

Appendix 3:

Tables of

Monitoring Priorities

(January 2005)

prepared for
Babine Monitoring Trust Governance Design Group

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27-Jan-05

List of Tables

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Key for Table Headings (see Framework for details)

Column Heading	Description of Heading and Contents of Column
Goal	goal stated in land-use plan.
Objective	objective stated in land use plan.
Indicator	indicator stated or indicator derived from strategy stated in land use plan.
Scope	geographic area to which objective and indicator apply (see Table of scope codes below).
Goal Uncertainty	uncertainty about achieving goal even if objectives are achieved: high uncertainty usually indicates that external factors influence goal (1=high, 2=medium, 3=low).
Secondary Score	
Goal Influence	the degree of influence that a goal has on other goals (1 influences ≥ 4 goals, 2 influences 2 or 3 goals, 3 influences ≤ 1 goal).
Objective Influence	for a given goal, some objectives influence the goal more than others (1=high influence, 2=medium, 3=low); influence scores are assigned so that the average score for all objectives for a given goal equals 2 (approx.), providing consistency among goals.

Recovery Period	lag time for objective to recover after negative impacts cease (1=recovery > 100 yr, 2=recovery ranges from 10 to 100 yr, 3=recovery < 10 yr).
Secondary 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 lower secondary 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	Easy, Moderate, Difficult, Very Difficult.
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).
Risk ± Uncertainty	
Current R ± U	current risk (Low, Medium, High) and uncertainty (Low, Medium, High).
Future R ± U	future risk (Low, Medium, High) and uncertainty (Low, Medium, High).
Reduce Uncertainty	
Current Priority	priority for reducing uncertainty around current risk estimate (1=high, 2=medium, 3=low), based on current R ± U (see Framework).
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	combined current and future priority for reducing uncertainty around risk curve (1=high, 2=medium, 3=low, 4=very low); weights future priority more.
Ease of Monitoring	Easy, Moderate, Difficult, Very Difficult, Not Resolvable.
Detect Consequences	
Current Priority	priority for detecting consequences on current landscape (1=high, 2=medium, 3=low), based on current R ± U (see Framework).
Future Priority	priority for detecting consequences on future landscape (1=high, 2=medium, 3=low), based on future R ± U (see Framework).
Overall Priority	combined current and future priority for detecting consequences (1=high, 2=medium, 3=low, 4=very low); weights current priority more.
Ease of Monitoring	Easy, Moderate, Difficult, Very Difficult, Not Resolvable.

Codes Describing Geographic Scope

Codes	Description of Codes
B	Bulkley portion of Babine River Watershed
K	Kispiox portion of Babine River Watershed
BB	Bulkley Portion, Babine Landscape Unit
BN	Bulkley Portion, Nilkitkwa Landscape Unit
B, K	Bulkley and Kispiox portions (i.e., all) of the Babine River Watershed
Atna	Atna / Shelagyote Special Management Zone
ESSF	Engelmann Spruce Subalpine Fir Biogeoclimatic Zone
SBS	Sub-Boreal Spruce Biogeoclimatic Zone
special ws	refers to a few different watersheds (see Knowledge Base for details)
most ws	most watersheds analysed
LRC	Landscape Riparian Corridors
S3	medium-sized (1.5 – 5m) streams with fish (Forest Practices and Range Act)
S4	small (< 1.5m) streams with fish (Forest Practices and Range Act)
Kotsine	Kotsine Pass
Park	Babine River Corridor Park
Park node and weir	the tourism node and the fish weir in the Babine River Corridor Park
Park other	the portion of the Babine River Corridor Park not included in the node and weir
Hanawald Shed	Hanawald and Shed in watersheds
Gail, Nilkit, Nichy	Gail, Nilkitkwa and Nichyeskwa watersheds
other ws	watersheds other than Hanawald, Shed, Gail, Nilkitkwa and Nichyeskwa

