

Disclaimer

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Tables of Monitoring Priorities for Human Well Being (December 2008)

prepared for
Ecosystem Based Management Working Group

by
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Key to Tables of Monitoring Priorities

Column Heading	Description of Heading and Contents of Column
Goal	goal stated in land-use plan.
Objective	objective from illustrative Knowledge Summary.
Indicator	indicator derived from strategy in illustrative Knowledge Summary.
Scope	not used
Goal Uncertainty	uncertainty about achieving goal even if objectives are achieved: high uncertainty usually indicates that external factors influence goal (H igh, M edium, L ow).
Importance Score	
Goal Influence	the degree of influence that a goal has on other goals (3 influences ≥ 4 goals, 2 influences 2 or 3 goals, 1 influences ≤ 1 goal).

Objective Influence	for a given goal, some objectives influence the goal more than others (3=high influence, 2=medium, 1=low).
Recovery Period	not used
Strategy Influence	for a given objective, some strategies influence the goal more than others (3=high influence, 2=medium, 1=low).
Importance Score	variable used to rank monitoring topics within priority classes (see below); calculated as the sum of goal influence, objective influence and recovery period; objectives with higher importance scores have higher priority for monitoring.
Collect Data	
Current Priority	priority for collecting current indicator data; 1 = data do not exist and cannot be estimated, 2 = data do not exist but can be estimated, ✓ = data exist (smaller numbers indicate higher priority).
Ease of collecting data	not used
Future Priority	priority for setting indicator targets; 1 = targets do not exist and future state cannot be estimated, 2 = targets do not exist but future state can be estimated, ✓ = targets exist (smaller numbers indicate higher priority).
Probability of Success ± Uncertainty	
Current P(S) ± U	uncertainties not estimated
Future P(S) ± U	future probability of success (Low, Medium, High) and uncertainty (Low, Medium, High).
Reduce Uncertainty	
Current Priority	not used
Future Priority	priority for reducing uncertainty around future risk estimate (1=high, 2=medium, 3=low), based on future R ± U (see Framework).
Overall Priority	not used
Ease of Monitoring	not used
Detect Consequences	
Current Priority	not used
Future Priority	priority for detecting consequences on future landscape (1=high, 2=medium, 3=low), based on future R ± U (see Framework).
Overall Priority	not used
Ease of Monitoring	not used

Goal

Objective

Indicator

Abbreviation

Economic Diversification

Shellfish Aquaculture

% of spat from new hatchery
Number of site tenures meeting optimal criteria
Raft depth - variance from optimum
Number of predation control measures implemented
Variance of scallop size in grow out bags
Communications effort
Training
Quality Assurance
Volume sold

**Econ Divers
S Aquaculture**

% new hatchery
optimal sites
raft depth var
predation control
scallop size var
communications effort
training
QC
volume

Tourism

Number / scale of benefit sharing agreements
Seasonal occupancy rates for accommodation
Range of supplementary tourism services
Number of mooring pennants close to services

Tourism

agreements
occ rates
range of services
pennants

Sustain cultural / traditional resources for First Nations domestic use

Improve access to traditional sites and resources

Number of valuable cultural resource sites identified
Area protected or actively managed for cultural resources
Improve infrastructure (trails, cabins)

Strengthen First Nations' knowledge in cultural context

Extent of documentation of traditional knowledge
Investment in community cultural programs
Classroom hours devoted to First Nations cultural knowledge in schools

Increase use of cultural and traditional resources

Number of community events featuring traditional foods
Organized collection and sharing of traditional resources
Investment in cultural objects

