# Is it Better to be a Moose or a Black Bear?[*]

**An Analysis of Ontario Wildlife Harvest and Active Hunter Rates From 2012 to 2023**

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This paper analyzes Ontario wildlife harvest counts, specifically moose and black bears, and the number fo active hunters based on region. The analysis examines harvest counts from 2012 to 2023 across northern, southeastern, and southwestern Ontario. It was found that...

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[*]Code and data are available at: https://github.com/SamanthaBarfoot/wildlife_hunting.git

# 1 Introduction

The analysis, graphs, and tables were made with (R Core Team 2022).

# 2 Data

```
#### Read in data ####
north_bear <-
  read_csv(
    file = "../data/analysis_data/north_data_bear.csv",
    show_col_types = FALSE
  )
se_bear <-
  read_csv(
    file = "../data/analysis_data/southeast_data_bear.csv",
    show_col_types = FALSE
  )

sw_bear <-
  read_csv(
    file = "../data/analysis_data/southwest_data_bear.csv",
    show_col_types = FALSE
  )

north_moose <-
  read_csv(
    file = "../data/analysis_data/north_data_moose.csv",
    show_col_types = FALSE
  )

se_moose <-
  read_csv(
    file = "../data/analysis_data/southeast_data_moose.csv",
    show_col_types = FALSE
  )

sw_moose <-
  read_csv(
    file = "../data/analysis_data/southwest_data_moose.csv",
```

```
    show_col_types = FALSE
)
```
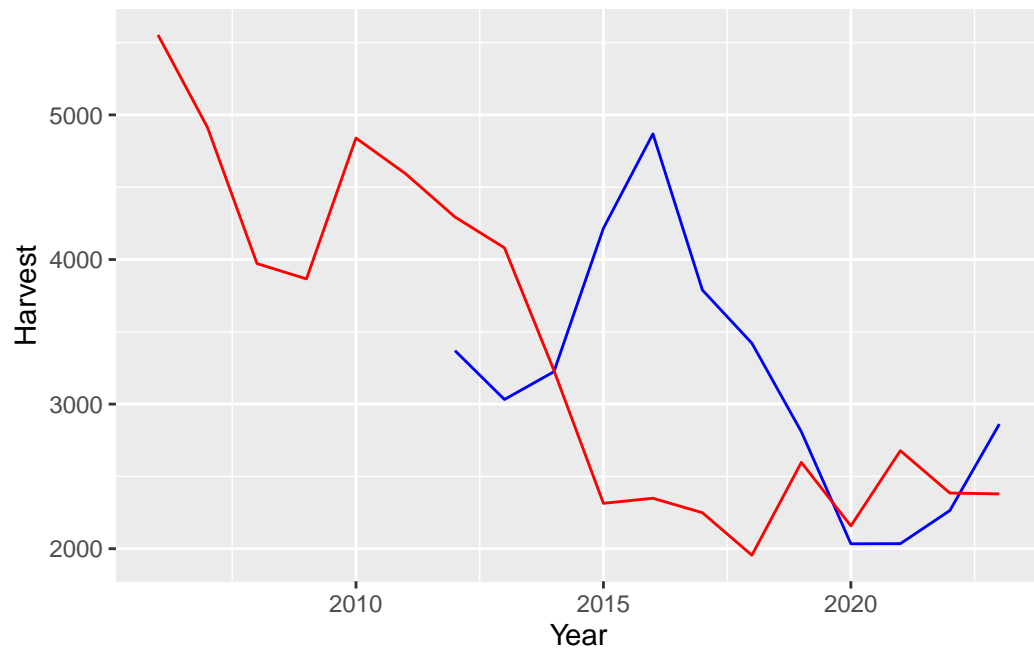


