MUTUALLY	SELECTED INDICATORS - f	or scenario ranking	156 indicators chosen by Indigenous communities, SAC, FMP planning team		
evised: Oct	. 22, 2019				
umber	Group	SHORT	Indicator	Comments	nat ord
				If the indicator could summarize the +- change in habitat across all 17+1 bird species that would be ideal (I understand there are limitations based on what scale you	
6	FMP planning team	17 IND BIRDS	17+1 Bird Indicators	run the model at). Alternatively focus on the SaR ones.	
10	EMD planning team		17 indicator bird coacies AND the CAWA model	LP roads only, no highway / RM and please merge the winter roads with dry frazen	
10 3	FMP planning team FMP planning team	17 IND BIRDS 17 IND BIRDS	17 indicator bird species AND the CAWA model. 17 indicator bird species	winter roads with dry frozen. most important	
4	FMP planning team	17 IND BIRDS	17 indicator bird species		
6	SAC	17 IND BIRDS	17 indicator bird species		
5	FMP planning team	17 IND BIRDS	Utilize the 17 indicator species		1
	Indigenous Community	ACCESS	access maximized	access should not be closed or gated ever	1
		100555		would like to see all roads remain open. MRC community do not all have access to quads and population getting	
3	Indigenous Community FMP planning team	ACCESS AGE CLASS	more access Managed area by age class and period	older. Roads allow continued traditional use of forests.	1
4	FMP planning team	AREA BY HEC AGE	Annual Harvest area by HEC and age class		
	····· p.e				
7	FMP planning team	AREA BY HEC_AGE	Annual harvest area by HEC and age class - (Combine periods 1/2)	Combine to show the full duration of the 20-year FMP Possible to add in a best guess of area per FMU? Would	
4	FMP planning team	AREA BY HEC_AGE	Annual harvest area by HEC and age class	mean more to the public.	
5	FMP planning team	AREA BY HEC_AGE	Annual harvest area by HEC and age class		
8	FMP planning team	AREA BY SPP_SERAL	Total Area by Species Group and seral stage in FML 3		
5	FMP planning team	AREA BY SPP_SERAL	Total Area by Species Groups and Seral Stage in FML3		
9	FMP planning team	AREA HARVESTED	Area harvested by age class and period		
10 6	FMP planning team FMP planning team	AREA HARVESTED AREA PLANTED	Annual Harvest Area Total - FMU 13 Annual Area by Treatment Type (by FMU)		
7	FMP planning team	AREA PLANTED	Annual Area by Treatment Type, by FMU		
,	Indigenous Community		Artifacts and Cultural Heritage Resources	at April 30, 2019 meeting	1
	indigenous community		Birds - Chief and Council commented on LP's bird surveys and the maps showing where species at risk Canada Warbler and Golden	scriphi soj zozo mecung	
	Indigenous Community	BIRDS	Winged Warbler were found -thought it was good that LP completed this work annually	LP will continue annual bird surveys in proposed summer b buffer guidelines from Province of Manitoba;	1 1
	Indigenous Community	BUFFERS	questions around buffers and how they were decided on	buffer width mitigation with Province of Manitoba's Integrated Resource Management Team	1
	Indigenous Community	BUFFERS	confusion around why some large areas were left to blow down and other areas of younger forest only a strip of timber was left	buffer guidelines from Province of Manitoba; buffer width mitigation with Province of Manitoba's Integrated Resource Management Team	1
10	FMP planning team	CARBON	Carbon storage in FML3		-
	Indigenous Community	CARBON	to identify forest management practices that sequester carbon	potential SFI grant proposal	1
1	FMP planning team	COVER GROUP	Current Cover Group in FML3		