Priority for collecting indicator data				Secondary Score					Collect Data		
Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Secondary Score	Current Priority	Ease of Collecting Data	Future Priority
Biodiversity	Stand structure	% natural	B, K	2	1	1	1	3	1	M	1
Fish	Habitat	% natural riparian	K	3	1	1.5	1	3.5	1	M	1
Biodiversity	Rare ecosystems	% of natural	B	2	1	2	1	4	1	M	✓
Biodiversity	Rare ecosystems	% of natural	K	2	1	2	1	4	1	M	✓
Biodiversity	Riparian	% alteration	B	2	1	2	1	4	1	M	1
Biodiversity	Riparian	% alteration	K	2	1	2	1	4	1	M	✓
Water	Quality	landslides	B	2	1	1.5	2	4.5	1	M	1
Water	Quality	landslides	K	2	1	1.5	2	4.5	1	M	✓
Water	Quality	stream crossings	B	2	1	1.5	2	4.5	1	E	1
Water	Quality	stream crossings	K	2	1	1.5	2	4.5	1	E	✓
Water	Quality	planning	B	2	1	1.5	2	4.5	1	E	1
Water	Quality	planning	K	2	1	1.5	2	4.5	1	E	✓
Fish	Bull trout	distance to bridge	B	3	1	2.5	1	4.5	1	E	1
Fish	Bull trout	distance to bridge	K	3	1	2.5	1	4.5	1	E	✓
Fish	Bull trout	% habitat protected	B	3	1	2.5	1	4.5	1	D	1
Fish	Bull trout	% habitat protected	K	3	1	2.5	1	4.5	1	D	1
Fish	Steelhead	repeated capture	Park	3	1	2.5	1	4.5	1	E	1
Grizzly Bears	Interaction	road density	Hanawald, Shedin	2.5	2	1.5	1	4.5	1	E	✓
Grizzly Bears	Interaction	road density	B, K (other ws)	2.5	2	1.5	1	4.5	1	E	1
Grizzly Bears	Interaction	screening	B, K	2.5	2	1.5	1	4.5	1	M	1
Grizzly Bears	Interaction	Education	B, K	2.5	2	1.5	1	4.5	1	E	1
Biodiversity	Deciduous	% of natural	B	2	1	2	2	5	1	E	1
Biodiversity	Deciduous	% of natural	K	2	1	2	2	5	1	E	1
Wildlife	Wildlife	% wildlife areas in ETD	B	3	2	2	1	5	1	E	✓
Water	Flow	ECA %	K	2	1	2.5	2	5.5	1	E	✓
Timber	Salvage	% susceptible	K	2	3	1	2	6	1	M-D	2
Timber	Salvage	% controlled	K	2	3	1	2	6	1	M-D	1
Timber	Salvage	% salvaged	B	1	3	1	2	6	1	M-D	1
Timber	Salvage	% salvaged	K	2	3	1	2	6	1	M-D	1
Biodiversity	Connectivity	% winter logging	B	2	1	3	2	6	1	E	1
Biodiversity	Connectivity	% winter logging	K	2	1	3	2	6	1	E	✓
Goats	Habitat	% unmodified (<200m)	K	1.5	3	2	1	6	1	E	1
Goats	Population	road density (< 1 km)	K	1.5	3	2	1	6	1	E	1
Goats	Population	harvest during natal	K	1.5	3	2	1	6	1	E	1
Tourism/Rec	Backcountry	amount primitive	K	2	3	2	1	6	1	E	1
Botanical	Pine Mushrooms	% mature 01b sites	K	2	3	2	2	7	1	E-M	✓
Tourism/Rec	Gunanoot Lake	visual quality	K	2	3	3	1	7	1	E	✓
Grizzly Bears	Disruption	harvesting	K	2.5	2	2.5	2.5	7	1	E-M	✓
Timber	Growth	% old stands	K	2	3	2	2.5	7.5	1	E	1
Botanical	Huckleberries	% sunlight	K	2	3	2	2.5	7.5	1	E	✓
Botanical	Huckleberries	% soil & veg disturbance	K	2	3	2	2.5	7.5	1	E	1
Tourism/Rec	Access to Rec	inaccessible destinations	K	2	3	2	3	8	1	E	1
Biodiversity	Natural seral	% of natural old seral	K	2	1	1	1	3	2	E	✓
Biodiversity	Natural seral	% of natural old & mature	K	2	1	1	1	3	2	E	✓
Fish	Habitat	% natural riparian	BB (S3)	3	1	1.5	1	3.5	2	M	1
Fish	Habitat	% natural riparian	BB (S4)	3	1	1.5	1	3.5	2	M	1
Fish	Habitat	% natural riparian	BN (S3)	3	1	1.5	1	3.5	2	M	1
Fish	Habitat	% natural riparian	BN (S4)	3	1	1.5	1	3.5	2	M	1
Biodiversity	Core ecosystems	% alteration	K	2	1	3	1	5	2	E	✓
Biodiversity	Tree species	% of natural	BB	2	1	2	2	5	2	E	2
Biodiversity	Tree species	% of natural	BN	2	1	2	2	5	2	E	2
Biodiversity	Tree species	% of natural	K	2	1	2	2	5	2	E	2
Biodiversity	Pattern	% natural (biggest patch)	K (ESSF)	2	1	3	1	5	2	E	✓
Timber	Salvage	% controlled	B	1	3	1	2	6	2	M-D	1
Biodiversity	Connectivity	% mature & old	BB	2	1	3	2	6	2	E	1
Biodiversity	Connectivity	% mature & old	BN	2	1	3	2	6	2	E	1
Biodiversity	Connectivity	% mature & old	K	2	1	3	2	6	2	E	✓

Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Secondary Score	Current Priority	Ease of Collecting Data	Future Priority
Goats	Habitat	forested connectors	BN (Kotsine)	1.5	3	2	1	6	2	E	✓
Tourism/Rec	Aesthetics	visual quality	B (Park other)	2	3	1	2	6	2	E-M	2
Tourism/Rec	Aesthetics	visual quality	K (Park other)	2	3	1	2	6	2	E-M	✓
Tourism/Rec	Aesthetics	auditory disturbance	Park	2	3	1	2	6	2	E-M	✓
Tourism/Rec	Backcountry	road density	B, K (SMZs)	2	3	2	1	6	2	-	✓
Grizzly Bears	Habitat	% critical & high	BB	2.5	2	2	2	6	2	E	✓
Grizzly Bears	Habitat	% critical & high	BN	2.5	2	2	2	6	2	E	✓
Grizzly Bears	Habitat	% critical & high	K	2.5	2	2	2	6	2	E	✓
Visual	VQOs in Scenic	% alteration in R	B, K	2	3	2	2	7	2	E	2
Visual	VQOs in Scenic	% alteration in PR	B, K	2	3	2	2	7	2	E	2
Visual	VQOs in Scenic	% alteration in M	B, K	2	3	2	2	7	2	E	2
Visual	Scenery in Atna	% denuded	K (Atna)	2	3	2	2	7	2	E	2
Tourism/Rec	Sustainable use	access points	K (Park)	2	3	2	2	7	2	E	2
Tourism/Rec	Gunanoot Lake	road (m) within 1 km	K	2	3	3	1	7	2	E	✓
Grizzly Bears	Disruption	other activities	B, K	2.5	2	2.5	2.5	7	2	E-M	2
Timber	Growth	% old stands	B	1	3	2	2.5	7.5	2	E	2
Timber	Growth	% reforested	K	2	3	2	2.5	7.5	2	E	2
Timber	ETDA	% improved stock	B	1	3	3	2	8	2	E	1
Timber	ETDA	% thinned & pruned	B	1	3	3	2	8	2	E	1
Timber	ETDA	% commercially thinned	B	1	3	3	2	8	2	E	1