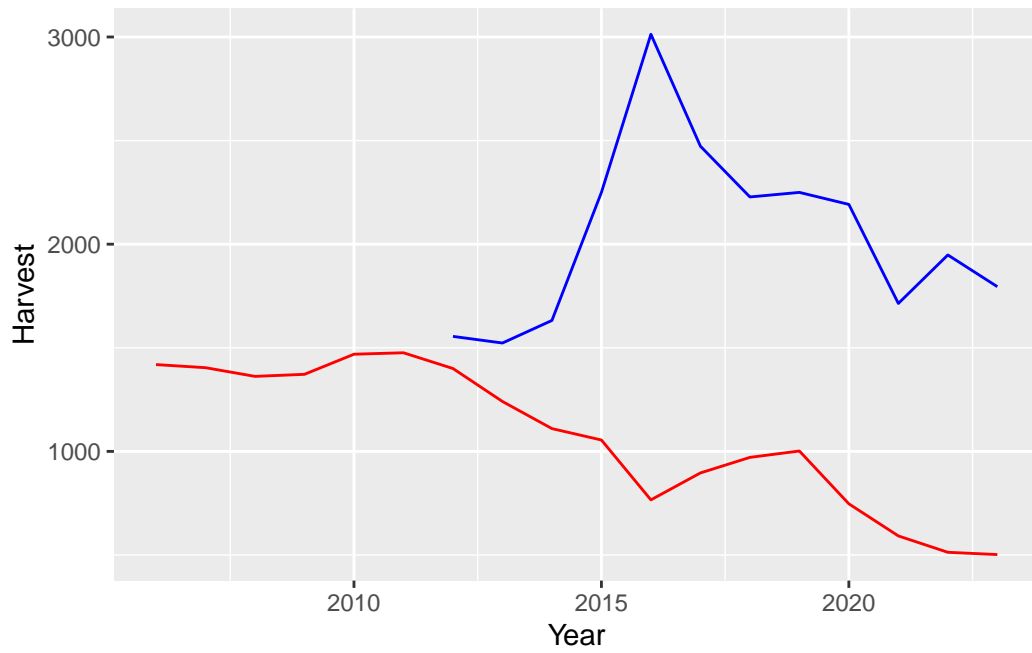Figure 1: Northern harvest numbers for moose and bears between 2009 and 2023

Figure 2: Southeastern harvest numbers for moose and bears between 2009 and 2023
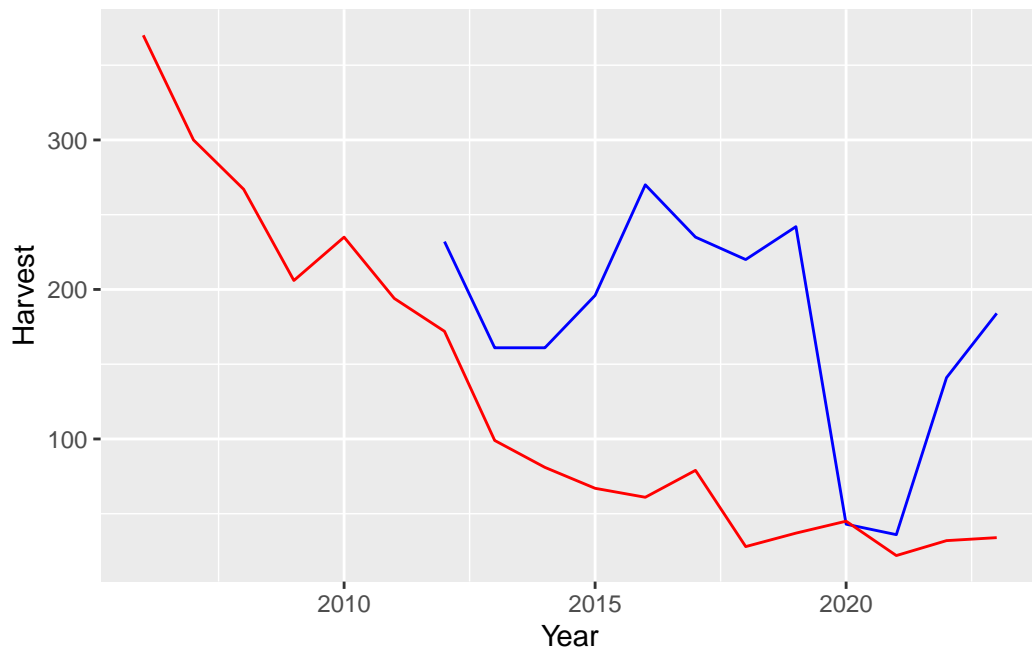


