	terests- ungulates	
Species and	Research interest description	Status update_Sep 2016
pop'n/location		
Porcupine caribou	How many Porcupine caribou are harvested, age class, sex, harvest location? What is harvester response rate in each community?	ongoing; data collected through Gwich'in Harvest Study; low reporting 2015-2016
Porcupine caribou	What is herd size, mortality rates, survivorship, sex and age class size and ratios?	ongoing PCMB, ENR
Cape Bathurst; Bluenose-west caribou	What is herd size, sex and age class size and ratios?	surveys conducted in 2006, 2009, 2012, 2015; subject of draft management plan
Porcupine caribou	Have migratory routes, or calving grounds changed?	РСМВ, АВЕКС
Woodland caribou- Boreal population	Assessed as Threatened in NWT by SAR, recovery strategy being developed	
Woodland caribou- Northern Mountain population in southern GSA-Bonnetplume herd	Interest_Surveys on mountain woodland caribou in the southern GSA. Note that there is no survey info since the 1980s. Assessed as Species of Concern by COSEWIC (federal). Expected to be listed in Fall 2016. concern raised by Doug Doan at Feb 2016 GRRB meeting	
Muskox *Northern Richardson Mtns	What is herd size, sex and age class size and ratios?	Research Ongoing: April 2016 Survey of North Slope (Alaska, Yukon & NWT, also included Northern Richardsons); Caribou-muskox observations summer 2016; More collaring Sept 2016.
Dall's sheep *Northern Richardson Mtns	Community monitoring program coordination	2016 Additional prep work done for more camera monitoring. ERRC interested in partnering for 2017
Dall's sheep *Northern Richardson Mtns	Dall's sheep lamb survival and population ratios	
Dall's sheep *Northern Richardson Mtns	communication to communities	Ongoing. Project this year to update RRCs on mgt planning. Currently scheduling meetings w/ RRCs for 2016 2017

Dall's sheep *Northern Richardson Mtns	Current status report	Status reports provided by YT in 2011, next status update unknown
Dall's sheep *Northern Richardson Mtns	Dall's sheep population trend information including TK	Next population survey should occur in 2017 (to help set priorities). Actions identified in Draft Management Plan 2008.
Dall's sheep *Northern Richardson Mtns	What are population indicators?	This is an action in the mgt plan.
Dall's sheep *Northern Richardson Mtns	How does the harvest affect this population? What is sustainable level of harvest?	

Species and	Research interest description	Status update_Aug 2016
pop'n/location	, , , , , , , , , , , , , , , , , , ,	
Dall's sheep	How to establish a sensitive habitat	This is an action in the mgt plan.
*Northern	decision making protocol.	
Richardson Mtns		
Dall's sheep	What vegetation information is required to	This is an action in the mgt plan.
*Northern	evaluate sheep range? Vegetation survey?	
Richardson Mtns		
Dall's sheep	aerial survey - population trend	Conducted in 2006, 2010 and 2014
*Northern	information	- pop'n estimate 496 (2014)
Richardson Mtns		
Dall's sheep	What are risks to sheep range?	This is an action in the mgt plan.
*Northern		
Richardson Mtns		
Dall's sheep	Evaluate impacts of development on Dall's	This is an action in the mgt plan.
*Northern	sheep range.	
Richardson Mtns		
Dall's sheep	What are important health risks to sheep	This is an action in the mgt plan.
*Northern	that can affect this population?	
Richardson Mtns		
Dall's sheep	How do predators affect sheep	Richardson project (C.L.Koizumi)
*Northern	population?	and thesis examined this. Initial
Richardson Mtns		work conducted.
Moose	Are management plan actions current? Has moose population changed between 2006 and 2011?	Actions identified in Moose Management Plan 2000. Last population survey was in 2011. Density estimate was calculated in 8 survey blocks. Poster produced and shared w/communities.

GRRB Research in	terests-Fur bearers	
Species and	Research interest description	Status update_Aug 2016
pop'n/location		
Otter	What is abundance and distribution of otter? What is their diet? What impact are they having on other species? Ex beaver and muskrat	GRRB - local knowledge pilot project - 2013 COMPLETE
Grizzly bear	Are management plan actions current?	Actions identified in Management Agreement 2006
Grizzly bear	What is the estimated grizzly bear population in the GSA? Is full GSA survey required, or localized to seasonal concentrations ex. along highway in hunting season?	Actions identified in Management Agreement for Grizzly bears in GSA 2006; GRRB lead - grizzly human interaction on Dempster - 2013; Communication materials distributed 2013-2016
Grizzly bear	grizzly- human interaction on Dempster highway; more data on Dempster grizzly pop'n	RI added Sep 2016
Wolf	Have wolf populations increased locally? Are they having a significant impact on caribou and moose?	
Beaver	What is the current estimated population of beaver? What impact are they having on other species?	
Muskrat	What is the current estimated population of muskrat? Community members are concerned that populations may be declining.	Brietzke_ UVic - research 2015, 2016
Snowshoe hare	What is hare population estimate near Ft	GRRB lead in Inuvik_ ENR_Small
*Ft McPherson region	McPherson? Is trend in rabbit population due to natural cycle?	Mammal Survey - ongoing
GRRB Research in	terests- Birds and insects	
Species and	Research interest description	Status update_Aug 2016
pop'n/location		_
Peregrine falcon *Campbell Hills	What impacts have recent developments had on Peregrine falcon populations? (gravel extraction, Territorial Park, increased flights from Airport)	peregrine falcon mitigation during construction of trails 2013-2014

