Bonderman Field Station at Rio Mesa 2020 Bird Banding Report







Cover Photos, clockwise from top left: Williamson's Sapsucker, Sage Thrasher, MacGillivray's Warbler, Sharp-shinned Hawk, and Green-tailed Towhee. All captured and banded during fall 2020 at the Rio Mesa banding station. Pictures taken by Kyle Kittelberger and Megan Miller.

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Station Overview

Statistics

| | Station Lifetime Totals |
|-------------------------|----------------------------|
| Species Observed | 183 |
| Species Caught | 129 |
| Species Banded | 121 |
| Overall Captures | 17,084 |
| Birds Banded | 13,505 |
| Banding Days | 972 |

Our Mission

The primary purpose of our project is to understand the ecology and migratory patterns of the bird community at the Bonderman Field Station at Rio Mesa using mist-netting and bird banding. We capture and band birds to gain valuable insights into population size, community structure, the timing of migration, and how avian groups are responding to anthropogenic threats. We are also dedicated to outreach and education. Birds are an exceptional flagship group to help instill interest in conservation and the environment¹ and every year we welcome hundreds of visitors to our station where people from all walks of life can receive hands-on education about nature, ecology, ornithology and conservation.

Bonderman Field Station at Rio Mesa

Rio Mesa represents an ideal location to conduct ornithological research. Riparian zones, like Rio Mesa's Dolores River, comprise a disproportionately important habitat in the arid Intermountain West. Birds, in particular, depend heavily on this delicate environment, and riparian zones serve as critical migratory corridors for birds moving through an otherwise harsh area². Riparian zones are also under severe threat from climate change³. With the growing threat of global change we, more than ever, need a detailed understanding of the ecology of riparian habitats and the organisms that depend on them.

Our Research

Our station follows standard protocol developed by the Monitoring Avian Productivity and Survivorship program (MAPS)⁴. We operate sixteen 12 x 2.5 meter mist-nets that are opened 30 minutes before sunrise and remain open for six hours. Nets are open 10 out of every 12 days from late August to early November. Nets are checked





every 30 minutes and any birds are extracted and taken back to the banding office for processing. Each bird is fitted with a metal leg band issued by the United States Geological Survey (USGS). This allows us to track the capture history for every individual bird and perform robust mark-recapture analyses to estimate changes in demographic rates⁵. We also take a suite of morphological and demographic measurements from each bird including sex, age, fat content, breeding state, molt stage, wing length, and body mass. These data allow us to describe the bird community at Rio Mesa as well as monitor the health of individuals as they undergo their yearly migration.

<u>2020</u>

Due to the unprecedented global coronavirus pandemic, we did not band during the spring but resumed in the fall, banding from August 31 through November 3. This fall was our 18th banding season, representing 9 ½ years of banding data from Rio Mesa. These data make our station one of the longest-running bird banding operations in Utah and one of only two passerine (songbird) stations currently operating in the state (the other station being our bird banding station in Red Butte Canyon, near Salt Lake City). Some notable captures this fall included our first Least Flycatcher and our second ever American Kestrel and Golden-crowned Sparrow. This fall also happened to be one of our most productive in terms of diversity and number of captured birds. Also of note this fall was an historic snowstorm in early September, part of a larger storm across the Interior West. We also observed a notable number of emaciated and lethargic birds, especially around this storm.

Statistics

| | 2020 Totals |
|-----------------------|-------------|
| Species Caught | 68 |
| Species Banded | 61 |
| Total Captures | 1,190 |
| Birds Banded | 918 |
| Banding Days | 55 |

Participants

In the fall, our banding team consisted of lead bander Megan Miller (who is returning to band for us in spring 2021) and volunteers Jenna Breckel and Amanda Tveite. Nikolas Orton and Brandy Bowmaster also assisted at times during the season. Our volunteers come to Rio Mesa from across the country with varying degrees of experience working with birds. Our station is dedicated to providing educational opportunities to volunteers of all skill levels and by the end, they are highly competent banders.

Due to the ongoing coronavirus pandemic, our station did not host any group visitors this season.





