Whiskey Mountain Bighorn Sheep Summit
Professionals Meeting: March 14, 2019, Dubois, WY

WHISKEY MOUNTAIN BIGHORN SHEEP HERD: **SCIENTISTS' RECOMMENDATIONS: ACTION ITEMS AND RESEARCH NEEDS**	
#	**Disease: Action Items**
1.	What can we manage to mitigate the risk given the presence of the pathogens and the info we have now?
2.	Remove obviously ill sheep (ID clinical signs of sinus tumors?) ID's: observe yellow snot from nose.
3.	Remove mountain goats
4.	Talk to domestic sheep/goat owners in the area
5.	Pack goat decision & communication with public on SNF
6.	Teton Range herd risk list
7.	These pathogens are ubiquitous in sheep populations. We can't manage the pathogens.
	Disease: Research Needs
8.	Determine cause-specific lamb and ewe mortality from Kevin's study • Necropsy to ID pathogens • Ancillary sampling (nutritional condition, reproduction, pathogen presence, disease factors-ID strain type, movement, habitat use, interactions with other individuals, etc.)
9.	Population performance within sub-herds (high & low elevation)
10.	Citizen/hunters science support with volunteers (NBSC & others): protocol/process for observational data collection regarding lamb pneumonia
11.	Ewe harvest & sampling
12.	Work to use remote trail cameras
13.	Hunter harvest samples: Mandatory for all hunters in HA's go to labs (sinus tumors, m. ovi, etc.), photos

14.	Collate data from mineral & nutritional across BHS ranges (WY & beyond)
15.	Test & Cull possibly using drop net captures: Does data bear out that there are some chronically shedding ewes? sheep side tests, xrays (concerns: baiting, sampling equally for various m. ovi strains, strain typing). Look at subherds.
	Nutrition/Habitat: Action Items
16.	Prescribed burns (Torrey Rim, in Fitzpatrick Wilderness)
17.	Manage wildfires for habitat
18.	Invasive plant management (now & as part of fire management)
19.	Look into what herbicides cause selenium sequestration
	Nutrition/Habitat: Research Needs
20.	Mineral block supplements (captive & wild populations)
21.	Werner Flueck study (1994) replication with selenium
22.	Kevin's study (high & low elevation populations)
23.	Handling of BHS in order to assess nutritional status, disease, interactions between these factors in alpine resident populations
24.	Soil & geology analysis (summer ranges)
25.	Imagery of landscape over time (summer range)
26.	Review GPS data for movement & energy expenditure between Whiskey Mountain, Jackson & Cody herds