Priority for setting indicator targets				Secondary Score					Collect Data	
Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Secondary Score	Current Priority	Future Priority
Biodiversity	Stand structure	% natural	B, K	2	1	1	1	3	1	1
Fish	Habitat	% natural riparian	BB (S3)	3	1	1.5	1	3.5	2	1
Fish	Habitat	% natural riparian	BB (S4)	3	1	1.5	1	3.5	2	1
Fish	Habitat	% natural riparian	BN (S3)	3	1	1.5	1	3.5	2	1
Fish	Habitat	% natural riparian	BN (S4)	3	1	1.5	1	3.5	2	1
Fish	Habitat	% natural riparian	K	3	1	1.5	1	3.5	1	1
Biodiversity	Riparian	% alteration	B	2	1	2	1	4	1	1
Water	Quality	landslides	B	2	1	1.5	2	4.5	1	1
Water	Quality	stream crossings	B	2	1	1.5	2	4.5	1	1
Water	Quality	planning	B	2	1	1.5	2	4.5	1	1
Fish	Bull trout	distance to bridge	B	3	1	2.5	1	4.5	1	1
Fish	Bull trout	% habitat protected	B	3	1	2.5	1	4.5	1	1
Fish	Bull trout	% habitat protected	K	3	1	2.5	1	4.5	1	1
Fish	Steelhead	repeated capture	Park	3	1	2.5	1	4.5	1	1
Grizzly Bears	Interaction	road density	Gail, Nilkit, Nichey	2.5	2	1.5	1	4.5	✓	1
Grizzly Bears	Interaction	road density	B, K (other ws)	2.5	2	1.5	1	4.5	1	1
Grizzly Bears	Interaction	screening	B, K	2.5	2	1.5	1	4.5	1	1
Grizzly Bears	Interaction	Education	B, K	2.5	2	1.5	1	4.5	1	1
Biodiversity	Deciduous	% of natural	B	2	1	2	2	5	1	1
Biodiversity	Deciduous	% of natural	K	2	1	2	2	5	1	1
Water	Flow	ECA %	B (most ws)	2	1	2.5	2	5.5	✓	1
Water	Flow	ECA %	B (special ws)	2	1	2.5	2	5.5	✓	1
Timber	Salvage	% controlled	B	1	3	1	2	6	2	1
Timber	Salvage	% controlled	K	2	3	1	2	6	1	1
Timber	Salvage	% salvaged	B	1	3	1	2	6	1	1
Timber	Salvage	% salvaged	K	2	3	1	2	6	1	1
Biodiversity	Connectivity	% mature & old	BB	2	1	3	2	6	2	1
Biodiversity	Connectivity	% mature & old	BN	2	1	3	2	6	2	1
Biodiversity	Connectivity	% winter logging	B	2	1	3	2	6	1	1
Goats	Habitat	% unmodified (<200m)	K	1.5	3	2	1	6	1	1
Goats	Population	road density (< 1 km)	K	1.5	3	2	1	6	1	1
Goats	Population	harvest during natal	K	1.5	3	2	1	6	1	1
Tourism/Rec	Backcountry	amount primitive	B	2	3	2	1	6	✓	1
Tourism/Rec	Backcountry	amount primitive	K	2	3	2	1	6	1	1
Timber	Growth	% old stands	K	2	3	2	2.5	7.5	1	1
Botanical	Huckleberries	% soil & veg disturbance	K	2	3	2	2.5	7.5	1	1
Timber	ETDA	% improved stock	B	1	3	3	2	8	2	1
Timber	ETDA	% thinned & pruned	B	1	3	3	2	8	2	1
Timber	ETDA	% commercially thinned	B	1	3	3	2	8	2	1
Tourism/Rec	Access to Rec	inaccessible destinations	K	2	3	2	3	8	1	1
Fish	Habitat	% natural riparian	BB (most LRC)	3	1	1.5	1	3.5	✓	2
Fish	Habitat	% natural riparian	BB (some LRC)	3	1	1.5	1	3.5	✓	2
Fish	Habitat	% natural riparian	BN (LRC)	3	1	1.5	1	3.5	✓	2
Biodiversity	Tree species	% of natural	BB	2	1	2	2	5	2	2
Biodiversity	Tree species	% of natural	BN	2	1	2	2	5	2	2
Biodiversity	Tree species	% of natural	K	2	1	2	2	5	2	2
Timber	Salvage	% susceptible	B	1	3	1	2	6	✓	2
Timber	Salvage	% susceptible	K	2	3	1	2	6	1	2
Tourism/Rec	Aesthetics	visual quality	B (Park other)	2	3	1	2	6	2	2
Visual	VQOs in Scenic	% alteration in R	B, K	2	3	2	2	7	2	2
Visual	VQOs in Scenic	% alteration in PR	B, K	2	3	2	2	7	2	2
Visual	VQOs in Scenic	% alteration in M	B, K	2	3	2	2	7	2	2

Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Secondary Score	Current Priority	Future Priority
Visual	Scenery in Atna	% denuded	K (Atna)	2	3	2	2	7	2	2
Tourism/Rec	Sustainable use	access points	K (Park)	2	3	2	2	7	2	2
Grizzly Bears	Disruption	other activities	B, K	2.5	2	2.5	2.5	7	2	2
Timber	Growth	% old stands	B	1	3	2	2.5	7.5	2	2
Timber	Growth	% reforested	B	1	3	2	2.5	7.5	✓	2
Timber	Growth	% reforested	K	2	3	2	2.5	7.5	2	2

