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IVANPAH SOLAR ELECTRIC GENERATING SYSTEM AVIAN & BAT MONITORING PLAN

2019 – 2020 Annual Report



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Section 1.0 Introduction

1.1 Project Background

The Ivanpah Solar Electric Generating System (referred to in this report as "Ivanpah" or "Project") consists of three solar power electrical generating facilities (Units 1, 2, and 3) with a combined net capacity of 377 megawatts. Each unit includes a central power tower with an air-cooled condenser (ACC) and associated electrical generating equipment, surrounded by a heliostat array that reflects sunlight to a boiler at the top of the power tower. Ivanpah is located on approximately 1,457 hectares (3,600 acres) of Bureau of Land Management (BLM) land west of Interstate 15 near the town of Nipton in San Bernardino County, California (Figure 1). Construction was initiated in 2010 and completed in late 2013.

1.2 Monitoring Plan Overview and Goals

An Avian & Bat Monitoring and Management Plan (ABMMP or Plan) was prepared by the Project proponents in collaboration with the U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), California Energy Commission (CEC), and Bureau of Land Management (BLM) to guide comprehensive monitoring of impacts to birds and bats associated with the operation of the Project. In December 2017, the TAC approved the field methods described in Revision 14 of the Plan (2020), which provides a framework for comparing detections in the tower area of all three units to baseline levels of mortality observed during the first four years of standardized monitoring.

The reporting, methods and analysis for Revision 14 of the Plan was officially approved by the TAC on October 23, 2020. Specifically, Revision 14 details the surveys, data analysis and reporting processes that will be implemented by Ivanpah in collaboration with the USFWS, CDFW, CEC, and BLM and provides the following goals and objectives as excerpted from the Plan (2020):

Plan Goals

1. Assess levels of mortality: Detections (i.e., fatalities or injuries) documented and an annual assessment of the level of mortality will be determined and provided consistent with the “high, medium and low” framework as described in Section 5.3.
2. Provide a Framework for Management and Response to Risks: The designation and description of the functioning of the TAC provides a management and decision framework for the identification and implementation of potential adaptive management measures.

Plan Objectives

The first two years of monitoring documented that the mortality associated with the perimeter fences, transmission lines, and offsite transects was less than 5 detections per season. Additionally, the patterns associated with avian use have been consistent over the seasons and documented in the annual reports. During the third and fourth year of monitoring, consistent patterns of mortality associated with the tower areas and heliostat areas were documented. Therefore, as revised, this Plan has the following objectives:

1. Document patterns of avian and bat mortality and injury at the facility.

2. Provide quantitative and qualitative information for developing and implementing adaptive management responses commensurate with identified impacts.
3. Provide a framework for the TAC to jointly review, characterize, and recommend responses, based on monitoring results, to the appropriate lead agency representatives.

The approved Plan (2020) continues to: 1) satisfy the BLM Right-of-Way (ROW) Permit requirement that the Project proponent develop an avian plan as well as a Migratory Bird Treaty Act (MBTA) Conservation Agreement; 2) satisfy the requirements for the Avian & Bat Monitoring and Management Plan approved by the CEC for Ivanpah per CEC Condition of Certification BIO-21; and 3) achieve the avian and bat protection objectives of the USFWS in relation to the MBTA, Bald and Golden Eagle Protection Act (Eagle Act), and Federal Endangered Species Act (ESA), including preparing written records of the actions that have been taken to avoid, minimize, and compensate for potential adverse impacts to avian and bat species. By developing a proactive management plan in close consultation with the USFWS and other relevant state and federal agencies, Project proponents can effectively comply with the intent of the federal MBTA, Eagle Act, ESA, and relevant state regulations (USFWS 2012).

1.3 Purpose of This Report

This report provides a summary of the detections (by cause and location for known and unknown cause according to the biologically informed seasons (16 December 2019 – 15 December 2020) as described in the 2014 – 2015 Annual Report (WEST 2016), and further described in Section 2.1.5. Biologically informed seasons are defined in this report as winter (16 December 2019 – 20 March 2020), spring (21 March – 25 May 2020), summer (26 May – 17 August 2020), and fall (18 August – 15 December 2020), and are collectively referred to as the 2019 – 2020 monitoring year or year 7 throughout this report.

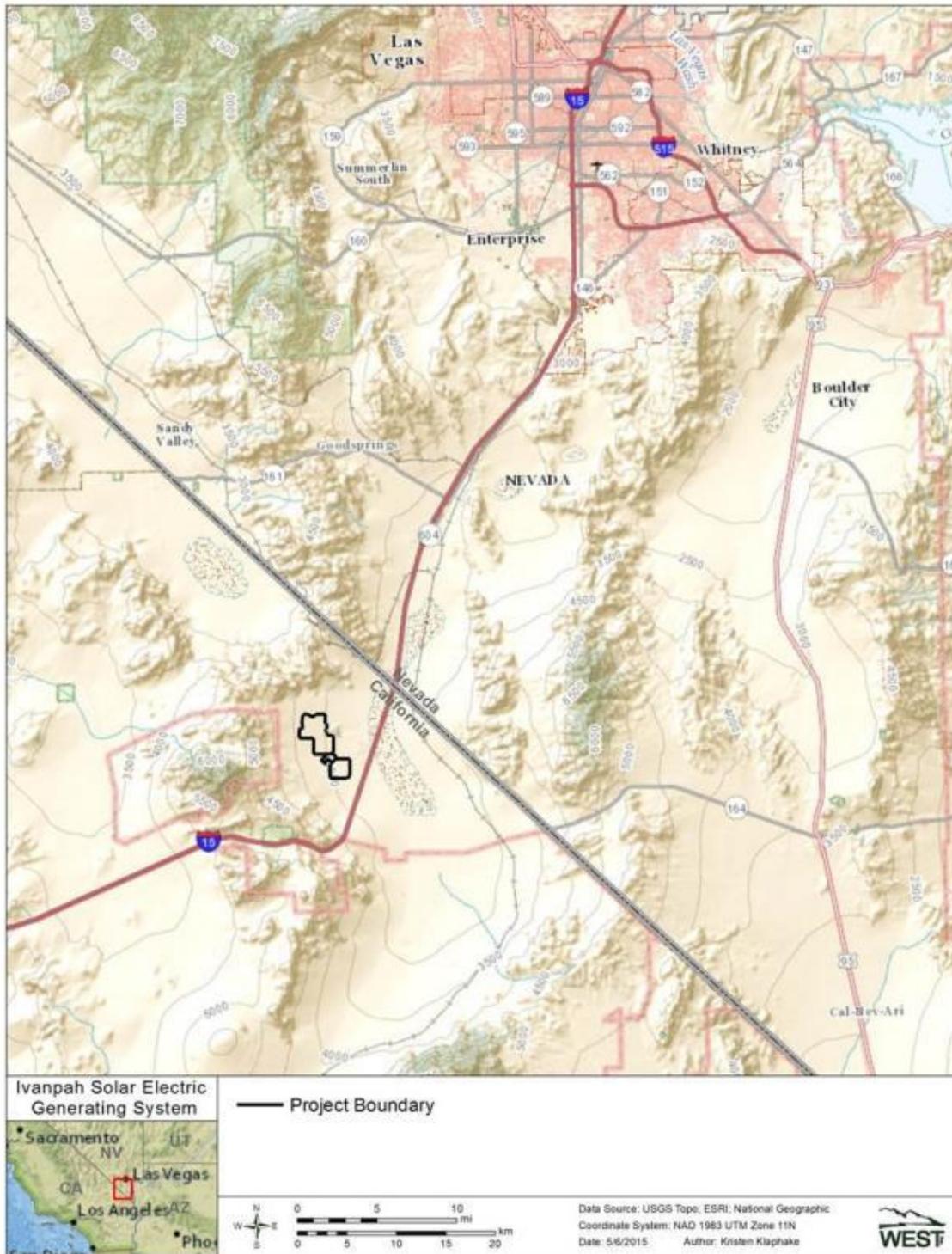


Figure 1. Ivanpah Vicinity Map.

Section 2.0 Methods

The approved Plan (2020) describes the methods by which monitoring and certain analyses, including comparison of detections the fatality index based on the first four years of monitoring, will occur. Below is an abridged description of the 2017 methods and subsequent modifications approved by the TAC.

2.1 Facility Monitoring

This section describes areas surveyed, the frequency and timing of the searches, and the methods by which standardized searches were conducted to identify dead/injured birds and bats (hereafter detections) at the Project. This section also describes the methods for conducting carcass removal and searcher efficiency trials; how data were reported and analyzed for incidental detections; and the methods for producing fatality estimates for the Project.

2.1.1 Standardized Searches

2.1.1.1 Areas Surveyed

Per the approved Plan (2020), monitoring was conducted in the “tower area”, defined as the power block (the area consisting of the tower, the ACC unit, the associated control building, and immediately adjacent areas defined by the ring road and berm/slopes surrounding these facilities) and inner high-density (HD) heliostats surrounding each power block.

2.1.1.2 Search Frequency and Timing

Standardized searches occurred at each unit on a 21-day interval in summer and winter seasons, with a 7-day interval in the spring and fall seasons until December 31, 2017. With approval from the TAC on December 21, 2017, standardized search frequency was undertaken at each unit on a 14-day interval beginning January 14, 2018 as per the approved Plan (2020).

2.1.1.3 Search Methods

Biologists performed surveys in the tower area. Standardized walking surveys for fatalities were performed by biologists approved by CEC and BLM, in accordance with the methods outlined in the approved Plan (2020). Surveys were conducted approximately every 14 days, resulting in 24-26 surveys of the power block, ACC, and inner HD heliostats at each of the three units. Variability in search schedule visits was due to operational maintenance and weather conditions. Within the power block, biologists or operations staff walked through and around the power tower and ACC unit searching for dead and injured birds and bats and walked transects through the gravel surrounding the structures to achieve 100% coverage within physically accessible areas. Within the inner HD heliostats surrounding each power block, biologists or operations personnel walked transects to ensure 100% coverage. Thus, the tower area, comprising the area within 260 m of each tower, was completely covered during each survey, excepting any areas that were physically inaccessible or unsafe to survey. Inaccessible areas were, to the extent possible, scanned using binoculars. Detections are processed following methods described in the approved Plan (2020).

Carcass and Feather Spot Examination. Every carcass and feather spot were examined visually by a biologist approved by the CEC and BLM for evidence of singeing or collision. Singeing to feathers can

occur when a bird enters the flux around the power tower. When no obvious evidence of singeing or collision was evident to the naked eye, the carcass or feather spot was then examined using an AmScope SE306R-AZ-E2 20X-40X-80X Digital Binocular Stereo Microscope. When singed detections involving carcasses (as opposed to only feather spots) were found, the singeing was assigned a grade based on Kagan et al. (2014), as follows.

- Grade 1 – curling of less than 50% of the flight feathers
- Grade 2 – curling of 50% or more of the flight feathers
- Grade 3 – curling and visible charring of contour feathers

Kagan et al. (2014) originally found no singeing of contour feathers in the absence of curling of 50% or more of the flight feathers. In contrast, we have found singeing of contour feathers with curling of less than 50% of flight feathers, and in the absence of curling or singeing of any flight feathers. We therefore assigned grade 3 independent of grades 1 and 2.

When a carcass was detected, biologists looked for evidence of collision, including obvious physical trauma or detection adjacent to a heliostat with a bird-strike imprint, smudge mark, and/or feathers on or near the surface of the mirror. If there was no evidence of collision or singeing (e.g., charring, curling, or melting of feathers), as confirmed through microscopic examination, the cause of injury or fatality was listed as “unknown”.

For the purpose of these surveys, feather spots were considered detections when they met the following definition:

At least two or more primary flight feathers, 5 or more tail feathers, or 10 or more feathers of any type concentrated together in an area 1-m² or smaller (Smallwood 2007), without any bone, beak, or significant amounts of flesh or skin.

In some cases, an individual detection was broken up into aggregations of feathers that would meet the criteria for a feather spot, but with pieces of the carcass that contained bone or significant amounts of flesh or skin also present. In these cases, the detection was categorized as a partial carcass (rather than a feather spot), per the “feather spot” definition above.

2.1.4 Incidental Reporting

All incidental detections are reported in the Special Purpose Utility (SPUT) permit database as per the requirements of the USFWS. Incidental detections are those discovered outside standardized search areas or are found within search areas but not during standardized searches. Detections at locations not searched under the approved Plan (2020) such as the heliostat area or fenceline are also considered incidental detections for this report. These detections are reported in accordance with the facility's Wildlife Incident Reporting System (described in Section 3.4 of the Plan) and are considered “incidental” detections.

Incidental detections are processed the same as all detections following methods described in the approved Plan (2020).

Biologically Informed Seasons. In an effort to address the annual variation in migration seasons for non-resident birds, a stepwise, data-driven process was used to define biologically informed seasons in association with the 2014 – 2015 Annual Report. As described in that report, all bird species found as detections at Ivanpah were categorized as resident or non-resident. Resident species were defined as those that occur year-round, such as a black-throated sparrow. These species would be expected to have a more similar fatality risk profile year-round than non-resident species. Non-resident species were defined as either those that are transient (e.g., passing through the area during migration such as yellow-rumped warbler) or seasonal resident (e.g., those species that migrate into the areas to overwinter or breed on an annual basis such as tree swallow), and therefore would be expected to have periodic risk. Based on the dates of non-resident species observed in the Year 1 data, and supported by observations in subsequent years, a decision was made to use December 15 as the end of fall migration for the purposes of comparing seasonal fatality data among years. This schedule of monitoring and reporting using biologically informed seasons was incorporated into the approved Plan (2020).

Section 3.0 Monitoring Results

3.1 Summary of Avian Detections

During the 2019 – 2020 monitoring year, a total of 737 avian detections (including injured birds and incidentals) of 83 identified species and 99 identifiable species groups (Table 1) were recorded. Seven-hundred twenty-six (726) detections occurred in the tower area, and 11 were detected incidentally outside of the tower area. Of the 11 detections outside of the tower area, 0 showed signs of singeing, 3 showed signs of collision, and for the remaining eight detections, the cause could not be determined (Figure 2).

Of the total 726 detections, there were 364 carcasses (50.1%) and 362 feather spots/partial carcasses (49.9%) detected in the tower areas of all three units. Of the feather spots/partial carcasses evidence of singeing was noted through direct and microscopic examination on 134 of these 362 feather spots/partial carcasses (37.0%); evidence of collision (i.e., an impact imprint on a nearby mirror) was noted in the case of five feather spots/partial carcasses (1.4%). One partial carcass was associated with an entrapped bird. Otherwise, the causes of mortality for the feather spots/partial carcasses for the other 222 detections (61.3%) are unknown. These values are consistent with ranges found in previous annual assessments.

Table 1. Number of Individual Bird Detections, by Species, 2019 – 2020 Monitoring Year.

| Identification and Status | | | | Type of Detections | | | Source and Cause of Detections | | | |
|-------------------------------|-----------------------------------|--------------------------|----------|--------------------|----------|------------|--------------------------------|---------------------|------------------------|---------|
| Species | Scientific Name | Potential Local Breeder* | Status** | Total Detections | Injuries | Fatalities | Tower Area | Other Project Lands | Singed/Collision/Other | Unknown |
| unidentified small bird | unidentified | NA | | 135 | 0 | 135 | 135 | 0 | 67/1/5 | 62 |
| unidentified sparrow | unidentified | NA | | 46 | 0 | 46 | 46 | 0 | 3/1/1 | 41 |
| unidentified warbler | unidentified | NA | | 45 | 0 | 45 | 45 | 0 | 30/0/0 | 15 |
| yellow warbler | <i>Setophaga petechia</i> | No | SSC, BCC | 36 | 0 | 36 | 36 | 0 | 32/0/0 | 4 |
| northern rough-winged swallow | <i>Stelgidopteryx serripennis</i> | No | | 32 | 1 | 31 | 32 | 0 | 26/0/0 | 6 |
| Wilson's warbler | <i>Cardellina pusilla</i> | No | | 29 | 0 | 29 | 29 | 0 | 26/1/0 | 2 |
| yellow-rumped warbler | <i>Setophaga coronata</i> | No | | 28 | 0 | 28 | 28 | 0 | 21/0/0 | 7 |
| unidentified swallow | unidentified | NA | | 25 | 0 | 25 | 25 | 0 | 19/0/0 | 6 |
| tree swallow | <i>Tachycineta bicolor</i> | No | | 22 | 0 | 22 | 22 | 0 | 19/0/0 | 3 |
| black-throated sparrow | <i>Amphispiza bilineata</i> | Yes | | 21 | 0 | 21 | 20 | 1 | 18/0/1 | 2 |
| violet-green swallow | <i>Tachycineta thalassina</i> | No | | 21 | 2 | 19 | 21 | 0 | 20/0/0 | 1 |
| mourning dove | <i>Zenaida macroura</i> | Yes | | 19 | 0 | 19 | 18 | 1 | 0/4/0 | 15 |
| black-throated gray warbler | <i>Setophaga nigrescens</i> | No | | 17 | 1 | 16 | 17 | 0 | 17/0/0 | 0 |
| western meadowlark | <i>Sturnella neglecta</i> | Yes | | 17 | 0 | 17 | 17 | 0 | 0/0/0 | 17 |
| house finch | <i>Haemorhous mexicanus</i> | Yes | | 15 | 0 | 15 | 15 | 0 | 13/0/1 | 1 |
| cliff swallow | <i>Petrochelidon pyrrhonota</i> | No | | 13 | 0 | 13 | 13 | 0 | 11/0/2 | 0 |
| ruby-crowned kinglet | <i>Regulus calendula</i> | No | | 13 | 0 | 13 | 13 | 0 | 13/0/0 | 0 |
| unidentified hummingbird | unidentified | NA | | 11 | 0 | 11 | 11 | 0 | 9/0/2 | 0 |
| orange-crowned warbler | <i>Leiothlypis celata</i> | No | | 10 | 0 | 10 | 10 | 0 | 9/0/1 | 0 |
| unidentified gnatcatcher | <i>Polioptila</i> spp. | NA | | 9 | 0 | 9 | 9 | 0 | 9/0/0 | 0 |
| verdin | <i>Auriparus flaviceps</i> | Yes | | 9 | 0 | 9 | 9 | 0 | 7/0/2 | 0 |
| western tanager | <i>Piranga ludoviciana</i> | No | | 8 | 0 | 8 | 8 | 0 | 1/0/0 | 7 |
| barn swallow | <i>Hirundo rustica</i> | No | | 7 | 0 | 7 | 7 | 0 | 6/0/1 | 0 |
| northern mockingbird | <i>Mimus polyglottos</i> | Yes | | 7 | 0 | 7 | 6 | 1 | 1/0/0 | 6 |

| Identification and Status | | | | Type of Detections | | | Source and Cause of Detections | | | |
|---------------------------|--------------------------------|--------------------------|----------|--------------------|----------|------------|--------------------------------|---------------------|------------------------|---------|
| Species | Scientific Name | Potential Local Breeder* | Status** | Total Detections | Injuries | Fatalities | Tower Area | Other Project Lands | Singed/Collision/Other | Unknown |
| lesser goldfinch | <i>Spinus psaltria</i> | No | | 5 | 1 | 4 | 5 | 0 | 0/2/0 | 3 |
| MacGillivray's warbler | <i>Geothlypis tolmiei</i> | No | | 5 | 1 | 4 | 5 | 0 | 5/0/0 | 0 |
| blue-gray gnatcatcher | <i>Polioptila caerulea</i> | No | | 4 | 0 | 4 | 4 | 0 | 2/0/1 | 1 |
| common raven | <i>Corvus corax</i> | Yes | | 4 | 2 | 2 | 4 | 0 | 4/0/0 | 0 |
| dark-eyed junco | <i>Junco hyemalis</i> | No | | 4 | 1 | 3 | 4 | 0 | 0/2/0 | 2 |
| house sparrow | <i>Passer domesticus</i> | Yes | | 4 | 0 | 4 | 4 | 0 | 4/0/0 | 0 |
| lazuli bunting | <i>Passerina amoena</i> | No | | 4 | 0 | 4 | 4 | 0 | 4/0/0 | 0 |
| rufous hummingbird | <i>Selasphorus rufus</i> | No | | 4 | 0 | 4 | 4 | 0 | 4/0/0 | 0 |
| unidentified grebe | unidentified | NA | | 4 | 0 | 4 | 4 | 0 | 0/0/0 | 4 |
| white-crowned sparrow | <i>Zonotrichia leucophrys</i> | No | | 4 | 0 | 4 | 4 | 0 | 1/1/0 | 2 |
| American kestrel | <i>Falco sparverius</i> | Yes | | 3 | 1 | 2 | 3 | 0 | 3/0/0 | 0 |
| calliope hummingbird | <i>Selasphorus calliope</i> | Yes | | 3 | 0 | 3 | 3 | 0 | 3/0/0 | 0 |
| chipping sparrow | <i>Spizella passerina</i> | No | | 3 | 0 | 3 | 3 | 0 | 2/1/0 | 0 |
| Costa's hummingbird | <i>Calypte costae</i> | Yes | BCC | 3 | 0 | 3 | 3 | 0 | 2/0/0 | 1 |
| lesser nighthawk | <i>Chordeiles acutipennis</i> | No | | 3 | 0 | 3 | 3 | 0 | 0/0/0 | 3 |
| northern flicker | <i>Colaptes auratus</i> | Yes | | 3 | 0 | 3 | 3 | 0 | 1/0/0 | 2 |
| rock pigeon | <i>Columba livia</i> | Yes | | 3 | 0 | 3 | 3 | 0 | 3/0/0 | 0 |
| unidentified large bird | unidentified | NA | | 3 | 0 | 3 | 2 | 1 | 0/0/0 | 3 |
| unidentified waterbird | unidentified | NA | | 3 | 0 | 3 | 3 | 0 | 0/0/0 | 3 |
| American pipit | <i>Anthus rubescens</i> | No | | 2 | 0 | 2 | 2 | 0 | 0/0/0 | 2 |
| Anna's hummingbird | <i>Calypte anna</i> | No | | 2 | 0 | 2 | 2 | 0 | 2/0/0 | 0 |
| greater roadrunner | <i>Geococcyx californianus</i> | Yes | | 2 | 0 | 2 | 1 | 1 | 0/0/0 | 2 |
| green-tailed towhee | <i>Pipilo chlorurus</i> | No | | 2 | 0 | 2 | 2 | 0 | 0/0/0 | 2 |
| hermit warbler | <i>Setophaga occidentalis</i> | No | | 2 | 0 | 2 | 2 | 0 | 2/0/0 | 0 |
| hooded oriole | <i>Icterus cucullatus</i> | Yes | | 2 | 0 | 2 | 2 | 0 | 2/0/0 | 0 |
| house wren | <i>Troglodytes aedon</i> | No | | 2 | 0 | 2 | 1 | 1 | 1/0/0 | 1 |
| Lincoln's sparrow | <i>Melospiza lincolni</i> | No | | 2 | 0 | 2 | 2 | 0 | 0/0/0 | 2 |

| Identification and Status | | | | Type of Detections | | | Source and Cause of Detections | | | |
|---------------------------|---------------------------------|--------------------------|----------|--------------------|----------|------------|--------------------------------|---------------------|------------------------|---------|
| Species | Scientific Name | Potential Local Breeder* | Status** | Total Detections | Injuries | Fatalities | Tower Area | Other Project Lands | Singed/Collision/Other | Unknown |
| loggerhead shrike | <i>Lanius ludovicianus</i> | Yes | SSC | 2 | 0 | 2 | 2 | 0 | 0/0/0 | 2 |
| Nashville warbler | <i>Leiothlypis ruficapilla</i> | No | | 2 | 0 | 2 | 2 | 0 | 2/0/0 | 0 |
| Swainson's thrush | <i>Catharus ustulatus</i> | No | | 2 | 0 | 2 | 2 | 0 | 1/0/0 | 1 |
| unidentified kinglet | <i>Regulus spp</i> | NA | | 2 | 0 | 2 | 2 | 0 | 0/0/0 | 2 |
| unidentified thrush | unidentified | NA | | 2 | 0 | 2 | 2 | 0 | 1/0/0 | 1 |
| unidentified waterfowl | unidentified | NA | | 2 | 0 | 2 | 2 | 0 | 0/0/0 | 2 |
| warbling vireo | <i>Vireo gilvus</i> | No | | 2 | 0 | 2 | 2 | 0 | 2/0/0 | 0 |
| American coot | <i>Fulica americana</i> | Yes | | 1 | 0 | 1 | 0 | 1 | 0/0/0 | 1 |
| American robin | <i>Turdus migratorius</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| ash-throated flycatcher | <i>Myiarchus cinerascens</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| bank swallow | <i>Riparia riparia</i> | Yes | ST | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| Bewick's wren | <i>Thryomanes bewickii</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| black phoebe | <i>Sayornis nigricans</i> | No | | 1 | 1 | 0 | 1 | 0 | 1/0/0 | 0 |
| black-chinned hummingbird | <i>Archilochus alexandri</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| blackpoll warbler | <i>Setophaga striata</i> | No | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| black-tailed gnatcatcher | <i>Polioptila melanura</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| Brewer's sparrow | <i>Spizella breweri</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| broad-tailed hummingbird | <i>Selasphorus platycercus</i> | No | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| brown-headed cowbird | <i>Molothrus ater</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| Bullock's oriole | <i>Icterus bullockii</i> | No | | 1 | 1 | 0 | 0 | 1 | 0/0/0 | 1 |
| cedar waxwing | <i>Bombycilla cedrorum</i> | No | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| cinnamon teal | <i>Anas cyanoptera</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 0/1/0 | 0 |
| common poorwill | <i>Phalaenoptilus nuttallii</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| horned lark | <i>Eremophila alpestris</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| ladder-backed woodpecker | <i>Picoides scalaris</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| Le Conte's thrasher | <i>Toxostoma lecontei</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |

| Identification and Status | | | | Type of Detections | | | Source and Cause of Detections | | | |
|---------------------------|----------------------------------|--------------------------|----------|--------------------|-----------|------------|--------------------------------|---------------------|------------------------|------------|
| Species | Scientific Name | Potential Local Breeder* | Status** | Total Detections | Injuries | Fatalities | Tower Area | Other Project Lands | Singed/Collision/Other | Unknown |
| mallard | <i>Anas platyrhynchos</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| mountain bluebird | <i>Sialia currucoides</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| osprey | <i>Pandion haliaetus</i> | No | | 1 | 1 | 0 | 1 | 0 | 1/0/0 | 0 |
| pine siskin | <i>Spinus pinus</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| prairie falcon | <i>Falco mexicanus</i> | Yes | | 1 | 1 | 0 | 0 | 1 | 0/1/0 | 0 |
| red-tailed hawk | <i>Buteo jamaicensis</i> | Yes | | 1 | 1 | 0 | 1 | 0 | 1/0/0 | 0 |
| Savannah sparrow | <i>Passerculus sandwichensis</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/1/0 | 0 |
| semipalmated sandpiper | <i>Calidris pusilla</i> | No | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| sora | <i>Porzana carolina</i> | No | | 1 | 0 | 1 | 0 | 1 | 0/0/0 | 1 |
| Townsend's warbler | <i>Setophaga townsendi</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| turkey vulture | <i>Cathartes aura</i> | Yes | | 1 | 1 | 0 | 0 | 1 | 0/1/0 | 0 |
| unidentified blackbird | unidentified | NA | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| unidentified duck | unidentified | NA | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| unidentified finch | unidentified | NA | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| unidentified flycatcher | unidentified | NA | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| unidentified sandpiper | <i>Calidris spp.</i> | NA | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| unidentified wren | unidentified | NA | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| Vaux's swift | <i>Chaetura vauxi</i> | Yes | SSC | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| vesper sparrow | <i>Pooecetes gramineus</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| western bluebird | <i>Sialia mexicana</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| western grebe | <i>Aechmophorus occidentalis</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| western kingbird | <i>Tyrannus verticalis</i> | Yes | | 1 | 0 | 1 | 1 | 0 | 1/0/0 | 0 |
| western wood-pewee | <i>Contopus sordidulus</i> | No | | 1 | 1 | 0 | 1 | 0 | 1/0/0 | 0 |
| wood duck | <i>Aix sponsa</i> | No | | 1 | 0 | 1 | 1 | 0 | 0/0/0 | 1 |
| Total | | | | 737 | 17 | 720 | 726 | 11 | 445/17/17 | 258 |

* A species whose breeding range overlaps the Project area. The number of detections could include locally breeding and non-local individuals.