1	FMP planning team FMP planning team	COVER GROUP	Current Cover Group in FML3 Current Cover Group in FML3,	It's rich in the model outputs, these are very useful to evaluate the scenario for SFM. As you requested, here's top list with 10+ [18] since they all are important:	
4	FMP planning team	COVER GROUP	Total Area of HEC Cover Group in FML3		
7	FMP planning team	COVER GROUP	Current cover group in FML3	age and cover type X	
9	FMP planning team	COVER GROUP	Total Area of HEC cover group in FML3		
6	FMP planning team	COVER GROUP	Total Area of HEC Cover Group in FML3		
	Indigenous Community	COVER GROUP	Dependent and a second of all the second s		1
	SAC Indigenous Community	ELK	Report the ranges of elk in spring, summer, fall and winter	added: Oct. 22, 2019 spring 2018 burned area on SCN land	1
	Indigenous Community	FIREWOOD		want access to firewood	1
	SAC		Once a particular area is harvested, showcase what process LP uses to	,	1
2	FMP planning team	FUR BEARERS GROWING STOCK	accommodate the fur bearing animals natural habitat. Growing stock in FML3	added: Oct. 22, 2019	
2		GROWING STOCK		FMUs 10 and 11 - most easily accessible by MRC members. Harvest in FMUs 10 and 11 has biggest impact on MRC	
	Indigenous Community	HARVEST		members. SCN would like to harvest timber for LP. Sold wood to LP a	
11	Indigenous Community	HARVEST	Harvest mans	long time ago, would like to do so again.	1
11 5	FMP planning team FMP planning team	HARVEST MAPS HEC STRATA	Harvest maps HEC strata silvicultural transitions		
6	FMP planning team	HEC STRATA	HEC strata silvicultural transitions HEC strata silvicultural transition by period		
6	FMP planning team	HEC STRATA	HEC strata silvicultural transition by period		
12	FMP planning team	LANDSCAPE CLASS	Landscape class maps		
4	SAC	MARTEN	Marten Winter Cover		
5	SAC	MARTEN	Marten Winter Cover	ensure marten habitat exists on landscape for plan duration	
				FMU 13 only as little of the changes to watershed outside of FMU 13 have anything to do with LP. Need to stay	
		1	I. I		1
11	FMP planning team	MARTEN	Marten habitat	separated from the impacts of agriculture	
11 15 5	FMP planning team FMP planning team FMP planning team	MARTEN MARTEN MARTEN	Marten habitat Marten/Bird Habitat Report Marten Winter Cover	separated from the impacts of agriculture most important	

		1			
2	FMP planning team	MOOSE	Maximize moose habitat, summer		
2		WOOSE	Maximize moose habitat, winter		
1	FMP planning team	MOOSE			
				choice of scenario (which Gerald help build) rather than an	
1	SAC Indigenous Community	MOOSE	CHOOSE THE MOOSE EMPHASIS SCENARIO moose	indicator	2
		WIOUSE	Inouse	moose These were chosen to address concerns heard during	2
1	FMP planning team	MOOSE	Moose Habitat	consultation and by ENGO	2
				August 20th, 2019. Pine Creek believes Moose negatively	
	Indigenous Community	MOOSE	Moose habitat	impacted by forest operations.	3
	Indigenous Community	MOOSE	moose habitat	Moose winter and summer good. Asked about spring and fall.	5
1	SAC	MOOSE	Moose Habitat indicators		6
10	FMP planning team	MOOSE	Moose Habitat Indicators for FMU13		6
14	FMP planning team	MOOSE	Moose Habitat reports		7
				April 30 <sup>th</sup> , 2019 – Pine Creek believes the moose	
	Indigenous Community	MOOSE	Moose populations	population decline began with LP commencing operations	7
	Indigenous Community	MOOSE	moose populations		8
2	FMP planning team	MOOSE	Moose summer habitat		8
2	SAC	MOOSE	Moose summer habitat		9
2	FMP planning team	MOOSE	Moose summer habitat (Habitat Supply Model)		9