Cultural res

Access

sites
area protected
infrastructure

Knowledge

documentation
program investment
classroom hours

Use

events
organized collection
cultural objects

Raw data used to determine monitoring priorities				Secondary Score (bigger # = higher)								Prob. of Success								
				Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Strategy influence	Secondary Score	Planning priority	Current Priority	Ease of Collecting	Current PS ± U	Future PS ± U	Current Priority	Future Priority	Overall Priority	Ease of Monitorin	Current Priority	Future Priority
Goal	Objective	Indicator	Scope																	
Econ Divers	S Aquaculture	% new hatchery		L	3	2	2	7	✓	✓		L	H ± M	2	-		3	-		
Econ Divers	S Aquaculture	# optimal sites		L	3	2	3	8	✓	✓		H	H ± L	3			3			
Econ Divers	S Aquaculture	raft depth var		L	3	2	3	8	1	2		?	H ± M	2			3			
Econ Divers	S Aquaculture	# predation control		L	3	2	3	8	1	2		?	H ± H	1			2			
Econ Divers	S Aquaculture	scallop size var		L	3	2	3	8	✓	2		H	H ± L	3			3			
Econ Divers	S Aquaculture	communications effort		L	3	2	2	7	✓	2		L	H ± H	1			2			
Econ Divers	S Aquaculture	training		L	3	2	2	7	✓	✓		L	H ± H	1			2			
Econ Divers	S Aquaculture	QC		L	3	2	3	8	✓	✓		L	H ± M	2			3			
Econ Divers	S Aquaculture	volume		L	3	2	3	8	✓	✓		L	H ± M	2			3			
Econ Divers	Tourism	# agreements		L	3	2	3	8	✓	✓		L	H ± L	3			3			
Econ Divers	Tourism	occ rates		L	3	2	2	7	✓	1		?	H ± L	3			3			
Econ Divers	Tourism	range of services		L	3	2	1	6	✓	✓		L	H ± H	1			2			
Econ Divers	Tourism	# pennants		L	3	2	1	6	✓	✓		L	H ± H	1			2			
Cultural Re:	Access	# sites		M	3	3	2	8	✓	✓		L	H ± M	2			3			
Cultural Re:	Access	area protected		M	3	3	2	8	✓	2		L	H ± L	3			3			
Cultural Re:	Access	infrastructure		M	3	3	2	8	✓	✓		L	M ± H	1			2			
Cultural Re:	Knowledge	documentation		M	3	3	3	9	✓	1		L	L ± H	1			2			
Cultural Re:	Knowledge	program investment		M	3	3	2	8	✓	✓		L	M ± H	1			2			
Cultural Re:	Knowledge	classroom hours		M	3	3	2	8	✓	2		L	M ± H	1			2			
Cultural Re:	Use	# events		M	3	2	2	7	✓	2		M	M ± H	1			2			
Cultural Re:	Use	organized collection		M	3	2	2	7	✓	✓		L	H ± L	3			3			
Cultural Re:	Use	cultural objects		M	3	2	2	7	✓	2		M	L ± L	3			1			

Priority to set targets				Secondary Score (bigger # = higher priority)						
Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Strategy influence	Secondary Score	Planning priority
Econ Divers	S Aquaculture	raft depth var		L	3	2	3	8	1	
Econ Divers	S Aquaculture	# predation control		L	3	2	3	8	1	
Cultural Res	Knowledge	documentation		M	3	3	3	9	✓	
Cultural Res	Access	# sites		M	3	3	2	8	✓	
Cultural Res	Access	area protected		M	3	3	2	8	✓	
Cultural Res	Access	infrastructure		M	3	3	2	8	✓	
Cultural Res	Knowledge	program investment		M	3	3	2	8	✓	
Cultural Res	Knowledge	classroom hours		M	3	3	2	8	✓	
Econ Divers	S Aquaculture	# optimal sites		L	3	2	3	8	✓	
Econ Divers	S Aquaculture	scallop size var		L	3	2	3	8	✓	
Econ Divers	S Aquaculture	QC		L	3	2	3	8	✓	
Econ Divers	S Aquaculture	volume		L	3	2	3	8	✓	
Econ Divers	Tourism	# agreements		L	3	2	3	8	✓	
Econ Divers	S Aquaculture	% new hatchery		L	3	2	2	7	✓	
Econ Divers	S Aquaculture	communications effort		L	3	2	2	7	✓	
Econ Divers	S Aquaculture	training		L	3	2	2	7	✓	
Econ Divers	Tourism	occ rates		L	3	2	2	7	✓	
Cultural Res	Use	# events		M	3	2	2	7	✓	
Cultural Res	Use	organized collection		M	3	2	2	7	✓	
Cultural Res	Use	cultural objects		M	3	2	2	7	✓	
Econ Divers	Tourism	range of services		L	3	2	1	6	✓	
Econ Divers	Tourism	# pennants		L	3	2	1	6	✓	

Priority to collect data				Secondary Score (bigger # = higher priority)					Collect Data		
Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Strategy influence	Secondary Score	Current Priority	Ease of Collecting Data
Cultural Res	Knowledge	documentation		M	3	3	3	9	1		
Econ Divers	Tourism	occ rates		L	3	2	2	7	1		
Cultural Res	Access	area protected		M	3	3	2	8	2		
Cultural Res	Knowledge	classroom hours		M	3	3	2	8	2		
Econ Divers	S Aquaculture	raft depth var		L	3	2	3	8	2		
Econ Divers	S Aquaculture	# predation control		L	3	2	3	8	2		
Econ Divers	S Aquaculture	scallop size var		L	3	2	3	8	2		
Econ Divers	S Aquaculture	communications effort		L	3	2	2	7	2		
Cultural Res	Use	# events		M	3	2	2	7	2		
Cultural Res	Use	cultural objects		M	3	2	2	7	2		
Cultural Res	Access	# sites		M	3	3	2	8	✓		
Cultural Res	Access	infrastructure		M	3	3	2	8	✓		
Cultural Res	Knowledge	program investment		M	3	3	2	8	✓		
Econ Divers	S Aquaculture	# optimal sites		L	3	2	3	8	✓		
Econ Divers	S Aquaculture	QC		L	3	2	3	8	✓		
Econ Divers	S Aquaculture	volume		L	3	2	3	8	✓		
Econ Divers	Tourism	# agreements		L	3	2	3	8	✓		
Econ Divers	S Aquaculture	% new hatchery		L	3	2	2	7	✓		
Econ Divers	S Aquaculture	training		L	3	2	2	7	✓		
Cultural Res	Use	organized collection		M	3	2	2	7	✓		
Econ Divers	Tourism	range of services		L	3	2	1	6	✓		
Econ Divers	Tourism	# pennants		L	3	2	1	6	✓		