** SSC = CDFW-designated California species of special concern, ST = State threatened, BCC = USFWS bird of conservation concern for BCR 33, FP= California fully protected species.

3.1.1 Spatial Patterns of Detections

During the 2019 – 2020 monitoring year, 726 detections were found in the tower area with 225 (31.0%) in Unit 1, 249 (34.3%) in Unit 2, and 252 (34.7%) in Unit 3. Of the tower area detections, 445 (61.3%) showed signs of singed feather damage, 14 (1.9%) showed signs of collision, 17 (2.3%) were attributed to entrapment, and cause could not be determined for 250 (34.6%). Results from the 2019 – 2020 monitoring year are consistent with previous years.

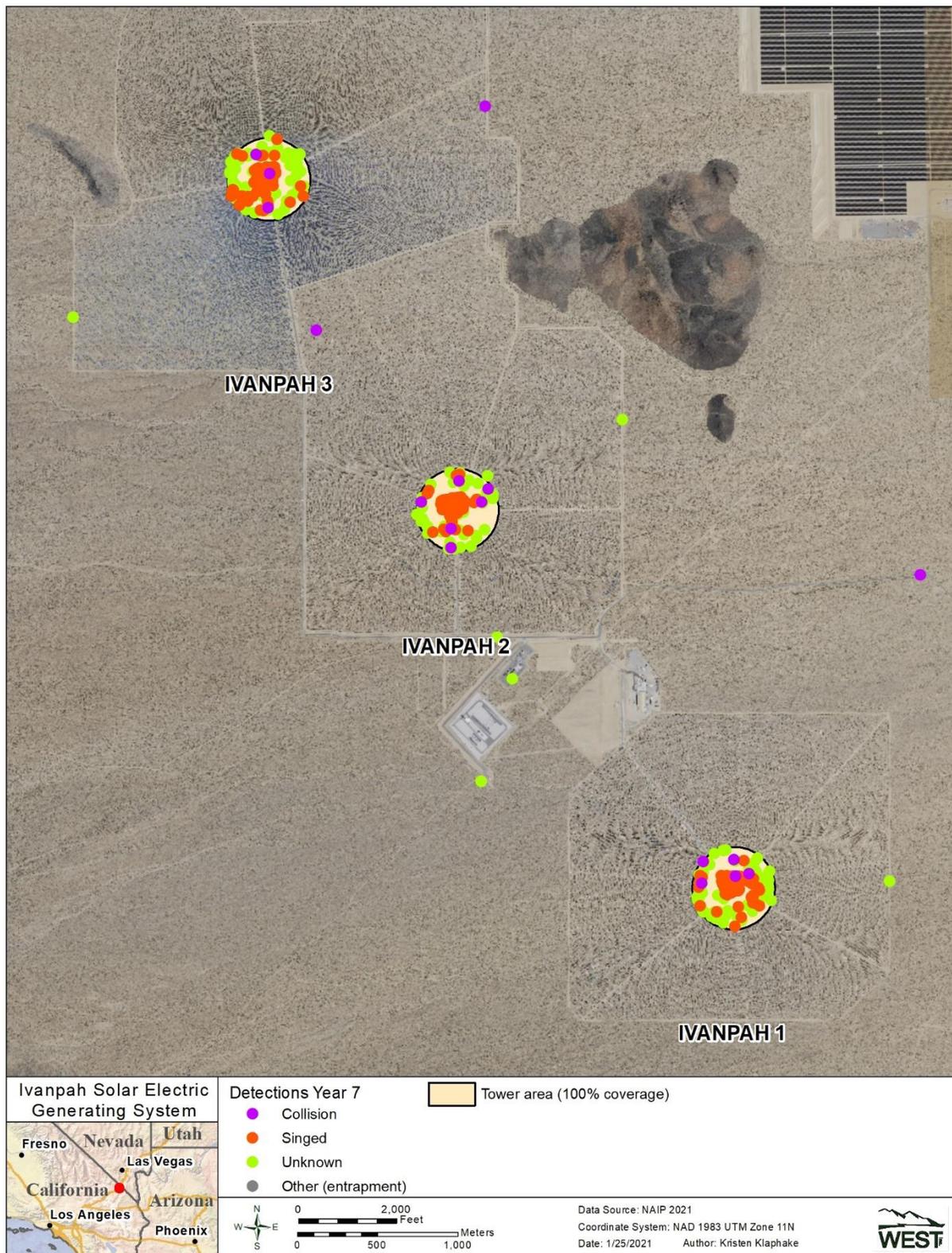


Figure 2. Locations of Detections, by Cause, within Solar Units.

3.1.2 Temporal Patterns of Detections

The number of detections reported per day varied during the 2019 – 2020 monitoring year. The number of detections per day represents the accumulation of detections over the search interval minus those detected incidentally and removed between searches. Consistent with previous years, detections per day in the tower area showed a strong seasonal pattern with detections highest in the fall (Figure 3).

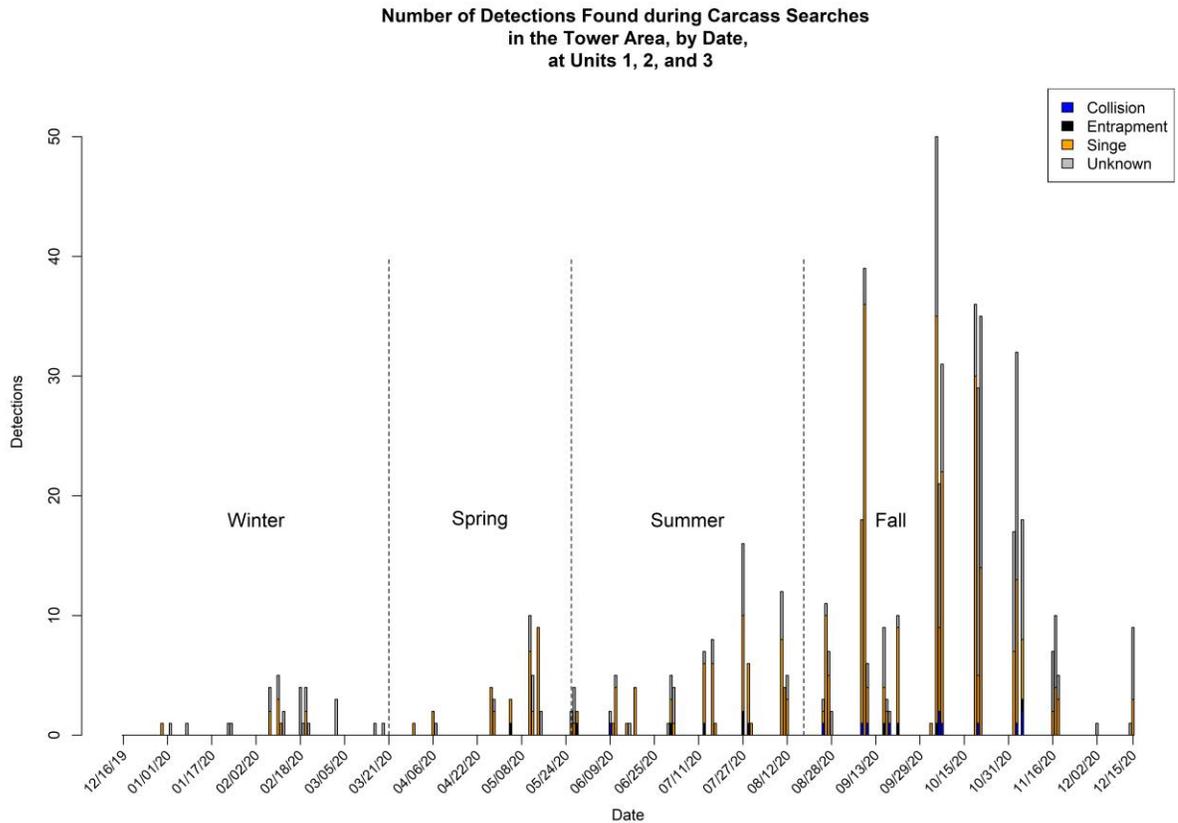


Figure 3. Number of Detections on Each Survey Date, 2019 – 2020 Monitoring Year.

3.1.2 Summary of Bat Detections

Fifteen bats representing two species and up to two unidentified species were detected as fatalities during the 2019 – 2020 monitoring year. The fatalities comprised five canyon bats (*Parastrellus hesperus*), two Mexican free-tailed bats (*Tadarida brasiliensis*), five unidentified myotis bats, and three unidentified bats. All but one bat were found in the power block (one unidentified myotis bat was found in an administration building not associated with one of the units), with one canyon bat, one Mexican free-tailed bat, two unidentified myotis, and one unidentified bat found in unit 1. Two canyon bats and one Mexican free-tailed bat were found in unit 2, and 2 canyon bats, 2 unidentified myotis, and 2 unidentified bats found in unit 3. Given the few detections of bats, they are not discussed further.

Section 4.0 Comparison to Fatality Index

This section utilizes the detection data as described in Section 3 to evaluate the potential for impacts in accordance with the approved Plan (2020). Detection data from the tower area for year 7 are compared to the fatality index model developed in the Plan (2020) to determine if the results of monitoring are consistent with previous years of intensive monitoring in the tower area of all three units.

4.1 Fatality Index Comparison

There was a total of 726 detections (resulting from fatality searches or incidental detection) in the tower area during the 2019 – 2020 monitoring year. The fatality index model developed in the approved Plan (2020) predicted that the number of detections resulting from operations monitoring should be, on average, 504, and be between 276 and 746 detections to be 90% confident that the results of fatality monitoring were consistent with the first four years of monitoring. Since the total for year 7 is within the 90% prediction interval (276-746), the overall number of fatalities in year 7 is consistent with the first four years of monitoring (Figure 4).

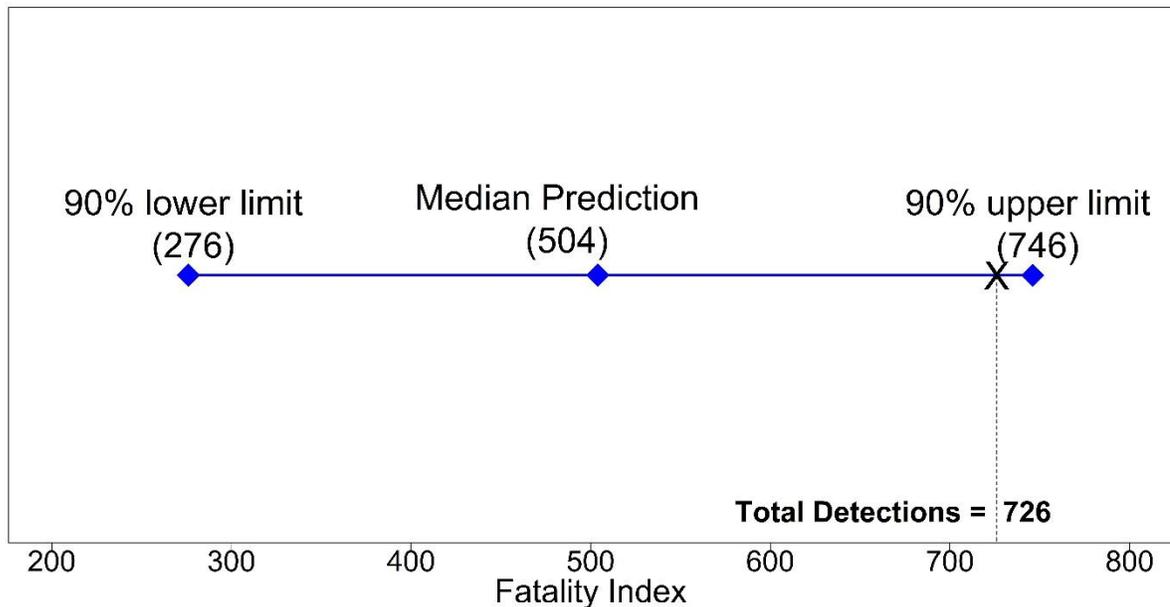


Figure 4. Total number of detections in the tower area during the 2019 – 2020 monitoring year relative to the fatality index.

Section 5.0 Framework for Management and Risk Response

According to Section 5.3 of the approved Plan (2020), migratory bird mortality at Ivanpah is categorized as high, medium, or low to provide an appropriate biological basis for TAC review and decision making, based on the following definitions:

1. “High: Estimated avian mortality or injury levels are facility-caused and likely to seriously and negatively affect local, regional, or national avian populations within a particular species or group of species.”
2. “Medium: Estimated avian mortality or injury levels are facility-caused and have the potential to negatively affect local, regional, or national populations within a particular avian species or group of species.”
3. “Low: Estimated avian mortality or injury levels that have minimal or no potential to negatively affect local, regional, or national populations within a particular species or group of species.”

5.1 Comparison to the Fatality Index

As presented in the approved Plan (2020) in Appendix D, the number of detections can be used to understand the potential effects of the facility on birds in the context of the first four years of monitoring through the fatality index. Typically, the number of detections provides little insight into potential population level effects because the fatality estimate is not known. However, in monitoring years 1 – 4 when fatality estimates were calculated, it was determined that in each year the facility had a low potential to impact each species or species group at the local, regional, or national scale. Thus, the range of values for the fatality index generated from the first four years of monitoring represents a range of values to have a low potential impact on populations (HTH 2015, WEST 2016, WEST 2017, WEST 2018).

The number of tower area detections in the 2019 – 2020 monitoring year (726) is above the median prediction estimate of the fatality index (504) but below the 90% confidence limits of the fatality index (276 – 746). Total tower detections higher than the median fatality index but within the 90% confidence limits implies the number of detections found during the 2019 – 2020 is consistent with the range of fatalities observed, and variability observed in searcher efficiency and carcass persistence during the intensive monitoring of years 1 – 4. Moreover, the relative number of detections at each tower, relative number of singed detections, and relative number of tower area detections in each unit are consistent with previous years. Thus, the number of detections in the tower area is consistent with the range of detections found during the first four years of monitoring.

5.2 Assessment of Potential Effects to National and Regional Populations

As presented in Appendix D of the approved Plan (2020), species with more than 5 detections are evaluated for potential effects on the national or regional population. Factors established for evaluating potential

population effects in Appendix D of the Plan (2020) include: species status, population size, and life history strategy. During the 2019 – 2020 monitoring year, one special status species, yellow warbler (CDFW-ranked California species of special concern) had > 5 detections. However, when considering the scale of evaluation (national and regional) the 36 total detections represent 0.00009% and 0.0065% of the national and regional populations, respectively. Thus, mortality of yellow warblers at the Project has low potential to influence national and regional populations. Consistent with previous assessments, all of the remaining seventeen bird species with >5 total detections are not special status and have robust populations nationally and regionally (Table 2; PIF 2020). Thus, there is low potential for mortality at the Project to have population level effects at the national and regional scale based on the species detected and the population sizes.

Table 2. Number of detections, occurrence at the Project, and population estimates for bird species with greater than five detections at the Project.

| Species | Occurrence at Project | Total Detections | Population Estimates from Partners in Flight Database ¹ | |
|-------------------------------|--|------------------|--|-------------|
| | | | Regional (California) | National |
| yellow warbler ² | Uncommon spring migrant, common fall migrant | 36 | 550,000 | 39,414,700 |
| northern rough-winged swallow | Spring and fall migrant | 32 | 1,100,000 | 18,478,600 |
| Wilson's warbler | Spring and fall migrant | 29 | 890,000 | 39,368,310 |
| yellow-rumped warbler | Spring and fall migrant | 28 | 2,200,000 | 46,945,590 |
| tree swallow | Spring and fall migrant | 22 | 400,000 | 8,712,020 |
| violet-green swallow | Spring and fall migrant | 21 | 440,000 | 5,397,700 |
| black-throated sparrow | Year round resident | 21 | 2,700,000 | 31,065,000 |
| mourning dove | Fall migrant, year round resident | 19 | 4,400,000 | 126,500,000 |
| black-throated gray warbler | Spring and fall migrant | 17 | 1,000,000 | 2,635,800 |
| western meadowlark | Year round resident | 17 | 2,500,000 | 84,506,310 |
| house finch | Year round resident | 15 | 9,600,000 | 32,635,000 |
| cliff swallow | Spring and fall migrant | 13 | 9,700,000 | 70,912,254 |
| ruby-crowned kinglet | Spring and fall migrant, winter resident | 13 | 9,600 | 16,775,110 |
| orange-crowned warbler | Spring and fall migrant, winter resident | 10 | 1,200,000 | 33,883,300 |
| verdin | Year round resident | 9 | 310,000 | 3,847,700 |
| western tanager | Spring and fall migrant | 8 | 2,100,000 | 10,008,700 |
| barn swallow | Spring and fall migrant | 7 | 570,000 | 40,272,800 |
| northern mockingbird | Year round resident | 7 | 630,000 | 34,033,923 |

¹ PIF 2020

² California species of special concern (Shuford and Gardali 2008), CDFW CNDDDB 2021.

5.3 Assessment of Effects to Local Populations

As presented in Appendix D of the approved Plan (2020), a decision framework is used to determine if a species is a local breeder near the Project. Following the decision framework, species with >5 detections were reviewed to determine, based on range maps, those that could breed locally in the vicinity of the Project. As per previous practice >5 detections are used as a threshold for analysis, consistent with four years of baseline quantitative assessments (HTH 2015, WEST 2016, WEST 2017, WEST 2018). Of the 18 species with >5 detections, 3 were determined to be local breeders (Table 3).

As per the approved Plan (2020) framework, the timing of the fatalities was reviewed to determine those that occurred during the species breeding season, based on information provided in species accounts at <https://nrm.dfg.ca.gov/taxaquery/Default.aspx>. This framework assumes that if a fatality is found during the breeding season and the fatality is of a locally breeding individual, these detections are locally breeding species. Of the 6 locally breeding species with > 5 detections, 3 had >5 detections during the breeding season: mourning dove (16 detections), house finch (8 detections), and northern mockingbird (6 detections; Table 3). These species are consistent with those determined to be local breeders in previous annual assessments.

Table 3. Number of Detections of Locally Breeding Species with >5 detections found during the respective breeding period during the 2019 – 2020 Monitoring Year.

| Species | Start of Breeding Season | End of Breeding Season | Total Detections |
|----------------------|--------------------------|------------------------|------------------|
| mourning dove | Late January | Late September | 16 |
| house finch | March | August | 8 |
| northern mockingbird | Mid-February | Late September | 6 |

Criteria established for evaluating the potential population effects in Appendix D of the approved Plan (2020) include: 1) species status, 2) population size, and 3) survival strategy. First, none of the three species are designated as special status species nor do any of these species have a special management designation in the Mojave Desert ecoregion. Second, the distribution of the species and overall population in the Mojave Desert in California and Nevada (Bird Conservation Region (BCR) 33) – obtained from the Partners in Flight database – was reviewed to determine the distribution and abundance in BCR 33. The mourning dove population estimate in BCR 33 is 4,700,000, the house finch population in BCR 33 is 3,300,000, and the northern mockingbird population in BCR 33 is 320,000. Thus, none of these locally breeding species are special status and all have a robust population that is not likely to be affected by local removal of individuals at the Project.

Third, examining the survival strategies of these species also adds support to a low potential for impacts conclusion. Each local breeding species identified in Table 3 reach sexual maturity after one year, are short-lived and highly fecund, and populations of birds with these life history traits are more sensitive to fecundity than adult survival (Stahl and Oli 2006). In addition, these species all have a long breeding season that provides the opportunity for multiple breeding attempts to produce offspring that could be recruited into the local population. When these factors are evaluated together, there is a low potential for impacts from the Project to these populations of locally breeding bird species as a result of the limited numbers of detections.

5.4 Assessment of Effects to Special Status Species

As presented in Appendix D of the approved Plan (2020), all special-status species are always considered for potential population level effects for any number of detections. Special status species recorded as detections included 36 yellow warblers (California species of special concern, BCR 33 bird of conservation concern), 3 Costa’s hummingbirds (BCR 33 bird of conservation concern), and 2 loggerhead shrike (California species of special concern), 1 bank swallow (California state threatened), and 1 Vaux’s swifts (California species of special concern). The bank swallow, which is state listed as threatened is discussed further below. The yellow warbler was discussed earlier (Section 5.2), and the remaining special status species had 3 or fewer detections. Considering the low number of fatalities coupled with the life-history strategy of high fecundity and a short lifespan, the potential for population level impacts from these few detections does not rise above a “low” potential effect on a national, regional or local level.

Table 4. Detections of Sensitive Species during the 2019 – 2020 Monitoring Year.

| Species | Status* | Fatalities | Injuries | Total |
|---------------------|---------------------|------------|----------|-----------|
| yellow warbler | SSC, BCC | 36 | 0 | 36 |
| Costa’s hummingbird | BCC | 3 | 0 | 3 |
| Loggerhead shrike | SSC | 2 | 0 | 2 |
| bank swallow | ST | 1 | 0 | 1 |
| Vaux’s swift | SSC | 1 | 0 | 1 |
| Total | SSC, ST, BCC | 43 | 0 | 43 |

*SSC = California species of special concern, ST = State threatened, BCC = USFWS bird of conservation concern for BCR 33, FP= California fully protected species.

Bank swallow is listed regionally in California due to a declining population throughout the state, and most bank swallows’ nest along the Sacramento River and its tributaries (Bank Swallow Technical Advisory Committee 2013). An estimated 20,000 bank swallows occur regionally within California and an estimated 1,400,000 occur nationally in the United States (Partners in Flight Science Committee 2020). As the local area for the Project does not contain bank swallow nesting habitat, there is no local population for evaluation. The single detection recorded during the 2019 – 2020 monitoring year likely resulted from migrating individuals that could breed as far north as Alaska. The fatality of one bank swallow represents a very small proportion of the regional or national population; thus, the one bank swallow fatality during the 2019 – 2020 monitoring year does not rise above the “low” category, as loss of this magnitude would have a minimal effect on populations at all geographic scales (regional or national).