Priority for reducing uncertainty				Collect Data		Risk ± Uncertainty		Reduce Uncertainty				
Goal	Objective	Indicator	Scope	Secondary Score	Current Priority	Future Priority	Current R ± U	Future R ± U	Current Priority	Future Priority	Overall Priority	Ease of Monitoring
Biodiversity	Natural seral	% of natural old seral	BN	3	✓	✓	L ± H	M ± H	1	1	1	E
Biodiversity	Natural seral	% of natural old seral	K	3	2	✓	L ± H	M ± H	1	1	1	E
Biodiversity	Natural seral	% of natural old & mature	BB	3	✓	✓	L ± H	M ± H	1	1	1	E
Biodiversity	Natural seral	% of natural old & mature	BN	3	✓	✓	L ± H	L ± H	1	1	1	E
Biodiversity	Natural seral	% of natural old & mature	K	3	2	✓	L ± H	L ± H	1	1	1	E
Biodiversity	Tree species	% of natural	BN	5	2	2	L ± M	M ± M	2	1	1	M
Biodiversity	Tree species	% of natural	K	5	2	2	L ± M	M ± M	2	1	1	M
Biodiversity	Pattern	% natural (biggest patch)	B (ESSF)	5	✓	✓	H ± H	H ± H	1	1	1	M-VD
Biodiversity	Pattern	% natural (biggest patch)	B (SBS)	5	✓	✓	H ± H	H ± H	1	1	1	M-VD
Biodiversity	Pattern	% natural (biggest patch)	K (ESSF)	5	2	✓	L ± H	M ± H	1	1	1	M-VD
Biodiversity	Connectivity	% mature & old	K	6	2	✓	L ± H	L ± H	1	1	1	M-VD
Goats	Habitat	% unmodified (<200m)	B	6	✓	✓	L ± H	? ± H	1	1	1	E
Goats	Population	harvest during natal	B	6	✓	✓	? ± H	? ± H	1	1	1	D
Tourism/Rec	Aesthetics	auditory disturbance	Park	6	2	✓	L-M ± H	L ± H	1	1	1	M-D
Visual	VQOs in Scenic	% alteration in R	B, K	7	2	2	L ± H	L ± H	1	1	1	E-M
Visual	VQOs in Scenic	% alteration in PR	B, K	7	2	2	L ± H	L ± H	1	1	1	E-M
Visual	VQOs in Scenic	% alteration in M	B, K	7	2	2	L ± H	L ± H	1	1	1	E-M
Tourism/Rec	Aesthetics	visual quality	B (Park other)	6	2	2	L-M ± M	M-H ± M	1.5	1.5	1.5	M-D
Tourism/Rec	Aesthetics	visual quality	K (Park other)	6	2	✓	L-M ± M	M-H ± M	1.5	1.5	1.5	M-D
Biodiversity	Tree species	% of natural	BB	5	2	2	M ± M	H ± M	1	2	2	M
Timber	Salvage	% susceptible	B	6	✓	2	H ± M	L ± M	2	2	2	NR
Goats	Habitat	forested connectors	BN (Kotsine)	6	2	✓	L ± L	L ± H	3	1	2	VD
Goats	Population	road density (< 1 km)	B	6	✓	✓	L ± M	L ± M	2	2	2	M
Tourism/Rec	Sustainable use	# encounters (campsites)	Park	7	✓	✓	L ± L	M ± M	3	1	2	M-D
Grizzly Bears	Disruption	harvesting	B	7	✓	✓	L ± M	L ± M	2	2	2	M-D
Grizzly Bears	Disruption	other activities	B, K	7	2	2	L ± M	H ± M	2	2	2	M-D
Timber	Growth	% old stands	B	7.5	2	2	M ± M	L ± M	1	2	2	E
Biodiversity	Natural seral	% of natural old seral	BB	3	✓	✓	L ± H	H ± L	1	3	3	-
Fish	Habitat	% natural riparian	BB (some LRC)	3.5	✓	2	M ± H	L ± L	1	3	3	-
Soil	Productivity	% degraded	B, K	5.5	✓	✓	L ± L	L ± M	3	2	3	-
Visual	Scenery in Atna	% denuded	K (Atna)	7	2	2	L ± M	L ± L	2	3	3	-
Tourism/Rec	Sustainable use	# encounters (floatcraft)	Park	7	✓	✓	M ± L	H ± M	3	2	3	-
Tourism/Rec	Gunanoot Lake	road (m) within 1 km	K	7	2	✓	L ± L	L ± M	3	2	3	-
Mineral	Access	% land accessible	B, K	8	✓	✓	L ± L	L ± M	3	2	3	-
Fish	Habitat	% natural riparian	BB (most LRC)	3.5	✓	2	L ± L	L ± L	3	3	4	-
Fish	Habitat	% natural riparian	BN (LRC)	3.5	✓	2	L ± L	L ± L	3	3	4	-
Biodiversity	Core ecosystems	% alteration	B	5	✓	✓	L ± L	L ± L	3	3	4	-
Biodiversity	Core ecosystems	% alteration	K	5	2	✓	L ± L	L ± L	3	3	4	-
Soil	Productivity	% access	B, K	5.5	✓	✓	L ± L	L ± L	3	3	4	-
Tourism/Rec	Aesthetics	visual quality	Park node & weir	6	✓	✓	L-M ± L	L ± L	3	3	4	-
Tourism/Rec	Backcountry	road density	B, K (SMZs)	6	2	✓	L ± L	L ± L	3	3	4	-
Grizzly Bears	Habitat	% critical & high	BB	6	2	✓	L ± L	L ± L	3	3	4	-
Grizzly Bears	Habitat	% critical & high	BN	6	2	✓	L ± L	L ± L	3	3	4	-
Grizzly Bears	Habitat	% critical & high	K	6	2	✓	L ± L	L ± L	3	3	4	-
Tourism/Rec	Sustainable use	access points	B (Park)	7	✓	✓	L ± L	L-M ± L	3	3	4	-
Tourism/Rec	Sustainable use	# encounters (all)	Park	7	✓	✓	H ± L	H ± L	3	3	4	-
Timber	Growth	% reforested	B	7.5	✓	2	L ± L	L ± L	3	3	4	-
Timber	Growth	% reforested	K	7.5	2	2	L ± L	L ± L	3	3	4	-
Tourism/Rec	Access to Rec	inaccessible destinations	B	8	✓	✓	L ± L	L ± L	3	3	4	-