Songbirds *Mackenzie Delta	Assess current abundance and distribution of swallows and other songbirds in Delta; interest in future bank swallow surveys on Peel at 8 Mi	bank swallow survey-GRRC AFSAR funded - 2014 - Mackenzie river route; 2015 - GSA quarries_COMPLETE
Songbirds *Mackenzie Delta/Aklavik	Concern about general decline in songbird populations. What impact do ravens have on local songbird poulations around Aklavik ? (Ian McLeod_Aug 2016)	
Snipes	population survey, appear to be in decline. James Andre-Feb 2016	
Insects	Range expansion. Are 'new' insects becoming established in the GSA?	
GRRB - Research	interests- Dolly Varden char	
Species and pop'n/location	Research interest description	Status update_Aug 2016
Dolly Varden *Shingle Point	Stock identification and composition of mixed stock fishery	project leads: DFO/FJMC/ AHTC survey last conducted 2012
Dolly Varden *Rat River	Monitoring of critical habitat; Assessment of new habitats	habitat monitoring has not yet been conducted
Dolly Varden_All	Develop and present curriculum based DV conservation program for K-12	interest added 2015, subject to funding
Dolly Varden *Rat River	Population monitoring	project lead: DFO Pop`n assessments conducted
nac nive.		2009-2012; project continued - 2014, 2015
Dolly Varden Big Fish River	Stock identification and composition	

DV health monitoring - char monitors to	project leads: DFO/EC
collect kidney samples for health	no kidney sampling in 2012;
assessment	project status uncertain
Obtain species' baseline biological information	IFMP priority for Species at Risk Act (SARA); recommend to
	conduct research before 2015; Arctic Red project - 2015, 2016
	collect kidney samples for health assessment  Obtain species' baseline biological

Species and pop'n/location	Research interest description	Status update_Aug 2016
Lake Trout	monitor habitat parameters to determine	DONE Lake trout studies Airport
* Airport Lake	whether Airport Lake development is impacting Lake Trout habitat	Lake, Deep Water - 2013-2014
Salmon species *Mackenzie River	Salmon species (chum, coho, pink, sockeye) are being caught more frequently in the Mackenzie River system. Are salmon becoming established in the GSA? Are populations sufficient for sustainable	Project lead: DFO salmon collection project , 2011-2014 data collection in Mackenzie River system
Loche *Mackenzie Delta	data collection for monitoring purposes (Amy Amos)	DONE_Loche data collected for 2 years on genetics, parasites
Loche *Mackenzie Delta	concern about 'bad loche', soft flesh, story of a fisher only keeping 8/20 fish (fall 2016) b/c rest were 'bad'. Are there contaminants?(Wanda McLeod, Nov 2016)	
Coney *Mackenzie River	Coney observed in nets all summer rather than few weeks in July and have been found in areas not seen previously. Are they expanding their range and season?	June 2012 - staff recommend this be re-prioritized/re-defined as community concerns arise
Whitefish and coney *Peel, Arctic Red, Mackenzie Rivers	abnormalities observed in fish organs, including sperm ducts and egss, (harder than normal), black spots on fish livers, red scars on whitefish and coney skin, fish flesh not firm. Are fish healthy?	
Whitefish and coney *Peel, Arctic Red, Mackenzie Rivers	What is the relationship between flesh firmness and water temperature, time of year (spring to fall) and location (river, lake, creek)? Harvesters have observed that the flesh of whitefish caught near Tsiigehtchic is generally firmer than those caught near Ft. McPherson.	

