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| **WHISKEY MOUNTAIN BIGHORN SHEEP HERD:**  **SCIENTISTS’ RECOMMENDATIONS: ACTION ITEMS AND RESEARCH NEEDS** | |
| **#** | **Disease: Action Items** |
|  | What can we manage to mitigate the risk given the presence of the pathogens and the info we have now? |
|  | Remove obviously ill sheep (ID clinical signs of sinus tumors?) ID’s: observe yellow snot from nose. |
|  | Remove mountain goats |
|  | Talk to domestic sheep/goat owners in the area |
|  | Pack goat decision & communication with public on SNF |
|  | Teton Range herd risk list |
|  | These pathogens are ubiquitous in sheep populations. We can’t manage the pathogens. |
|  | **Disease: Research Needs** |
|  | 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.) |
|  | Population performance within sub-herds (high & low elevation) |
|  | Citizen/hunters science support with volunteers (NBSC & others): protocol/process for observational data collection regarding lamb pneumonia |
|  | Ewe harvest & sampling |
|  | Work to use remote trail cameras |
|  | Hunter harvest samples: Mandatory for all hunters in HA’s go to labs (sinus tumors, m. ovi, etc.), photos |
|  | Collate data from mineral & nutritional across BHS ranges (WY & beyond) |
|  | 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** |
|  | Prescribed burns (Torrey Rim, in Fitzpatrick Wilderness) |
|  | Manage wildfires for habitat |
|  | Invasive plant management (now & as part of fire management) |
|  | Look into what herbicides cause selenium sequestration |
|  | **Nutrition/Habitat: Research Needs** |
|  | Mineral block supplements (captive & wild populations) |
|  | Werner Flueck study (1994) replication with selenium |
|  | Kevin’s study (high & low elevation populations) |
|  | Handling of BHS in order to assess nutritional status, disease, interactions between these factors in alpine resident populations |
|  | Soil & geology analysis (summer ranges) |
|  | Imagery of landscape over time (summer range) |
|  | Review GPS data for movement & energy expenditure between Whiskey Mountain, Jackson & Cody herds |