



# Agricultural Injuries in the Central States Region

## Annual Surveys Covering Years 2011-2015 Preliminary Results

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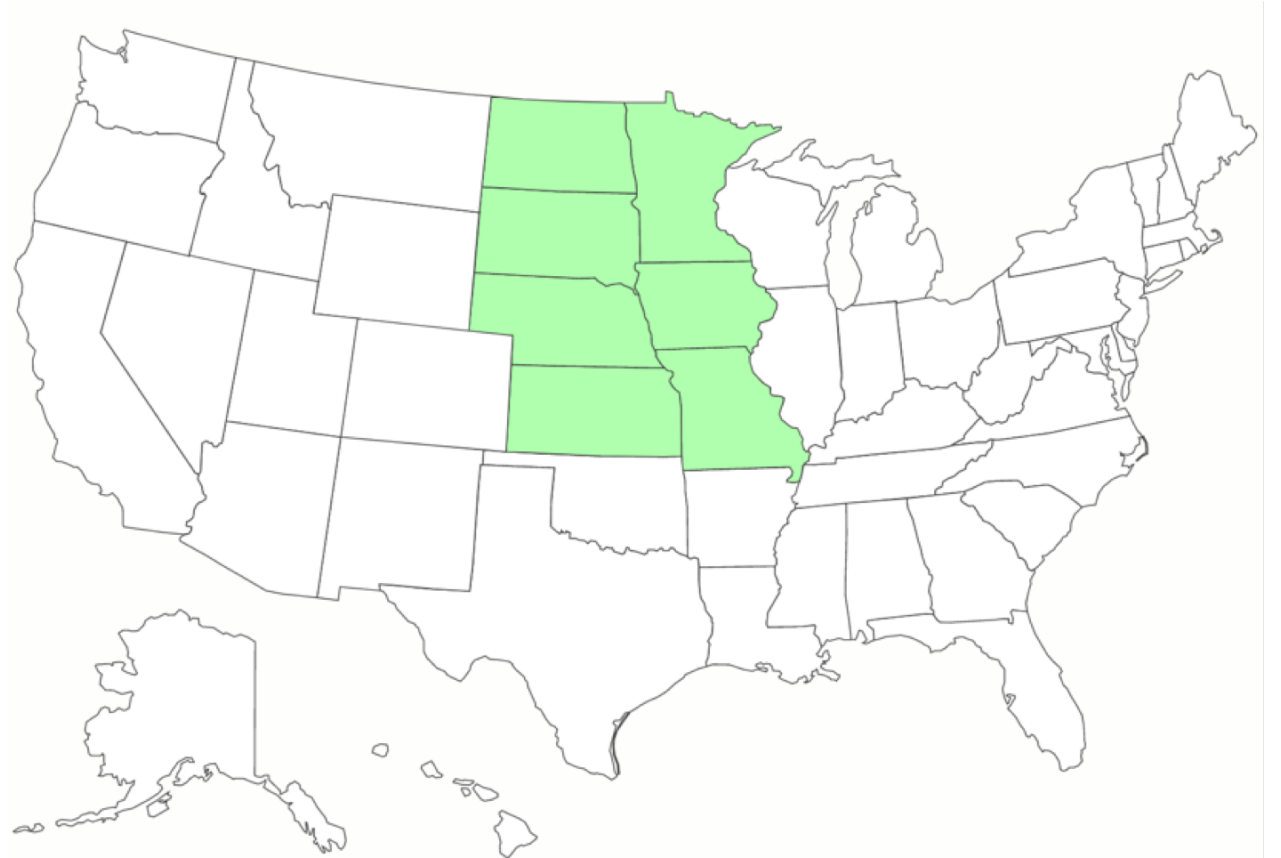
# CS-CASH Farm and Ranch Injury Surveys 2011-2015

- Mail surveys designed by CS-CASH
- Administered by USDA-NASS
- Stratified random sample of operations, 1000 per state
- Conducted annually; 2 mailings, no incentives
- Four-page survey form
- Five annual rounds of data collected
- Data analysis by CS-CASH research team from datasets provided by NASS without personal identifiers



