

## Title

**Stephens and Rockwell 2019. Density and reproductive success. The Condor: Ornithological Applications. aknw-2019-002-Nests.**

## Description

**Nest monitoring data of 3 riparian songbirds collected at 1 reference and 3 restoration sites along the Trinity River in northern California, by Klamath Bird Observatory in partnership with the Trinity River Restoration Program from 2012-2015.**

**This dataset was used in the analyses for the following publication: Stephens, J. L., and S. M. Rockwell. 2019. Short-term riparian restoration success measured by territory density and reproductive success of three songbirds along the Trinity River, CA. *The Condor: Ornithological Applications*.**

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## File list

aknw-2019-002-Nests

## Metadata

### Field Definitions:

**NEST\_ID:** Unique identifier for each nest. The first four digits are the year, then a four-letter code for bird species (SOSP = Song Sparrow, YBCH = Yellow-breasted Chat,

YEWA = Yellow Warbler), a four-letter code for site name (COCR = Connor Creek, HOFL = Hocker Flat, REF1 = Reference 1, VAGU = Valdor Gulch), and finally a two-digit nest number, followed by a letter indicating the nest attempt number (A = first attempt for a given territory, B = second attempt, etc.).

**YEAR:** The year in which the nest was found.

**SPECIES:** Four-letter code for bird species (SOSP = Song Sparrow, YBCH = Yellow-breasted Chat, YEWA = Yellow Warbler).

**SITE:** Four-letter code for site name (COCR = Connor Creek, HOFL = Hocker Flat, REF1 = Reference 1, VAGU = Valdor Gulch).

**NEST\_NO:** A two-digit nest number starting at 01 for each territory in which a nest was found for a given species-site-year, followed by a letter indicating the nest attempt number (A = first attempt for a given territory, B = second attempt, etc.).

**DayFound:** Ordinal date on which a nest was first found, starting at 1 = April 21 (the start of the nest-searching season each year). Required for analysis in Program MARK.

**LastPresent:** The last day that a nest was monitored and known to be active (i.e. the eggs or nestlings were confirmed to still be present and alive). For a successful nest, this is the same as the fledge date. Required for analysis in Program MARK.

**LastCheck:** The last day that a nest was monitored. For a successful nest, this is the same as the fledge date. For a failed nest, this is the day of the nest check in which the nest contents were recorded as depredated, or the nest was destroyed or abandoned. Required for analysis in Program MARK.

**Fate:** Binary variable for nest fate: 0 = at least one young successfully fledged, 1 = nest failed (these are somewhat counterintuitive, but this is how Program MARK requires you to code it).

**AgeDay1:** The age of the nest on the first day of the nest-searching season (April 21), measured in days from when the first egg was laid. For example, a nest initiated on April 20 will have an AgeDay1 of 1. For all nests initiated after the first day of the season (which is nearly all of them), this number will be negative (e.g. a nest initiated on April 22 will have an AgeDay1 of -1). Several nests for which we were unable to determine the nest initiation date have a mean value of AgeDay1 = -30.8. Required to incorporate nest age into daily nest survival models in Program MARK.

**Conceal:** Visual estimate of the proportion of the nest concealed from sight by vegetation (%), calculated by taking the mean of percent concealment from top, bottom, and four cardinal directions, measured from 1m away from nest.

**NestHt:** Height from ground to bottom of nest (meters).

**SiteType:** Binary variable for whether a nest was located on a mature riparian reference site or a recently restored and revegetating site (1 = reference, 0 = restored).

**Dens\_plot:** Territory density (number of territories per hectare) by year, species, and site.

**No\_Fledged:** Number of fledglings per nest, considered to be equal to the number of nestlings present at the final nest check before fledging (on day 6 or later of the nestling period). Value is 0 for a failed nest. For several nests for which we knew that the nest succeeded, but we were unable to determine the number of fledglings, we used a species-specific mean (of successful nests only).

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