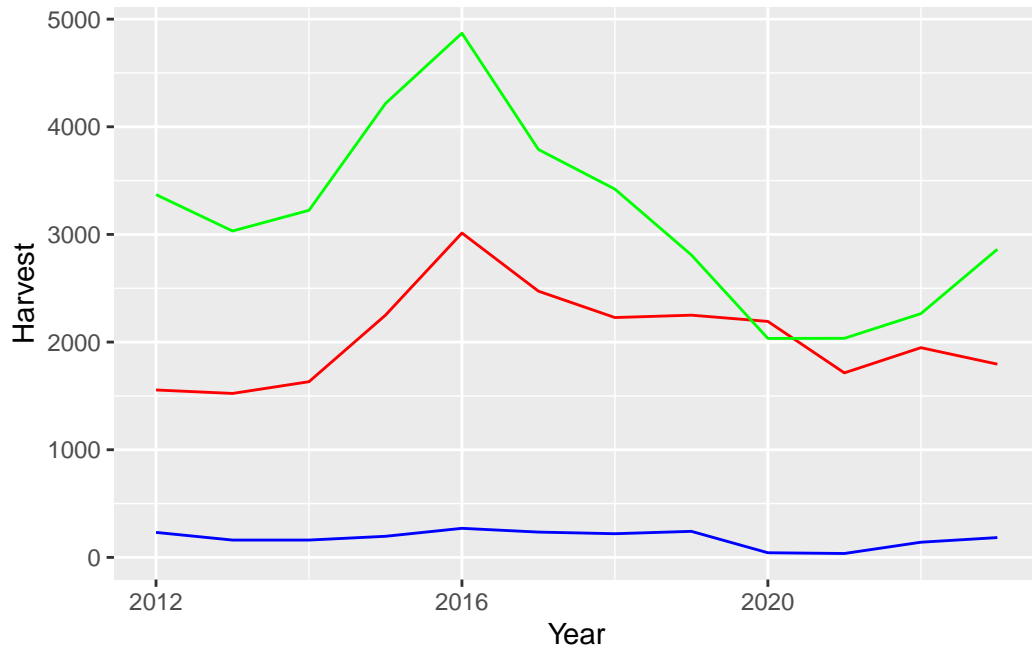Figure 3: Southwestern harvest numbers for moose and bears between 2009 and 2023

Figure 4: Bear harvest numbers for the northern, southeastern and southwestern regions from 2012-2023
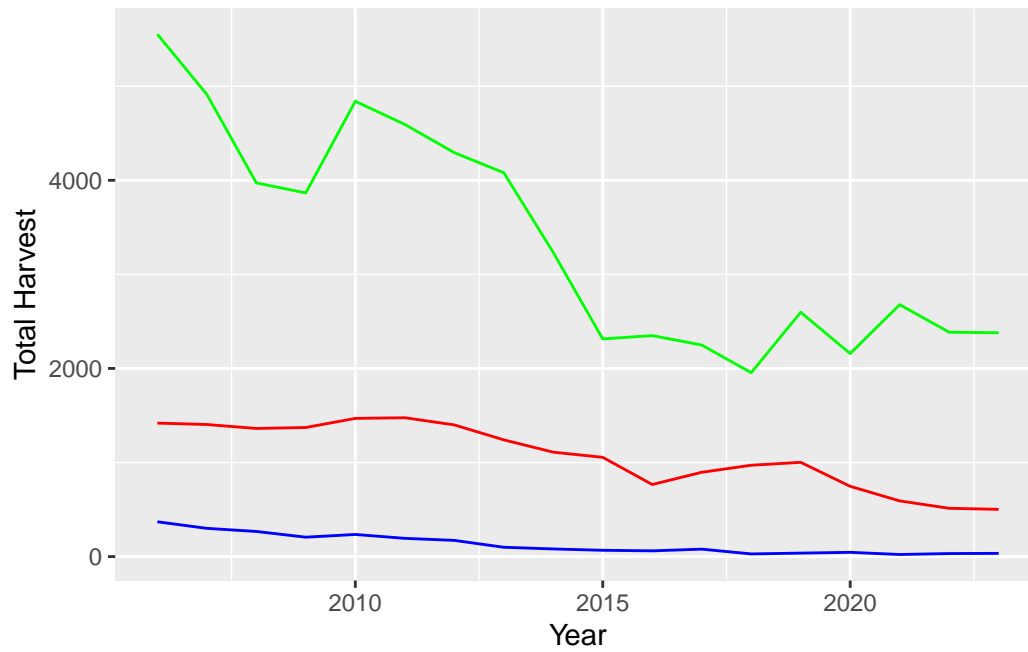