1	FMP planning team SAC	MOOSE MOOSE	Moose winter habitat Moose winter habitat		10
7	SAC FMP planning team	MOOSE	Moose winter habitat Moose winter habitat (Resource Selection Function)		10:
1	FMP planning team	MOOSE	Moose winter habitat (Resource Selection Function)		11
4	SAC	MOOSE	Summer and Winter Moose Habitat		12
2	FMP planning team	MOOSE	Summer Moose Habitat Supply Model (HSM)	most important	13
1	FMP planning team	MOOSE	Winter Moose Habitat (RSF – Resource Selection Function)	most important Biggest concern for forest management in the Duck	13
	Indigenous Community	MOOSE		Mountains	14
	<u>.</u> ,		Incorporate moose habitat reports in LP's FMP for the purpose of		
	SAC	MOOSE	conservation for moose.	added: Oct. 22, 2019	14
			LP to map these habitat areas for the purpose of monitoring moose		
			numbers and identifying areas moose generally frequent for the purpose of protecting some of these areas for moose to generate		
	SAC	MOOSE	their numbers.	added: Oct. 22, 2019	14
	SAC	MOOSE	Report the ranges of moose in spring, summer, fall and winter	added: Oct. 22, 2019	14
	SAC	MOOSE	Some focus should be added on the areas that will not be harvested fo	added: Oct. 22, 2019	15
3	FMP planning team	NRV	Deciduous seral stages compared to NRV		1
4	FMP planning team	NRV	Mixed seral stages compared to NRV	Would be nice to have all of them, and somehow link in	14
3	FMP planning team	NRV	Natural Range of Variation reports	the Seral Stage maps.	34
16	FMP planning team	NRV	Natural Range of Variation reports		5
12	FMP planning team	NRV	NRV - all spp		8
7	FMP planning team	NRV	Deciduous seral stages compared to NRV	not sure if all [NRV]species scored as one, but if not, below would be two to rank if I had to choose	8
/		NIN		not sure if all [NRV]species scored as one, but if not, below	0.
8	FMP planning team	NRV	Mixed seral stages compared to NRV	would be two to rank if I had to choose	9
	Indigenous Community	NRV	Natural Range of Variation (NRV)	April 30th and August 20th, 2019 meeting	11
9	Indigenous Community FMP planning team	NRV OLD SPP GROUPS	agreed NRV targets should be used Managed Area of OLD Species Groups FML3	liked how an 'old' [seral stage] target was present	13
2	FMP planning team	OLD SPP GROUPS	Old Seral by Species Group on Entire Land Base		4
-				These were chosen to address concerns heard during	
3	FMP planning team	OLD SPP GROUPS	Unmanaged Area of OLD Species Groups in FML3	consultation and by ENGO	6
				These were chosen to address concerns heard during	6
4	FMP planning team	OLD SPP GROUPS	Managed Area of OLD Species Groups in FML3	consultation and by ENGO These were chosen to address concerns heard during	6
5	FMP planning team	OLD SPP GROUPS	Old Seral Cover Group % Change (Managed Landbase)	consultation and by ENGO	6
3	FMP planning team	OP GROWING STOCH	Operable Growing stock by FMU	· · · · · · · · · · · · · · · · · · ·	4
			LP to continue having open houses for the public on their two-year		
2	SAC	OPEN HOUSES	operating plan.	added: Oct. 22, 2019	15
2 5	FMP planning team SAC	PATCH SIZE PATCH SIZE	Harvest Patch Size Distribution Harvest Patch Size		1
5		TATCH JILL		ensure NRV variation in cutblock size for all wildlife and	Ζ.
3	SAC	PATCH SIZE	patch size variation	bird species	2
17	FMP planning team	PATCH SIZE	Patch reports		5
		DATCUCCT	Hanvast notab fragmana distribution	These were chosen to address concerns heard during	~
8 11	FMP planning team FMP planning team	PATCH SIZE PATCH SIZE	Harvest patch frequency distribution Young forest patch size	consultation and by ENGO	6 7