Priority to reduce uncertainty				Prob. of Success ± Uncertainty Reduce Uncertainty								
Goal	Objective	Indicator	Scope	Secondary Score	Planning priority	Priority to collect data	Current PS ± U	Future PS ± U	Current Priority	Future Priority	Overall Priority	Ease of Monitoring
Cultural Res	Knowledge	documentation		9	✓	1	L	L ± H		1		
Cultural Res	Access	infrastructure		8	✓	✓	L	M ± H		1		
Cultural Res	Knowledge	program investment		8	✓	✓	L	M ± H		1		
Cultural Res	Knowledge	classroom hours		8	✓	2	L	M ± H		1		
Econ Divers	S Aquaculture	# predation control		8	1	2	?	H ± H		1		
Econ Divers	S Aquaculture	communications effort		7	✓	2	L	H ± H		1		
Econ Divers	S Aquaculture	training		7	✓	✓	L	H ± H		1		
Cultural Res	Use	# events		7	✓	2	M	M ± H		1		
Econ Divers	Tourism	range of services		6	✓	✓	L	H ± H		1		
Econ Divers	Tourism	# pennants		6	✓	✓	L	H ± H		1		
Cultural Res	Access	# sites		8	✓	✓	L	H ± M		2		
Econ Divers	S Aquaculture	raft depth var		8	1	2	?	H ± M		2		
Econ Divers	S Aquaculture	QC		8	✓	✓	L	H ± M		2		
Econ Divers	S Aquaculture	volume		8	✓	✓	L	H ± M		2		
Econ Divers	S Aquaculture	% new hatchery		7	✓	✓	L	H ± M		2		
Cultural Res	Access	area protected		8	✓	2	L	H ± L		3		
Econ Divers	S Aquaculture	# optimal sites		8	✓	✓	H	H ± L		3		
Econ Divers	S Aquaculture	scallop size var		8	✓	2	H	H ± L		3		
Econ Divers	Tourism	# agreements		8	✓	✓	L	H ± L		3		
Econ Divers	Tourism	occ rates		7	✓	1	?	H ± L		3		
Cultural Res	Use	organized collection		7	✓	✓	L	H ± L		3		
Cultural Res	Use	cultural objects		7	✓	2	M	L ± L		3		
				0						-		
				0						-		
				0						-		
				0						-		

Priority to detect consequences				Prob. of Success ± Uncertainty Detect Consequences								
Goal	Objective	Indicator	Scope	Secondary Score	Planning priority	Priority to collect data	Current PS ± U	Future PS ± U	Current Priority	Future Priority	Overall Priority	Ease of Monitoring
Cultural Res	Use	cultural objects		7	✓	2	M	L ± L			1	
Cultural Res	Knowledge	documentation		9	✓	1	L	L ± H			2	
Cultural Res	Access	infrastructure		8	✓	✓	L	M ± H			2	
Cultural Res	Knowledge	program investment		8	✓	✓	L	M ± H			2	
Cultural Res	Knowledge	classroom hours		8	✓	2	L	M ± H			2	
Econ Divers	S Aquaculture	# predation control		8	1	2	?	H ± H			2	
Econ Divers	S Aquaculture	communications effort		7	✓	2	L	H ± H			2	
Econ Divers	S Aquaculture	training		7	✓	✓	L	H ± H			2	
Cultural Res	Use	# events		7	✓	2	M	M ± H			2	
Econ Divers	Tourism	range of services		6	✓	✓	L	H ± H			2	
Econ Divers	Tourism	# pennants		6	✓	✓	L	H ± H			2	
Cultural Res	Access	# sites		8	✓	✓	L	H ± M			3	
Cultural Res	Access	area protected		8	✓	2	L	H ± L			3	
Econ Divers	S Aquaculture	# optimal sites		8	✓	✓	H	H ± L			3	
Econ Divers	S Aquaculture	raft depth var		8	1	2	?	H ± M			3	
Econ Divers	S Aquaculture	scallop size var		8	✓	2	H	H ± L			3	
Econ Divers	S Aquaculture	QC		8	✓	✓	L	H ± M			3	
Econ Divers	S Aquaculture	volume		8	✓	✓	L	H ± M			3	
Econ Divers	Tourism	# agreements		8	✓	✓	L	H ± L			3	
Econ Divers	S Aquaculture	% new hatchery		7	✓	✓	L	H ± M			3	
Econ Divers	Tourism	occ rates		7	✓	1	?	H ± L			3	
Cultural Res	Use	organized collection		7	✓	✓	L	H ± L			3	
				0							-	
				0							-	
				0							-	
				0							-	
				0							-	