Section 6.0 Recommendations

Based on the results on the year 7 monitoring, the following recommendations are provided.

1. **Continue Implementation of the Approved Plan.** The tower area is the location of all known causes – singeing, collision, and entrapment in the ACC. The 2020 approved Plan, which provides ongoing systematic surveys in the tower area, will provide data that will allow for continued annual risk analysis, adaptive management and a comparison in the trends in detections with Years 1 – 7.

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Appendix A. Individual Avian Detections.

| USFWS # | Common Name | Species Code | How Found | Detection Date | Collection Date | Condition | Time Since Death/Injury | Description of Carcass/Injury | Cause of Death/Injury | Burn Grade | Unit | Nearest Project Feature | Coordinates | SPUT Revisions |
|----------------|--------------------------|--------------|-----------------|----------------|-----------------|--------------|-------------------------|---|-----------------------|------------|------|-------------------------|-----------------|----------------|
| 2019_357_ISEGS | yellow warbler | YWAR | Incidental | 12/16/2019 | 12/17/2019 | mummified | 8-14 days | Evidence of curling to rectrices and secondaries in right wing, singe to top of head. | scorched or singed | 1;3 | 1 | Powerblock | 640326, 3933451 | NA |
| 2019_358_ISEGS | unidentified swallow | UNSW | Fatality Search | 12/30/2019 | 12/30/2019 | broken up | 3-7 days | evidence of curling to majority of flight feathers. | scorched or singed | 1 | 3 | Powerblock | 637457, 3937905 | NA |
| 2020_001_ISEGS | unidentified sparrow | UNSP | Fatality Search | 1/2/2020 | 1/2/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638629, 3935856 | NA |
| 2020_002_ISEGS | wood duck | WODU | Fatality Search | 1/8/2020 | 1/8/2020 | feather spot | 3-7 days | no evidence of collision or singe. | unknown | NA | 2 | Heliostat | 638656, 3936063 | NA |
| 2020_003_ISEGS | black-throated sparrow | BTSP | Incidental | 1/13/2020 | 1/15/2020 | mummified | 31-60 days | curling to all major flight feathers, singe to coverts. | scorched or singed | 2;3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_004_ISEGS | unidentified swallow | UNSW | Incidental | 1/15/2020 | 1/15/2020 | mummified | 31-60 days | curling to all major flight feathers in wings and tail. | scorched or singed | 2;3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_005_ISEGS | western meadowlark | WEME | Fatality Search | 1/23/2020 | 1/23/2020 | broken up | 3-7 days | no evidence of collision or singe. | unknown | NA | 1 | Heliostat | 640248, 3933334 | NA |
| 2020_006_ISEGS | unidentified warbler | UNWA | Fatality Search | 1/24/2020 | 1/24/2020 | broken up | 31-60 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637480, 3937896 | NA |
| 2020_007_ISEGS | Townsend's warbler | TOWA | Incidental | 1/28/2020 | 1/30/2020 | mummified | 31-60 days | no evidence of collision or singe. | unknown | NA | 1 | Powerblock | 640343, 3933487 | NA |
| 2020_008_ISEGS | unidentified small bird | UNID | Incidental | 1/28/2020 | 1/30/2020 | broken up | 31-60 days | singe to feathers on wing. | scorched or singed | 3 | 1 | Powerblock | 640343, 3933487 | NA |
| 2020_009_ISEGS | verdin | VERD | Incidental | 1/28/2020 | 1/30/2020 | mummified | 31-60 days | singe to rump and lower back with most of tail singed off. | scorched or singed | 1;3 | 1 | Powerblock | 640343, 3933487 | NA |
| 2020_010_ISEGS | unidentified large bird | UNLB | Fatality Search | 2/7/2020 | 2/7/2020 | broken up | 3-7 days | no evidence of collision or singe. | unknown | NA | 2 | Powerblock | 638625, 3935844 | NA |
| 2020_011_ISEGS | unidentified small bird | UNID | Fatality Search | 2/7/2020 | 2/7/2020 | feather spot | 1-3 days | curling to 2 of the flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638625, 3935844 | NA |
| 2020_012_ISEGS | unidentified waterfowl | UNWF | Fatality Search | 2/7/2020 | 2/7/2020 | broken up | 8-14 days | no evidence of collision or singe. | unknown | NA | 2 | Powerblock | 638633, 3935869 | NA |
| 2020_013_ISEGS | unidentified swallow | UNSW | Fatality Search | 2/7/2020 | 2/7/2020 | broken up | 8-14 days | curling to all primaries. | scorched or singed | 1 | 2 | Powerblock | 638676, 3935928 | NA |
| 2020_014_ISEGS | unidentified warbler | UNWA | Fatality Search | 2/10/2020 | 2/10/2020 | broken up | 8-14 days | singe to tips of wings. | scorched or singed | 1 | 3 | Powerblock | 637474, 3937931 | NA |
| 2020_015_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 2/10/2020 | 2/10/2020 | broken up | 31-60 days | singe to flight feathers. | scorched or singed | 1 | 3 | Powerblock | 637474, 3937920 | NA |
| 2020_016_ISEGS | unidentified small bird | UNID | Fatality Search | 2/10/2020 | 2/10/2020 | mummified | 31-60 days | singe to tips of primaires. | scorched or singed | 1 | 3 | Powerblock | 637401, 3937973 | NA |
| 2020_017_ISEGS | western meadowlark | WEME | Fatality Search | 2/10/2020 | 2/10/2020 | feather spot | 1-3 days | no evidence of collision or singe. | unknown | NA | 3 | Heliostat | 637236, 3937952 | NA |
| 2020_018_ISEGS | unidentified small bird | UNID | Fatality Search | 2/10/2020 | 2/10/2020 | feather spot | 3-7 days | no evidence of collision or singe. | unknown | NA | 3 | Heliostat | 637346, 3938054 | NA |

| | | | | | | | | | | | | | | |
|----------------|-------------------------|------|-----------------|-----------|-----------|--------------|-------------|---|--------------------|----|---|-----------------|-----------------|----|
| 2020_019_ISEGS | unidentified small bird | UNID | Fatality Search | 2/11/2020 | 2/11/2020 | broken up | 8-14 days | singe to primaries. | scorched or singed | 1 | 1 | Powerblock | 640344, 3933511 | NA |
| 2020_020_ISEGS | unidentified large bird | UNLB | Fatality Search | 2/12/2020 | 2/12/2020 | broken up | 31-60 days | no evidence of collision or singe. | unknown | NA | 2 | Heliostat | 638696, 3935996 | NA |
| 2020_021_ISEGS | unidentified large bird | UNLB | Incidental | 2/12/2020 | 2/12/2020 | feather spot | 31-60 days | no evidence of collision or singe. | unknown | NA | 2 | Heliostat | 638843, 3936058 | NA |
| 2020_022_ISEGS | mourning dove | MODO | Fatality Search | 2/12/2020 | 2/12/2020 | broken up | 8-14 days | no evidence of collision or singe. | unknown | NA | 1 | Heliostat | 640407, 3933283 | NA |
| 2020_023_ISEGS | bank swallow | BANS | Incidental | 2/16/2020 | 2/17/2020 | mummified | 31-60 days | no evidence of collision or singe. | unknown | NA | 2 | Powerblock | 638635, 3935857 | NA |
| 2020_024_ISEGS | mallard | MALL | Fatality Search | 2/18/2020 | 2/18/2020 | feather spot | 3-7 days | no evidence of collision or singe. | unknown | NA | 2 | Heliostat | 638434, 3935794 | NA |
| 2020_025_ISEGS | unidentified small bird | UNID | Fatality Search | 2/18/2020 | 2/18/2020 | broken up | 3-7 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637396, 3937897 | NA |
| 2020_026_ISEGS | unidentified small bird | UNID | Fatality Search | 2/18/2020 | 2/18/2020 | broken up | 31-60 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637456, 3937903 | NA |
| 2020_027_ISEGS | unidentified warbler | UNWA | Fatality Search | 2/18/2020 | 2/18/2020 | broken up | 8-14 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637465, 3937934 | NA |
| 2020_028_ISEGS | unidentified small bird | UNID | Fatality Search | 2/19/2020 | 2/19/2020 | broken up | 31-60 days | no evidence of collision or singe. | unknown | NA | 3 | Heliostat | 637323, 3937805 | NA |
| 2020_029_ISEGS | unidentified small bird | UNID | Fatality Search | 2/20/2020 | 2/20/2020 | feather spot | 31-60 days | singe to a covert feather. | scorched or singed | 3 | 1 | Powerblock | 640354, 3933532 | NA |
| 2020_030_ISEGS | unidentified small bird | UNID | Fatality Search | 2/20/2020 | 2/20/2020 | broken up | 8-14 days | singe to flight feathers. | scorched or singed | 1 | 1 | Powerblock | 640354, 3933502 | NA |
| 2020_031_ISEGS | mourning dove | MODO | Fatality Search | 2/20/2020 | 2/20/2020 | broken up | 31-60 days | no evidence of singe or collision. | unknown | NA | 1 | Heliostat | 640428, 3933286 | NA |
| 2020_032_ISEGS | unidentified small bird | UNID | Fatality Search | 2/20/2020 | 2/20/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 1 | Heliostat | 640587, 3933570 | NA |
| 2020_033_ISEGS | unidentified flycatcher | UNFL | Fatality Search | 2/21/2020 | 2/21/2020 | mummified | 31-60 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638614, 3935905 | NA |
| 2020_034_ISEGS | unidentified duck | UNDU | Fatality Search | 3/2/2020 | 3/2/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638640, 3935865 | NA |
| 2020_035_ISEGS | common poorwill | COPO | Fatality Search | 3/2/2020 | 3/2/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 1 | Powerblock | 640326, 3933489 | NA |
| 2020_036_ISEGS | unidentified small bird | UNID | Fatality Search | 3/2/2020 | 3/2/2020 | feather spot | 8-14 days | no evidence of singe or collision. | unknown | NA | 3 | Heliostat | 637295, 3938057 | NA |
| 2020_037_ISEGS | mourning dove | MODO | Fatality Search | 3/16/2020 | 3/16/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637444, 3937928 | NA |
| 2020_038_ISEGS | unidentified small bird | UNID | Fatality Search | 3/19/2020 | 3/19/2020 | feather spot | 8-14 days | no evidence of singe or collision. | unknown | NA | 1 | Heliostat | 640310, 3933721 | NA |
| 2020_039_ISEGS | sora | SORA | Incidental | 3/28/2020 | 3/28/2020 | dead-fresh | 0-0.33 days | no evidence of singe or collision. | unknown | NA | 1 | Perimeter Fence | 641348, 3933532 | NA |
| 2020_040_ISEGS | unidentified small bird | UNID | Fatality Search | 3/30/2020 | 3/30/2020 | broken up | 3-7 days | singe present on contour feathers. | scorched or singed | 3 | 3 | Heliostat | 637444, 3937712 | NA |
| 2020_041_ISEGS | rufous hummingbird | RUHU | Fatality Search | 4/6/2020 | 4/6/2020 | dead-fresh | 0.33-1 days | singe to gorget, back, nape, and rectrices. | scorched or singed | 1 | 3 | Powerblock | 637467, 3937906 | NA |
| 2020_042_ISEGS | unidentified small bird | UNID | Fatality Search | 4/6/2020 | 4/6/2020 | broken up | 31-60 days | singe to feathers. | scorched or singed | 1 | 3 | Powerblock | 637471, 3937913 | NA |

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|----------------|--------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|---------|---|------------|-----------------|----|
| 2020_043_ISEGS | unidentified small bird | UNID | Fatality Search | 4/7/2020 | 4/7/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 2 | Heliostat | 638695, 3935692 | NA |
| 2020_044_ISEGS | house wren | HOWR | Incidental | 4/9/2020 | 4/9/2020 | dead-semi-fresh | 1-3 days | no evidence of singe or collision. | unknown | NA | 0 | CLA Fence | 638803, 3934155 | NA |
| 2020_045_ISEGS | hooded oriole | HOOR | Incidental | 4/16/2020 | 4/16/2020 | dead-fresh | 0-0.33 days | curling to all flight feathers with majority singed off, singe to head, back, rump, and breast | scorched or singed | 2;3 | 3 | Powerblock | 637441, 3937871 | NA |
| 2020_046_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 4/27/2020 | 4/27/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers with majority singed off to left wing and tail, singe to right wing and right flank and side of face. | scorched or singed | 2;3 | 3 | ACC | 637520, 3937959 | NA |
| 2020_047_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 4/27/2020 | 4/27/2020 | dead-fresh | 0-0.33 days | curling to all major flight feathers, singe to head, back, rump, and breast. | scorched or singed | 2;3 | 3 | ACC | 637471, 3937958 | NA |
| 2020_048_ISEGS | Wilson's warbler | WIWA | Fatality Search | 4/27/2020 | 4/27/2020 | dead-fresh | 0.33-1 days | curling to all flight feathers, singe to head, nape, back, and right flank. | scorched or singed | 2;3 | 3 | Powerblock | 637466, 3937876 | NA |
| 2020_049_ISEGS | Wilson's warbler | WIWA | Fatality Search | 4/27/2020 | 4/27/2020 | dead-fresh | 0-0.33 days | curling to all flight feathers, singe to right side of nape and flank. | scorched or singed | 2;3 | 3 | Powerblock | 637488, 3937924 | NA |
| 2020_050_ISEGS | yellow-rumped warbler | YRWA | Incidental | 4/24/2020 | 4/27/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637404, 3937973 | NA |
| 2020_051_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 4/28/2020 | 4/28/2020 | dead-semi-fresh | 0.33-1 days | curling to rectrices and left wing, singe to head, axillaries, and upper breast. | scorched or singed | 2;3 | 2 | ACC | 638653, 3935924 | NA |
| 2020_052_ISEGS | unidentified small bird | UNID | Fatality Search | 4/28/2020 | 4/28/2020 | feather spot | 1-3 days | curling to all flight feathers. | scorched or singed | Unknown | 2 | Powerblock | 638619, 3935774 | NA |
| 2020_053_ISEGS | unidentified small bird | UNID | Fatality Search | 4/28/2020 | 4/28/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638601, 3935825 | NA |
| 2020_054_ISEGS | rufous hummingbird | RUHU | Incidental | 4/28/2020 | 4/28/2020 | dead-semi-fresh | 1-3 days | curling to all flight feathers, singe to right side of face and flank. | scorched or singed | 2;3 | 1 | Powerblock | 640323, 3933452 | NA |
| 2020_055_ISEGS | tree swallow | TRES | Fatality Search | 5/4/2020 | 5/4/2020 | dead-semi-fresh | 3-7 days | singe to all of body except throat with all of flight feathers singed off. | scorched or singed | 2;3 | 1 | ACC | 640397, 3933521 | NA |
| 2020_056_ISEGS | orange-crowned warbler | OCWA | Fatality Search | 5/4/2020 | 5/4/2020 | dead-semi-fresh | 1-3 days | no evidence of singe or collision. | unknown | NA | 1 | ACC | 640357, 3933548 | NA |
| 2020_057_ISEGS | Wilson's warbler | WIWA | Fatality Search | 5/4/2020 | 5/4/2020 | dead-fresh | 0-0.33 days | singe to tips of primaries, coverts, top of head, and right side of face. | scorched or singed | 2;3 | 1 | ACC | 640365, 3933536 | NA |
| 2020_058_ISEGS | Wilson's warbler | WIWA | Incidental | 5/3/2020 | 5/4/2020 | dead-fresh | 0.33-1 days | curling to all flight feathers, singe to top of head, back, and axillaries. | scorched or singed | 2;3 | 2 | Powerblock | 638614, 3935892 | NA |
| 2020_059_ISEGS | Wilson's warbler | WIWA | Incidental | 5/3/2020 | 5/4/2020 | dead-fresh | 0-1 days | curling to all flight feathers, singe to top of head, back, and axillaries. | scorched or singed | 2 | 2 | Powerblock | 638660, 3935845 | NA |

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|----------------|---------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|-----|---|-----------------|-----------------|----|
| 2020_060_ISEGS | Vaux's swift | VASW | Incidental | 5/4/2020 | 5/4/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers with majority singed off, singe to coverts, rump, and breast. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935836 | NA |
| 2020_061_ISEGS | black-throated sparrow | BTSP | Incidental | 5/5/2020 | 5/5/2020 | dead-fresh | 0-0.33 days | no evidence of singe or collision. | unknown | NA | 2 | Perimeter Fence | 638900, 3935055 | NA |
| 2020_062_ISEGS | Wilson's warbler | WIWA | Incidental | 5/6/2020 | 5/6/2020 | dead-fresh | 0-0.33 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_063_ISEGS | mourning dove | MODO | Incidental | 5/7/2020 | 5/7/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638658, 3935873 | NA |
| 2020_064_ISEGS | calliope hummingbird | CAHU | Fatality Search | 5/11/2020 | 5/11/2020 | dead-semi-fresh | 3-7 days | singe to top of head, left flank. | scorched or singed | 3 | 3 | ACC | 637503, 3937986 | NA |
| 2020_065_ISEGS | calliope hummingbird | CAHU | Fatality Search | 5/11/2020 | 5/11/2020 | dead-semi-fresh | 1-3 days | curling to tail, singe to flanks, rump, top of head. | scorched or singed | 1;3 | 3 | ACC | 637457, 3937972 | NA |
| 2020_066_ISEGS | yellow warbler | YWAR | Fatality Search | 5/11/2020 | 5/11/2020 | dead-fresh | 0.33-1 days | curling to majority of flight feathers, singe to right side of forehead. | scorched or singed | 2;3 | 3 | ACC | 637511, 3937959 | NA |
| 2020_067_ISEGS | black-chinned hummingbird | BCHU | Fatality Search | 5/11/2020 | 5/11/2020 | dead-fresh | 0.33-1 days | curling to tail, singe to right flank and axillary, throat. | scorched or singed | 1;3 | 3 | ACC | 637504, 3937959 | NA |
| 2020_068_ISEGS | Wilson's warbler | WIWA | Fatality Search | 5/11/2020 | 5/11/2020 | dead-fresh | 0-0.33 days | curling to all flight feathers, singe to top of head, rump, and axillaries. | scorched or singed | 2;3 | 3 | Powerblock | 637460, 3937872 | NA |
| 2020_069_ISEGS | Wilson's warbler | WIWA | Fatality Search | 5/11/2020 | 5/11/2020 | dead-fresh | 0-0.33 days | curling to all flight feathers, singe to head, upper breast, rump, and back. | scorched or singed | 2;3 | 3 | Powerblock | 637461, 3937881 | NA |
| 2020_070_ISEGS | mourning dove | MODO | Incidental | 5/11/2020 | 5/11/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637488, 3937905 | NA |
| 2020_071_ISEGS | unidentified small bird | UNID | Fatality Search | 5/11/2020 | 5/11/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637488, 3937905 | NA |
| 2020_072_ISEGS | tree swallow | TRES | Fatality Search | 5/11/2020 | 5/11/2020 | feather spot | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637454, 3937976 | NA |
| 2020_073_ISEGS | house finch | HOFI | Fatality Search | 5/11/2020 | 5/11/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637421, 3937976 | NA |
| 2020_074_ISEGS | unidentified warbler | UNWA | Fatality Search | 5/11/2020 | 5/11/2020 | dead-fresh | 8-14 days | singe to contour feathers on back. | scorched or singed | 3 | 3 | Powerblock | 637413, 3937978 | NA |
| 2020_075_ISEGS | Wilson's warbler | WIWA | Incidental | 5/11/2020 | 5/11/2020 | dead-fresh | 0-0.33 days | all flight featrhrs singed off, singe to back, head, and rump. | scorched or singed | 2;3 | 2 | Powerblock | 638618, 3935903 | NA |
| 2020_076_ISEGS | Wilson's warbler | WIWA | Incidental | 5/11/2020 | 5/11/2020 | dead-fresh | 0-0.33 days | singe to all body except throat, majority of flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638672, 3935880 | NA |
| 2020_077_ISEGS | Wilson's warbler | WIWA | Incidental | 5/11/2020 | 5/11/2020 | dead-fresh | 0-0.33 days | curling to all flight feathers, singe to breast and top of head. | scorched or singed | 2;3 | 2 | Powerblock | 638624, 3935873 | NA |
| 2020_078_ISEGS | Wilson's warbler | WIWA | Fatality Search | 5/12/2020 | 5/12/2020 | dead-semi-fresh | 1-3 days | curling to all flight feathers, singe to head, back, and rump. | scorched or singed | 2;3 | 2 | ACC | 638666, 3935897 | NA |
| 2020_079_ISEGS | unidentified small bird | UNID | Fatality Search | 5/12/2020 | 5/12/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638690, 3935832 | NA |

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|----------------|-------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|-----|---|------------|-----------------|----|
| 2020_080_ISEGS | yellow warbler | YWAR | Fatality Search | 5/12/2020 | 5/12/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638632, 3935857 | NA |
| 2020_081_ISEGS | unidentified small bird | UNID | Fatality Search | 5/12/2020 | 5/12/2020 | feather spot | 3-7 days | curling to flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638626, 3935861 | NA |
| 2020_082_ISEGS | mourning dove | MODO | Fatality Search | 5/12/2020 | 5/12/2020 | feather spot | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638632, 3935871 | NA |
| 2020_083_ISEGS | Wilson's warbler | WIWA | Incidental | 5/13/2020 | 5/13/2020 | dead-fresh | 0-0.33 days | curling all flight feathers, singe to left side of face, back, and rump. | scorched or singed | 2;3 | 1 | Powerblock | 640318, 3933503 | NA |
| 2020_084_ISEGS | unidentified small bird | UNID | Incidental | 5/13/2020 | 5/13/2020 | dead-fresh | 0-0.33 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_085_ISEGS | unidentified small bird | UNID | Fatality Search | 5/14/2020 | 5/14/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers, singe to head, back, rump, and breast. | scorched or singed | 2;3 | 1 | ACC | 640353, 3933521 | NA |
| 2020_086_ISEGS | calliope hummingbird | CAHU | Fatality Search | 5/14/2020 | 5/14/2020 | dead-semi-fresh | 3-7 days | singe to nape and rump. | scorched or singed | 3 | 1 | ACC | 640398, 3933535 | NA |
| 2020_087_ISEGS | unidentified warbler | UNWA | Fatality Search | 5/14/2020 | 5/14/2020 | broken up | 3-7 days | singe to flight feathers. | scorched or singed | 1 | 1 | Powerblock | 640359, 3933483 | NA |
| 2020_088_ISEGS | unidentified warbler | UNWA | Fatality Search | 5/14/2020 | 5/14/2020 | dead-semi-fresh | 1-3 days | singe to right flank and rump. | scorched or singed | 3 | 1 | Powerblock | 640400, 3933476 | NA |
| 2020_089_ISEGS | unidentified small bird | UNID | Fatality Search | 5/14/2020 | 5/14/2020 | broken up | 8-14 days | singe to all flight feathers. | scorched or singed | 1 | 1 | Powerblock | 640365, 3933486 | NA |
| 2020_090_ISEGS | yellow warbler | YWAR | Fatality Search | 5/14/2020 | 5/14/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers, desiccated, slight weathering. species based on expert opinion. age and sex are unknown. | scorched or singed | 2;3 | 1 | Powerblock | 640353, 3933546 | NA |
| 2020_091_ISEGS | rock pigeon | ROPI | Fatality Search | 5/14/2020 | 5/14/2020 | dead-semi-fresh | 1-3 days | curling to all flight feathers, singe to breast. | scorched or singed | 2;3 | 1 | Heliostat | 640488, 3933516 | NA |
| 2020_092_ISEGS | barn swallow | BARS | Fatality Search | 5/14/2020 | 5/14/2020 | broken up | 3-7 days | curling to all 4 flight feathers, singe to rest. | scorched or singed | 1 | 1 | Heliostat | 640538, 3933376 | NA |
| 2020_093_ISEGS | barn swallow | BARS | Fatality Search | 5/14/2020 | 5/14/2020 | feather spot | 3-7 days | singe to majority of flight feathers. | scorched or singed | 1 | 1 | Heliostat | 640423, 3933307 | NA |
| 2020_094_ISEGS | unidentified small bird | UNID | Fatality Search | 5/15/2020 | 5/15/2020 | broken up | 8-14 days | no evidence of singe or collision. | unknown | NA | 2 | Heliostat | 638433, 3935861 | NA |
| 2020_095_ISEGS | unidentified small bird | UNID | Fatality Search | 5/15/2020 | 5/15/2020 | dead-fresh | 0-0.33 days | no evidence of singe or collision. | unknown | NA | 2 | Heliostat | 638783, 3935915 | NA |
| 2020_096_ISEGS | unidentified small bird | UNID | Incidental | 5/15/2020 | 5/15/2020 | dead-fresh | 0.33-1 days | curling to flight feathers in wings, singe to right side of face. | scorched or singed | 1 | 2 | Powerblock | 638683, 3935852 | NA |
| 2020_097_ISEGS | unidentified warbler | UNWA | Incidental | 5/15/2020 | 5/15/2020 | dead-fresh | 0.33-1 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638680, 3935850 | NA |
| 2020_098_ISEGS | unidentified small bird | UNID | Fatality Search | 5/26/2020 | 5/26/2020 | feather spot | 8-14 days | curling and singe to flight feathers. | scorched or singed | 1 | 3 | Powerblock | 637432, 3937881 | NA |
| 2020_099_ISEGS | unidentified small bird | UNID | Fatality Search | 5/26/2020 | 5/26/2020 | feather spot | 31-60 days | no evidence of singe or collision. | unknown | NA | 3 | Heliostat | 637610, 3937996 | NA |
| 2020_100_ISEGS | unidentified small bird | UNID | Fatality Search | 5/27/2020 | 5/27/2020 | feather spot | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638652, 3935838 | NA |