# Surveys covered a seven-state region

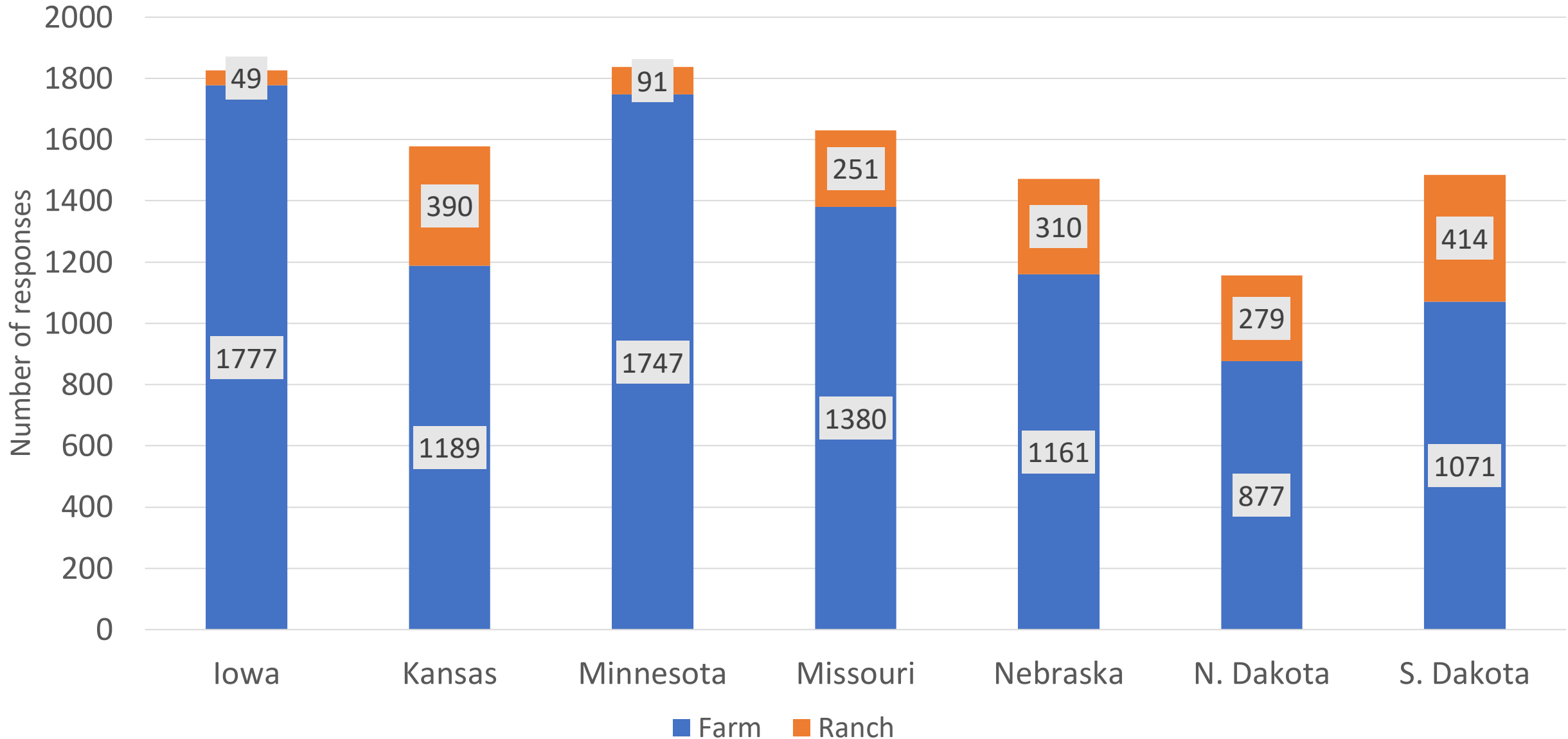
- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota



