Subject	Name (if any)	Is This Protocol Simple, Complex, or In-between?	Specifies Measurements/ Observations?	Specifies Methods?	Specifies Additional Topic?	Who Uses This Protocol?	Who Developed It?	Where Is Documentation Available?	Where Are Data/Information Stored?
Aquatic invertebrates	WYNDD aquatic invertebrate surveys	Simple (some equipment needed)	Yes	Yes	Collecting specimens	State agency biologists, researchers	Lusha Tronstad	Lusha Tronstad (tronstad@uwyo.edu)	WYNDD
Terrestrial snails	WYNDD terrestrial snail surveys	Simple	No	Yes	Collecting specimens	State agency biologists, individuals	Lusha Tronstad	Lusha Tronstad (tronstad@uwyo.edu)	WYNDD
Freshwater shrimp	WYNDD freshwater shrimp surveys	Simple	No	Yes	Collecting specimens	State agency biologists, individuals	Lusha Tronstad	Lusha Tronstad (tronstad@uwyo.edu)	WYNDD
Amphibian surveys	Rocky Mountain Amphibian Project	Simple	Yes	Yes		Biologists participating in Rocky Mtn Amphib Project	Wendy Estes- Zumpf, Laurissa Bailey, Zack Walker	http://www.wyobiodiversity.org/ Initiatives- Programs/graphic-design/rocky- mountain-amphibian- project/monitoring	Rocky Mountain Amphibian Project
Raptor nest monitoring	Statewide raptor nest monitoring data sheet	In- between	Yes	No		Being developed. Tested in 2017 by WGFD, Teton Raptor Center, Great Plains Wildlife Consulting	Andrea Orabona (WGFD) and Gwyn McKee (Great Plains Wildlife Consulting) with others	Andrea Orabona (Andrea.Orabona @wyo.gov)	WYNDD database (planned)
Songbird Survey	Integrated Monitoring In Bird Conservation Regions (IMBCR)	Complex	Yes	Yes	Data entry, storage, and proofing; methods of drawing samples	State and federal agencies in many states	Rocky Mountain Bird Observatory with state and federal partners	https://birdconservancy.org/wha t-we- do/science/monitoring/imbcr- program/	WYNDD, Rocky Mtn Avian Data Center, other heritage programs, NRIS,

## STANDARD PROTOCOLS FOR FIELD SURVEYS

## Some Protocols Used In Wyomng

Subject	Name (if any)	Is This Protocol Simple, Complex, or In-between?	Specifies Measurements/Ob servations?	Specifies Methods?	Specifies Additional Topic?	Who Uses This Protocol?	Who Developed	Where Is Documentation Available?	Where Are Data/Information Stored?
Bat survey	A Conser- vation Plan For Bats In Wyo	ln- between	Sort of	Sort	Different acoustic and capture methods (but does not guide one in which to select)	Wyo Game & Fish Dept. biologists	Wyo Game & Fish Dept. biologists	https:// wgfd.wyo.gov/ Wildlife-in-Wyo/More-Wildlife/ Nongame-Birds	WOS, WYNDD files
Occurrence of multiple species (birds, mammals, amphibians), negative data, and survey effort.	BLM Buffalo Field Office Wildlife Protocols	ln- between	Yes	Yes		BLM staff and consultants	Staff in BLM Buffalo Field Office (2005, modified 2017)	BLM Buffalo Field Office	BLM Wyo High Plains District
Encyclopedic: parameters for ungulates, large mammalian predators (trophy game), small mammals, game birds, non-game birds, and vegetation	Wyo Game & Fish Dept. Handbook of Biological Techniques	Complex	Yes	Yes		Wyo Game & Fish Dept. biologists	Wyo Game & Fish Dept. biologists	https:// wgfd.wyo.gov/ Wildlife-in- Wyo/More-Wildlife/ Handbook- Bio-Techniques	WOS? Local Dept. files?
Core ecosystem indicators (incl. vegetation structure, soil cover, soil features)	BLM Nat'l Assess- ment, Inven- tory, and Monitoring Strategy	Complex	Yes	Yes	Data management	BLM staff and contractors	USDI Bureau of Land Mgmt & USDA Ag Research Service	http://jornada. nmsu.edu/aim	BLM's National Operations Center
Vegetation reconnaissance surveys	WYNDD Vegetation Reconnais- sance	Simple	Yes	Yes		WYNDD biologists	WYNDD (George Jones)	George Jones (gpjones@ uwyo.edu)	WYNDD database