Priority for detecting negative consequences				Collect Data		Risk ± Uncertainty		Detect Consequences				
Goal	Objective	Indicator	Scope	Secondary Score	Current Priority	Future Priority	Current R ± U	Future R ± U	Current Priority	Future Priority	Overall Priority	Ease of Monitoring
Tourism/Rec	Sustainable use	# encounters (all)	Park	7	✓	✓	H ± L	H ± L	1	1	1	M
Biodiversity	Natural seral	% of natural old seral	BB	3	✓	✓	L ± H	H ± L	2	1	2	E-D
Biodiversity	Natural seral	% of natural old seral	BN	3	✓	✓	L ± H	M ± H	2	2	2	E-D
Biodiversity	Natural seral	% of natural old seral	K	3	2	✓	L ± H	M ± H	2	2	2	E-D
Biodiversity	Natural seral	% of natural old & mature	BB	3	✓	✓	L ± H	M ± H	2	2	2	E-D
Biodiversity	Natural seral	% of natural old & mature	BN	3	✓	✓	L ± H	L ± H	2	2	2	E-D
Biodiversity	Natural seral	% of natural old & mature	K	3	2	✓	L ± H	L ± H	2	2	2	E-D
Biodiversity	Tree species	% of natural	BB	5	2	2	M ± M	H ± M	2	1	2	D
Biodiversity	Pattern	% natural (biggest patch)	B (ESSF)	5	✓	✓	H ± H	H ± H	2	2	2	D
Biodiversity	Pattern	% natural (biggest patch)	B (SBS)	5	✓	✓	H ± H	H ± H	2	2	2	D
Biodiversity	Pattern	% natural (biggest patch)	K (ESSF)	5	2	✓	L ± H	M ± H	2	2	2	D
Timber	Salvage	% susceptible	B	6	✓	2	H ± M	L ± M	1	3	2	M-D
Biodiversity	Connectivity	% mature & old	K	6	2	✓	L ± H	L ± H	2	2	2	VD
Goats	Habitat	% unmodified (<200m)	B	6	✓	✓	L ± H	? ± H	2	2	2	VD
Goats	Population	harvest during natal	B	6	✓	✓	? ± H	? ± H	2	2	2	D
Tourism/Rec	Aesthetics	auditory disturbance	Park	6	2	✓	L-M ± H	L ± H	2	2	2	M
Visual	VQOs in Scenic	% alteration in R	B, K	7	2	2	L ± H	L ± H	2	2	2	E-M
Visual	VQOs in Scenic	% alteration in PR	B, K	7	2	2	L ± H	L ± H	2	2	2	E-M
Visual	VQOs in Scenic	% alteration in M	B, K	7	2	2	L ± H	L ± H	2	2	2	E-M
Tourism/Rec	Sustainable use	# encounters (floatcraft)	Park	7	✓	✓	M ± L	H ± M	2	1	2	M
Tourism/Rec	Aesthetics	visual quality	B (Park other)	6	2	2	L-M ± M	M-H ± M	2.5	1.5	2.5	M
Tourism/Rec	Aesthetics	visual quality	K (Park other)	6	2	✓	L-M ± M	M-H ± M	2.5	1.5	2.5	M
Fish	Habitat	% natural riparian	BB (some LRC)	3.5	✓	2	M ± H	L ± L	2	3	3	-
Biodiversity	Tree species	% of natural	BN	5	2	2	L ± M	M ± M	3	2	3	-
Biodiversity	Tree species	% of natural	K	5	2	2	L ± M	M ± M	3	2	3	-
Goats	Habitat	forested connectors	BN (Kotsine)	6	2	✓	L ± L	L ± H	3	2	3	-
Tourism/Rec	Aesthetics	visual quality	Park node & weir	6	✓	✓	L-M ± L	L ± L	2.5	2.5	3	-
Tourism/Rec	Sustainable use	# encounters (campsites)	Park	7	✓	✓	L ± L	M ± M	3	2	3	-
Grizzly Bears	Disruption	harvesting	B	7	✓	✓	L ± M	L ± M	3	3	3	-
Grizzly Bears	Disruption	other activities	B, K	7	2	2	L ± M	H ± M	3	1	3	-
Timber	Growth	% old stands	B	7.5	2	2	M ± M	L ± M	2	3	3	-
Tourism/Rec	Sustainable use	access points	B (Park)	7	✓	✓	L ± L	L-M ± L	3	2.5	3.5	-
Fish	Habitat	% natural riparian	BB (most LRC)	3.5	✓	2	L ± L	L ± L	3	3	4	-
Fish	Habitat	% natural riparian	BN (LRC)	3.5	✓	2	L ± L	L ± L	3	3	4	-
Biodiversity	Core ecosystems	% alteration	B	5	✓	✓	L ± L	L ± L	3	3	4	-
Biodiversity	Core ecosystems	% alteration	K	5	2	✓	L ± L	L ± L	3	3	4	-
Goats	Population	road density (< 1 km)	B	6	✓	✓	L ± M	L ± M	3	3	4	-
Tourism/Rec	Backcountry	road density	B, K (SMZs)	6	2	✓	L ± L	L ± L	3	3	4	-
Grizzly Bears	Habitat	% critical & high	BB	6	2	✓	L ± L	L ± L	3	3	4	-
Grizzly Bears	Habitat	% critical & high	BN	6	2	✓	L ± L	L ± L	3	3	4	-
Grizzly Bears	Habitat	% critical & high	K	6	2	✓	L ± L	L ± L	3	3	4	-
Visual	Scenery in Atna	% denuded	K (Atna)	7	2	2	L ± M	L ± L	3	3	4	-
Tourism/Rec	Gunanoot Lake	road (m) within 1 km	K	7	2	✓	L ± L	L ± M	3	3	4	-
Timber	Growth	% reforested	B	7.5	✓	2	L ± L	L ± L	3	3	4	-
Timber	Growth	% reforested	K	7.5	2	2	L ± L	L ± L	3	3	4	-
Mineral	Access	% land accessible	B, K	8	✓	✓	L ± L	L ± M	3	3	4	-
Tourism/Rec	Access to Rec	inaccessible destinations	B	8	✓	✓	L ± L	L ± L	3	3	4	-