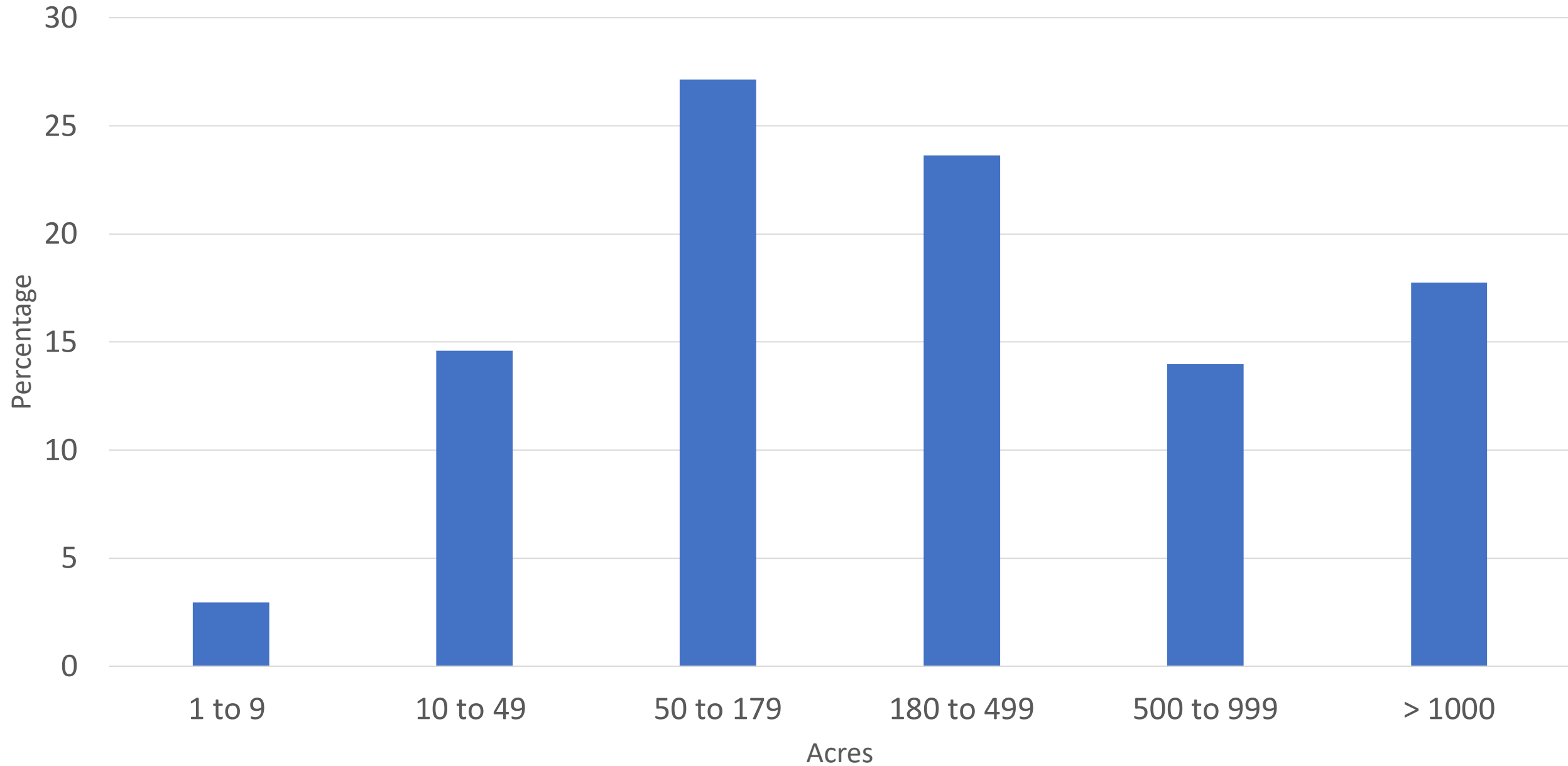
# Farm and Ranch Operations

# CS-CASH farm and ranch injury survey