Figure 5: Moose harvest numbers for the northern, southeastern and southwestern regions from 2012-2023
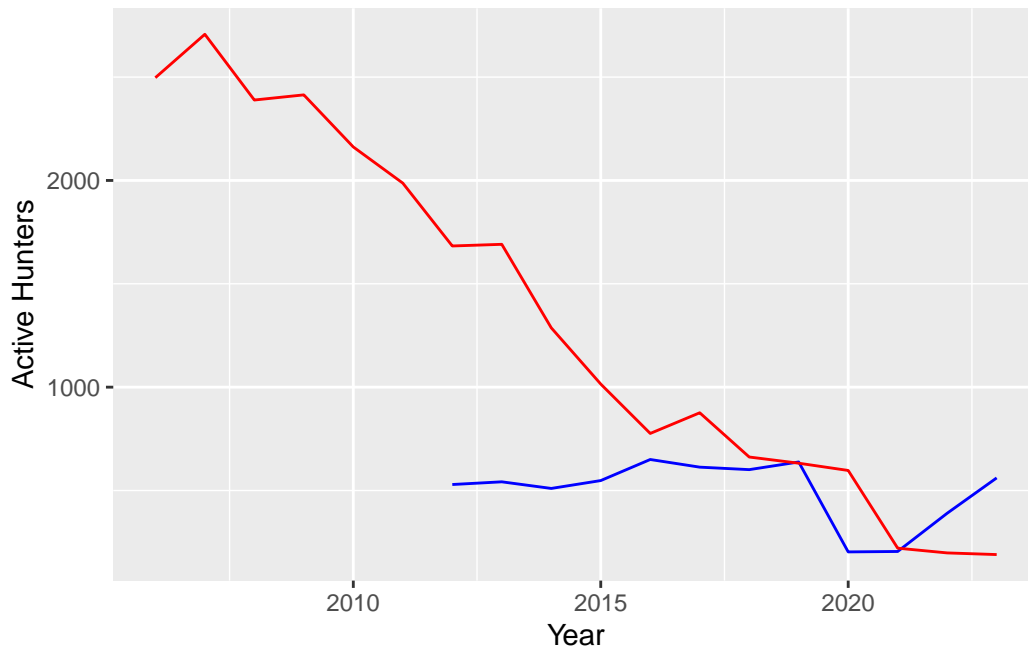
Figure 6: Number of active bear and moose hunters in the southwest region from 2009-2023
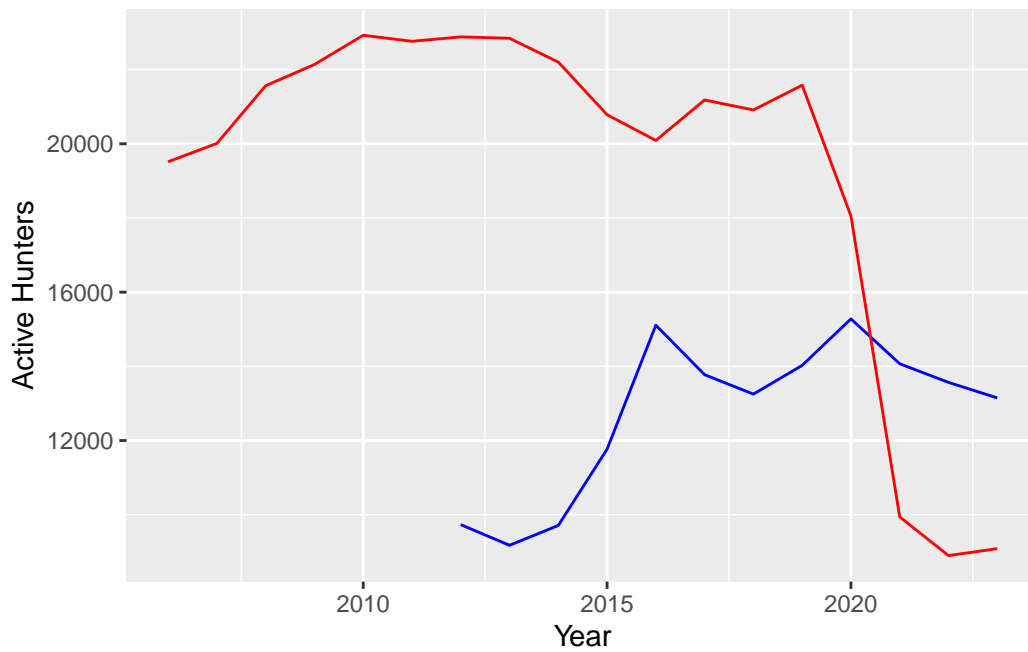