Future Directions

The next few years promise to be an exciting time for our ornithological research at Rio Mesa. First, with additional years of data, our ability to accurately monitor the changes in bird populations and community composition will improve greatly and we will soon be able to estimate migratory arrival and departure dates. These data are especially important now given the accelerating pace of climate change and the ramifications for riparian ecosystems⁹. Second, we are now beginning to analyze our data, so the next several years will hopefully see multiple papers based on our banding efforts.

Our first paper based on Rio Mesa data is looking at the past five years of banding to assess the potential effects of wildfires in the western United States on fall bird migration, specifical the total number of captures and bird body condition. This is the first paper of its kind to look at this relationship and one of the few studies to utilize bird banding data to evaluate effects of fires on birds. We hope to have this paper accepted for publication before the start of the next fall season. We are also going to be introducing an emaciation scale during 2021 and test this scale across the fall and spring seasons. We will likely write a paper on this emaciation scale after the next fall season.

Our work at Rio Mesa will continue to be the only location in Utah producing this kind of valuable data and will be integral in developing conservation approaches for migratory birds in the near future. We also plan to restart our outreach program in the near future, perhaps in the fall, bringing several groups to the station. These efforts will help more people understand the necessity of conservation biology, ecology and ornithology research and the importance of ensuring healthy ecosystems.

Literature Cited

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Appendix: Capture rates for all species caught at Rio Mesa from 2011 to 2019. Species with no capture records have only been observed

| Species Name | Totals | | | |
|-------------------------------|------------------|--------------------|--------------------|--|
| | Number Banded | Number Recaught | Number Unbanded | |
| Waterfowl | | | | |
| Canada Goose | | | | |
| Mallard | | | | |
| Blue-winged Teal | | | | |
| Cinnamon Teal | | | | |
| Northern Shoveler | | | | |
| Green-winged Teal | | | | |
| Common Merganser | | | | |
| Duck spp. | | | | |
| Grouse, Quails, and Allies | | | | |
| Chukar | | | | |
| Wild Turkey | | | 4 | |
| Grebes | | | | |
| Pied-billed Grebe | | | | |
| Herons, Ibis, and Allies | | | | |
| Great Blue Heron | | | | |
| Great Egret | | | | |
| Snowy Egret | | | | |
| White-faced Ibis | | | | |
| Vultures, Hawks, and Allies | | | | |
| Turkey Vulture | | | | |
| Osprey | | | | |
| Golden Eagle | | | | |
| Northern Harrier | | | | |
| Sharp-shinned Hawk | 8 | | | |
| Cooper's Hawk | 1 | | | |
| Northern Goshawk | | | | |
| Bald Eagle | | | | |
| Swainson's Hawk | | | | |
| Red-tailed Hawk | | | | |
| Rough-legged Hawk | | | | |
| Rails, Gallinules, and Allies | | | | |
| Sora | 1 | | | |





| <u>Shorebirds</u> | | | |
|---------------------------|----|---|-----|
| Killdeer | | | |
| Wilson's Snipe | | | |
| Spotted Sandpiper | 1 | | |
| Pigeons and Doves | | | |
| Rock Pigeon | | | |
| Band-tailed Pigeon | | | |
| Eurasian-collared Dove | | | |
| White-winged Dove | | | |
| Inca Dove | 1 | | |
| Mourning Dove | 20 | | 6 |
| Owls | | | |
| Western Screech-Owl | 2 | | |
| Great Horned Owl | | | |
| Northern Saw-whet Owl | 2 | | |
| <u>Nightjars</u> | | | |
| Common Nightawk | | | |
| Common Poorwill | 2 | | |
| <u>Swifts</u> | | | |
| Vaux's Swift | | | |
| White-throated Swift | 4 | | 4 |
| Hummingbirds | | | |
| Costa's Hummingbird | | | 1 |
| Black-chinned Hummingbird | | | 186 |
| Broad-tailed Hummingbird | | | 29 |
| Calliope Hummingbird | | | 11 |
| Rufous Hummingbird | | | 64 |
| Hummingbird spp. | | | 6 |
| <u>Kingfishers</u> | | | |
| Belted Kingfisher | | | |
| Woodpeckers | | | |
| Williamson's Sapsucker | 4 | 2 | |
| Yellow-bellied Sapsucker | | | |
| Red-naped Sapsucker | 44 | 2 | |
| Downy Woodpecker | 4 | | 1 |
| Hairy Woodpecker | 2 | | |
| Lowis's Moodpocker | | | |
| Lewis's Woodpecker | | | |