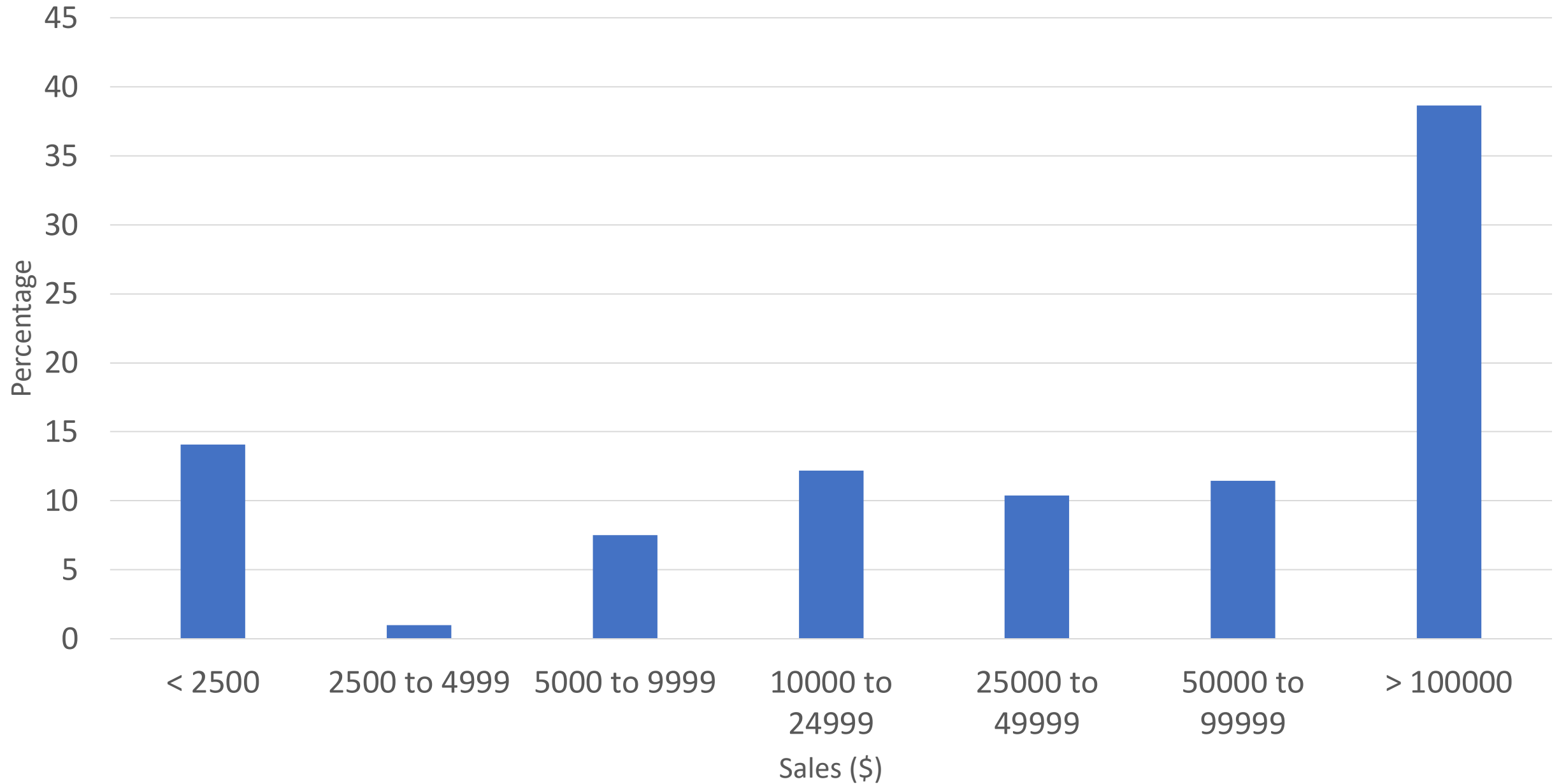
Number responding operations by state, 2011-2015 (n=10,986)