Figure 7: Number of active bear and moose hunters in the southeast region from 2009-2012
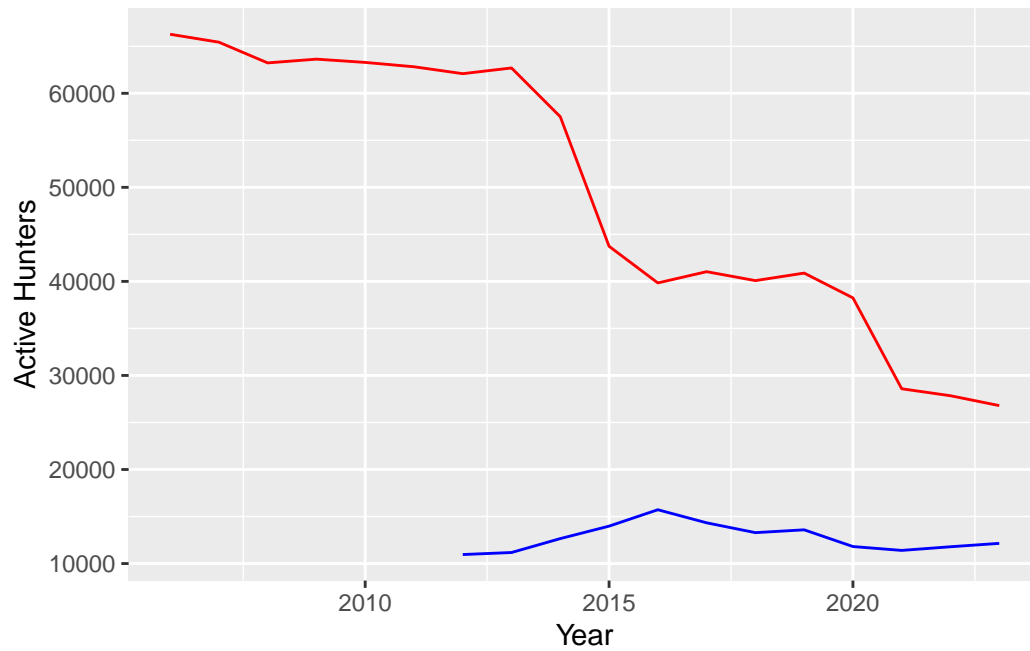
Figure 8: Number of active bear and moose hunters in the northern region from 2009-2023
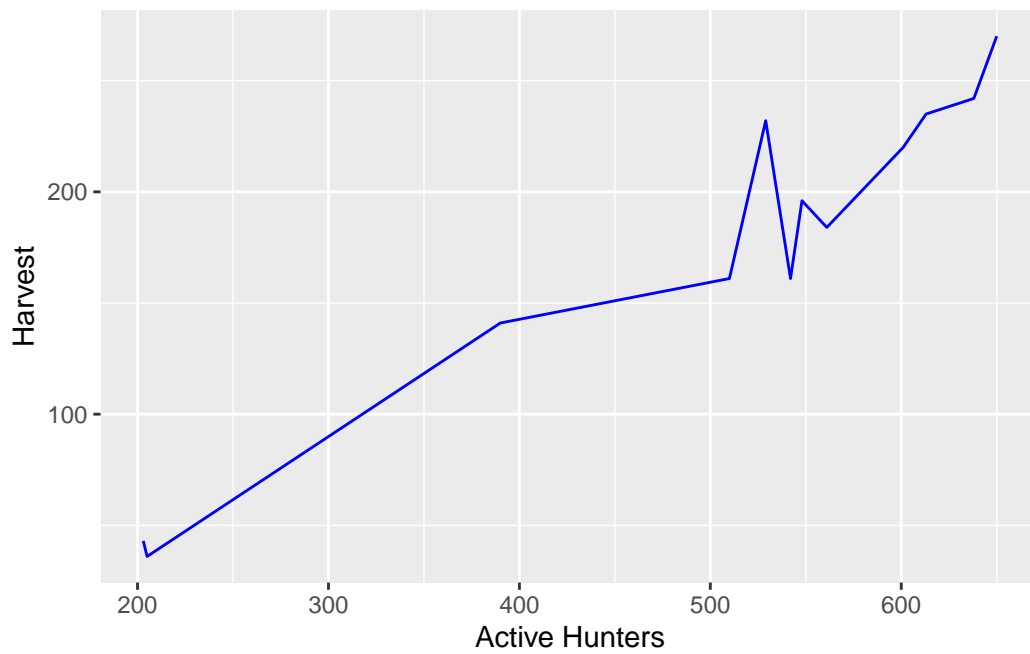


