among jurisdictions (state, flyway, partners, etc.).		
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	ensure hunting is perceived as a socially acceptable activity	
25. Increase duck recruitment		
26. Increase and improve duck migration habitat		



Table 5 Edmonton Feb 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
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		
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Table 6 Edmonton Feb. 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
1. Promote a conservation ethic in the general public		percent of Canadians who rank the environment as important increases above 2010 levels
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		Monitor waterfowl populations. A proportion of landscape habitat objectives are achieved.
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	similar to Edmonton #43	number partners increases over 2010 levels (plus same as 16)
8. Perpetuate the tradition of waterfowling		Number of hunting licenses sold in Canada
9. Minimize harvest of under-abundant waterfowl species		
10. Minimize loss and degradation of wetlands and associated uplands		Supports 5
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		A proportion of waterfowl distribution and population objectives are met

Table 6 Edmonton Feb. 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
15. Maximize ecological goods and services derived from wetlands and associated uplands managed for waterfowl		5
16. Increase public support for waterfowl conservation		Required funding is achieved for NAWMP to succeed/
17. Increase waterfowl hunter participation		
18. Ensure that no species of waterfowl falls below population levels necessary for long-term viability.		A componant in support of # 5
19. Increase and improve duck breeding habitat		5
20. Ensure cooperation among jurisdictions (state, flyway, partners, etc.).		
21. Increase and improve duck wintering habitat		
22. Maximize the efficiency and effectiveness of the infrastructure and funding for waterfowl conservation		16
23. Provide maximum hunting opportunity.		
24. Maintain the social license to hunt		Number of provinces that pass tradition-of-hunting legislation
25. Increase duck recruitment		14
26. Increase and improve duck migration habitat		5

Table 6 Edmonton Feb. 1-2, 2010

	Suggestions for rewording objectives	Measureable Attributes
27. Reduce mortality from disease and contaminants		14
28. Maintain a broad fall and winter distribution of waterfowl		14 and 5
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		
32 Maximize harvest of overabundant species while maintaining public support		9, 12, 18
33 Minimize impediments to new hunter recruitment		11
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