9	FMP planning team	PATCH SIZE	Harvest patch size distribution		9
	SAC	PATCH SIZE	Harvest patch frequency distribution		10
10				would like to see more aggregated harvest to minimize	
10		PATCH SIZE	more aggregated harvest	disturbance of logging to moose	12
10	Indigenous Community			want to see bigger blocks with multiple [logging]	
10	Indigenous Community			contractors in them to let areas of the forest 'rest' from	
10	Indigenous Community	PATCH SIZE		contractors in them to let areas of the forest 'rest' from disturbance	13
10		PATCH SIZE PATCH SIZE	Reports on harvest patch sizes and locations.		
	Indigenous Community SAC Indigenous Community	PATCH SIZE REGEN		disturbance	15: 14:
7	Indigenous Community SAC Indigenous Community FMP planning team	PATCH SIZE REGEN ROADS	Road deactivation	disturbance	15 14
	Indigenous Community SAC Indigenous Community	PATCH SIZE REGEN		disturbance	13: 15: 14:

3	SAC	ROADS	Roads		23
2	SAC	ROADS	roads	decrease total roads	27
8	FMP planning team	ROADS	Candidate (active) roads- generated by Craig Robinson (ForSite)		39
18	FMP planning team	ROADS	Route reports		60
				These were chosen to address concerns heard during	
6	FMP planning team	ROADS	Total length of active roads	consultation and by ENGO	66
6	FMP planning team	ROADS	Candidate (active) roads	most important	74
13	FMP planning team	ROADS	Roads - Route reports		81
3	FMP planning team	ROADS	Candidate (active) roads- generated by Craig Robinson (ForSite)		85
8	SAC	ROADS	Candidate roads		101
3	FMP planning team	ROADS	Minimize roads		106
	Indigenous Community	ROADS	Roads	April 30th and August 20th, 2019 meeting	114
	Indigenous Community	ROADS	Access	April 30th and August 20th, 2019 meeting	115
	Indigonous Community	DOADS	to measure or illustrate the unique role of industrial road densities in	natantial CEI grant proposal	110
	Indigenous Community	ROADS	contributing to the vulnerability of wildlife	potential SFI grant proposal	118
			Access – how we close roads	SOG – close all new road access. Existing roads dealt with	
	Indigonous Community	ROADS	Access – now we close rodus	operationally, in mitigation with Province of Manitoba.	121
	Indigenous Community Indigenous Community	ROADS	roads maximized	roads should be left open	121
	indigenous community	NOADS	New routes constructed to go into harvest areas should be		127
			decommissioned immediately once these areas will no longer be		
	SAC	ROADS	logged.	added: Oct. 22, 2019	156
	SAC	NOADS	юдеси.		150
		]	Birds at risk habitat – need to pick one I think . Should it be a species	PL - Canada Warbler (CAWA) is the only bird spp at risk	
9	FMP planning team	SAR CAWA	that is represented in other parts of the province as well?	with habitat data at present (Oct. 2019)	9
4	FMP planning team	SAR CAWA	One bird species at risk with sufficient data to generate a model – Cana		72
			One bird species at risk with sufficient data to generate a model -		
11	FMP planning team	SAR CAWA	Canada Warbler -CAWA.		93
7	SAC	SAR CAWA	One bird species at risk [CAWA]		100
			Account for the species at risk with sufficient data [CAWA] (Golden		
4	FMP planning team	SAR CAWA	winged warbler)		107
				LP will continue annual bird surveys in proposed summer	
				blocks. Often, the bird species at risk Canada Warbler is	
	Indigenous Community	SAR CAWA	concern for bird species at risk	found. Other bird species at risk are rarely found.	126
	Indigenous Community	SAR CAWA	habitat	need to keep habitat around for all	137
4	SAC	SERAL STAGE	seral stage distribution	ensure NRV variation for stand age	29
13	FMP planning team	SERAL STAGE	Seral Stage maps		55
	SAC	SMALL ANIMALS	Mitigation plan on the habitat of small animals is critical.	added: Oct. 22, 2019	152
	Indigenous Community	SUCCESSION			145
	Indigenous Community	TLE		Treaty Land Entitlement - most important concern of SCN	138
				Tree planting is supervised by the Mountain Forest Section	
				Renewal Company. Outland is a long-time contractor	
				executing the tree plant work. LP will pass this	
		TOFF DUANT		information on to Jeannette Coote (Silviculture forester	400
	Indigenous Community	TREE PLANT	tree planting opportunities	with MFSRC).	122
	Indigenous Community	TREE PLANT		reforest burned area Stacked bar graph of all three? Maybe not workable (scale	141
5	FMP planning team	VOLUME	Annual Harvest Volume - FMU 10, 11, 13	stacked bar graph of all three? Maybe not workable (scale issue of FMU 10 vs FMU 13)?	36
8	FMP planning team	VOLUME	Annual Harvest Volume - FML3	1550C 01 1010 10 V3 1010 15/1:	50
10	FMP planning team	VOLUME	Average volume by FMU		52
9	SAC	VOLUME	Volume harvested		102
10	FMP planning team	WATERSHED	Harvest levels by watershed		102