Raw data used to determine monitoring priorities				Secondary Score					Collect Data			Risk ± Uncertainty		Reduce Uncertainty			Detect Consequences				
Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Secondary Score	Current Priority	Ease of Collecting Data	Future Priority	Current R ± U	Future R ± U	Current Priority	Future Priority	Overall Priority	Ease of Monitoring	Current Priority	Future Priority	Overall Priority	Ease of Monitoring
Timber	Growth	% old stands	B	1	3	2	2.5	7.5	2	E	2	M ± M	L ± M	1	2	2	E	2	3	3	-
Timber	Growth	% old stands	K	2	3	2	2.5	7.5	1	E	1	-	-	-	-	-	-	-	-	-	-
Timber	Growth	% reforested	B	1	3	2	2.5	7.5	✓	-	2	L ± L	L ± L	3	3	4	-	3	3	4	-
Timber	Growth	% reforested	K	2	3	2	2.5	7.5	2	E	2	L ± L	L ± L	3	3	4	-	3	3	4	-
Timber	Salvage	% susceptible	B	1	3	1	2	6	✓	-	2	H ± M	L ± M	2	2	2	NR	1	3	2	M-D
Timber	Salvage	% susceptible	K	2	3	1	2	6	1	M-D	2	-	L ± M	-	2	-	-	-	3	-	-
Timber	Salvage	% controlled	B	1	3	1	2	6	2	M-D	1	L-M ± H	-	1	-	-	-	2	-	-	-
Timber	Salvage	% controlled	K	2	3	1	2	6	1	M-D	1	-	-	-	-	-	-	-	-	-	-
Timber	Salvage	% salvaged	B	1	3	1	2	6	1	M-D	1	-	-	-	-	-	-	-	-	-	-
Timber	Salvage	% salvaged	K	2	3	1	2	6	1	M-D	1	-	-	-	-	-	-	-	-	-	-
Timber	ETDA	% improved stock	B	1	3	3	2	8	2	E	1	H ± L	-	3	-	-	-	1	-	-	E
Timber	ETDA	% thinned & pruned	B	1	3	3	2	8	2	E	1	H ± M	-	2	-	-	-	1	-	-	E
Timber	ETDA	% commercially thinned	B	1	3	3	2	8	2	E	1	H ± L	-	3	-	-	-	1	-	-	E
Botanical	Pine Mushrooms	% mature 01b sites	K	2	3	2	2	7	1	E-M	✓	-	L ± M	-	2	-	-	-	3	-	-
Botanical	Huckleberries	% sunlight	K	2	3	2	2.5	7.5	1	E	✓	-	L ± M	-	2	-	-	-	3	-	-
Botanical	Huckleberries	% soil & veg disturbance	K	2	3	2	2.5	7.5	1	E	1	-	-	-	-	-	-	-	-	-	-
Soil	Productivity	% access	B, K	1	2	2	1.5	5.5	✓	-	✓	L ± L	L ± L	3	3	4	-	-	-	-	-
Soil	Productivity	% degraded	B, K	1	2	2	1.5	5.5	✓	-	✓	L ± L	L ± M	3	2	3	-	-	-	-	-
Visual	VQOs in Scenic	% alteration in R	B, K	2	3	2	2	7	2	E	2	L ± H	L ± H	1	1	1	E-M	2	2	2	E-M
Visual	VQOs in Scenic	% alteration in PR	B, K	2	3	2	2	7	2	E	2	L ± H	L ± H	1	1	1	E-M	2	2	2	E-M
Visual	VQOs in Scenic	% alteration in M	B, K	2	3	2	2	7	2	E	2	L ± H	L ± H	1	1	1	E-M	2	2	2	E-M
Visual	Scenery in Atna	% denuded	K (Atna)	2	3	2	2	7	2	E	2	L ± M	L ± L	2	3	3	-	3	3	4	-
Mineral	Access	% land accessible	B, K	1	3	2	3	8	✓	-	✓	L ± L	L ± M	3	2	3	-	3	3	4	-
Biodiversity	Natural seral	% of natural old seral	BB	2	1	1	1	3	✓	-	✓	L ± H	H ± L	1	3	3	-	2	1	2	E-D
Biodiversity	Natural seral	% of natural old seral	BN	2	1	1	1	3	✓	-	✓	L ± H	M ± H	1	1	1	E	2	2	2	E-D
Biodiversity	Natural seral	% of natural old seral	K	2	1	1	1	3	2	E	✓	L ± H	M ± H	1	1	1	E	2	2	2	E-D
Biodiversity	Natural seral	% of natural old & mature	BB	2	1	1	1	3	✓	-	✓	L ± H	M ± H	1	1	1	E	2	2	2	E-D
Biodiversity	Natural seral	% of natural old & mature	BN	2	1	1	1	3	✓	-	✓	L ± H	L ± H	1	1	1	E	2	2	2	E-D
Biodiversity	Natural seral	% of natural old & mature	K	2	1	1	1	3	2	E	✓	L ± H	L ± H	1	1	1	E	2	2	2	E-D
Biodiversity	Core ecosystems	% alteration	B	2	1	3	1	5	✓	-	✓	L ± L	L ± L	3	3	4	-	3	3	4	-
Biodiversity	Core ecosystems	% alteration	K	2	1	3	1	5	2	E	✓	L ± L	L ± L	3	3	4	-	3	3	4	-
Biodiversity	Connectivity	% mature & old	BB	2	1	3	2	6	2	E	1	M ± H	-	1	-	-	-	2	-	-	-
Biodiversity	Connectivity	% mature & old	BN	2	1	3	2	6	2	E	1	L ± H	-	1	-	-	-	2	-	-	-
Biodiversity	Connectivity	% mature & old	K	2	1	3	2	6	2	E	✓	L ± H	L ± H	1	1	1	M-VD	2	2	2	VD
Biodiversity	Connectivity	% winter logging	B	2	1	3	2	6	1	E	1	-	-	-	-	-	-	-	-	-	-
Biodiversity	Connectivity	% winter logging	K	2	1	3	2	6	1	E	✓	-	L ± H	-	1	-	-	-	2	-	-
Biodiversity	Rare ecosystems	% of natural	B	2	1	2	1	4	1	M	✓	-	H ± M	-	2	-	-	-	1	-	-
Biodiversity	Rare ecosystems	% of natural	K	2	1	2	1	4	1	M	✓	-	L ± H	-	1	-	-	-	2	-	-

Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Secondary Score	Current Priority	Ease of Collecting Data	Future Priority	Current R ± U	Future R ± U	Current Priority	Future Priority	Overall Priority	Ease of Monitoring	Current Priority	Future Priority	Overall Priority	Ease of Monitoring	
Biodiversity	Deciduous	% of natural	B	2	1	2	2	5	1	E	1	-	-	-	-	-	-	-	-	-	-	-
Biodiversity	Deciduous	% of natural	K	2	1	2	2	5	1	E	1	-	-	-	-	-	-	-	-	-	-	-
Biodiversity	Tree species	% of natural	BB	2	1	2	2	5	2	E	2	M ± M	H ± M	1	2	2	M	2	1	2	D	
Biodiversity	Tree species	% of natural	BN	2	1	2	2	5	2	E	2	L ± M	M ± M	2	1	1	M	3	2	3	-	
Biodiversity	Tree species	% of natural	K	2	1	2	2	5	2	E	2	L ± M	M ± M	2	1	1	M	3	2	3	-	
Biodiversity	Riparian	% alteration	B	2	1	2	1	4	1	M	1	-	-	-	-	-	-	-	-	-	-	
Biodiversity	Riparian	% alteration	K	2	1	2	1	4	1	M	✓	-	L ± M	-	2	-	-	-	3	-	-	
Biodiversity	Pattern	% natural (biggest patch)	B (ESSF)	2	1	3	1	5	✓	-	✓	H ± H	H ± H	1	1	1	M-VD	2	2	2	D	
Biodiversity	Pattern	% natural (biggest patch)	B (SBS)	2	1	3	1	5	✓	-	✓	H ± H	H ± H	1	1	1	M-VD	2	2	2	D	
Biodiversity	Pattern	% natural (biggest patch)	K (ESSF)	2	1	3	1	5	2	E	✓	L ± H	M ± H	1	1	1	M-VD	2	2	2	D	
Biodiversity	Stand structure	% natural	B, K	2	1	1	1	3	1	M	1	-	-	-	-	-	-	-	-	-	-	
Water	Flow	ECA %	B (most ws)	2	1	2.5	2	5.5	✓	-	1	L ± L	-	3	-	-	-	3	-	-	-	
Water	Flow	ECA %	B (special ws)	2	1	2.5	2	5.5	✓	-	1	M ± H	-	1	-	-	-	2	-	-	-	
Water	Flow	ECA %	K	2	1	2.5	2	5.5	1	E	✓	-	L ± L	-	3	-	-	-	3	-	-	
Water	Quality	landslides	B	2	1	1.5	2	4.5	1	M	1	-	-	-	-	-	-	-	-	-	-	
Water	Quality	landslides	K	2	1	1.5	2	4.5	1	M	✓	-	L ± L	-	3	-	-	-	3	-	-	
Water	Quality	stream crossings	B	2	1	1.5	2	4.5	1	E	1	-	-	-	-	-	-	-	-	-	-	
Water	Quality	stream crossings	K	2	1	1.5	2	4.5	1	E	✓	-	L ± L	-	3	-	-	-	3	-	-	
Water	Quality	planning	B	2	1	1.5	2	4.5	1	E	1	-	-	-	-	-	-	-	-	-	-	
Water	Quality	planning	K	2	1	1.5	2	4.5	1	E	✓	-	L ± H	-	1	-	-	-	2	-	-	
Fish	Habitat	% natural riparian	BB (most LRC)	3	1	1.5	1	3.5	✓	-	2	L ± L	L ± L	3	3	4	-	3	3	4	-	
Fish	Habitat	% natural riparian	BB (some LRC)	3	1	1.5	1	3.5	✓	-	2	M ± H	L ± L	1	3	3	-	2	3	3	-	
Fish	Habitat	% natural riparian	BB (S3)	3	1	1.5	1	3.5	2	M	1	M ± H	-	1	-	-	-	2	-	-	-	
Fish	Habitat	% natural riparian	BB (S4)	3	1	1.5	1	3.5	2	M	1	H ± L	-	3	-	-	-	1	-	-	-	
Fish	Habitat	% natural riparian	BN (LRC)	3	1	1.5	1	3.5	✓	M	2	L ± L	L ± L	3	3	4	-	3	3	4	-	
Fish	Habitat	% natural riparian	BN (S3)	3	1	1.5	1	3.5	2	M	1	M ± M	-	1	-	-	-	2	-	-	-	
Fish	Habitat	% natural riparian	BN (S4)	3	1	1.5	1	3.5	2	M	1	H ± L	-	3	-	-	-	1	-	-	-	
Fish	Habitat	% natural riparian	K	3	1	1.5	1	3.5	1	M	1	-	-	-	-	-	-	-	-	-	-	
Fish	Bull trout	distance to bridge	B	3	1	2.5	1	4.5	1	E	1	-	-	-	-	-	-	-	-	-	-	
Fish	Bull trout	distance to bridge	K	3	1	2.5	1	4.5	1	E	✓	-	L ± L	-	3	-	-	-	3	-	-	
Fish	Bull trout	% habitat protected	B	3	1	2.5	1	4.5	1	D	1	-	-	-	-	-	-	-	-	-	-	
Fish	Bull trout	% habitat protected	K	3	1	2.5	1	4.5	1	D	1	-	-	-	-	-	-	-	-	-	-	
Fish	Steelhead	repeated capture	Park	3	1	2.5	1	4.5	1	E	1	-	-	-	-	-	-	-	-	-	-	
Wildlife	Wildlife	% wildlife areas in ETD	B	3	2	2	1	5	1	E	✓	-	L ± L	-	3	-	-	-	3	-	-	
Goats	Habitat	% unmodified (<200m)	B	1.5	3	2	1	6	✓	-	✓	L ± H	? ± H	1	1	1	E	2	2	2	VD	
Goats	Habitat	% unmodified (<200m)	K	1.5	3	2	1	6	1	E	1	-	-	-	-	-	-	-	-	-	-	
Goats	Habitat	forested connectors	BN (Kotsine)	1.5	3	2	1	6	2	E	✓	L ± L	L ± H	3	1	2	VD	3	2	3	-	
Goats	Population	road density (< 1 km)	B	1.5	3	2	1	6	✓	-	✓	L ± M	L ± M	2	2	2	M	3	3	4	-	
Goats	Population	road density (< 1 km)	K	1.5	3	2	1	6	1	E	1	-	-	-	-	-	-	-	-	-	-	
Goats	Population	harvest during natal	B	1.5	3	2	1	6	✓	-	✓	? ± H	? ± H	1	1	1	D	2	2	2	D	
Goats	Population	harvest during natal	K	1.5	3	2	1	6	1	E	1	-	-	-	-	-	-	-	-	-	-	