| American Kestrel2Image: constraint of the system of | Falcons and Caracaras | | | |
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| MerlinImage: scalar | | 2 | | |
| Prairie FalconImage: section of the secti | | | | |
| Prairie FalconImage: section of the secti | Peregrine Falcon | | | |
| Olive-sided Flycatcher3Image: science of the sc | | | | |
| Olive-sided Flycatcher3Image: science of the sc | Flycatchers and Allies | | | |
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| Loggerhead Shrike8Image: constraint of the stress of | Flycatcher spp. | 50 | 4 | 5 |
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| Crows and JaysImage: Crows and JaysPinyon JayImage: Crows and JaysWoodhouse's Scrub-jay29Black-billed MagpieImage: CrowsAmerican CrowImage: Crows | Gray Vireo | 41 | 10 | |
| Pinyon JayImage: Constraint of the second secon | Red-eyed Vireo | 1 | | |
| Woodhouse's Scrub-jay2911Black-billed MagpieAmerican Crow | Crows and Jays | | | |
| Black-billed Magpie American Crow | Pinyon Jay | | | |
| American Crow | Woodhouse's Scrub-jay | 29 | 1 | 1 |
| | Black-billed Magpie | | | |
| Common Raven | American Crow | | | |
| | Common Raven | | | |





| Horned Lark | | | |
|-----------------------------------|-----|-----|----|
| | | | |
| Martins and Swallows | | | |
| Northern Rough-winged Swallow | | | |
| Tree Swallow | | | |
| Violet-green Swallow | 18 | | |
| Bank Swallow | | | |
| Barn Swallow | 1 | | |
| Cliff Swallow | 2 | | |
| Chickadees and Allies | | | |
| Black-capped Chickadee | 52 | 23 | |
| Mountain Chickadee | 36 | 8 | |
| Mountain x Black-capped Chickadee | 3 | 1 | |
| Juniper Titmouse | 7 | 1 | |
| Bushtit | 269 | 81 | 18 |
| Nuthatches and Creepers | | | |
| Brown Creeper | 3 | | |
| Red-breasted Nuthatch | 3 | | |
| White-breasted Nuthatch | | | |
| Wrens | | | |
| Bewick's Wren | 227 | 82 | 14 |
| Rock Wren | 21 | 11 | |
| Canyon Wren | 14 | 10 | 1 |
| House Wren | 95 | 22 | 1 |
| Winter Wren | 1 | | |
| Marsh Wren | 44 | | 2 |
| Gnatcatchers and Kinglets | | | |
| Blue-gray Gnatcatcher | 745 | 152 | 21 |
| Golden-crowned Kinglet | 2 | | |
| Ruby-crowned Kinglet | 581 | 97 | 30 |
| Thrushes | | | |
| Mountain Bluebird | 2 | | |
| Western Bluebird | | | |
| Townsend's Solitaire | 12 | 2 | |
| Swainson's Thrush | 22 | 3 | 1 |
| Hermit Thrush | 251 | 60 | 3 |
| American Robin | 37 | 19 | 2 |
| Mockingbirds and Thrashers | | | |
| Gray Catbird | 46 | 3 | |