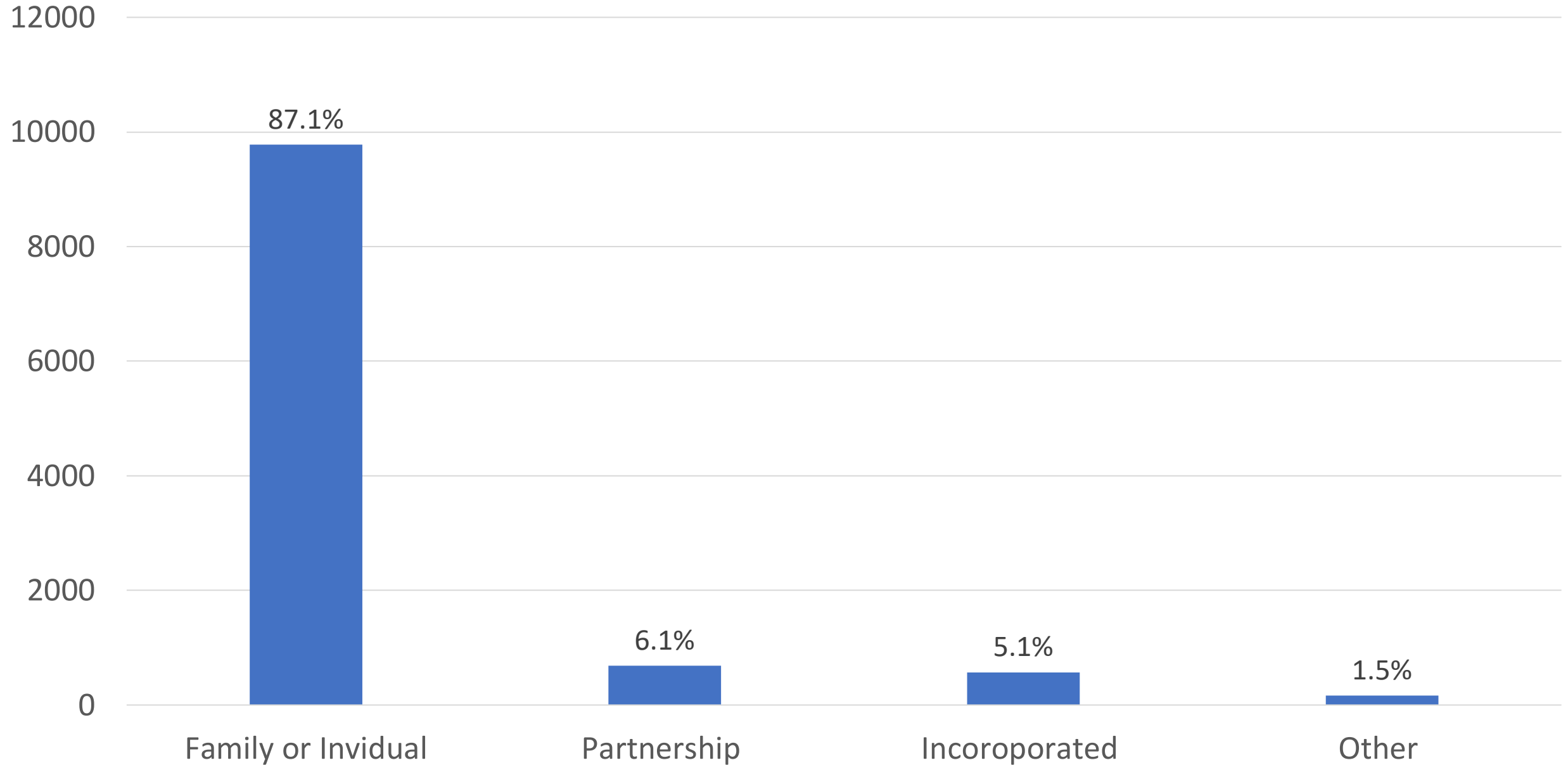
# Operations by size, all states combined