Goal	Objective	Indicator	Scope	Goal Uncertainty	Goal Influence	Objective Influence	Recovery Period	Secondary Score	Current Priority	Ease of Collecting Data	Future Priority	Current R ± U	Future R ± U	Current Priority	Future Priority	Overall Priority	Ease of Monitoring	Current Priority	Future Priority	Overall Priority	Ease of Monitoring
Tourism/Rec	Aesthetics	visual quality	Park node & weir	2	3	1	2	6	✓	-	✓	L-M ± L	L ± L	3	3	4	-	2.5	2.5	3	-
Tourism/Rec	Aesthetics	visual quality	B (Park other)	2	3	1	2	6	2	E-M	2	L-M ± M	M-H ± M	1.5	1.5	1.5	M-D	2.5	1.5	2.5	M
Tourism/Rec	Aesthetics	visual quality	K (Park other)	2	3	1	2	6	2	E-M	✓	L-M ± M	M-H ± M	1.5	1.5	1.5	M-D	2.5	1.5	2.5	M
Tourism/Rec	Aesthetics	auditory disturbance	Park	2	3	1	2	6	2	E-M	✓	L-M ± H	L ± H	1	1	1	M-D	2	2	2	M
Tourism/Rec	Sustainable use	access points	B (Park)	2	3	2	2	7	✓	-	✓	L ± L	L-M ± L	3	3	4	-	3	2.5	3.5	-
Tourism/Rec	Sustainable use	access points	K (Park)	2	3	2	2	7	2	E	2	-	-	-	-	-	-	-	-	-	-
Tourism/Rec	Sustainable use	# encounters (all)	Park	2	3	2	2	7	✓	-	✓	H ± L	H ± L	3	3	4	-	1	1	1	M
Tourism/Rec	Sustainable use	# encounters (floatcraft)	Park	2	3	2	2	7	✓	-	✓	M ± L	H ± L	3	2	3	-	2	1	2	M
Tourism/Rec	Sustainable use	# encounters (campsites)	Park	2	3	2	2	7	✓	-	✓	L ± L	M ± M	3	1	2	M-D	3	2	3	-
Tourism/Rec	Gunanoot Lake	road (m) within 1 km	K	2	3	3	1	7	2	E	✓	L ± L	L ± M	3	2	3	-	3	3	4	-
Tourism/Rec	Gunanoot Lake	visual quality	K	2	3	3	1	7	1	E	✓	-	M-H ± H	-	1	-	-	-	2	-	-
Tourism/Rec	Backcountry	road density	B, K (SMZs)	2	3	2	1	6	2	-	✓	L ± L	L ± L	3	3	4	-	3	3	4	-
Tourism/Rec	Backcountry	amount primitive	B	2	3	2	1	6	✓	-	1	?	-	-	-	-	-	-	-	-	-
Tourism/Rec	Backcountry	amount primitive	K	2	3	2	1	6	1	E	1	-	-	-	-	-	-	-	-	-	-
Tourism/Rec	Access to Rec	inaccessible destinations	B	2	3	2	3	8	✓	-	✓	L ± L	L ± L	3	3	4	-	3	3	4	-
Tourism/Rec	Access to Rec	inaccessible destinations	K	2	3	2	3	8	1	E	1	-	-	-	-	-	-	-	-	-	-
Grizzly Bears	Interaction	road density	Hanawald, Shedin	2.5	2	1.5	1	4.5	1	E	✓	-	M ± H	-	1	-	-	-	2	-	-
Grizzly Bears	Interaction	road density	Gail, Nilkit, Nichy	2.5	2	1.5	1	4.5	✓	-	1	H ± M	-	2	-	-	-	1	-	-	-
Grizzly Bears	Interaction	road density	B, K (other ws)	2.5	2	1.5	1	4.5	1	E	1	-	-	-	-	-	-	-	-	-	-
Grizzly Bears	Interaction	screening	B, K	2.5	2	1.5	1	4.5	1	M	1	-	-	-	-	-	-	-	-	-	-
Grizzly Bears	Interaction	Education	B, K	2.5	2	1.5	1	4.5	1	E	1	-	-	-	-	-	-	-	-	-	-
Grizzly Bears	Disruption	harvesting	B	2.5	2	2.5	2.5	7	✓	-	✓	L ± M	L ± M	2	2	2	M-D	3	3	3	-
Grizzly Bears	Disruption	harvesting	K	2.5	2	2.5	2.5	7	1	E-M	✓	-	L ± M	-	2	-	-	-	3	-	-
Grizzly Bears	Disruption	other activities	B, K	2.5	2	2.5	2.5	7	2	E-M	2	L ± M	H ± M	2	2	2	M-D	3	1	3	-
Grizzly Bears	Habitat	% critical & high	BB	2.5	2	2	2	6	2	E	✓	L ± L	L ± L	3	3	4	-	3	3	4	-
Grizzly Bears	Habitat	% critical & high	BN	2.5	2	2	2	6	2	E	✓	L ± L	L ± L	3	3	4	-	3	3	4	-
Grizzly Bears	Habitat	% critical & high	K	2.5	2	2	2	6	2	E	✓	L ± L	L ± L	3	3	4	-	3	3	4	-