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|----------------|--------------------------|------|-----------------|-----------|-----------|-----------------|-------------|---|--------------------|----|---|-----------------|-----------------|----|
| 2020_101_ISEGS | unidentified small bird | UNID | Fatality Search | 5/27/2020 | 5/27/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638665, 3935913 | NA |
| 2020_102_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 5/27/2020 | 5/27/2020 | dead-semi-fresh | 1-3 days | singe to tail, and contour and covert feathers to right side. | scorched or singed | 3 | 2 | Powerblock | 638586, 3935913 | NA |
| 2020_103_ISEGS | mourning dove | MODO | Fatality Search | 5/27/2020 | 5/27/2020 | feather spot | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Heliostat | 638433, 3935861 | NA |
| 2020_104_ISEGS | Costa's hummingbird | COHU | Fatality Search | 5/28/2020 | 5/28/2020 | mummified | 8-14 days | curling to tail and covert feathers. | scorched or singed | 3 | 1 | Powerblock | 640397, 3933475 | NA |
| 2020_105_ISEGS | house finch | HOFI | Fatality Search | 5/28/2020 | 5/28/2020 | dead-fresh | 0.33-1 days | no evidence of singe or collision. | unknown | NA | 1 | ACC | 640426, 3933548 | NA |
| 2020_106_ISEGS | mourning dove | MODO | Incidental | 5/19/2020 | 5/19/2020 | dead-fresh | 0.33-1 days | evidence of collision with vehicle as bird was crushed by tire. | collision-other | NA | 0 | Tortoise Fence | 641540, 3935443 | NA |
| 2020_107_ISEGS | mourning dove | MODO | Fatality Search | 6/9/2020 | 6/9/2020 | feather spot | 1-3 days | evidence of collision with imprint found on heliostat matching size and shape of species. | collision-panel | NA | 2 | Heliostat | 638429, 3935897 | NA |
| 2020_108_ISEGS | mourning dove | MODO | Fatality Search | 6/9/2020 | 6/9/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Heliostat | 637536, 3937692 | NA |
| 2020_109_ISEGS | unidentified warbler | UNWA | Fatality Search | 6/10/2020 | 6/10/2020 | feather spot | 3-7 days | evidence of singe to primaries. | scorched or singed | 1 | 2 | Powerblock | 638643, 3935896 | NA |
| 2020_110_ISEGS | Wilson's warbler | WIWA | Fatality Search | 6/11/2020 | 6/11/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision. | unknown | NA | 1 | Heliostat | 640399, 3933307 | NA |
| 2020_111_ISEGS | rock pigeon | ROPI | Fatality Search | 6/11/2020 | 6/11/2020 | feather spot | 1-3 days | evidence of singe to flight and contour feathers. | scorched or singed | 3 | 1 | Heliostat | 640496, 3933528 | NA |
| 2020_112_ISEGS | unidentified small bird | UNID | Fatality Search | 6/11/2020 | 6/11/2020 | feather spot | 3-7 days | evidence of curling and singe to all flight feathers. | scorched or singed | 1 | 1 | Heliostat | 640465, 3933530 | NA |
| 2020_113_ISEGS | black-throated sparrow | BTSP | Fatality Search | 6/11/2020 | 6/11/2020 | dead-fresh | 0.33-1 days | curling to all flight feathers, singe to all of dorsal and top of head. | scorched or singed | 3 | 1 | Powerblock | 640369, 3933520 | NA |
| 2020_114_ISEGS | unidentified finch | UNFI | Fatality Search | 6/11/2020 | 6/11/2020 | dead-fresh | 0.33-1 days | curling to all flight feathers with heavy singe to whole body. | scorched or singed | 3 | 1 | ACC | 640399, 3933539 | NA |
| 2020_115_ISEGS | house finch | HOFI | Incidental | 6/12/2020 | 6/15/2020 | dead-semi-fresh | 1-3 days | curling to flight feathers, singe to top of head. | scorched or singed | 3 | 2 | Powerblock | 638636, 3935881 | NA |
| 2020_116_ISEGS | ash-throated flycatcher | ATFL | Fatality Search | 6/15/2020 | 6/15/2020 | feather spot | 3-7 days | singe to flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638585, 3935846 | NA |
| 2020_117_ISEGS | unidentified warbler | UNWA | Fatality Search | 6/16/2020 | 6/16/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 1 | Powerblock | 640358, 3933523 | NA |
| 2020_118_ISEGS | prairie falcon | PRFA | Incidental | 6/18/2020 | 6/18/2020 | alive-injured | 0-0.33 days | evidence of collision with bird not being able to fly. | collision-panel | NA | 3 | Perimeter Fence | 638828, 3938365 | NA |
| 2020_119_ISEGS | unidentified small bird | UNID | Fatality Search | 6/18/2020 | 6/18/2020 | broken up | 3-7 days | evidence of singe to primaries. | scorched or singed | 1 | 1 | Heliostat | 640537, 3933476 | NA |
| 2020_120_ISEGS | rock pigeon | ROPI | Fatality Search | 6/18/2020 | 6/18/2020 | feather spot | 3-7 days | curling to all flight feathers and singe to other contour feathers. | scorched or singed | 3 | 1 | Heliostat | 640490, 3933524 | NA |
| 2020_121_ISEGS | unidentified small bird | UNID | Fatality Search | 6/18/2020 | 6/18/2020 | feather spot | 3-7 days | evidence of singe to all feathers. | scorched or singed | 1 | 1 | Heliostat | 640500, 3933444 | NA |

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|----------------|-------------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|-----|---|-------------------|-----------------|----|
| 2020_122_ISEGS | unidentified small bird | UNID | Fatality Search | 6/18/2020 | 6/18/2020 | feather spot | 3-7 days | evidence of singe to all feathers. | scorched or singed | 1 | 1 | Heliostat | 640501, 3933546 | NA |
| 2020_123_ISEGS | house finch | HOFI | Incidental | 6/18/2020 | 6/18/2020 | dead-fresh | 0-0.33 days | singe to dorsal portion of body and top of head with all flight feathers singed off. | scorched or singed | 3 | 2 | Powerblock | 638615, 3935839 | NA |
| 2020_124_ISEGS | Costa's hummingbird | COHU | Incidental | 6/19/2020 | 6/19/2020 | dead-semi-fresh | 3-7 days | majority of flight feathers singed off, left side of body singed. | scorched or singed | 2;3 | 2 | Powerblock | 638628, 3935826 | NA |
| 2020_125_ISEGS | black-throated sparrow | BTSP | Incidental | 6/19/2020 | 6/19/2020 | dead-fresh | 0-0.33 days | singe on back of head and nape of neck | scorched or singed | 1 | 2 | Powerblock | 638635, 3935834 | NA |
| 2020_126_ISEGS | unidentified small bird | UNID | Incidental | 6/20/2020 | 6/22/2020 | dead-semi-fresh | 3-7 days | carcass, singed beyond recognition. feathers curled and singed. | scorched or singed | 3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_127_ISEGS | red-tailed hawk | RTHA | Incidental | 6/24/2020 | 6/24/2020 | alive-injured | 0-0.33 days | bird had significant curling to majority of flight feathers in wings and tail, singe to coverts, scapulars, and left side of face. | scorched or singed | 2 | 2 | Powerblock | 638687, 3935851 | NA |
| 2020_128_ISEGS | northern rough-winged swallow | NRWS | Incidental | 6/30/2020 | 6/30/2020 | dead-fresh | 0.33-1 days | singe to back of head and nape. | scorched or singed | 3 | 1 | Powerblock | 640360, 3933471 | NA |
| 2020_129_ISEGS | unidentified small bird | UNID | Fatality Search | 6/30/2020 | 6/30/2020 | broken up | 3-7 days | right wing shows no evidence of singe or collision. | unknown | NA | 3 | 2560 Air Reciever | 637417, 3937934 | NA |
| 2020_130_ISEGS | black-throated sparrow | BTSP | Fatality Search | 7/1/2020 | 7/7/2020 | dead-semi-fresh | 3-7 days | no evidence of collision or singe. | unknown | NA | 2 | ACC | 638628, 3935916 | NA |
| 2020_131_ISEGS | unidentified small bird | UNID | Fatality Search | 7/1/2020 | 7/1/2020 | broken up | 8-14 days | right wing, 6 primary flight feathers. flight feathers curled and singed. | scorched or singed | 2 | 2 | Powerblock | 638598, 3935842 | NA |
| 2020_132_ISEGS | northern mockingbird | NOMO | Fatality Search | 7/1/2020 | 7/1/2020 | dead-fresh | 0-0.33 days | no evidence of collision or singe. | unknown | NA | 2 | Heliostat | 638574, 3935746 | NA |
| 2020_133_ISEGS | Costa's hummingbird | COHU | Fatality Search | 7/1/2020 | 7/1/2020 | dead-semi-fresh | 1-3 days | no evidence of collision or singe. | unknown | NA | 2 | Heliostat | 638834, 3935960 | NA |
| 2020_134_ISEGS | black-throated sparrow | BTSP | Fatality Search | 7/1/2020 | 7/1/2020 | dead-semi-fresh | 3-7 days | carcass missing tail feathers. wing and contour feathers are singed | scorched or singed | 3 | 2 | Heliostat | 638773, 3935912 | NA |
| 2020_135_ISEGS | American kestrel | AMKE | Incidental | 7/7/2020 | 7/7/2020 | alive-injured | 0-0.33 days | curling to majority of flight feathers with singe to coverts and back. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935852 | NA |
| 2020_136_ISEGS | unidentified small bird | UNID | Fatality Search | 7/2/2020 | 7/2/2020 | broken up | 3-7 days | four flight feathers with skin attached. no evidence of singe or collision. | unknown | NA | 1 | Powerblock | 640360, 3933512 | NA |
| 2020_137_ISEGS | northern mockingbird | NOMO | Fatality Search | 7/2/2020 | 7/2/2020 | dead-semi-fresh | 8-14 days | carcass with no evidence of singe or collision. | unknown | NA | 1 | Powerblock | 640323, 3933526 | NA |
| 2020_138_ISEGS | unidentified waterbird | UNWB | Fatality Search | 7/2/2020 | 7/2/2020 | feather spot | 3-7 days | 16 body feathers. no evidence of singe or collision. | unknown | NA | 1 | Heliostat | 640404, 3933346 | NA |
| 2020_139_ISEGS | common raven | CORA | Fatality Search | 7/2/2020 | 7/2/2020 | dead-fresh | 0.33-1 days | carcass with left wing attached, right wing | scorched or singed | 3 | 1 | Heliostat | 640385, 3933249 | NA |

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|----------------|-------------------------------|------|-----------------|-----------|-----------|-----------------|-------------|---|--------------------|---------|---|------------|-----------------|----|
| 2020_159_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 7/17/2020 | 7/17/2020 | feather spot | 3-7 days | curling to secondaries, singe to tip of primaries. | scorched or singed | Unknown | 3 | Heliostat | 637312, 3938055 | NA |
| 2020_160_ISEGS | house finch | HOFI | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | curling to flight feathers in wings and tail, singe to contour feathers. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_161_ISEGS | unidentified sandpiper | UNSA | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | facial skin burned, singed flight feathers. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_162_ISEGS | unidentified swallow | UNSW | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. all upperparts singed. flight feathers curled and singed off. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_163_ISEGS | house finch | HOFI | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. all flight feathers curled or singed off. all upperparts singed. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_164_ISEGS | unidentified swallow | UNSW | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. all flight feathers singed off. all upperparts and 90% of underparts singed. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_165_ISEGS | black-throated sparrow | BTSP | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. singe on flight feathers, tail, contour feathers. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_166_ISEGS | cliff swallow | CLSW | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. singe on tail and dorsal side of contour feathers. | scorched or singed | 1;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_167_ISEGS | American kestrel | AMKE | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. barbs on back of head singed. | scorched or singed | 3 | 1 | Powerblock | 640358, 3933534 | NA |
| 2020_168_ISEGS | black-throated sparrow | BTSP | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. singed tail feather and rump. | scorched or singed | 1 | 2 | Powerblock | 638658, 3935885 | NA |
| 2020_169_ISEGS | northern rough-winged swallow | NRWS | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. curling on tail and rump feathers. leg burned. | scorched or singed | 1;3 | 2 | Powerblock | 638559, 3935849 | NA |
| 2020_170_ISEGS | black-throated sparrow | BTSP | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. all flight feathers singed or curled off. | scorched or singed | 2;3 | 2 | Powerblock | 638643, 3935842 | NA |
| 2020_171_ISEGS | Anna's hummingbird | ANHU | Incidental | 7/21/2020 | 7/22/2020 | dead-semi-fresh | 3-7 days | whole carcass. flight feathers curled and singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638642, 3935845 | NA |
| 2020_172_ISEGS | rufous hummingbird | RUHU | Fatality Search | 7/27/2020 | 7/27/2020 | dead-semi-fresh | 1-3 days | singe to head, tail, nape of neck, back, and rump. | scorched or singed | 2;3 | 3 | ACC | 637457, 3937972 | NA |
| 2020_173_ISEGS | verdin | VERD | Fatality Search | 7/27/2020 | 7/27/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | ACC | 637497, 3937958 | NA |
| 2020_174_ISEGS | common raven | CORA | Fatality Search | 7/27/2020 | 7/27/2020 | alive-injured | 0-0.33 days | singe to flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638699, 3935887 | NA |
| 2020_175_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 7/27/2020 | 7/27/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | ACC | 637487, 3937958 | NA |
| 2020_176_ISEGS | house finch | HOFI | Fatality Search | 7/27/2020 | 7/27/2020 | dead-fresh | 0.33-1 days | whole carcass. wings curled and very singed | scorched or singed | 2;3 | 3 | ACC | 637485, 3937945 | NA |
| 2020_177_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 7/27/2020 | 7/27/2020 | broken up | 3-7 days | singe to coverts and some secondaries. | scorched or singed | 1;3 | 2 | Powerblock | 638631, 3935864 | NA |

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|----------------|-------------------------------|------|-----------------|-----------|-----------|-----------------|-------------|---|--------------------|-----|---|------------|-----------------|----|
| 2020_178_ISEGS | unidentified small bird | UNID | Fatality Search | 7/27/2020 | 7/27/2020 | broken up | 1-3 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638649, 3935853 | NA |
| 2020_179_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 7/27/2020 | 7/27/2020 | broken up | 3-7 days | curling and singeing to feathers. | scorched or singed | 3 | 2 | Powerblock | 638635, 3935887 | NA |
| 2020_180_ISEGS | unidentified small bird | UNID | Fatality Search | 7/27/2020 | 7/27/2020 | broken up | 3-7 days | curling and singe present on 1 feather. | scorched or singed | 1 | 3 | Powerblock | 637455, 3937905 | NA |
| 2020_181_ISEGS | tree swallow | TRES | Fatality Search | 7/27/2020 | 7/27/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637469, 3937907 | NA |
| 2020_182_ISEGS | tree swallow | TRES | Fatality Search | 7/27/2020 | 7/27/2020 | dead-fresh | 0-0.33 days | singe on dorsal body feathers, wings, and tail. | scorched or singed | 2;3 | 3 | Powerblock | 637482, 3937909 | NA |
| 2020_183_ISEGS | lesser nighthawk | LENI | Fatality Search | 7/27/2020 | 7/27/2020 | feather spot | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637490, 3937952 | NA |
| 2020_184_ISEGS | unidentified small bird | UNID | Fatality Search | 7/27/2020 | 7/27/2020 | broken up | 31-60 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637399, 3937970 | NA |
| 2020_185_ISEGS | unidentified small bird | UNID | Fatality Search | 7/27/2020 | 7/27/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638636, 3935881 | NA |
| 2020_186_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 7/27/2020 | 7/27/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Heliostat | 637528, 3938093 | NA |
| 2020_187_ISEGS | verdin | VERD | Fatality Search | 7/29/2020 | 7/29/2020 | dead-fresh | 0.33-1 days | singe on nape of neck and base of head. | scorched or singed | 3 | 1 | ACC | 640382, 3933534 | NA |
| 2020_188_ISEGS | cliff swallow | CLSW | Fatality Search | 7/29/2020 | 7/29/2020 | dead-semi-fresh | 3-7 days | singed feathers. | scorched or singed | 2;3 | 1 | ACC | 640425, 3933560 | NA |
| 2020_189_ISEGS | hooded oriole | HOOR | Fatality Search | 7/29/2020 | 7/29/2020 | dead-semi-fresh | 3-7 days | singed feathers. | scorched or singed | 2;3 | 1 | ACC | 640399, 3933531 | NA |
| 2020_190_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 7/29/2020 | 7/29/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision. | unknown | NA | 1 | ACC | 640382, 3933528 | NA |
| 2020_191_ISEGS | unidentified small bird | UNID | Fatality Search | 7/29/2020 | 7/29/2020 | broken up | 31-60 days | singed feathers. | scorched or singed | 1 | 1 | Powerblock | 640373, 3933541 | NA |
| 2020_192_ISEGS | unidentified swallow | UNSW | Fatality Search | 7/29/2020 | 7/29/2020 | dead-semi-fresh | 3-7 days | singed feathers. | scorched or singed | 2;3 | 1 | Powerblock | 640302, 3933530 | NA |
| 2020_193_ISEGS | unidentified small bird | UNID | Fatality Search | 7/30/2020 | 7/30/2020 | broken up | 3-7 days | flight feathers singed | scorched or singed | 1 | 1 | Heliostat | 640406, 3933371 | NA |
| 2020_194_ISEGS | northern mockingbird | NOMO | Fatality Search | 7/27/2020 | 7/27/2020 | feather spot | 8-14 days | singed and curled flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638668, 3935867 | NA |
| 2020_195_ISEGS | tree swallow | TRES | Incidental | 8/5/2020 | 8/5/2020 | dead-semi-fresh | 1-3 days | singe to flight feathers and on back and rump. | scorched or singed | 2;3 | 2 | Powerblock | 638611, 3935829 | NA |
| 2020_196_ISEGS | cliff swallow | CLSW | Incidental | 8/6/2020 | 8/6/2020 | dead-semi-fresh | 1-3 days | singe to right underwing, primaries, and coverts. | scorched or singed | 1 | 2 | ACC | 638695, 3935907 | NA |
| 2020_197_ISEGS | tree swallow | TRES | Fatality Search | 8/10/2020 | 8/10/2020 | dead-semi-fresh | 3-7 days | singe to dorsal side of body and underwing. | scorched or singed | 2;3 | 2 | ACC | 638639, 3935909 | NA |
| 2020_198_ISEGS | cliff swallow | CLSW | Fatality Search | 8/10/2020 | 8/10/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers in wings with tail singed off, singe to top of head and coverts. | scorched or singed | 2;3 | 2 | ACC | 638646, 3935909 | NA |
| 2020_199_ISEGS | tree swallow | TRES | Fatality Search | 8/10/2020 | 8/10/2020 | dead-semi-fresh | 3-7 days | curling to all of flight feathers, singe to majority of dorsal side and coverts. | scorched or singed | 2;3 | 2 | ACC | 638657, 3935909 | NA |

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|----------------|-------------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|-----|---|-------------------------|-----------------|----|
| 2020_200_ISEGS | hermit warbler | HEWA | Fatality Search | 8/10/2020 | 8/10/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers in wings with tail singed off, singe to head, back, and rump. | scorched or singed | 2;3 | 2 | ACC | 638675, 3935909 | NA |
| 2020_201_ISEGS | cliff swallow | CLSW | Fatality Search | 8/10/2020 | 8/10/2020 | dead-fresh | 0.33-1 days | singe to wings, tail, and contour feathers. | scorched or singed | 2;3 | 3 | ACC | 637461, 3937946 | NA |
| 2020_202_ISEGS | black-throated sparrow | BTSP | Fatality Search | 8/10/2020 | 8/10/2020 | dead-fresh | 0.33-1 days | curling to flight feathers with many singed off, singe to skin and contour feathers. | scorched or singed | 2;3 | 3 | Powerblock | 637466, 3937922 | NA |
| 2020_203_ISEGS | unidentified small bird | UNID | Fatality Search | 8/10/2020 | 8/10/2020 | feather spot | 8-14 days | curling to three of flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638637, 3935855 | NA |
| 2020_204_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 8/10/2020 | 8/10/2020 | feather spot | 0.33-1 days | curling to all several primaries, secondaries, and 1 rectrice. | scorched or singed | 1 | 2 | Powerblock | 638642, 3935849 | NA |
| 2020_205_ISEGS | mourning dove | MODO | Fatality Search | 8/10/2020 | 8/10/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638584, 3935909 | NA |
| 2020_206_ISEGS | black-throated sparrow | BTSP | Fatality Search | 8/10/2020 | 8/10/2020 | feather spot | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Heliostat | 637331, 3937860 | NA |
| 2020_207_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 8/10/2020 | 8/10/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Heliostat | 637430, 3938088 | NA |
| 2020_208_ISEGS | lesser nighthawk | LENI | Incidental | 8/10/2020 | 8/10/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637479, 3937965 | NA |
| 2020_209_ISEGS | tree swallow | TRES | Incidental | 8/10/2020 | 8/10/2020 | broken up | 1-3 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637484, 3937928 | NA |
| 2020_210_ISEGS | unidentified small bird | UNID | Fatality Search | 8/10/2020 | 8/10/2020 | feather spot | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638584, 3935909 | NA |
| 2020_211_ISEGS | unidentified small bird | UNID | Fatality Search | 8/11/2020 | 8/11/2020 | broken up | 3-7 days | singe to flight and contour feathers. | scorched or singed | 3 | 1 | Powerblock | 640365, 3933510 | NA |
| 2020_212_ISEGS | tree swallow | TRES | Fatality Search | 8/11/2020 | 8/11/2020 | dead-fresh | 0-0.33 days | singe to wings, underside of right wing, and on rump. | scorched or singed | 1;3 | 1 | Powerblock | 640399, 3933497 | NA |
| 2020_213_ISEGS | unidentified small bird | UNID | Fatality Search | 8/11/2020 | 8/11/2020 | feather spot | 3-7 days | singe to feathers. | scorched or singed | 1 | 1 | Powerblock | 640362, 3933532 | NA |
| 2020_214_ISEGS | unidentified small bird | UNID | Fatality Search | 8/11/2020 | 8/11/2020 | feather spot | 3-7 days | curling to flight feathers, singe to contour feathers. | scorched or singed | 3 | 1 | Powerblock | 640365, 3933510 | NA |
| 2020_215_ISEGS | northern mockingbird | NOMO | Fatality Search | 8/12/2020 | 8/12/2020 | feather spot | 3-7 days | no evidence of singe or collision. | unknown | NA | 1 | Heliostat | 640311, 3933271 | NA |
| 2020_216_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 8/12/2020 | 8/12/2020 | broken up | 3-7 days | curling to flight feathers. | scorched or singed | 1 | 1 | Heliostat | 640530, 3933489 | NA |
| 2020_217_ISEGS | unidentified small bird | UNID | Fatality Search | 8/12/2020 | 8/12/2020 | feather spot | 1-3 days | no evidence of singe or collision. | unknown | NA | 1 | Heliostat | 640471, 3933609 | NA |
| 2020_218_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 8/12/2020 | 8/12/2020 | broken up | 3-7 days | curling to flight feathers. | scorched or singed | 1 | 2 | Heliostat | 638649, 3936062 | NA |
| 2020_219_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 8/12/2020 | 8/12/2020 | broken up | 1-3 days | curling to flight feathers. | scorched or singed | 1 | 2 | Heliostat | 638720, 3935719 | NA |
| 2020_220_ISEGS | broad-tailed hummingbird | BTLH | Incidental | 8/17/2020 | 8/19/2020 | dead-semi-fresh | 1-3 days | singeing to flanks, flight feathers and head | scorched or singed | 1 | 2 | Powerblock | 638652, 3935826 | NA |
| 2020_221_ISEGS | Bullock's oriole | BUOR | Incidental | 8/19/2020 | 8/19/2020 | alive-injured | 0-0.33 days | no evidence of collision or singe. | unknown | NA | 0 | Administrative Building | 638997, 3934793 | NA |