Whitefish and coney	Harvesters (Richard Ross, John Carmichael)	
*Peel, Arctic Red,	have noticed unusual stomach contents	
Mackenzie Rivers	including sand, in lake whitefish. What are	
	the stomach contents and why is sand	
	present?	
	presenti	
GRRB - Research i	nterests- other fish species	
Species and	Research interest description	Status update_Aug 2016
pop'n/location		
Lake Trout; Grayling;	Can lakes of the GSA sustainably support a	DONE_Lake trout studies Airport
N. Pike *Sandy,	sport fishing industry?	Lake, Deep Water - 2013-2014
Travaillant		
Least cisco (walleye)	concern about apparent declines TRRC_	
population	Feb 2015	
herring (pickerel?)	TRRC-Feb 2015	
population		
Other fish species	Range expansion? Arctic char observed in	Chii Tiet (drains into Mackenzie
*Nagwichoonjik	the Mackenzie. Increasing numbers of	upstream of Tsiig ferry, west)
(Mackenzie River) ;	walleye (pickerel) in Chii Tiet .	
Chii Tiet		
GPPR Pasaarch in	terests- Forestry and vegetation	
Species and	Research interest description	Status update_Aug 2016
pop'n/location		
Vegetation survey	What are dominant vegetation types in	
	association with particular ecosystems in	
	GSA?	
Forest disturbance -	What are sustainable forest harvesting	Forest Management Plan
harvesting	levels in the GSA?	approved August 2012
Forest disturbance -	How are forest fires likely to behave in the	Refer to ENR forestry division
fire	GSA and under what conditions?	
Forest disturbance -	Are spruce budworm or pine beetle	ENR Forestry regularly updates on
insects	negatively impacting forests in the GSA?	this. See their updates to the GRRE
		at meetings and at RRC Regional

Forest disturbance -	Do flooding events negatively impact	ENR Forestry regularly updates on
flood	forests in the GSA? What are flood frequency intervals?	this. See their updates to the GRRB at meetings and at RRC Regional
Forest disturbance- development	How do forestry activities impact wildlife?	If Gwich'in Forest Management Plan being followed, cutting locations are being mapped and monitored, to help address this question.
Forest-commercial	How have forests and forest products in	See GFMP
use	the GSA been used commercially? Is there potential for forestry expansion?	
Vegetation-berries	Where are berries collected? Are these sites healthy? Can traditional collecting activities be sustained at these sites?	Refer to Gwich'in Culture Department
GRRB Research in	terests- Forestry and vegetation	
Species and pop'n/location	Research interest description	Status update_Aug 2016
	What medicinal plants are collected? Where are they collected? Are these sites healthy? Can traditional collecting activities be sustained at these sites?	Refer to Gwich'in Culture Department
Vegetation- traditional food	Species that have been traditionally collected such as rhubarb and bear root appear to be decreasing. Why aren't these species found where they used to be?	Refer to Gwich'in Culture Department
Vegetation-introduced spp	range expansion. Are introduced vegetation species becoming established in the GSA?	
spp		
spp	species becoming established in the GSA?	Status update_Aug 2016

effects of slumps on wildlife and habitat	concerns raised about whether slumps cause animals to avoid sites which may affect habitat use, caribou migratory routes	GRRB requests erosion/permafrost/slumping researchers report evidence of wildlife use or avoidance in these areas (summer 2015, 2016)
Erosion *Mackenzie River; Arctic Red River	Residents have observed increased frequency of river bank failure, especially during high water. Is this due to regularly occurring river processes or to permafrost melting?	Megaslump disturbance and impact on fish habitat on the Peel Plateau is subject of research by AANDC and others. Research supported by GRRB.
Aquatic habitat *Campbell Creek, Campbell Lake	Poorer fishing reported in system in recent years. Location close to proposed Mackenzie gas pipeline. NRRC would like baseline study prior to development	
Water quantity *Peel Channel, Mackenzie Delta, Arctic Red River	Fluctuating river levels affect travel on the river. What has river height and discharge volume been in recent years compared to historical data? What causes these fluctuations?	
GRRB Research int	terests- Environment and health Research interest description	Status update_Aug 2016
pop'n/location		
Water quantity	What is the cause of river level	
*Peel Channel,	fluctuations? How does this affect fish? Ex:	
Mackenzie Delta,	Peel River ferry closed 4X summer 2016,	
Arctic Red River Country Food	wind, high water  Country foods play important nutritional, cultural and spiritual role in the lives of the Gwich'in. It is feared that as the consumption of country food decreases, so does the health, culture and general well-being of Gwich'in.	Is not directly related to GRRB mandate. Refer to Gwich'in Culture Department

Water quality	Concerns about water quality expecially	concerns can be referred to Water
*Peel Channel,	after H. pylori found in Aklavik drinking	Resources Officer-ENR
Mackenzie Delta,	water (2008). Are these healthy rivers?	
Arctic Red River	What are contaminant levels?	
Water quality	Concerns about water quality raised due to	concerns can be referred to Water
* Peel Channel,	new developments on Peel and Mackenzie	Resources Officer-ENR
Mackenzie River	River watersheds. GTC would like to see	
upstream of	monitoring stations upstream of Fort	
communities	McPherson, Aklavik and Tsiigehtchic	