Phenology is the timing of events in the life of a species. Breeding is a major event for all species and the timing of when it occurs varies with climate, resource availability, and many other factors. The breeding phenology of a species can be broken down into three discrete stages: nest building, nesting, and fledging. Nest building for most species occurs before eggs are laid; nesting is when the nest contains eggs or nestlings; and fledging is when the young have left the nest but are still dependent on adults for food or protection.

The breeding season is often defined as “spring and summer” in this region, however many species begin nesting in December while others wait to begin in early summer and continue into fall. For some species, breeding occurs year-round. Atlas data can shed light on the breeding phenology of each species in Santa Cruz County.

Atlas data from 1987-1993 (contributed by David Suddjian) and 2017-2019 were used to compile the earliest and latest date for each stage of breeding that has been found in Santa Cruz County. These dates represent the minimum date range of when each species is breeding. The usefulness of the date ranges is to a great extent dependent on the number of records a species has, which is reflective of the detectability and rarity of the species. Rare species and others that are difficult to confirm breeding usually have fewer records to define their breeding phenology. The following guidelines for interpreting the number of records a species has will help determine the usefulness of the date ranges for the species.

- **>200 records**—adequately represents the full date range of when a species is breeding and all three breeding stages, as appropriate for the species.

- **101-200 records**—adequately represents the full date range of when a species is breeding and at least one of the three breeding stages.

- **50-100 records**—adequately represents the full date range of when a species is breeding, but breeding stages are usually poorly defined.

- **<50 records**—data deficient

Other published and unpublished sources have additional phenology records in Santa Cruz County, and these sources will be integrated with atlas data in due time. For now, this preliminary compilation can be used to plan when to look for certain behaviors which confirm breeding. For example, Western Wood-Pewees are known to build their nest in Santa Cruz County between May 3 and June 30, which is a good time to watch for adults carrying nest material.
The phenology dates can also be used to evaluate the significance of specific observation. A Warbling Vireo incubating an active nest on April 10 would be the earliest nesting record in the atlas database, while a Wrentit feeding young on August 15 would be the latest.

The atlas publication will have a similar table as is in this compilation, but will be more robust with the addition of two more years of atlas data and records from other sources. This compilation will provide the first comprehensive look at when species are breeding in Santa Cruz County. The table will also be supplemented by detailed visual representations of when species are breeding, such as the figure below.

### Phenology of Oak Titmouse

![Phenology of Oak Titmouse](image)
### Santa Cruz County Breeding Bird Atlas II

#### Phenology Dates

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### Santa Cruz County Breeding Bird Atlas II

*Phenology Dates*

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## Santa Cruz County Breeding Bird Atlas II

### Phenology Dates

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<td>Western Wood-Pewee</td>
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<td>May 3–Aug 21</td>
<td>May 3–Jun 30</td>
<td>May 16–Jul 15</td>
<td>Jun 5–Aug 21</td>
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<td>White-crowned Sparrow</td>
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<td>Mar 30–Aug 13</td>
<td>May 6</td>
<td>Jun 17</td>
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<td>White-tailed Kite</td>
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<td>Feb 16–Sep 9</td>
<td>Feb 16–Jun 1</td>
<td>Mar 22–Sep 3</td>
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<td>White-throated Swift</td>
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<td>Wild Turkey</td>
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<td>Wilson's Warbler</td>
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<td>Apr 8–Jun 2</td>
<td>May 12–Jul 2</td>
<td>May 6–Aug 11</td>
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2020-01-07 Version 1.0