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|----------------|----------------------------------|------|-----------------|-----------|-----------|-----------------|-------------|---|-----------------------|-----|---|------------|--------------------|----|
| 2020_222_ISEGS | northern mockingbird | NOMO | Incidental | 8/19/2020 | 8/19/2020 | broken up | 8-14 days | none | unknown | NA | 3 | Heliostat | 637484, 3938179 | NA |
| 2020_223_ISEGS | unidentified small bird | UNID | Incidental | 8/25/2020 | 8/25/2020 | dead-fresh | 0-0.33 days | singe to flight feathers, head, and body feathers | scorched or singed | 2;3 | 2 | Powerblock | 638671, 3935858 | NA |
| 2020_224_ISEGS | cinnamon teal | CITE | Fatality Search | 8/25/2020 | 8/25/2020 | dead-fresh | 0.33-1 days | no imprint on heliostat. found directly under heliostat, fresh carcass/intact. | collision- other | NA | 2 | Heliostat | 638613, 3935729 | NA |
| 2020_225_ISEGS | mourning dove | MODO | Fatality Search | 8/25/2020 | 8/25/2020 | broken up | 0-0.33 days | no evidence of collision or singe. | unknown | NA | 2 | Heliostat | 638633, 3935742 | NA |
| 2020_226_ISEGS | yellow warbler | YWAR | Fatality Search | 8/25/2020 | 8/25/2020 | broken up | 0.33-1 days | slight singeing to primaries of right wing. | scorched or singed | 1 | 2 | Heliostat | 638465, 3935949 | NA |
| 2020_227_ISEGS | chipping sparrow | CHSP | Incidental | 8/25/2020 | 8/26/2020 | dead-semi-fresh | 1-3 days | no singe; deformity to mandible | collision- other | NA | 1 | ACC | 640386, 3933561 | NA |
| 2020_228_ISEGS | verdin | VERD | Incidental | 8/25/2020 | 8/26/2020 | mummified | 8-14 days | no evidence of singe or collision. | unknown | NA | 1 | ACC | 640398, 3933526 | NA |
| 2020_229_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 8/26/2020 | 8/26/2020 | dead-semi-fresh | 3-7 days | flight feathers curled. | scorched or singed | 2;3 | 2 | ACC | 638679, 3935921 | NA |
| 2020_230_ISEGS | tree swallow | TRES | Fatality Search | 8/26/2020 | 8/26/2020 | dead-semi-fresh | 3-7 days | singed tail and wing feathers. singed head and nape. some curling to primaries | scorched or singed | 2;3 | 2 | ACC | 638661, 3935920 | NA |
| 2020_231_ISEGS | yellow warbler | YWAR | Fatality Search | 8/26/2020 | 8/26/2020 | dead-semi-fresh | 3-7 days | singe on top of head, contour feathers, wings and chest. curling of flight feathers. | scorched or singed | 2;3 | 2 | ACC | 638661, 3935920 | NA |
| 2020_232_ISEGS | unidentified swallow | UNSW | Fatality Search | 8/26/2020 | 8/26/2020 | dead-semi-fresh | 3-7 days | singed tail and wing feathers. head and contour feathers singed. | scorched or singed | 2;3 | 2 | ACC | 638632, 3935921 | NA |
| 2020_233_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 8/26/2020 | 8/26/2020 | dead-fresh | 0.33-1 days | singeing to lores, damage to upper mandible | scorched or singed | 1 | 1 | ACC | 640402, 3933525 | NA |
| 2020_234_ISEGS | yellow warbler | YWAR | Fatality Search | 8/26/2020 | 8/26/2020 | dead-semi-fresh | 3-7 days | singed contour feathers, wings and tail | scorched or singed | 3 | 2 | ACC | 638631, 3935896 | NA |
| 2020_235_ISEGS | unidentified small bird | UNID | Fatality Search | 8/26/2020 | 8/26/2020 | mummified | 8-14 days | body feathers singed, flight feathers curled. | scorched or singed | 3 | 1 | ACC | 640395, 3933559 | NA |
| 2020_236_ISEGS | yellow warbler | YWAR | Incidental | 8/24/2020 | 8/24/2020 | dead-semi-fresh | 1-3 days | singeing to nape, curling to primaries and tail feathers. | scorched or singed | 3 | 1 | Powerblock | 640337, 3933446 | NA |
| 2020_237_ISEGS | tree swallow | TRES | Fatality Search | 8/26/2020 | 8/26/2020 | dead-semi-fresh | 1-3 days | curling to inner primaries, singe to top of head and coverts. | scorched or singed | 1;3 | 2 | ACC | 638621, 3935903 | NA |
| 2020_238_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 8/26/2020 | 8/26/2020 | dead-semi-fresh | 3-7 days | singe to tail and wingtips, top of head. | scorched or singed | 1 | 2 | ACC | 638636, 3935913 | NA |
| 2020_239_ISEGS | brown-headed cowbird | BHCO | Fatality Search | 8/26/2020 | 8/26/2020 | mummified | 31-60 days | no evidence of singe or collision. | unknown | NA | 1 | Powerblock | 640388, 3933497 | NA |
| 2020_240_ISEGS | unidentified small bird | UNID | Fatality Search | 8/26/2020 | 8/26/2020 | broken up | 3-7 days | singe to flight feathers. | scorched or singed | 1 | 1 | Powerblock | 640392, 3933481 | NA |
| 2020_241_ISEGS | western kingbird | WEKI | Incidental | 8/26/2020 | 8/26/2020 | dead-semi-fresh | 1-3 days | contour feathers singed, primaries curled, tail | scorched or singed | 3 | 3 | Powerblock | 637487, 3937914 | NA |

feathers singed and some curled.

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|----------------|--------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|-----|---|------------|-----------------|----|
| 2020_242_ISEGS | house wren | HOWR | Fatality Search | 8/27/2020 | 8/27/2020 | dead-semi-fresh | 3-7 days | singe to tail and head. | scorched or singed | 1 | 3 | ACC | 637513, 3937984 | NA |
| 2020_243_ISEGS | black-tailed gnatcatcher | BTGN | Fatality Search | 8/27/2020 | 8/27/2020 | dead-semi-fresh | 3-7 days | singe to tail, wings, and contour feathers. | scorched or singed | 2;3 | 3 | ACC | 637462, 3937953 | NA |
| 2020_244_ISEGS | yellow warbler | YWAR | Fatality Search | 8/27/2020 | 8/27/2020 | dead-fresh | 0.33-1 days | singe on body feathers, curling to primaries of left wing and tail feathers. | scorched or singed | 3 | 2 | Powerblock | 638608, 3935821 | NA |
| 2020_245_ISEGS | western wood-pewee | WEWP | Incidental | 8/27/2020 | 8/27/2020 | alive-injured | 0-0.33 days | singed wings and tail. | scorched or singed | 2;3 | 3 | Powerblock | 637385, 3937889 | NA |
| 2020_246_ISEGS | MacGillivray's warbler | MGWA | Fatality Search | 8/27/2020 | 8/27/2020 | alive-injured | 0-0.33 days | singe to flight feathers | scorched or singed | 1 | 3 | Heliostat | 637473, 3937751 | NA |
| 2020_247_ISEGS | tree swallow | TRES | Fatality Search | 8/27/2020 | 8/27/2020 | dead-fresh | 0.33-1 days | singe to tail, wings, contour feathers. | scorched or singed | 2;3 | 3 | Powerblock | 637431, 3937898 | NA |
| 2020_248_ISEGS | unidentified small bird | UNID | Fatality Search | 8/27/2020 | 8/27/2020 | feather spot | 3-7 days | no evidence of collision or singe. | unknown | NA | 3 | Heliostat | 637500, 3938062 | NA |
| 2020_249_ISEGS | unidentified blackbird | UNBB | Fatality Search | 8/27/2020 | 8/27/2020 | broken up | 3-7 days | no evidence of collision or singe. | unknown | NA | 3 | Heliostat | 637689, 3937834 | NA |
| 2020_250_ISEGS | lesser nighthawk | LENI | Fatality Search | 8/28/2020 | 8/28/2020 | feather spot | 31-60 days | no evidence of collision or singe. | unknown | NA | 1 | Heliostat | 640608, 3933412 | NA |
| 2020_251_ISEGS | unidentified sparrow | UNSP | Fatality Search | 8/28/2020 | 8/28/2020 | feather spot | 0.33-1 days | no evidence of collision or singe. | unknown | NA | 1 | Heliostat | 640515, 3933594 | NA |
| 2020_252_ISEGS | unidentified swallow | UNSW | Incidental | 9/1/2020 | 9/1/2020 | dead-semi-fresh | 8-14 days | no evidence of collision or singe. | unknown | NA | 2 | Powerblock | 638635, 3935850 | NA |
| 2020_253_ISEGS | cliff swallow | CLSW | Incidental | 9/1/2020 | 9/1/2020 | dead-semi-fresh | 3-42 days | no evidence of collision or singe. | unknown | NA | 3 | ACC | 637452, 3937951 | NA |
| 2020_254_ISEGS | turkey vulture | TUVU | Incidental | 9/2/2020 | 9/2/2020 | alive-injured | 0-0.33 days | evidence of large cactus spine in breast of bird preventing it from flying. | collision-other | NA | 2 | Heliostat | 637774, 3936968 | NA |
| 2020_255_ISEGS | black-throated sparrow | BTSP | Incidental | 9/3/2020 | 9/4/2020 | dead-semi-fresh | 3-7 days | evidence of singe to tail, wings, contour feathers. | scorched or singed | 1;3 | 1 | Powerblock | 640340, 3933462 | NA |
| 2020_256_ISEGS | unidentified swallow | UNSW | Incidental | 9/3/2020 | 9/7/2020 | feather spot | 8-14 days | evidence of singe to wings. | scorched or singed | 1 | 2 | Powerblock | 638619, 3935838 | NA |
| 2020_257_ISEGS | tree swallow | TRES | Incidental | 9/3/2020 | 9/7/2020 | dead-semi-fresh | 3-7 days | evidence of singe to coverts on left wing. | scorched or singed | 3 | 2 | Powerblock | 638629, 3935837 | NA |
| 2020_258_ISEGS | yellow warbler | YWAR | Incidental | 9/3/2020 | 9/7/2020 | dead-semi-fresh | 3-7 days | singe to all upperparts with flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638591, 3935863 | NA |
| 2020_259_ISEGS | hermit warbler | HEWA | Incidental | 9/3/2020 | 9/7/2020 | dead-semi-fresh | 3-7 days | singe to bill, wings, and contour feathers. | scorched or singed | 1;3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_260_ISEGS | cliff swallow | CLSW | Incidental | 9/4/2020 | 9/4/2020 | dead-semi-fresh | 1-3 days | secondaries curled, back of head, nape and rump singed. | scorched or singed | 1;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_261_ISEGS | unidentified warbler | UNWA | Incidental | 9/4/2020 | 9/4/2020 | dead-semi-fresh | 3-7 days | singe to entire carcass. | scorched or singed | 2;3 | 1 | Powerblock | 640354, 3933470 | NA |
| 2020_262_ISEGS | MacGillivray's warbler | MGWA | Incidental | 9/5/2020 | 9/7/2020 | dead-semi-fresh | 3-7 days | secondaries curled, nape and rump singed. | scorched or singed | 1;3 | 2 | Powerblock | 638608, 3935809 | NA |

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|----------------|-------------------------------|------|-----------------|----------|----------|-----------------|-------------|---|--------------------|---------|---|------------|-----------------|----|
| 2020_263_ISEGS | MacGillivray's warbler | MGWA | Incidental | 9/6/2020 | 9/7/2020 | dead-fresh | 0.33-1 days | singe to head, wings, tail, and breast. | scorched or singed | 2;3 | 2 | Powerblock | 638634, 3935880 | NA |
| 2020_264_ISEGS | northern rough-winged swallow | NRWS | Incidental | 9/7/2020 | 9/7/2020 | dead-semi-fresh | 3-7 days | singe to breast, tail, wings, and head. | scorched or singed | 2;3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_265_ISEGS | northern rough-winged swallow | NRWS | Incidental | 9/7/2020 | 9/7/2020 | dead-semi-fresh | 3-7 days | singe to all upperparts, all flight feathers singed off. | scorched or singed | 2;3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_266_ISEGS | tree swallow | TRES | Incidental | 9/7/2020 | 9/7/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed, singe to head. | scorched or singed | 2;3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_267_ISEGS | lazuli bunting | LAZB | Incidental | 9/7/2020 | 9/7/2020 | dead-semi-fresh | 1-3 days | singe to breast. | scorched or singed | 3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_268_ISEGS | black-throated gray warbler | BTYW | Incidental | 9/7/2020 | 9/7/2020 | dead-semi-fresh | 1-3 days | all flight feathers singed off | scorched or singed | 2;3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_269_ISEGS | yellow warbler | YWAR | Incidental | 9/7/2020 | 9/7/2020 | dead-fresh | 0.33-1 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_270_ISEGS | northern rough-winged swallow | NRWS | Incidental | 9/7/2020 | 9/7/2020 | dead-semi-fresh | 3-7 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_271_ISEGS | Brewer's sparrow | BRSP | Incidental | 9/7/2020 | 9/7/2020 | dead-fresh | 0-0.33 days | singe on back of head | scorched or singed | 3 | 2 | Powerblock | 638640, 3935873 | NA |
| 2020_272_ISEGS | northern rough-winged swallow | NRWS | Incidental | 9/7/2020 | 9/7/2020 | dead-fresh | 0.33-1 days | no evidence of collision or singe. | unknown | NA | 2 | Powerblock | 638640, 3935873 | NA |
| 2020_273_ISEGS | tree swallow | TRES | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | singed wings, tail, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638683, 3935884 | NA |
| 2020_274_ISEGS | MacGillivray's warbler | MGWA | Fatality Search | 9/8/2020 | 9/8/2020 | dead-fresh | 0.33-1 days | all flight feathers curled or singed off | scorched or singed | 2;3 | 3 | ACC | 637517, 3937945 | NA |
| 2020_275_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/8/2020 | 9/8/2020 | dead-fresh | 0.33-1 days | all flight feathers curled or singed off | scorched or singed | 2;3 | 3 | ACC | 637503, 3937946 | NA |
| 2020_276_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | all flight feathers singed off. head, nape, back, and breast all singed. | scorched or singed | 2;3 | 3 | ACC | 637520, 3937945 | NA |
| 2020_277_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 9/8/2020 | 9/8/2020 | dead-fresh | 0.33-1 days | all feathers curled or singed off. head, flanks, and breast singed. | scorched or singed | 2;3 | 2 | ACC | 638623, 3935883 | NA |
| 2020_278_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/8/2020 | 9/8/2020 | broken up | 3-7 days | all flight feathers curled or singed off. head, nape, and back singed. | scorched or singed | 2;3 | 3 | ACC | 637486, 3937946 | NA |
| 2020_279_ISEGS | Nashville warbler | NAWA | Fatality Search | 9/8/2020 | 9/8/2020 | dead-fresh | 0.33-1 days | primary tips singed | scorched or singed | 1 | 2 | ACC | 638633, 3935890 | NA |
| 2020_280_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 9/8/2020 | 9/8/2020 | broken up | 8-14 days | primaries & retrix curled | scorched or singed | Unknown | 2 | ACC | 638676, 3935896 | NA |
| 2020_281_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | tip of upper and lower bill broken. | collision-other | NA | 3 | ACC | 637484, 3937946 | NA |
| 2020_282_ISEGS | cedar waxwing | CEWA | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed. back of head, nape, and back singed | scorched or singed | 2;3 | 3 | ACC | 637460, 3937946 | NA |
| 2020_283_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | singe over entire body | scorched or singed | 2;3 | 3 | ACC | 637457, 3937946 | NA |

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|----------------|-------------------------------|------|-----------------|-----------|-----------|-----------------|----------|---|--------------------|-----|---|-----------|-----------------|----|
| 2020_284_ISEGS | barn swallow | BARS | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed. nape, back, and throat singed. | scorched or singed | 2;3 | 3 | ACC | 637455, 3937946 | NA |
| 2020_285_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | singed wings, body, head, and contour feathers | scorched or singed | 2;3 | 3 | ACC | 637453, 3937946 | NA |
| 2020_286_ISEGS | house finch | HOFI | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | singed tail, wings, and breast feathers | scorched or singed | 2;3 | 2 | ACC | 638650, 3935896 | NA |
| 2020_287_ISEGS | yellow warbler | YWAR | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | singed wing, tail, and contour feathers | scorched or singed | 1;3 | 2 | ACC | 638651, 3935896 | NA |
| 2020_288_ISEGS | cliff swallow | CLSW | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed. breast, throat, nape, rump, and chest singed. | scorched or singed | 2;3 | 2 | ACC | 638636, 3935896 | NA |
| 2020_289_ISEGS | blue-gray gnatcatcher | BGGN | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | singed head, tail, and contour feathers. | scorched or singed | 1;3 | 2 | ACC | 638640, 3935896 | NA |
| 2020_290_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/8/2020 | 9/8/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled. singe on nape, back, and coverts. | scorched or singed | 2;3 | 2 | ACC | 638623, 3935896 | NA |
| 2020_291_ISEGS | black-throated sparrow | BTSP | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed head, contour feathers, breast, wings, and tail | scorched or singed | 2;3 | 3 | ACC | 637454, 3937959 | NA |
| 2020_292_ISEGS | unidentified waterfowl | UNWF | Fatality Search | 9/10/2020 | 9/10/2020 | feather spot | 3-7 days | no evidence of collision or singe. | unknown | NA | 1 | Heliostat | 640458, 3933379 | NA |
| 2020_293_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | nape and tips of secondaries curled | scorched or singed | 1;3 | 3 | ACC | 637457, 3937959 | NA |
| 2020_294_ISEGS | tree swallow | TRES | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed head, wings, tail, and contour feathers. | scorched or singed | 2;3 | 3 | ACC | 637458, 3937959 | NA |
| 2020_295_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed wings, head, tail, contour feathers, and breast. | scorched or singed | 2;3 | 2 | ACC | 638646, 3935909 | NA |
| 2020_296_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed breast, wings, tail, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638649, 3935909 | NA |
| 2020_297_ISEGS | black-throated sparrow | BTSP | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed tail, wings, breast, head, and contour feathers. | scorched or singed | 2;3 | 3 | ACC | 637459, 3937959 | NA |
| 2020_298_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed head, wings, tail, and contour feathers. | scorched or singed | 2;3 | 3 | ACC | 637463, 3937959 | NA |
| 2020_299_ISEGS | yellow warbler | YWAR | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed off. | scorched or singed | 2;3 | 2 | ACC | 638669, 3935909 | NA |
| 2020_300_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singe across entire carcass | scorched or singed | 2;3 | 3 | ACC | 637447, 3937959 | NA |
| 2020_301_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed. naoe and back singed | scorched or singed | 2;3 | 2 | ACC | 638677, 3935909 | NA |
| 2020_302_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed. top of head and nape singed. | scorched or singed | 2;3 | 3 | ACC | 637494, 3937960 | NA |
| 2020_303_ISEGS | Nashville warbler | NAWA | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 1-3 days | singed wing and coverts | scorched or singed | 1;3 | 3 | ACC | 637499, 3937958 | NA |
| 2020_304_ISEGS | cliff swallow | CLSW | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 1-3 days | curled feathers on all flight feathers, singe on back | scorched or singed | 3 | 3 | ACC | 637460, 3937972 | NA |

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|----------------|-------------------------------|------|-----------------|----------|----------|-----------------|-------------|---|--------------------|---------|---|------------|-----------------|----|
| 2020_305_ISEGS | unidentified small bird | UNID | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | single over entire carcass | scorched or singed | 2;3 | 3 | ACC | 637496, 3937972 | NA |
| 2020_306_ISEGS | unidentified small bird | UNID | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 3-7 days | tips of secondaries curled | scorched or singed | Unknown | 3 | Powerblock | 637423, 3937891 | NA |
| 2020_307_ISEGS | unidentified small bird | UNID | Fatality Search | 9/9/2020 | 9/9/2020 | feather spot | 8-14 days | curling of primary and secondary flight feathers and retrix. | scorched or singed | 1 | 2 | Powerblock | 638624, 3935852 | NA |
| 2020_308_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 3-7 days | singed primary coverts | scorched or singed | 3 | 3 | Powerblock | 637481, 3937933 | NA |
| 2020_309_ISEGS | unidentified small bird | UNID | Fatality Search | 9/9/2020 | 9/9/2020 | feather spot | 8-14 days | no evidence of single or collision | unknown | NA | 2 | Powerblock | 638630, 3935858 | NA |
| 2020_310_ISEGS | unidentified warbler | UNWA | Fatality Search | 9/9/2020 | 9/9/2020 | feather spot | 1-3 days | no evidence of collision or single. | unknown | NA | 2 | Powerblock | 638655, 3935844 | NA |
| 2020_311_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | single over entire carcass | scorched or singed | 2;3 | 3 | Powerblock | 637471, 3937935 | NA |
| 2020_312_ISEGS | blue-gray gnatcatcher | BGGN | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed breast, head, wings coverts, and tail | scorched or singed | 1;3 | 2 | Powerblock | 638634, 3935819 | NA |
| 2020_313_ISEGS | unidentified warbler | UNWA | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 3-7 days | singed contour feather around leg | scorched or singed | 3 | 3 | Powerblock | 637459, 3937935 | NA |
| 2020_314_ISEGS | tree swallow | TRES | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed wings, tail, head, breast, and contour feathers | scorched or singed | 2;3 | 3 | Powerblock | 637461, 3937933 | NA |
| 2020_315_ISEGS | black-throated sparrow | BTSP | Fatality Search | 9/9/2020 | 9/9/2020 | mummified | 31-60 days | curling of all flight feathers and tail feathers. body feathers & head feathers singed. | scorched or singed | 3 | 3 | Powerblock | 637457, 3937933 | NA |
| 2020_316_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed wing, tail, contour feathers, and breast. | scorched or singed | 1;3 | 3 | Powerblock | 637448, 3937933 | NA |
| 2020_317_ISEGS | lazuli bunting | LAZB | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 3-7 days | singed tail, contour feathers, and head | scorched or singed | 1;3 | 1 | ACC | 640405, 3933561 | NA |
| 2020_318_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 3-7 days | singed tail feathers | scorched or singed | 1 | 1 | Powerblock | 640412, 3933482 | NA |
| 2020_319_ISEGS | verdin | VERD | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed wings, tail, and contour feathers. | scorched or singed | 1;3 | 1 | ACC | 640406, 3933547 | NA |
| 2020_320_ISEGS | violet-green swallow | VGSW | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed wings, head, contour feathers, and tail | scorched or singed | 2;3 | 1 | ACC | 640357, 3933535 | NA |
| 2020_321_ISEGS | yellow warbler | YWAR | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed head, wings, tail, breast, and contour feathers. | scorched or singed | 2;3 | 1 | ACC | 640374, 3933547 | NA |
| 2020_322_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed head, wings, tail, contour feathers, and breast | scorched or singed | 2;3 | 1 | ACC | 640403, 3933521 | NA |
| 2020_323_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | whole carcass singed | scorched or singed | 2;3 | 1 | ACC | 640386, 3933522 | NA |
| 2020_324_ISEGS | warbling vireo | WAVI | Fatality Search | 9/9/2020 | 9/9/2020 | dead-fresh | 0.33-1 days | curling of tertials and secondary flight feathers | scorched or singed | 1 | 1 | Powerblock | 640317, 3933491 | NA |
| 2020_325_ISEGS | unidentified warbler | UNWA | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 8-14 days | singed contour feathers | scorched or singed | 3 | 1 | Powerblock | 640370, 3933477 | NA |
| 2020_326_ISEGS | unidentified warbler | UNWA | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 3-7 days | no evidence of collision or single. | unknown | NA | 1 | Powerblock | 640373, 3933487 | NA |

