

# Variation in male greater sage grouse abundance at lek sites in Grasslands National Park, Saskatchewan

true

2022-09-26

```
library(groundhog) groundhog.library(tidyverse, date = "2022-09-15") groundhog.library(ggplot2, date = "2022-09-15")
```

Format is for Ecology Letters

geometry: margin=1in

head-includes: -

```
\usepackage{setspace} \doublespacing \usepackage{lineno} \linenumbers
```

output: pdf\_document

csl: <https://raw.githubusercontent.com/citation-style-language/styles/6152ccea8b7d7a472910d36524d1bf3557a83bfc/ecology-letters.csl>

## **bibliography: references.bib**

**Title:** Variation in greater sage grouse abundance at lek sites in Grasslands National Park, Saskatchewan

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## **Abstract**

Grasslands National Park in southern Saskatchewan has a population of greater sage grouse. Each spring, the male greater sage grouse congregate in groups at known locations to lek. These lek sites were monitored from 2007-2020 and the abundance of male birds was counted at each site. I am graphically illustrating the abundance trends over the years for each lek site.

## **Introduction**

## **Methods**

Grasslands National Park staff observed lek sites during the breeding season from 2005-2020. The maximum number of male birds at a lek site at one time was termed peak male attendance and this was recorded for each lek site. Using the ggplot2 package in R, I am graphically representing the variation in abundance between lek sites over the 15 years of observations.

**Results**

**Discussion**

**References**

**Tables**

**Figure Captions**

**Figures**

**Appendices**