Figure 9: Number of active bear hunters plotted against total bear harvests from 2012-2023 in the southwest region

Figure 10: Number of active bear hunters plotted against total bear harvests from 2012-2023 in the southeast region



Figure 11: Number of active bear hunters plotted against total bear harvests from 2012-2023 in the northern region
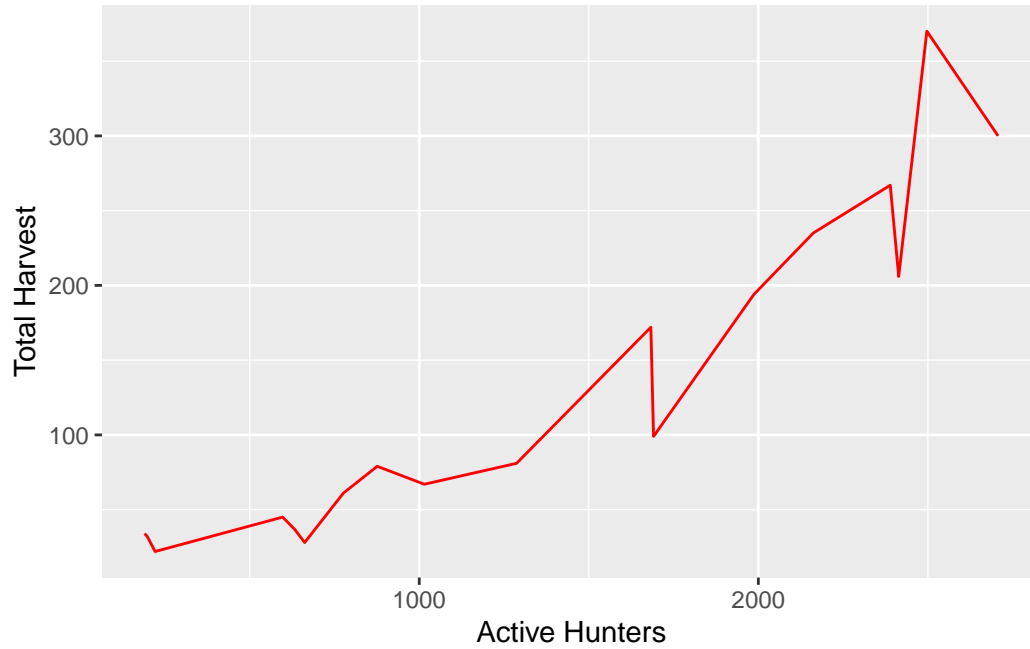
Figure 12: Number of active moose hunters plotted against total moose harvests from 2009-2023 in the southwest region
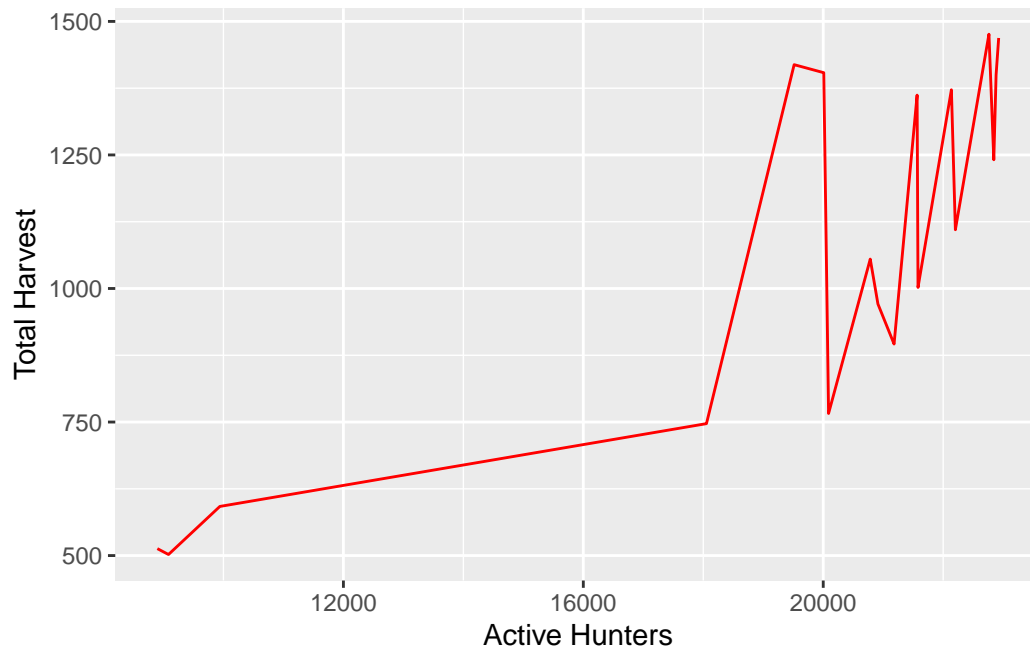