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|----------------|-------------------------------|------|-----------------|-----------|-----------|-----------------|-------------|---|--------------------|-----|---|------------|-----------------|----|
| 2020_327_ISEGS | unidentified small bird | UNID | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 3-7 days | curling of all secondaries and greater coverts. | scorched or singed | 1 | 1 | Powerblock | 640369, 3933509 | NA |
| 2020_328_ISEGS | unidentified small bird | UNID | Fatality Search | 9/9/2020 | 9/9/2020 | broken up | 3-7 days | singed contour feathers on leg | scorched or singed | 3 | 1 | Powerblock | 640361, 3933514 | NA |
| 2020_329_ISEGS | lazuli bunting | LAZB | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 8-14 days | singed breast, contour feathers, and head | scorched or singed | 3 | 1 | Powerblock | 640356, 3933513 | NA |
| 2020_330_ISEGS | yellow warbler | YWAR | Fatality Search | 9/9/2020 | 9/9/2020 | dead-semi-fresh | 3-7 days | singed wings, head, contour feathers, and tail. singed breast | scorched or singed | 2;3 | 1 | Powerblock | 640341, 3933513 | NA |
| 2020_331_ISEGS | green-tailed towhee | GTTO | Fatality Search | 9/10/2020 | 9/10/2020 | feather spot | 3-7 days | no evidence of collision or singe. | unknown | NA | 2 | Heliostat | 638599, 3935605 | NA |
| 2020_332_ISEGS | white-crowned sparrow | WCSP | Fatality Search | 9/10/2020 | 9/10/2020 | dead-fresh | 0.33-1 days | no imprint on heliostat. found directly under heliostat, fresh carcass/intact. | collision-other | NA | 3 | Heliostat | 637473, 3937731 | NA |
| 2020_333_ISEGS | unidentified small bird | UNID | Fatality Search | 9/10/2020 | 9/10/2020 | broken up | 8-14 days | singed wing feathers | scorched or singed | 1 | 3 | Heliostat | 637280, 3938068 | NA |
| 2020_334_ISEGS | American kestrel | AMKE | Fatality Search | 9/10/2020 | 9/10/2020 | broken up | 3-7 days | curling of retricies and of primaries | scorched or singed | 1 | 3 | Heliostat | 637529, 3938156 | NA |
| 2020_335_ISEGS | unidentified swallow | UNSW | Fatality Search | 9/10/2020 | 9/10/2020 | broken up | 8-14 days | singed primaries | scorched or singed | 1 | 1 | Heliostat | 640497, 3933396 | NA |
| 2020_336_ISEGS | Wilson's warbler | WIWA | Incidental | 9/14/2020 | 9/15/2020 | dead-fresh | 0.33-1 days | all flight feathers curled or singed off. head, nape, and back singed. | scorched or singed | 2;3 | 1 | ACC | 640400, 3933521 | NA |
| 2020_337_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 9/16/2020 | 9/16/2020 | mummified | 31-60 days | whole carcass singed | scorched or singed | 2;3 | 3 | ACC | 637497, 3937967 | NA |
| 2020_338_ISEGS | unidentified small bird | UNID | Fatality Search | 9/16/2020 | NA | dead-semi-fresh | 3-7 days | unknown due to no availability for collection. | unknown | NA | 3 | ACC | 637454, 3937947 | NA |
| 2020_339_ISEGS | Wilson's warbler | WIWA | Fatality Search | 9/16/2020 | 9/16/2020 | dead-fresh | 0.33-1 days | singeing to nape, back, and head feathers. flight feathers mostly missing. remaing feathers are curled. | scorched or singed | 2;3 | 3 | ACC | 637484, 3937948 | NA |
| 2020_340_ISEGS | yellow warbler | YWAR | Fatality Search | 9/16/2020 | 9/16/2020 | dead-fresh | 0.33-1 days | flight feathers curled. head, nape, and back singed. | scorched or singed | 3 | 3 | Powerblock | 637449, 3937881 | NA |
| 2020_341_ISEGS | mourning dove | MODO | Fatality Search | 9/16/2020 | 9/16/2020 | feather spot | 3-7 days | no evidence of collision or singe. | unknown | NA | 3 | Heliostat | 637272, 3937874 | NA |
| 2020_342_ISEGS | mourning dove | MODO | Fatality Search | 9/16/2020 | 9/16/2020 | broken up | 0-0.33 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637273, 3938042 | NA |
| 2020_343_ISEGS | unidentified swallow | UNSW | Fatality Search | 9/16/2020 | 9/16/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637637, 3938068 | NA |
| 2020_344_ISEGS | yellow warbler | YWAR | Fatality Search | 9/16/2020 | 9/16/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637671, 3938067 | NA |
| 2020_345_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 9/16/2020 | 9/16/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637614, 3937901 | NA |
| 2020_346_ISEGS | unidentified small bird | UNID | Fatality Search | 9/17/2020 | 9/17/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 2 | Powerblock | 638652, 3935864 | NA |
| 2020_347_ISEGS | unidentified small bird | UNID | Fatality Search | 9/17/2020 | 9/17/2020 | feather spot | 1-3 days | tips of body feathers singed | scorched or singed | 3 | 2 | Powerblock | 638628, 3935859 | NA |

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|----------------|-----------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|---------|---|------------|-----------------|----|
| 2020_348_ISEGS | yellow warbler | YWAR | Fatality Search | 9/17/2020 | 9/17/2020 | dead-fresh | 0-0.33 days | flight feathers curled. back, contour feathers and head singed. tail feathers singed off. | scorched or singed | 3 | 2 | ACC | 638634, 3935884 | NA |
| 2020_349_ISEGS | mourning dove | MODO | Incidental | 9/18/2020 | 9/18/2020 | feather spot | 0.33-1 days | imprint on heliostat matching size of mourning dove. | collision-other | NA | 3 | Heliostat | 637398, 3938065 | NA |
| 2020_350_ISEGS | unidentified sparrow | UNSP | Fatality Search | 9/18/2020 | 9/18/2020 | feather spot | 1-3 days | no evidence of collision or singe. | unknown | NA | 1 | Heliostat | 640593, 3933481 | NA |
| 2020_351_ISEGS | mourning dove | MODO | Fatality Search | 9/18/2020 | 9/18/2020 | feather spot | 1-3 days | heliostat imprint 15m away from featherspot | collision-other | NA | 1 | Heliostat | 640377, 3933665 | NA |
| 2020_352_ISEGS | yellow warbler | YWAR | Fatality Search | 9/21/2020 | 9/21/2020 | dead-fresh | 0.33-1 days | singed head, wings, tail, chest, and contour feathers. | scorched or singed | 2;3 | 1 | ACC | 640363, 3933522 | NA |
| 2020_353_ISEGS | yellow warbler | YWAR | Fatality Search | 9/21/2020 | 9/21/2020 | dead-fresh | 0.33-1 days | singed head, wings, tail, chest, and contour feathers. | scorched or singed | 2;3 | 1 | ACC | 640355, 3933522 | NA |
| 2020_354_ISEGS | yellow warbler | YWAR | Fatality Search | 9/21/2020 | 9/21/2020 | dead-fresh | 0.33-1 days | singeing on the cheek and collar | scorched or singed | Unknown | 1 | ACC | 640388, 3933547 | NA |
| 2020_355_ISEGS | unidentified small bird | UNID | Fatality Search | 9/21/2020 | 9/21/2020 | dead-semi-fresh | 3-7 days | unknown due to no availability for collection. | unknown | NA | 1 | ACC | 640399, 3933550 | NA |
| 2020_356_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 9/21/2020 | 9/21/2020 | dead-fresh | 0.33-1 days | head, wings, tail, chest, and contour feathers singed. | scorched or singed | 2;3 | 1 | Powerblock | 640328, 3933540 | NA |
| 2020_357_ISEGS | yellow warbler | YWAR | Fatality Search | 9/21/2020 | 9/21/2020 | broken up | 3-7 days | singed retricies | scorched or singed | 1 | 1 | Powerblock | 640348, 3933512 | NA |
| 2020_358_ISEGS | unidentified small bird | UNID | Fatality Search | 9/21/2020 | 9/21/2020 | feather spot | 3-7 days | singed flight feathers | scorched or singed | 1 | 1 | Powerblock | 640402, 3933520 | NA |
| 2020_359_ISEGS | unidentified small bird | UNID | Fatality Search | 9/21/2020 | 9/21/2020 | broken up | 0.33-1 days | no evidence of collision or singe. | unknown | NA | 1 | Powerblock | 640354, 3933515 | NA |
| 2020_360_ISEGS | unidentified small bird | UNID | Fatality Search | 9/21/2020 | 9/21/2020 | broken up | 3-7 days | singeing on flight feathers | scorched or singed | 1 | 1 | Powerblock | 640347, 3933499 | NA |
| 2020_361_ISEGS | cliff swallow | CLSW | Fatality Search | 9/21/2020 | 9/21/2020 | dead-fresh | 0-0.33 days | singed retricies and underwing | scorched or singed | 1;3 | 1 | Powerblock | 640332, 3933567 | NA |
| 2020_362_ISEGS | black-throated gray warbler | BTYW | Incidental | 9/21/2020 | 9/21/2020 | dead-fresh | 0-0.33 days | curling to all flight feathers, singe to top of head and axillaries. | scorched or singed | 1 | 3 | Powerblock | 637433, 3937888 | NA |
| 2020_363_ISEGS | yellow warbler | YWAR | Incidental | 9/21/2020 | 9/21/2020 | dead-fresh | 0.33-1 days | curling to all flight feathers in wings and tail, singe to top of head and coverts. | scorched or singed | 2;3 | 3 | Powerblock | 637417, 3937871 | NA |
| 2020_364_ISEGS | yellow warbler | YWAR | Incidental | 9/21/2020 | 9/21/2020 | dead-semi-fresh | 1-3 days | curling to all flight feathers in wings and tail, singe to top of head, coverts, left flank, axillaries. | scorched or singed | 2;3 | 2 | Powerblock | 638629, 3935835 | NA |
| 2020_365_ISEGS | white-crowned sparrow | WCSP | Incidental | 9/21/2020 | 9/21/2020 | dead-semi-fresh | 0-0.33 days | curling to all flight feathers, singe to back, nape, and top f head. | scorched or singed | 2;3 | 1 | Powerblock | 640309, 3933513 | NA |
| 2020_366_ISEGS | yellow warbler | YWAR | Incidental | 9/21/2020 | 9/22/2020 | dead-semi-fresh | 0-0.33 days | singe to tips of rectrices, right side of head. | scorched or singed | 1;3 | 2 | Powerblock | 638573, 3935887 | NA |
| 2020_367_ISEGS | western tanager | WETA | Incidental | 9/22/2020 | 9/22/2020 | dead-semi-fresh | 0-0.33 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637492, 3937952 | NA |

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|----------------|-----------------------------|------|------------|-----------|-----------|-----------------|-------------|---|--------------------|-----|---|------------|-----------------|----|
| 2020_368_ISEGS | unidentified swallow | UNSW | Incidental | 9/22/2020 | 9/22/2020 | broken up | 3-7 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637493, 3937954 | NA |
| 2020_369_ISEGS | black-throated gray warbler | BTYW | Incidental | 9/22/2020 | 9/22/2020 | dead-semi-fresh | 0.33-1 days | curling to all flight feathers, singe to nape and top of head. | scorched or singed | 2;3 | 3 | Powerblock | 637475, 3937944 | NA |
| 2020_370_ISEGS | western tanager | WETA | Incidental | 9/22/2020 | 9/22/2020 | dead-semi-fresh | 0-0.33 days | no evidence of collision or singe. | unknown | NA | 3 | Powerblock | 637454, 3937933 | NA |
| 2020_371_ISEGS | yellow warbler | YWAR | Incidental | 9/23/2020 | 9/23/2020 | dead-fresh | 0-0.33 days | curling to secondaries and primaries, singe to right side of face and flanks. | scorched or singed | 2;3 | 2 | Powerblock | 638656, 3935844 | NA |
| 2020_372_ISEGS | house finch | HOFI | Incidental | 9/23/2020 | 9/23/2020 | dead-fresh | 0.33-1 days | curling to secondaries and primaries, singe to head, nape, and chest. | scorched or singed | 2;3 | 1 | Powerblock | 640376, 3933517 | NA |
| 2020_373_ISEGS | blackpoll warbler | BLPW | Incidental | 9/23/2020 | 9/23/2020 | dead-fresh | 0.33-1 days | curling to primaries and secondaries. | scorched or singed | 2;3 | 1 | Powerblock | 640386, 3933493 | NA |
| 2020_374_ISEGS | black phoebe | BLPH | Incidental | 9/26/2020 | 9/26/2020 | alive-injured | 0-0.33 days | curling to all flight feathers, singe to head, nape, and back. | scorched or singed | 2;3 | 1 | Powerblock | 640363, 3933460 | NA |
| 2020_375_ISEGS | osprey | OSPR | Incidental | 9/26/2020 | 9/26/2020 | alive-injured | 0-0.33 days | singe to face and flight feathers. | scorched or singed | 2;3 | 3 | Powerblock | 637468, 3937886 | NA |
| 2020_376_ISEGS | unidentified swallow | UNSW | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 8-14 days | singe to majority of body with all flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_377_ISEGS | unidentified small bird | UNID | Incidental | 9/28/2020 | 9/28/2020 | mummified | 31-60 days | singe to majority of body with all flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_378_ISEGS | unidentified warbler | UNWA | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 8-14 days | singe to majority of body (ezcept throat) with all flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_379_ISEGS | unidentified swallow | UNSW | Incidental | 9/28/2020 | 9/28/2020 | mummified | 31-60 days | singe to majority of upper body and breast with all flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_380_ISEGS | unidentified small bird | UNID | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 3-7 days | singe to all part of body with flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_381_ISEGS | yellow-rumped warbler | YRWA | Incidental | 9/28/2020 | 9/28/2020 | dead-fresh | 0.33-1 days | singe to head, nape, and back with flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_382_ISEGS | tree swallow | TRES | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 3-7 days | singe to majority of upper body and breast with all flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_383_ISEGS | ladder-backed woodpecker | LBWO | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 3-7 days | singe to left side of face. | scorched or singed | 3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_384_ISEGS | tree swallow | TRES | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 3-7 days | curling to tips of primaries. | scorched or singed | 1;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_385_ISEGS | unidentified warbler | UNWA | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 3-7 days | singe to majority of upper body and breast with all flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_386_ISEGS | verdin | VERD | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 3-7 days | singe to chest and breast with all flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |

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|----------------|-----------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|---------|---|------------|-----------------|----|
| 2020_387_ISEGS | orange-crowned warbler | OCWA | Incidental | 9/28/2020 | 9/28/2020 | dead-fresh | 0-0.33 days | single to tips of flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_388_ISEGS | Wilson's warbler | WIWA | Incidental | 9/28/2020 | 9/28/2020 | dead-semi-fresh | 3-7 days | single to nape and back with all flight feathers singed off. | scorched or singed | 2;3 | 1 | Powerblock | 640340, 3933476 | NA |
| 2020_389_ISEGS | violet-green swallow | VGSW | Incidental | 9/29/2020 | 9/29/2020 | dead-semi-fresh | 3-7 days | single to tertials. | scorched or singed | 1 | 1 | Powerblock | 640349, 3933529 | NA |
| 2020_390_ISEGS | loggerhead shrike | LOSH | Incidental | 9/30/2020 | 9/30/2020 | dead-semi-fresh | 3-7 days | no evidence of collision or single. | unknown | NA | 1 | Powerblock | 640374, 3933510 | NA |
| 2020_391_ISEGS | yellow-rumped warbler | YRWA | Incidental | 9/30/2020 | 9/30/2020 | dead-semi-fresh | 3-7 days | single to back, chest, and belly with all flight feathers singed off. | scorched or singed | 2;3 | 2 | ACC | 638681, 3935882 | NA |
| 2020_392_ISEGS | black-throated gray warbler | BTYW | Incidental | 9/30/2020 | 9/30/2020 | dead-semi-fresh | 1-3 days | single to top of head, back, rump, and coverts with curling to all major flight feathers. | scorched or singed | 2;3 | 2 | ACC | 638666, 3935882 | NA |
| 2020_393_ISEGS | cliff swallow | CLSW | Incidental | 9/30/2020 | 9/30/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers. | scorched or singed | 2;3 | 2 | ACC | 638666, 3935883 | NA |
| 2020_394_ISEGS | orange-crowned warbler | OCWA | Incidental | 9/30/2020 | 9/30/2020 | broken up | 3-7 days | curling to tips of secondaries. | scorched or singed | 1 | 2 | ACC | 638686, 3935903 | NA |
| 2020_395_ISEGS | unidentified sparrow | UNSP | Incidental | 9/30/2020 | 9/30/2020 | broken up | 3-7 days | no evidence of collision or single | unknown | NA | 2 | Powerblock | 638679, 3935883 | NA |
| 2020_396_ISEGS | unidentified small bird | UNID | Incidental | 9/30/2020 | 9/30/2020 | dead-fresh | 0-0.33 days | whole carcass singed with all flight feathers singed off. | scorched or singed | 2;3 | 2 | Powerblock | 638661, 3935835 | NA |
| 2020_397_ISEGS | black-throated gray warbler | BTYW | Incidental | 9/30/2020 | 9/30/2020 | alive-injured | 0-0.33 days | curling to flight feathers, single to top of head. | scorched or singed | Unknown | 2 | Powerblock | 638551, 3935885 | NA |
| 2020_398_ISEGS | violet-green swallow | VGSW | Incidental | 9/30/2020 | 9/30/2020 | broken up | 8-14 days | no evidence of collision or single | unknown | NA | 3 | Powerblock | 637410, 3937930 | NA |
| 2020_399_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | unknown due to no availability for collection. | unknown | NA | 2 | ACC | 638659, 3935918 | NA |
| 2020_400_ISEGS | orange-crowned warbler | OCWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | curling to several tips of rectrices and flight feathers of right wing, single to coverts. | scorched or singed | 1;3 | 2 | ACC | 638651, 3935909 | NA |
| 2020_401_ISEGS | cliff swallow | CLSW | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | single to head, back, rump, and coverts, curling to flight feathers in wings with tail singed off. | scorched or singed | 2;3 | 3 | ACC | 637502, 3937959 | NA |
| 2020_402_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | single to top of head and left flank, curling to flight feathers in wings. | scorched or singed | 2;3 | 2 | ACC | 638633, 3935896 | NA |
| 2020_403_ISEGS | orange-crowned warbler | OCWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | curling and single to several flight feathers in right wing and tail. | scorched or singed | 1;3 | 3 | ACC | 637495, 3937960 | NA |
| 2020_404_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | single to all parts of carcass except back, all flight feathers singed off. | scorched or singed | 2;3 | 3 | ACC | 637483, 3937959 | NA |
| 2020_405_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | single to all parts of carcass, curling to flight feathers in wings with tail singed off. | scorched or singed | 2;3 | 3 | ACC | 637471, 3937959 | NA |

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|----------------|-------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|-----|---|------------|-----------------|----|
| 2020_406_ISEGS | barn swallow | BARS | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | singe to majority of dorsal, curling to all flight feathers in both wings with tail singed off. | scorched or singed | 2;3 | 2 | ACC | 638635, 3935896 | NA |
| 2020_407_ISEGS | orange-crowned warbler | OCWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | singe to top of head, back, upper breast, and rump, curling to flight feathers in wings with tail singed off. | scorched or singed | 2;3 | 2 | ACC | 638641, 3935896 | NA |
| 2020_408_ISEGS | yellow warbler | YWAR | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | singe to tips of primaries in right wing. | scorched or singed | 1 | 3 | ACC | 637465, 3937959 | NA |
| 2020_409_ISEGS | orange-crowned warbler | OCWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers, singe to top of head, back, rump, and upper breast. | scorched or singed | 2;3 | 2 | ACC | 638651, 3935896 | NA |
| 2020_410_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | entire carcass singed. | scorched or singed | 2;3 | 2 | ACC | 638660, 3935896 | NA |
| 2020_411_ISEGS | warbling vireo | WAVI | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | wings singed, head, chin, tail also singed. | scorched or singed | 2;3 | 2 | ACC | 638660, 3935896 | NA |
| 2020_412_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers with tail singed off. singe to top of head, flanks, coverts, and axillaries. | scorched or singed | 2;3 | 2 | ACC | 638671, 3935896 | NA |
| 2020_413_ISEGS | Wilson's warbler | WIWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | back, wings, head all singed | scorched or singed | 2;3 | 2 | ACC | 638688, 3935890 | NA |
| 2020_414_ISEGS | house finch | HOFI | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | curling to all flight feathers. singed head, nape, and upper breast. | scorched or singed | 2;3 | 3 | ACC | 637498, 3937972 | NA |
| 2020_415_ISEGS | Wilson's warbler | WIWA | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | singeing to head, back, and rump. remaining flight feathers curled. | scorched or singed | 3 | 2 | ACC | 638649, 3935883 | NA |
| 2020_416_ISEGS | yellow warbler | YWAR | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | singeing to wing coverts, tail and wing feathers | scorched or singed | 3 | 3 | ACC | 637483, 3937972 | NA |
| 2020_417_ISEGS | yellow warbler | YWAR | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | extensive singeing to head, breast, mantle and rump. tail and wing feathers curled or missing. | scorched or singed | 3 | 2 | ACC | 638656, 3935884 | NA |
| 2020_418_ISEGS | rufous hummingbird | RUHU | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | singeing to contour feathers | scorched or singed | 3 | 3 | ACC | 637458, 3937972 | NA |
| 2020_419_ISEGS | violet-green swallow | VGSW | Incidental | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | singeing to crown, nape, mantle, rump and wing coverts. tail feathers missing or curled. primaries and secondaries curled. | scorched or singed | 3 | 2 | Powerblock | 638612, 3935834 | NA |
| 2020_420_ISEGS | orange-crowned warbler | OCWA | Fatality Search | 10/3/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | curling to rectx, singe to top of head, left side of face and breast. | scorched or singed | 1;3 | 3 | ACC | 637501, 3937985 | NA |
| 2020_421_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637427, 3937950 | NA |
| 2020_422_ISEGS | lesser goldfinch | LEGO | Fatality Search | 10/5/2020 | 10/5/2020 | dead-fresh | 0-0.33 days | no evidence of singe or collision | unknown | NA | 3 | Powerblock | 637445, 3937929 | NA |

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|----------------|-------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|---------|---|------------|-----------------|----|
| 2020_423_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | curling to majority of flight feathers. singe to contour feathers. | scorched or singed | 1 | 3 | Powerblock | 637456, 3937927 | NA |
| 2020_424_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | curling to flight feathers, singe to contour feathers. | scorched or singed | 1;3 | 3 | Powerblock | 637459, 3937927 | NA |
| 2020_425_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | curling to 2 rects. | scorched or singed | 1 | 2 | Powerblock | 638555, 3935890 | NA |
| 2020_426_ISEGS | yellow warbler | YWAR | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | singeing to nape, back, breast. curling to flight feathers. | scorched or singed | 2;3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_427_ISEGS | northern flicker | NOFL | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 3-7 days | singeing to nape and mantle | scorched or singed | 3 | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_428_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 1-3 days | singeing to a few contour feathers. | scorched or singed | 3 | 2 | Powerblock | 638626, 3935878 | NA |
| 2020_429_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 3-7 days | singe to flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638626, 3935875 | NA |
| 2020_430_ISEGS | unidentified swallow | UNSW | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_431_ISEGS | house finch | HOFI | Fatality Search | 10/5/2020 | 10/5/2020 | dead-semi-fresh | 1-3 days | curling to all flight feathers and on body. | scorched or singed | 3 | 2 | Powerblock | 638623, 3935872 | NA |
| 2020_432_ISEGS | unidentified swallow | UNSW | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 1-3 days | curling to all feathers. | scorched or singed | 3 | 2 | Powerblock | 638627, 3935867 | NA |
| 2020_433_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 1-3 days | all feathers with curling or singe. | scorched or singed | 3 | 3 | Heliostat | 637426, 3937715 | NA |
| 2020_434_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637336, 3937720 | NA |
| 2020_435_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | evidence of curling or singe to all feathers. | scorched or singed | 3 | 3 | Heliostat | 637468, 3937773 | NA |
| 2020_436_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637484, 3937789 | NA |
| 2020_437_ISEGS | western tanager | WETA | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637451, 3937804 | NA |
| 2020_438_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | curling to all primaries. | scorched or singed | Unknown | 3 | Heliostat | 637378, 3937805 | NA |
| 2020_439_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637378, 3937805 | NA |
| 2020_440_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 1-3 days | singe to flight feathers. | scorched or singed | 3 | 3 | Heliostat | 637327, 3937792 | NA |
| 2020_441_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 1-3 days | singe to flight feathers. | scorched or singed | 3 | 3 | Heliostat | 637349, 3937800 | NA |
| 2020_442_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637281, 3937796 | NA |
| 2020_443_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637283, 3937797 | NA |
| 2020_444_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637294, 3937818 | NA |
| 2020_445_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 31-60 days | singe to feathers in wing. | scorched or singed | 1 | 3 | Heliostat | 637252, 3937845 | NA |