8	FMP planning team	WATERSHED	Disturbance by watershed for FMU13		18
				ensure harvest disturbance remains less than 30% for	
6	SAC	WATERSHED	watershed	watershed	31
6 9	SAC FMP planning team	WATERSHED WATERSHED	watershed Disturbance by watershed for FMU13	watershed	31 40
				watershed These were chosen to address concerns heard during	
9	FMP planning team	WATERSHED	Disturbance by watershed for FMU13	These were chosen to address concerns heard during	40
9	FMP planning team	WATERSHED	Disturbance by watershed for FMU13	These were chosen to address concerns heard during consultation and by ENGO	40
9 2	FMP planning team	WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during	40 62 67 82
9 2 7	FMP planning team FMP planning team FMP planning team	WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during	40 62 67
9 2 7 14	FMP planning team FMP planning team FMP planning team FMP planning team	WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during	40 62 67 82 95 96
9 2 7 14 2	FMP planning team FMP planning team FMP planning team FMP planning team SAC	WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed Annual Area harvested by watershed	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during	40 62 67 82 95
9 2 7 14 2 3	FMP planning team FMP planning team FMP planning team FMP planning team SAC SAC FMP planning team	WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed Annual Area harvested by watershed Disturbance by watershed Minimize impacts to watersheds	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during consultation and by ENGO	40 62 67 82 95 96
9 2 7 14 2 3	FMP planning team FMP planning team FMP planning team FMP planning team SAC SAC	WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed Annual Area harvested by watershed Disturbance by watershed	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during	40 62 67 82 95 96
9 2 7 14 2 3	FMP planning team FMP planning team FMP planning team FMP planning team SAC SAC FMP planning team Indigenous Community	WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed Annual Area harvested by watershed Disturbance by watershed Minimize impacts to watersheds increased surface water at PCFNs	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during consultation and by ENGO PCFN dislikes the hydrology report results from Lee 2014	40 62 67 82 95 96 109 116
9 2 7 14 2 3	FMP planning team FMP planning team FMP planning team FMP planning team SAC SAC FMP planning team	WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed Annual Area harvested by watershed Disturbance by watershed Minimize impacts to watersheds	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during consultation and by ENGO	40 62 67 82 95 96 109
9 2 7 14 2 3	FMP planning team FMP planning team FMP planning team FMP planning team SAC SAC FMP planning team Indigenous Community	WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed Annual Area harvested by watershed Disturbance by watershed Minimize impacts to watersheds increased surface water at PCFNs qualitative analysis of the hydraulic impacts of forest harvesting	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during consultation and by ENGO PCFN dislikes the hydrology report results from Lee 2014	40 62 67 82 95 96 109 116
9 2 7 14 2 3	FMP planning team FMP planning team FMP planning team FMP planning team SAC SAC FMP planning team Indigenous Community	WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed Annual Area harvested by watershed Disturbance by watershed Minimize impacts to watersheds increased surface water at PCFNs qualitative analysis of the hydraulic impacts of forest harvesting Require watershed reports one year after on the particular areas that	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during consultation and by ENGO PCFN dislikes the hydrology report results from Lee 2014	40 62 67 82 95 96 109 116
9 2 7 14 2 3	FMP planning team FMP planning team FMP planning team FMP planning team SAC SAC FMP planning team Indigenous Community	WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED WATERSHED	Disturbance by watershed for FMU13 Disturbance by watershed for FMU13 Annual Area harvested by watershed Disturbance by watershed Annual Area harvested by watershed Disturbance by watershed Minimize impacts to watersheds increased surface water at PCFNs qualitative analysis of the hydraulic impacts of forest harvesting	These were chosen to address concerns heard during consultation and by ENGO These were chosen to address concerns heard during consultation and by ENGO PCFN dislikes the hydrology report results from Lee 2014	40 62 67 82 95 96 109 116