Figure 13: Number of active moose hunters plotted against total moose harvests from 2009-2023 in the southeast region
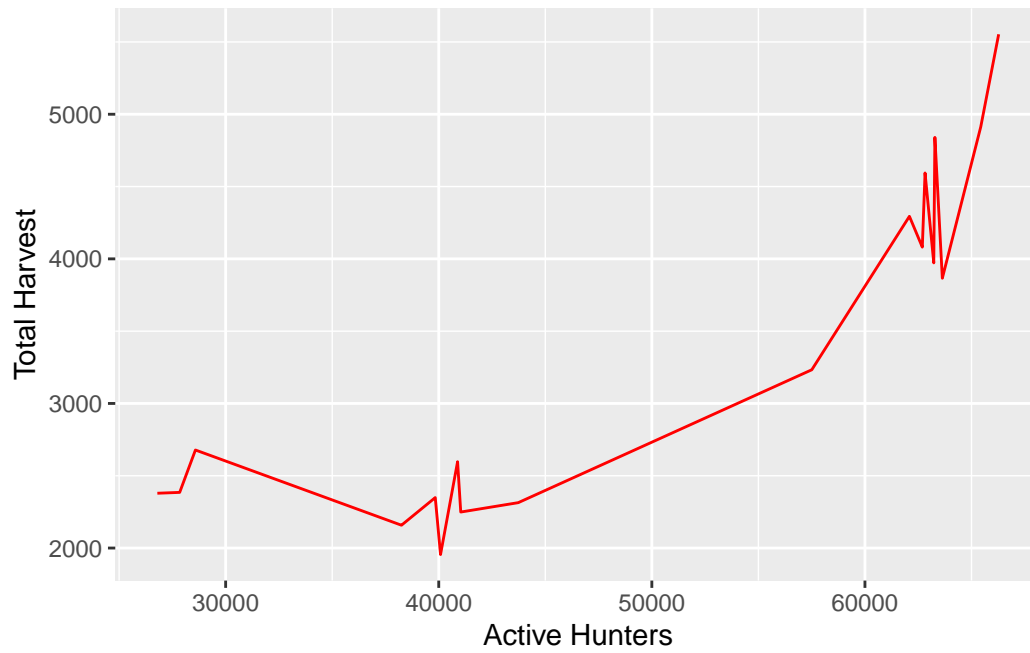
Figure 14: Number of active moose hunters plotted against total moose harvests from 2009-2023 in the northern region

# 3 Model

# 4 Results

# 5 Discussion

## 5.1 What was done

## 5.2 Something we learned about the world

## 5.3 Another thing we learned about the world

## 5.4 Weaknesses

## 5.5 Looking forward

# References

R Core Team. 2022. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.