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|----------------|--------------------------|------|-----------------|-----------|-----------|---------------|-------------|--|--------------------|---------|---|------------|-----------------|----|
| 2020_446_ISEGS | mourning dove | MODO | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637265, 3937863 | NA |
| 2020_447_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637248, 3937938 | NA |
| 2020_448_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637263, 3937991 | NA |
| 2020_449_ISEGS | western meadowlark | WEME | Fatality Search | 10/5/2020 | 10/5/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637255, 3937896 | NA |
| 2020_450_ISEGS | unidentified small bird | UNID | Fatality Search | 10/5/2020 | 10/5/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637261, 3938021 | NA |
| 2020_451_ISEGS | Savannah sparrow | SAVS | Fatality Search | 10/6/2020 | 10/6/2020 | dead-fresh | 0-0.33 days | imprint on nearest heliostat. | collision-other | NA | 2 | Heliostat | 638612, 3935613 | NA |
| 2020_452_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637577, 3937721 | NA |
| 2020_453_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/6/2020 | 10/6/2020 | broken up | 1-3 days | curling to 4 primary feathers. | scorched or singed | Unknown | 3 | Heliostat | 637611, 3937767 | NA |
| 2020_454_ISEGS | violet-green swallow | VGSW | Incidental | 10/5/2020 | 10/6/2020 | alive-injured | 0-0.33 days | all flight feathers curled or singed, head d and back singed. | scorched or singed | 2;3 | 1 | Powerblock | 640353, 3933494 | NA |
| 2020_455_ISEGS | unidentified swallow | UNSW | Fatality Search | 10/6/2020 | 10/6/2020 | broken up | 3-7 days | curling or singeing to all primary flight feathers. | scorched or singed | 2 | 2 | Heliostat | 638502, 3935707 | NA |
| 2020_456_ISEGS | violet-green swallow | VGSW | Incidental | 10/6/2020 | 10/6/2020 | dead-fresh | 0-0.33 days | primaries, secondaries, and retricies curled and singed. singe on head and back. | scorched or singed | 2;3 | 1 | Powerblock | 640298, 3933564 | NA |
| 2020_457_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 10/6/2020 | 10/6/2020 | broken up | 3-7 days | singed tail feathers, curled primaries. | scorched or singed | 1 | 2 | Heliostat | 638582, 3935711 | NA |
| 2020_458_ISEGS | unidentified small bird | UNID | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637661, 3937849 | NA |
| 2020_459_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/6/2020 | 10/6/2020 | broken up | 1-3 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638434, 3935925 | NA |
| 2020_460_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637581, 3938044 | NA |
| 2020_461_ISEGS | greater roadrunner | GRRO | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638784, 3936012 | NA |
| 2020_462_ISEGS | yellow warbler | YWAR | Fatality Search | 10/6/2020 | 10/6/2020 | broken up | 3-7 days | curled secondaries | scorched or singed | 1 | 3 | Heliostat | 637426, 3938055 | NA |
| 2020_463_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637267, 3938055 | NA |
| 2020_464_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/6/2020 | 10/6/2020 | broken up | 1-3 days | broken up carcass with imprint of heliostat. | collision-other | NA | 2 | Heliostat | 638845, 3935978 | NA |
| 2020_465_ISEGS | Lincoln's sparrow | LISP | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637391, 3938064 | NA |
| 2020_466_ISEGS | Lincoln's sparrow | LISP | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638874, 3935945 | NA |
| 2020_467_ISEGS | unidentified small bird | UNID | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637419, 3938072 | NA |
| 2020_468_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638873, 3935919 | NA |

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|----------------|-----------------------------|------|-----------------|-----------|------------|-----------------|-------------|--|--------------------|-----|---|-----------------|-----------------|----|
| 2020_469_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 3-7 days | retricies curled | scorched or singed | 1;3 | 3 | Heliostat | 637513, 3938059 | NA |
| 2020_470_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637350, 3938070 | NA |
| 2020_471_ISEGS | black-throated gray warbler | BTYW | Incidental | 10/6/2020 | 10/6/2020 | dead-semi-fresh | 3-7 days | singe on face | scorched or singed | 1;3 | 2 | ACC | 638685, 3935889 | NA |
| 2020_472_ISEGS | white-crowned sparrow | WCSP | Fatality Search | 10/6/2020 | 10/6/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637436, 3938113 | NA |
| 2020_473_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/6/2020 | 10/6/2020 | dead-fresh | 0-0.33 days | face and chest singed. secondaries and retricies curled. | scorched or singed | 1;3 | 3 | Berm | 637405, 3937833 | NA |
| 2020_474_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 10/6/2020 | 10/6/2020 | dead-fresh | 0.33-1 days | all flight feathers singed. face, throat, nape singed. | scorched or singed | 2;3 | 3 | ACC | 637487, 3937944 | NA |
| 2020_475_ISEGS | barn swallow | BARS | Incidental | 10/6/2020 | 10/26/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | ACC | 637484, 3937982 | NA |
| 2020_476_ISEGS | unidentified small bird | UNID | Incidental | 10/6/2020 | NA | dead-semi-fresh | 3-7 days | unknown due to no availability for collection. | unknown | NA | 3 | ACC | 637461, 3937966 | NA |
| 2020_477_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 10/7/2020 | 10/7/2020 | dead-fresh | 0.33-1 days | curling to majority of flight feathers in left wing and tail. singe to top of the head. | scorched or singed | 2;3 | 1 | ACC | 640360, 3933561 | NA |
| 2020_478_ISEGS | greater roadrunner | GRRO | Incidental | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Perimeter Fence | 636258, 3937050 | NA |
| 2020_479_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | curling to wing and tail singed off. singe to top of head, back , and rump. | scorched or singed | 2;3 | 1 | ACC | 640408, 3933522 | NA |
| 2020_480_ISEGS | black-throated sparrow | BTSP | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 8-14 days | singe to top of head and majority of body cavity with flight feathers singed off. | scorched or singed | 2;3 | 1 | ACC | 640404, 3933521 | NA |
| 2020_481_ISEGS | mourning dove | MODO | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640385, 3933655 | NA |
| 2020_482_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | curling to flight feathers in wings and tail. singe to forehead, upper breast, and axillaries. | scorched or singed | 2;3 | 1 | ACC | 640360, 3933521 | NA |
| 2020_483_ISEGS | orange-crowned warbler | OCWA | Fatality Search | 10/7/2020 | 10/7/2020 | dead-fresh | 0.33-1 days | curling to flight feathers in both wings with tail singed off, singe to right side of face and flanks. | scorched or singed | 2;3 | 1 | ACC | 640358, 3933520 | NA |
| 2020_484_ISEGS | verdin | VERD | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 1-3 days | right side of face is singed. | scorched or singed | 3 | 1 | ACC | 640354, 3933520 | NA |
| 2020_485_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers. singe to all of dorsal side and upper brease | scorched or singed | 2;3 | 1 | ACC | 640383, 3933520 | NA |
| 2020_486_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | curling to all flight feathers, singe to all of dorsal, upper breast, and axillaries | scorched or singed | 2;3 | 1 | ACC | 640345, 3933521 | NA |
| 2020_487_ISEGS | yellow warbler | YWAR | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | singe to top of head and both flanks with all flight feathers singed off. | scorched or singed | 2;3 | 1 | ACC | 640358, 3933535 | NA |

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|----------------|-------------------------|------|-----------------|-----------|-----------|-----------------|-------------|---|--------------------|-----|---|----------------------|-----------------|----|
| 2020_488_ISEGS | western meadowlark | WEME | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640543, 3933554 | NA |
| 2020_489_ISEGS | chipping sparrow | CHSP | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | all flight feathers singed off. head, back, and chest singed. | scorched or singed | 2;3 | 1 | ACC | 640358, 3933534 | NA |
| 2020_490_ISEGS | tree swallow | TRES | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | singe to top of head, flanks, coverts, curling to flight feathers and tail. | scorched or singed | 2;3 | 1 | ACC | 640362, 3933535 | NA |
| 2020_491_ISEGS | Wilson's warbler | WIWA | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | singe to top of head, rump, right side of face with all flight feathers singed off. | scorched or singed | 2;3 | 1 | ACC | 640362, 3933534 | NA |
| 2020_492_ISEGS | tree swallow | TRES | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed off, head, nape, and back singed. | scorched or singed | 2;3 | 1 | ACC | 640365, 3933534 | NA |
| 2020_493_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | flight feathers singed or curled, head and chest singed. | scorched or singed | 2;3 | 1 | ACC | 640399, 3933535 | NA |
| 2020_494_ISEGS | unidentified small bird | UNID | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640165, 3933528 | NA |
| 2020_495_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640541, 3933415 | NA |
| 2020_496_ISEGS | yellow warbler | YWAR | Fatality Search | 10/7/2020 | 10/7/2020 | dead-semi-fresh | 3-7 days | flight feathers curled or singed, singe to head and coverts. | scorched or singed | 2;3 | 1 | ACC | 640356, 3933547 | NA |
| 2020_497_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/7/2020 | 10/7/2020 | dead-fresh | 0-0.33 days | right side of face and nape singed. | scorched or singed | 3 | 1 | Heliostat | 640180, 3933556 | NA |
| 2020_498_ISEGS | American coot | AMCO | Incidental | 10/7/2020 | 10/7/2020 | broken up | 0.33-1 days | no evidence of singe or collision | unknown | NA | 2 | East Perimeter Fence | 639681, 3936410 | NA |
| 2020_499_ISEGS | unidentified small bird | UNID | Fatality Search | 10/7/2020 | 10/7/2020 | broken up | 1-3 days | no evidence of singe or collision | unknown | NA | 1 | Powerblock | 640276, 3933443 | NA |
| 2020_500_ISEGS | unidentified small bird | UNID | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | flight feathers and body feathers singed. | scorched or singed | 1;3 | 1 | Powerblock | 640399, 3933473 | NA |
| 2020_501_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640258, 3933339 | NA |
| 2020_502_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | all flight feathers curled or singed. | scorched or singed | 2 | 1 | Powerblock | 640351, 3933516 | NA |
| 2020_503_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/7/2020 | 10/7/2020 | broken up | 8-14 days | body feathers singed. | scorched or singed | 3 | 1 | Powerblock | 640343, 3933516 | NA |
| 2020_504_ISEGS | mourning dove | MODO | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640492, 3933343 | NA |
| 2020_505_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/7/2020 | 10/7/2020 | broken up | 0.33-1 days | no evidence of singe or collision | unknown | NA | 1 | Powerblock | 640313, 3933420 | NA |
| 2020_506_ISEGS | western meadowlark | WEME | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640170, 3933486 | NA |
| 2020_507_ISEGS | western tanager | WETA | Fatality Search | 10/7/2020 | 10/7/2020 | broken up | 1-3 days | singe to coverts. | scorched or singed | 3 | 1 | Heliostat | 640157, 3933492 | NA |

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|----------------|-------------------------|------|-----------------|------------|------------|-----------------|-------------|--|--------------------|-----|---|------------|-----------------|----|
| 2020_508_ISEGS | lesser goldfinch | LEGO | Fatality Search | 10/7/2020 | 10/7/2020 | alive-injured | 0-0.33 days | bird was disorientated and had loss of balance when captured suggesting collision however no imprint. | collision-other | NA | 1 | Heliostat | 640176, 3933519 | NA |
| 2020_509_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/7/2020 | 10/7/2020 | feather spot | 3-7 days | curling on leading edge of primary. | scorched or singed | 1 | 1 | Heliostat | 640165, 3933528 | NA |
| 2020_510_ISEGS | yellow-rumped warbler | YRWA | Incidental | 10/8/2020 | 10/8/2020 | dead-fresh | 0.33-1 days | curling to all flight feathers, singe to all parts of body | scorched or singed | 2;3 | 1 | Powerblock | 640395, 3933510 | NA |
| 2020_511_ISEGS | violet-green swallow | VGSW | Incidental | 10/14/2020 | NA | alive-injured | 0-0.33 days | visible curling to secondaries. singed back. | scorched or singed | 2 | 3 | Heliostat | 637693, 3937804 | NA |
| 2020_512_ISEGS | yellow-rumped warbler | YRWA | Incidental | 10/15/2020 | 10/15/2020 | dead-fresh | 0.33-1 days | curling to retrix, singe to right side of nape. | scorched or singed | 3 | 1 | Heliostat | 640166, 3933378 | NA |
| 2020_513_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | curling to all flight feathers or singed off, singe to head. | scorched or singed | 2;3 | 3 | ACC | 637479, 3937946 | NA |
| 2020_514_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to wings, head, chest, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638659, 3935883 | NA |
| 2020_515_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 3-7 days | curling or singe to all flight feathers, singe to face and chest. | scorched or singed | 2;3 | 3 | ACC | 637469, 3937969 | NA |
| 2020_516_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to wings, tail, head, chest, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638679, 3935897 | NA |
| 2020_517_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 3-7 days | singe to all flight feathers, head, nape, and back. | scorched or singed | 2;3 | 3 | ACC | 637500, 3937958 | NA |
| 2020_518_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singed head, wings, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638675, 3935896 | NA |
| 2020_519_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to entire carcass. | scorched or singed | 2;3 | 2 | ACC | 638669, 3935896 | NA |
| 2020_520_ISEGS | Anna's hummingbird | ANHU | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 3-7 days | curling to flight feathers in left wings with tail feathers singed off, head, back, and breast singed. | scorched or singed | 2;3 | 3 | ACC | 637483, 3937959 | NA |
| 2020_521_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to entire carcass. | scorched or singed | 2;3 | 2 | ACC | 638662, 3935896 | NA |
| 2020_522_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 1-3 days | all flight feathers curled or singed off, singe to face. | scorched or singed | 2;3 | 3 | ACC | 637472, 3937959 | NA |
| 2020_523_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to wings, head, rump, and collar. | scorched or singed | 2;3 | 2 | ACC | 638653, 3935896 | NA |
| 2020_524_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to wings, head, tail, chest, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638648, 3935896 | NA |
| 2020_525_ISEGS | unidentified small bird | UNID | Fatality Search | 10/19/2020 | 10/19/2020 | broken up | 3-7 days | singe to primaries and secondaries. | scorched or singed | 2 | 2 | ACC | 638688, 3935909 | NA |
| 2020_526_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to wings, head, rump, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638686, 3935909 | NA |
| 2020_527_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to wings, head, rump, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638681, 3935909 | NA |
| 2020_528_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 1-3 days | curling or singe to all flight feathers. | scorched or singed | 2;3 | 3 | ACC | 637492, 3937972 | NA |

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|----------------|-------------------------------|------|-----------------|------------|------------|-----------------|-------------|--|--------------------|---------|---|------------|-----------------|----|
| 2020_529_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singe to wings, head, rump, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638674, 3935909 | NA |
| 2020_530_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | entire carcass singed | scorched or singed | 2;3 | 2 | ACC | 638663, 3935908 | NA |
| 2020_531_ISEGS | MacGillivray's warbler | MGWA | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 3-7 days | all flight feathers curled or singed. crown and nape singed. | scorched or singed | 2;3 | 3 | ACC | 637482, 3937983 | NA |
| 2020_532_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | wings, head, collar, and contour feathers singed | scorched or singed | 2;3 | 2 | ACC | 638565, 3935909 | NA |
| 2020_533_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 1-3 days | all flight feathers curled or singed off. all upperparts singed. | scorched or singed | 2;3 | 2 | ACC | 638635, 3935909 | NA |
| 2020_534_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 3-7 days | all flight feathers singed off. all upperparts singed | scorched or singed | 2;3 | 3 | ACC | 637471, 3937972 | NA |
| 2020_535_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | head, wings, tail, and chest singed. | scorched or singed | 2;3 | 2 | ACC | 638649, 3935922 | NA |
| 2020_536_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | singed wings, tail, head, and contour feathers | scorched or singed | 2;3 | 3 | ACC | 637463, 3937986 | NA |
| 2020_537_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 10/19/2020 | 10/19/2020 | broken up | 3-7 days | singed secondaries | scorched or singed | 1 | 3 | Powerblock | 637457, 3937818 | NA |
| 2020_538_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/19/2020 | 10/19/2020 | broken up | 3-7 days | no evidence of singe or collision. | unknown | NA | 3 | Powerblock | 637450, 3937908 | NA |
| 2020_539_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision. | unknown | NA | 2 | Powerblock | 638585, 3935888 | NA |
| 2020_540_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | head, wings, tail, contour feathers singed. | scorched or singed | 2;3 | 2 | Powerblock | 638620, 3935916 | NA |
| 2020_541_ISEGS | violet-green swallow | VGSW | Fatality Search | 10/19/2020 | 10/19/2020 | dead-fresh | 0.33-1 days | wings, rump, head, contour feathers singed | scorched or singed | 2;3 | 2 | Powerblock | 638690, 3935902 | NA |
| 2020_542_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 10/19/2020 | 10/19/2020 | feather spot | 3-7 days | singed primaries and secondaries. | scorched or singed | Unknown | 3 | Powerblock | 637493, 3937910 | NA |
| 2020_543_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/19/2020 | 10/19/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Powerblock | 637503, 3937920 | NA |
| 2020_544_ISEGS | unidentified small bird | UNID | Fatality Search | 10/19/2020 | 10/19/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Powerblock | 638634, 3935869 | NA |
| 2020_545_ISEGS | unidentified kinglet | UNKL | Fatality Search | 10/19/2020 | 10/19/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Powerblock | 637469, 3937934 | NA |
| 2020_546_ISEGS | unidentified small bird | UNID | Fatality Search | 10/19/2020 | 10/19/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Powerblock | 637375, 3937957 | NA |
| 2020_547_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/19/2020 | 10/19/2020 | broken up | 3-7 days | body feathers show evidence of singe. | scorched or singed | 3 | 3 | Powerblock | 637388, 3937965 | NA |
| 2020_548_ISEGS | lazuli bunting | LAZB | Fatality Search | 10/19/2020 | 10/19/2020 | dead-semi-fresh | 1-3 days | all flight feathers curled or singed off. all upperparts singed. | scorched or singed | 2;3 | 2 | ACC | 638630, 3935884 | NA |
| 2020_549_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638634, 3935606 | NA |
| 2020_550_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638607, 3935646 | NA |

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|----------------|-------------------------|------|-----------------|------------|------------|--------------|-------------|---|--------------------|----|---|-----------|-----------------|----|
| 2020_551_ISEGS | unidentified small bird | UNID | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637384, 3937807 | NA |
| 2020_552_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | singed primary | scorched or singed | 1 | 2 | Heliostat | 638640, 3935723 | NA |
| 2020_553_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | singed primary | scorched or singed | 1 | 3 | Heliostat | 637313, 3937804 | NA |
| 2020_554_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | tips of secondaries show curling | scorched or singed | 1 | 3 | Heliostat | 637308, 3937804 | NA |
| 2020_555_ISEGS | Swainson's thrush | SWTH | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638445, 3935774 | NA |
| 2020_556_ISEGS | unidentified kinglet | UNKL | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637266, 3937811 | NA |
| 2020_557_ISEGS | yellow warbler | YWAR | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637622, 3937811 | NA |
| 2020_558_ISEGS | western tanager | WETA | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637273, 3937817 | NA |
| 2020_559_ISEGS | western meadowlark | WEME | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637257, 3937873 | NA |
| 2020_560_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638629, 3936018 | NA |
| 2020_561_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637243, 3937965 | NA |
| 2020_562_ISEGS | western meadowlark | WEME | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638726, 3936031 | NA |
| 2020_563_ISEGS | dark-eyed junco | DEJU | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637270, 3937974 | NA |
| 2020_564_ISEGS | American pipit | AMPI | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637293, 3938034 | NA |
| 2020_565_ISEGS | vesper sparrow | VESP | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638677, 3936055 | NA |
| 2020_566_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637266, 3938048 | NA |
| 2020_567_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637670, 3938062 | NA |
| 2020_568_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637389, 3938063 | NA |
| 2020_569_ISEGS | lesser goldfinch | LEGO | Fatality Search | 10/20/2020 | 10/20/2020 | dead-fresh | 0.33-1 days | intact carcass close to base of heliostat with no observable injuries indicates a probable collision. | collision-other | NA | 2 | Heliostat | 638804, 3935895 | NA |
| 2020_570_ISEGS | western tanager | WETA | Fatality Search | 10/20/2020 | 10/20/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637533, 3938105 | NA |
| 2020_571_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637611, 3938027 | NA |
| 2020_572_ISEGS | unidentified small bird | UNID | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637653, 3938001 | NA |
| 2020_573_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637661, 3937977 | NA |

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|----------------|-------------------------|------|-----------------|------------|------------|-----------------|-------------|--|--------------------|-----|---|------------|-----------------|----|
| 2020_574_ISEGS | unidentified small bird | UNID | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | all retricies singed. tips of primaries singed. | scorched or singed | 1 | 3 | Heliostat | 637678, 3937868 | NA |
| 2020_575_ISEGS | Bewick's wren | BEWR | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637590, 3937754 | NA |
| 2020_576_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/21/2020 | 10/21/2020 | dead-semi-fresh | 3-7 days | entire carcass singed | scorched or singed | 2;3 | 1 | ACC | 640396, 3933521 | NA |
| 2020_577_ISEGS | pine siskin | PISI | Fatality Search | 10/21/2020 | 10/21/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640222, 3933641 | NA |
| 2020_578_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/21/2020 | 10/21/2020 | dead-fresh | 0.33-1 days | singed wings, head, chest, and contour feathers. | scorched or singed | 2;3 | 1 | ACC | 640403, 3933535 | NA |
| 2020_579_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/21/2020 | 10/21/2020 | dead-fresh | 0.33-1 days | singed head, wings, chest, and contour feathers. | scorched or singed | 2;3 | 1 | ACC | 640381, 3933536 | NA |
| 2020_580_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/21/2020 | 10/21/2020 | dead-semi-fresh | 3-7 days | singed wings, head, and contour feathers. | scorched or singed | 2;3 | 1 | ACC | 640347, 3933535 | NA |
| 2020_581_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640187, 3933584 | NA |
| 2020_582_ISEGS | house sparrow | HOSP | Fatality Search | 10/21/2020 | 10/21/2020 | dead-fresh | 0.33-1 days | singed head, wings, tail, contour feathers, and chest. | scorched or singed | 2;3 | 1 | ACC | 640358, 3933548 | NA |
| 2020_583_ISEGS | western meadowlark | WEME | Fatality Search | 10/21/2020 | 10/21/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640161, 3933573 | NA |
| 2020_584_ISEGS | yellow warbler | YWAR | Fatality Search | 10/21/2020 | 10/21/2020 | broken up | 3-7 days | tips of flight feathers singed | scorched or singed | 3 | 1 | Heliostat | 640167, 3933564 | NA |
| 2020_585_ISEGS | unidentified warbler | UNWA | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640160, 3933519 | NA |
| 2020_586_ISEGS | yellow warbler | YWAR | Incidental | 10/14/2020 | 10/21/2020 | dead-semi-fresh | 3-7 days | singed head,wings, and tail | scorched or singed | 2;3 | 1 | Powerblock | 640331, 3933536 | NA |
| 2020_587_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640171, 3933483 | NA |
| 2020_588_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640181, 3933458 | NA |
| 2020_589_ISEGS | unidentified small bird | UNID | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Powerblock | 640405, 3933531 | NA |
| 2020_590_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/21/2020 | 10/21/2020 | dead-fresh | 0-0.33 days | entire carcass singed | scorched or singed | 2;3 | 1 | Powerblock | 640404, 3933510 | NA |
| 2020_591_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640159, 3933417 | NA |
| 2020_592_ISEGS | Swainson's thrush | SWTH | Fatality Search | 10/21/2020 | 10/21/2020 | broken up | 3-7 days | singed flight feather | scorched or singed | 1 | 1 | Powerblock | 640353, 3933508 | NA |
| 2020_593_ISEGS | unidentified small bird | UNID | Fatality Search | 10/21/2020 | 10/21/2020 | broken up | 3-7 days | singed wing | scorched or singed | 1 | 1 | Powerblock | 640351, 3933508 | NA |
| 2020_594_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 10/21/2020 | 10/21/2020 | dead-semi-fresh | 8-14 days | singed head, wings, chest, and contour feathers. | scorched or singed | 2;3 | 1 | Powerblock | 640352, 3933478 | NA |
| 2020_595_ISEGS | unidentified small bird | UNID | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Powerblock | 640351, 3933468 | NA |
| 2020_596_ISEGS | unidentified small bird | UNID | Fatality Search | 10/21/2020 | 10/21/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Powerblock | 640352, 3933495 | NA |
| 2020_597_ISEGS | blue-gray gnatcatcher | BGGN | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640340, 3933342 | NA |

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|----------------|-----------------------------|------|-----------------|------------|------------|-----------------|----------------------|--|--------------------|---------|---|------------|-----------------|----|
| 2020_598_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640339, 3933345 | NA |
| 2020_599_ISEGS | unidentified small bird | UNID | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | tips of flight feathers singed. covert feathers singed. | scorched or singed | 1;3 | 1 | Heliostat | 640270, 3933340 | NA |
| 2020_600_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640283, 3933341 | NA |
| 2020_601_ISEGS | western tanager | WETA | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640328, 3933318 | NA |
| 2020_602_ISEGS | lesser goldfinch | LEGO | Fatality Search | 10/21/2020 | 10/21/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640188, 3933339 | NA |
| 2020_603_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640185, 3933343 | NA |
| 2020_604_ISEGS | unidentified grebe | UNGR | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640261, 3933298 | NA |
| 2020_605_ISEGS | unidentified small bird | UNID | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | curled flight feather | scorched or singed | 1 | 1 | Heliostat | 640508, 3933394 | NA |
| 2020_606_ISEGS | green-tailed towhee | GTTO | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640522, 3933394 | NA |
| 2020_607_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | singe on retricies | scorched or singed | 1 | 1 | Heliostat | 640488, 3933431 | NA |
| 2020_608_ISEGS | western meadowlark | WEME | Fatality Search | 10/21/2020 | 10/21/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640554, 3933545 | NA |
| 2020_609_ISEGS | unidentified small bird | UNID | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640598, 3933592 | NA |
| 2020_610_ISEGS | unidentified small bird | UNID | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | tips of body feathers singed | scorched or singed | 3 | 1 | Heliostat | 640438, 3933661 | NA |
| 2020_611_ISEGS | western tanager | WETA | Fatality Search | 10/21/2020 | 10/21/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640524, 3933676 | NA |
| 2020_612_ISEGS | ruby-crowned kinglet | RCKI | Incidental | 10/20/2020 | 10/21/2020 | dead-fresh | 0.33-1 days | all flight feathers curled or singed off. head, throat, and breast singed. | scorched or singed | 2;3 | 2 | Powerblock | 638647, 3935837 | NA |
| 2020_613_ISEGS | common raven | CORA | Incidental | 10/22/2020 | 10/22/2020 | alive-injured | unknown-unknown days | NA | scorched or singed | Unknown | 3 | Powerblock | 637487, 3937914 | NA |
| 2020_614_ISEGS | house finch | HOFI | Incidental | 10/23/2020 | 10/26/2020 | dead-fresh | 0-0.33 days | all flight feathers curled or singed. head singed. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_615_ISEGS | black-throated gray warbler | BTYW | Incidental | 10/26/2020 | 10/26/2020 | dead-semi-fresh | 0-0.33 days | all flight feathers curled or singed. head, nape, and back singed. | scorched or singed | 2;3 | 2 | Powerblock | 638639, 3935835 | NA |
| 2020_616_ISEGS | unidentified sparrow | UNSP | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638726, 3936031 | NA |
| 2020_617_ISEGS | unidentified small bird | UNID | Fatality Search | 10/20/2020 | 10/20/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638726, 3936031 | NA |
| 2020_618_ISEGS | ruby-crowned kinglet | RCKI | Incidental | 10/26/2020 | 10/26/2020 | dead-semi-fresh | 1-3 days | all flight feathers singed off. all upperparts singed. | scorched or singed | 2;3 | 3 | Powerblock | 637441, 3937944 | NA |
| 2020_619_ISEGS | unidentified small bird | UNID | Incidental | 10/30/2020 | 10/30/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | ACC | 637457, 3937981 | NA |