| Northern Mockingbird | 13 | 3 | 3 |
|-----------------------------------|------|-----|----|
| Brown Thrasher | 1 | | |
| Sage Thrasher | 61 | 23 | 1 |
| Starlings and Mynas | | | |
| European Starling | | | |
| Wagtails and Pipits | | | |
| American Pipit | | | |
| Waxwings and Dippers | | | |
| Cedar Waxwing | 3 | | |
| American Dipper | | | |
| Wood Warblers | | | |
| Northern Waterthrush | 29 | | |
| Orange-crowned Warbler | 322 | 41 | 1 |
| Nashville Warbler | 41 | 4 | |
| Virginia's Warbler | 98 | 12 | |
| Lucy's Warbler | 60 | 70 | 1 |
| MacGillivray's Warbler | 448 | 48 | 6 |
| Common Yellowthroat | 179 | 3 | 2 |
| American Redstart | 2 | 1 | |
| Northern Parula | 2 | | |
| Magnolia Warbler | 1 | 1 | |
| Yellow Warbler | 617 | 105 | 3 |
| Black-throated Blue Warbler | 1 | 1 | |
| Palm Warbler | 1 | | |
| Yellow-rumped Warbler | 28 | | 1 |
| Yellow-rumped Warbler (Audubon's) | 534 | 29 | 5 |
| Yellow-rumped Warbler (Myrtle) | 30 | 6 | |
| Yellow-rumped Warbler (MxA) | 7 | | |
| Black-throated Gray Warbler | 13 | | |
| Townsend's Warbler | 4 | | |
| Wilson's Warbler | 1129 | 92 | 17 |
| Yellow-breasted Chat | 647 | 473 | 17 |
| Warbler spp. | | | 1 |
| Sparrows | | | |
| Green-tailed Towhee | 100 | 42 | |
| Spotted Towhee | 356 | 160 | 20 |
| Vesper Sparrow | 27 | | 2 |
| American Tree Sparrow | 2 | | |
| Chipping Sparrow | 77 | 22 | |
| Clay-colored Sparrow | 12 | 6 | |





| | 602 | 420 | |
|----------------------------------|-----|-----|----|
| Brewer's Sparrow | 603 | 120 | 14 |
| Lark Sparrow | 29 | 3 | |
| Lark Bunting | | | |
| Black-throated Sparrow | 45 | | |
| Sagebrush Sparrow | 65 | 2 | |
| Savannah Sparrow | 2 | | |
| Song Sparrow | 812 | 245 | 16 |
| Lincoln's Sparrow | 458 | 74 | 12 |
| Grasshopper Sparrow | 6 | | |
| Fox Sparrow | 5 | | |
| Dark-eyed Junco | 13 | | 2 |
| Dark-eyed Junco (Gray-headed) | 8 | | 1 |
| Dark-eyed Junco (Oregon) | 339 | 122 | 10 |
| Dark-eyed Junco (Pink-sided) | 99 | 34 | 4 |
| Dark-eyed Junco (Slate-colored) | 10 | 4 | |
| White-throated Sparrow | 21 | 5 | 1 |
| White-crowned Sparrow (Mountain) | 271 | 17 | 5 |
| White-crowned Sparrow (Gambel's) | 679 | 263 | 39 |
| White-crowned Sparrow | 317 | 77 | 15 |
| Golden-crowned Sparrow | 2 | | |
| Sparrow spp. | 3 | | 2 |
| Cardinals | | | |
| Summer Tanager | 1 | | |
| Western Tanager | 274 | 14 | 2 |
| Rose-breasted Grosbeak | 1 | | |
| Black-headed Grosbeak | 91 | 4 | 2 |
| Blue Grosbeak | 69 | 12 | 2 |
| Lazuli Bunting | 130 | 27 | |
| Indigo Bunting | 6 | 1 | |
| Painted Bunting | | | 1 |
| Orioles and Blackbirds | | | |
| Red-winged Blackbird | 1 | | |
| Western Meadowlark | 3 | | |
| Yellow-headed Blackbird | 1 | | |
| Brewer's Blackbird | | | |
| Common Grackle | | | |
| Brown-headed Cowbird | 29 | 5 | 1 |
| Hooded Oriole | 2 | | - |
| Scott's Oriole | - | | |
| Bullock's Oriole | 72 | 15 | 1 |
| Duilock 3 Oliole | 12 | 10 | ± |





| Finches and Allies | | | |
|--------------------|-----|----|----|
| Cassin's Finch | 3 | | 1 |
| House Finch | 226 | 29 | 13 |
| Pine Siskin | 74 | 2 | 1 |
| Lesser Goldfinch | 61 | 1 | |
| American Goldfinch | 14 | | |
| Evening Grosbeak | | | |