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|----------------|-------------------------------|------|-----------------|------------|------------|-----------------|-------------|---|--------------------|---------|---|------------|-----------------|----|
| 2020_620_ISEGS | yellow-rumped warbler | YRWA | Incidental | 10/30/2020 | 10/30/2020 | dead-semi-fresh | 3-7 days | curling to rectrices and outer primaries, singe to left side of face. | scorched or singed | 1;3 | 1 | Powerblock | 640364, 3933495 | NA |
| 2020_621_ISEGS | unidentified small bird | UNID | Incidental | 10/30/2020 | 11/2/2020 | dead-semi-fresh | 3-7 days | singe to whole carcass. | scorched or singed | 2;3 | 2 | Powerblock | 638672, 3935878 | NA |
| 2020_622_ISEGS | orange-crowned warbler | OCWA | Fatality Search | 11/2/2020 | 11/2/2020 | dead-semi-fresh | 3-7 days | singe to wings, head, chest, contour feathers, and tail. | scorched or singed | 2;3 | 3 | ACC | 637471, 3937945 | NA |
| 2020_623_ISEGS | unidentified swallow | UNSW | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | singe to primaries. | scorched or singed | 1 | 3 | Heliostat | 637294, 3937748 | NA |
| 2020_624_ISEGS | barn swallow | BARS | Fatality Search | 11/2/2020 | 11/2/2020 | broken up | 3-7 days | singe to primaries. | scorched or singed | 1 | 3 | Heliostat | 637349, 3937773 | NA |
| 2020_625_ISEGS | white-crowned sparrow | WCSP | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637272, 3937787 | NA |
| 2020_626_ISEGS | unidentified warbler | UNWA | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | curling to flight feathers. | scorched or singed | Unknown | 3 | Powerblock | 637412, 3937941 | NA |
| 2020_627_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637272, 3937787 | NA |
| 2020_628_ISEGS | unidentified warbler | UNWA | Fatality Search | 11/2/2020 | 11/2/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Powerblock | 637464, 3937949 | NA |
| 2020_629_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637439, 3937807 | NA |
| 2020_630_ISEGS | unidentified warbler | UNWA | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | curling to rectrices and secondaries. | scorched or singed | 1 | 3 | Heliostat | 637245, 3937803 | NA |
| 2020_631_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 11/2/2020 | 11/2/2020 | broken up | 3-7 days | singe to primaries and secondaries. | scorched or singed | 1 | 3 | Powerblock | 637459, 3937905 | NA |
| 2020_632_ISEGS | yellow-rumped warbler | YRWA | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | curling to rectrices, singe to primaries and secondaries. | scorched or singed | 1 | 3 | Heliostat | 637251, 3937838 | NA |
| 2020_633_ISEGS | western meadowlark | WEME | Fatality Search | 11/2/2020 | 11/2/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637264, 3937865 | NA |
| 2020_634_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637237, 3937944 | NA |
| 2020_635_ISEGS | unidentified small bird | UNID | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637439, 3937807 | NA |
| 2020_636_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637241, 3938018 | NA |
| 2020_637_ISEGS | lesser goldfinch | LEGO | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637294, 3938043 | NA |
| 2020_638_ISEGS | unidentified swallow | UNSW | Fatality Search | 11/2/2020 | 11/2/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637638, 3938056 | NA |
| 2020_639_ISEGS | black-throated gray warbler | BTYW | Fatality Search | 11/3/2020 | 11/3/2020 | dead-semi-fresh | 1-3 days | singe to chest, loft side of face, nape, and wing coverts. | scorched or singed | 3 | 2 | ACC | 638629, 3935909 | NA |
| 2020_640_ISEGS | chipping sparrow | CHSP | Fatality Search | 11/3/2020 | 11/3/2020 | dead-semi-fresh | 1-3 days | singe to wings, tail, head, and contour feathers. | scorched or singed | 2;3 | 2 | ACC | 638623, 3935909 | NA |
| 2020_641_ISEGS | northern rough-winged swallow | NRWS | Fatality Search | 11/3/2020 | 11/3/2020 | dead-fresh | 0.33-1 days | singed head | scorched or singed | 3 | 2 | ACC | 638688, 3935901 | NA |
| 2020_642_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637590, 3937777 | NA |

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|----------------|-------------------------|------|-----------------|-----------|-----------|--------------|-------------|---|--------------------|-----|---|------------|-----------------|----|
| 2020_643_ISEGS | dark-eyed junco | DEJU | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637519, 3937822 | NA |
| 2020_644_ISEGS | unidentified warbler | UNWA | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 3-7 days | singe to flight feathers. | scorched or singed | 1 | 2 | Powerblock | 638555, 3935903 | NA |
| 2020_645_ISEGS | western meadowlark | WEME | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637650, 3937933 | NA |
| 2020_646_ISEGS | unidentified warbler | UNWA | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Powerblock | 638583, 3935887 | NA |
| 2020_647_ISEGS | unidentified small bird | UNID | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | singe to flight and contour feathers. | scorched or singed | 1;3 | 2 | Powerblock | 638632, 3935847 | NA |
| 2020_648_ISEGS | American pipit | AMPI | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637650, 3937982 | NA |
| 2020_649_ISEGS | unidentified small bird | UNID | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | curling to secondary, singe to two contour feathers. | scorched or singed | 1;3 | 2 | Powerblock | 638630, 3935851 | NA |
| 2020_650_ISEGS | unidentified small bird | UNID | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | curling to 1 primary, singe to 1 contour feather. | scorched or singed | 1;3 | 2 | Powerblock | 638631, 3935855 | NA |
| 2020_651_ISEGS | unidentified swallow | UNSW | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | curling to all flight feathers and singe to several contour feathers. | scorched or singed | 1;3 | 2 | Powerblock | 638635, 3935863 | NA |
| 2020_652_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637637, 3937995 | NA |
| 2020_653_ISEGS | unidentified small bird | UNID | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Powerblock | 638622, 3935850 | NA |
| 2020_654_ISEGS | barn swallow | BARS | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | curling to 1 primary. | scorched or singed | 1 | 3 | Heliostat | 637440, 3938056 | NA |
| 2020_655_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638469, 3935702 | NA |
| 2020_656_ISEGS | unidentified small bird | UNID | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637597, 3938073 | NA |
| 2020_657_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638552, 3935710 | NA |
| 2020_658_ISEGS | western meadowlark | WEME | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 8-14 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638428, 3935777 | NA |
| 2020_659_ISEGS | western meadowlark | WEME | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 8-14 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638738, 3935621 | NA |
| 2020_660_ISEGS | western meadowlark | WEME | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638400, 3935817 | NA |
| 2020_661_ISEGS | unidentified warbler | UNWA | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 1-3 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638823, 3935723 | NA |
| 2020_662_ISEGS | unidentified warbler | UNWA | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | singe to several contour feathers. | scorched or singed | 3 | 2 | Heliostat | 638475, 3935968 | NA |
| 2020_663_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638772, 3935669 | NA |
| 2020_664_ISEGS | unidentified small bird | UNID | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638608, 3936081 | NA |
| 2020_665_ISEGS | loggerhead shrike | LOSH | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 8-14 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638771, 3935687 | NA |

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|----------------|-------------------------|------|-----------------|-----------|-----------|-----------------|-------------|--|--------------------|-----|---|------------|-----------------|----|
| 2020_666_ISEGS | unidentified small bird | UNID | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 0.33-1 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638665, 3935721 | NA |
| 2020_667_ISEGS | western bluebird | WEBL | Fatality Search | 11/3/2020 | 11/3/2020 | broken up | 0.33-1 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638648, 3936041 | NA |
| 2020_668_ISEGS | dark-eyed junco | DEJU | Fatality Search | 11/3/2020 | 11/3/2020 | alive-injured | 0-0.33 days | evidence of imprint on mirror. | collision-panel | NA | 2 | Heliostat | 638662, 3936028 | NA |
| 2020_669_ISEGS | tree swallow | TRES | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | curling to 2 secondaries, several contour feathers. | scorched or singed | 1 | 2 | Heliostat | 638758, 3935893 | NA |
| 2020_670_ISEGS | unidentified swallow | UNSW | Fatality Search | 11/3/2020 | 11/3/2020 | feather spot | 3-7 days | singe to primary. | scorched or singed | 1 | 1 | Powerblock | 640407, 3933472 | NA |
| 2020_671_ISEGS | unidentified grebe | UNGR | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640328, 3933726 | NA |
| 2020_672_ISEGS | unidentified small bird | UNID | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Powerblock | 640402, 3933486 | NA |
| 2020_673_ISEGS | unidentified small bird | UNID | Fatality Search | 11/5/2020 | 11/5/2020 | broken up | 3-7 days | singe to flight feathers. | scorched or singed | 1 | 1 | Powerblock | 640366, 3933492 | NA |
| 2020_674_ISEGS | unidentified thrush | UNTH | Fatality Search | 11/5/2020 | 11/5/2020 | broken up | 3-7 days | singe to flight feathers. | scorched or singed | 1;3 | 1 | Powerblock | 640359, 3933499 | NA |
| 2020_675_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640501, 3933647 | NA |
| 2020_676_ISEGS | unidentified swallow | UNSW | Fatality Search | 11/5/2020 | 11/5/2020 | broken up | 3-7 days | curling and singing to primaries and secondaries. | scorched or singed | 1 | 1 | Powerblock | 640356, 3933481 | NA |
| 2020_677_ISEGS | dark-eyed junco | DEJU | Fatality Search | 11/5/2020 | 11/5/2020 | dead-fresh | 0-0.33 days | evidence of collision with feathers on mirror matching size and shape and carcass just below mirror. | collision-panel | NA | 1 | Heliostat | 640471, 3933577 | NA |
| 2020_678_ISEGS | semipalmated sandpiper | SESA | Fatality Search | 11/5/2020 | 11/5/2020 | broken up | 3-7 days | curling to flight feather. | scorched or singed | 1 | 1 | ACC | 640378, 3933558 | NA |
| 2020_679_ISEGS | unidentified grebe | UNGR | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640592, 3933537 | NA |
| 2020_680_ISEGS | blue-gray gnatcatcher | BGGN | Fatality Search | 11/5/2020 | 11/5/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | ACC | 640368, 3933543 | NA |
| 2020_681_ISEGS | violet-green swallow | VGSW | Fatality Search | 11/5/2020 | 11/5/2020 | dead-semi-fresh | 3-7 days | curling or singe all flight feathers. | scorched or singed | 2;3 | 1 | ACC | 640360, 3933526 | NA |
| 2020_682_ISEGS | western grebe | WEGR | Fatality Search | 11/5/2020 | 11/5/2020 | broken up | 0.33-1 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640576, 3933448 | NA |
| 2020_683_ISEGS | unidentified swallow | UNSW | Fatality Search | 11/5/2020 | 11/5/2020 | broken up | 31-60 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640228, 3933635 | NA |
| 2020_684_ISEGS | unidentified small bird | UNID | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | evidence of collision of imprint on nearest heliostat. | collision-panel | NA | 1 | Heliostat | 640187, 3933652 | NA |
| 2020_685_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640235, 3933312 | NA |
| 2020_686_ISEGS | western meadowlark | WEME | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640164, 3933501 | NA |
| 2020_687_ISEGS | unidentified small bird | UNID | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640164, 3933437 | NA |
| 2020_688_ISEGS | unidentified small bird | UNID | Fatality Search | 11/5/2020 | 11/5/2020 | feather spot | 3-7 days | evidence of collision of imprint on nearest heliostat. | unknown | NA | 1 | Heliostat | 640150, 3933435 | NA |

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|----------------|-------------------------------|------|-----------------|------------|------------|-----------------|-----------|--|--------------------|-----|---|------------|-----------------|----|
| 2020_689_ISEGS | house sparrow | HOSP | Incidental | 11/5/2020 | 11/5/2020 | dead-semi-fresh | 3-7 days | curling to flight feathers with many singed off, singe to head, nape, back, rump, and chest. | scorched or singed | 2;3 | 1 | Powerblock | 640365, 3933475 | NA |
| 2020_690_ISEGS | unidentified sparrow | UNSP | Incidental | 11/11/2020 | 11/11/2020 | dead-semi-fresh | 3-7 days | no evidence of collision or singe | unknown | NA | 2 | ACC | 638617, 3935919 | NA |
| 2020_691_ISEGS | northern rough-winged swallow | NRWS | Incidental | 11/11/2020 | 11/11/2020 | broken up | 3-7 days | singed wing covert | scorched or singed | 3 | 2 | Powerblock | 638616, 3935822 | NA |
| 2020_692_ISEGS | northern flicker | NOFL | Incidental | 11/12/2020 | 11/12/2020 | dead-semi-fresh | 1-3 days | unknown due to no availability for collection. | unknown | NA | 2 | Powerblock | 638657, 3935819 | NA |
| 2020_694_ISEGS | unidentified gnatcatcher | UNGN | Fatality Search | 11/16/2020 | 11/16/2020 | dead-semi-fresh | 3-7 days | singe to nape, coverts, rump with tail singed off. | scorched or singed | 1;3 | 3 | ACC | 637507, 3937946 | NA |
| 2020_695_ISEGS | unidentified thrush | UNTH | Fatality Search | 11/16/2020 | 11/16/2020 | feather spot | 3-7 days | no evidence of collision or singe | unknown | NA | 3 | Powerblock | 637409, 3937910 | NA |
| 2020_696_ISEGS | unidentified small bird | UNID | Fatality Search | 11/16/2020 | 11/16/2020 | broken up | 3-7 days | no evidence of collision or singe | unknown | NA | 3 | Heliostat | 637388, 3937699 | NA |
| 2020_697_ISEGS | unidentified waterbird | UNWB | Fatality Search | 11/16/2020 | 11/16/2020 | broken up | 1-3 days | no evidence of collision or singe | unknown | NA | 3 | Heliostat | 637472, 3937716 | NA |
| 2020_698_ISEGS | unidentified small bird | UNID | Fatality Search | 11/16/2020 | 11/16/2020 | broken up | 3-7 days | singe to 1 primary. | scorched or singed | 1 | 3 | Heliostat | 637258, 3937840 | NA |
| 2020_699_ISEGS | unidentified waterbird | UNWB | Fatality Search | 11/16/2020 | 11/16/2020 | feather spot | 1-3 days | no evidence of collision or singe | unknown | NA | 3 | Heliostat | 637481, 3938078 | NA |
| 2020_700_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/16/2020 | 11/16/2020 | feather spot | 3-7 days | no evidence of collision or singe | unknown | NA | 3 | Heliostat | 637696, 3937867 | NA |
| 2020_701_ISEGS | northern rough-winged swallow | NRWS | Incidental | 11/14/2020 | 11/16/2020 | dead-semi-fresh | 3-7 days | singe to primary coverts, tertials, and neck. | scorched or singed | 1 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_702_ISEGS | northern rough-winged swallow | NRWS | Incidental | 11/16/2020 | 11/16/2020 | dead-semi-fresh | 3-7 days | no evidence of collision or singe | unknown | NA | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_703_ISEGS | northern rough-winged swallow | NRWS | Incidental | 11/16/2020 | 11/16/2020 | dead-semi-fresh | 3-7 days | singe to wings, tail, head, and back. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_704_ISEGS | house sparrow | HOSP | Incidental | 11/16/2020 | 11/16/2020 | dead-semi-fresh | 3-7 days | singe to tail, neck, wings, and contour feathers. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_705_ISEGS | northern rough-winged swallow | NRWS | Incidental | 11/16/2020 | 11/16/2020 | dead-semi-fresh | 3-7 days | singe to tail. | scorched or singed | 1 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_706_ISEGS | unidentified small bird | UNID | Incidental | 11/16/2020 | 11/16/2020 | mummified | 8-14 days | singe to whole carcass. | scorched or singed | 2;3 | 1 | Powerblock | 640373, 3933487 | NA |
| 2020_707_ISEGS | western meadowlark | WEME | Incidental | 11/17/2020 | 11/17/2020 | broken up | 3-7 days | no evidence of collision or singe | unknown | NA | 1 | Heliostat | 640255, 3933704 | NA |
| 2020_708_ISEGS | unidentified hummingbird | UNHU | Fatality Search | 11/17/2020 | 11/17/2020 | dead-semi-fresh | 3-7 days | singe to contour feathers, wings, tail, and head. | scorched or singed | 2;3 | 2 | ACC | 638631, 3935909 | NA |
| 2020_709_ISEGS | unidentified small bird | UNID | Fatality Search | 11/17/2020 | 11/17/2020 | feather spot | 3-7 days | no evidence of collision or singe | unknown | NA | 2 | Powerblock | 638629, 3935870 | NA |
| 2020_710_ISEGS | unidentified small bird | UNID | Fatality Search | 11/17/2020 | 11/17/2020 | broken up | 3-7 days | no evidence of collision or singe | unknown | NA | 2 | Powerblock | 638624, 3935873 | NA |
| 2020_711_ISEGS | unidentified warbler | UNWA | Fatality Search | 11/17/2020 | 11/17/2020 | feather spot | 3-7 days | singe to a flight feathers and a contour feather. | scorched or singed | 1;3 | 2 | Powerblock | 638623, 3935875 | NA |
| 2020_712_ISEGS | unidentified small bird | UNID | Fatality Search | 11/17/2020 | 11/17/2020 | broken up | 3-6 days | singe to the chest area. | scorched or singed | 3 | 2 | Heliostat | 638571, 3935727 | NA |

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|----------------|-------------------------|------|-----------------|------------|------------|-----------------|-------------|--|--------------------|---------|---|------------|-----------------|----|
| 2020_713_ISEGS | unidentified grebe | UNGR | Fatality Search | 11/17/2020 | 11/17/2020 | broken up | 3-7 days | no evidence of collision or singe | unknown | NA | 2 | Heliostat | 638471, 3935742 | NA |
| 2020_714_ISEGS | northern flicker | NOFL | Fatality Search | 11/17/2020 | 11/17/2020 | broken up | 0-0.33 days | no evidence of collision or singe | unknown | NA | 2 | Heliostat | 638809, 3935889 | NA |
| 2020_715_ISEGS | western meadowlark | WEME | Fatality Search | 11/17/2020 | 11/17/2020 | feather spot | 3-7 days | no evidence of collision or singe | unknown | NA | 2 | Heliostat | 638673, 3936042 | NA |
| 2020_716_ISEGS | unidentified swallow | UNSW | Fatality Search | 11/17/2020 | 11/17/2020 | broken up | 31-60 days | curling to most of flight feathers. | scorched or singed | Unknown | 2 | Heliostat | 638667, 3936068 | NA |
| 2020_717_ISEGS | mountain bluebird | MOBL | Fatality Search | 11/17/2020 | 11/17/2020 | feather spot | 3-7 days | no evidence of collision or singe | unknown | NA | 2 | Heliostat | 638488, 3936004 | NA |
| 2020_718_ISEGS | northern mockingbird | NOMO | Fatality Search | 11/18/2020 | 11/18/2020 | broken up | 3-7 days | no evidence of collision or singe | unknown | NA | 1 | Heliostat | 640174, 3933537 | NA |
| 2020_719_ISEGS | ruby-crowned kinglet | RCKI | Fatality Search | 11/18/2020 | 11/18/2020 | dead-semi-fresh | 3-7 days | singe to head, wings, tail, and back. | scorched or singed | 2;3 | 1 | ACC | 640345, 3933522 | NA |
| 2020_720_ISEGS | horned lark | HOLA | Fatality Search | 11/18/2020 | 11/18/2020 | broken up | 1-3 days | no evidence of collision or singe | unknown | NA | 1 | Heliostat | 640150, 3933414 | NA |
| 2020_721_ISEGS | unidentified sparrow | UNSP | Fatality Search | 11/18/2020 | 11/18/2020 | feather spot | 3-7 days | singe to contour feathers. | scorched or singed | 3 | 1 | Powerblock | 640304, 3933524 | NA |
| 2020_722_ISEGS | unidentified small bird | UNID | Fatality Search | 11/18/2020 | 11/18/2020 | feather spot | 3-7 days | singed flight feathers. | scorched or singed | 1 | 1 | Powerblock | 640341, 3933517 | NA |
| 2020_723_ISEGS | common raven | CORA | Incidental | 11/30/2020 | 12/1/2020 | dead-semi-fresh | 1-3 days | singed flight feathers and upperparts | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_724_ISEGS | unidentified sparrow | UNSP | Fatality Search | 12/2/2020 | 12/2/2020 | broken up | 1-3 days | no evidence of singe or collision | unknown | NA | 1 | Heliostat | 640192, 3933639 | NA |
| 2020_725_ISEGS | house finch | HOFI | Incidental | 12/14/2020 | 12/14/2020 | dead-semi-fresh | 3-7 days | singed nape and back, slight singeing to tail. | scorched or singed | 1;3 | 3 | Powerblock | 637506, 3937870 | NA |
| 2020_726_ISEGS | American robin | AMRO | Fatality Search | 12/14/2020 | 12/14/2020 | broken up | 1-3 days | no evidence of singe or collisoin | unknown | NA | 3 | Powerblock | 637501, 3937941 | NA |
| 2020_727_ISEGS | house sparrow | HOSP | Incidental | 12/15/2020 | 12/15/2020 | dead-semi-fresh | 3-7 days | singed head, wings, tail, chest, and back. | scorched or singed | 2;3 | 2 | Powerblock | 638660, 3935845 | NA |
| 2020_728_ISEGS | Le Conte's thrasher | LCTH | Fatality Search | 12/15/2020 | 12/15/2020 | dead-fresh | 0.33-1 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637284, 3938071 | NA |
| 2020_729_ISEGS | unidentified small bird | UNID | Fatality Search | 12/15/2020 | 12/15/2020 | dead-semi-fresh | 3-7 days | no evidence of singe or collision | unknown | NA | 3 | Heliostat | 637677, 3937958 | NA |
| 2020_730_ISEGS | unidentified wren | UNWR | Fatality Search | 12/15/2020 | 12/15/2020 | feather spot | 8-14 days | curling of 2 primary flight feathers | unknown | NA | 2 | Powerblock | 638621, 3935878 | NA |
| 2020_731_ISEGS | unidentified small bird | UNID | Fatality Search | 12/15/2020 | 12/15/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Powerblock | 638649, 3935858 | NA |
| 2020_732_ISEGS | unidentified small bird | UNID | Fatality Search | 12/15/2020 | 12/15/2020 | broken up | 3-7 days | curling of tail feathers | scorched or singed | 1 | 2 | ACC | 638618, 3935922 | NA |
| 2020_733_ISEGS | house finch | HOFI | Fatality Search | 12/15/2020 | 12/15/2020 | broken up | 3-7 days | primary flight feathers singed | scorched or singed | 1 | 2 | Powerblock | 638644, 3935885 | NA |
| 2020_735_ISEGS | unidentified small bird | UNID | Fatality Search | 12/15/2020 | 12/15/2020 | feather spot | 3-7 days | singed primaries | scorched or singed | 1 | 2 | Powerblock | 638649, 3935858 | NA |
| 2020_736_ISEGS | unidentified sparrow | UNSP | Fatality Search | 12/15/2020 | 12/15/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638505, 3935710 | NA |
| 2020_737_ISEGS | unidentified small bird | UNID | Fatality Search | 12/15/2020 | 12/15/2020 | feather spot | 3-7 days | no evidence of singe or collision | unknown | NA | 2 | Heliostat | 638671, 3936077 | NA |