# Operations by total sales, all states combined

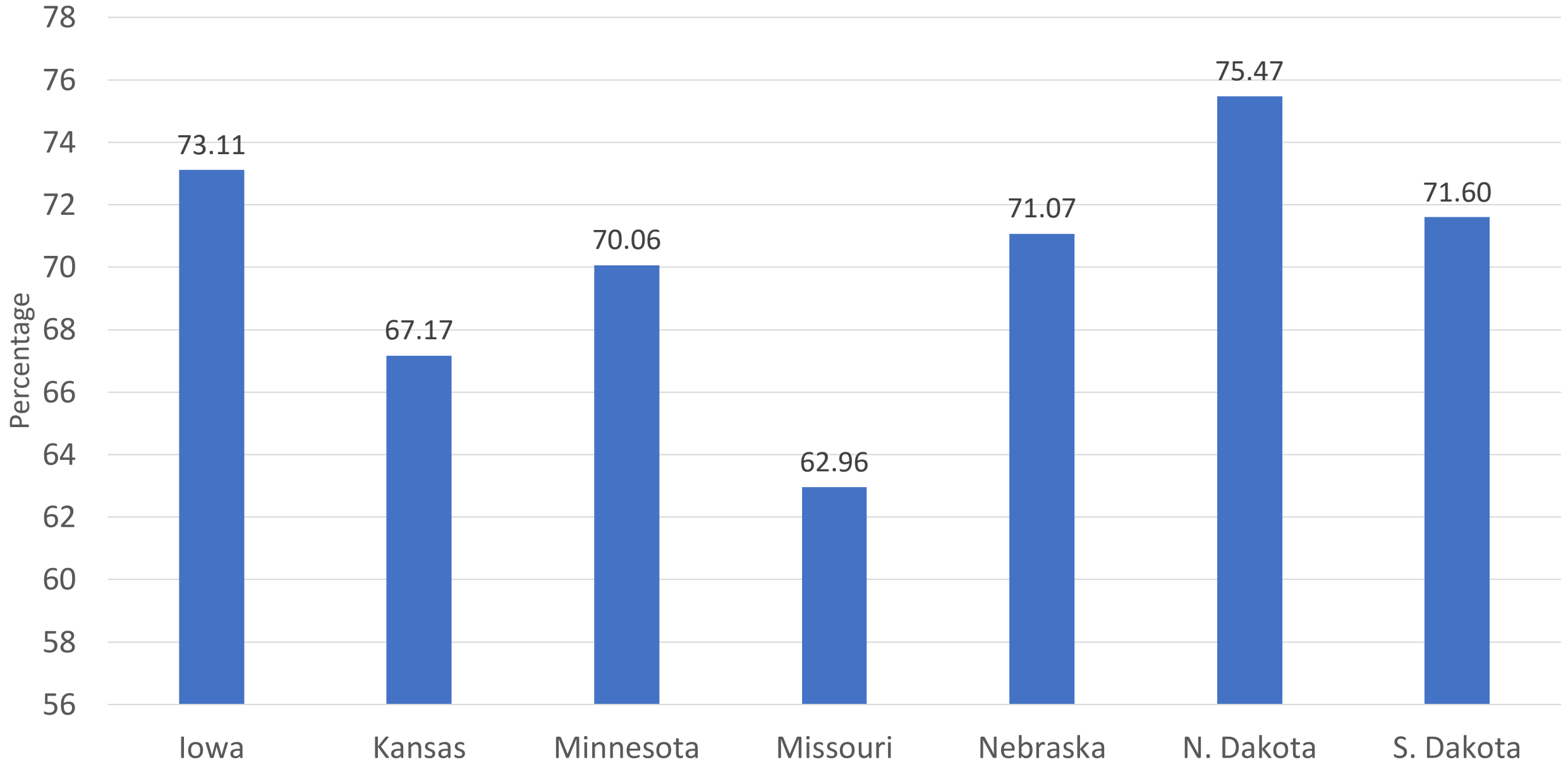


# Type of Organization



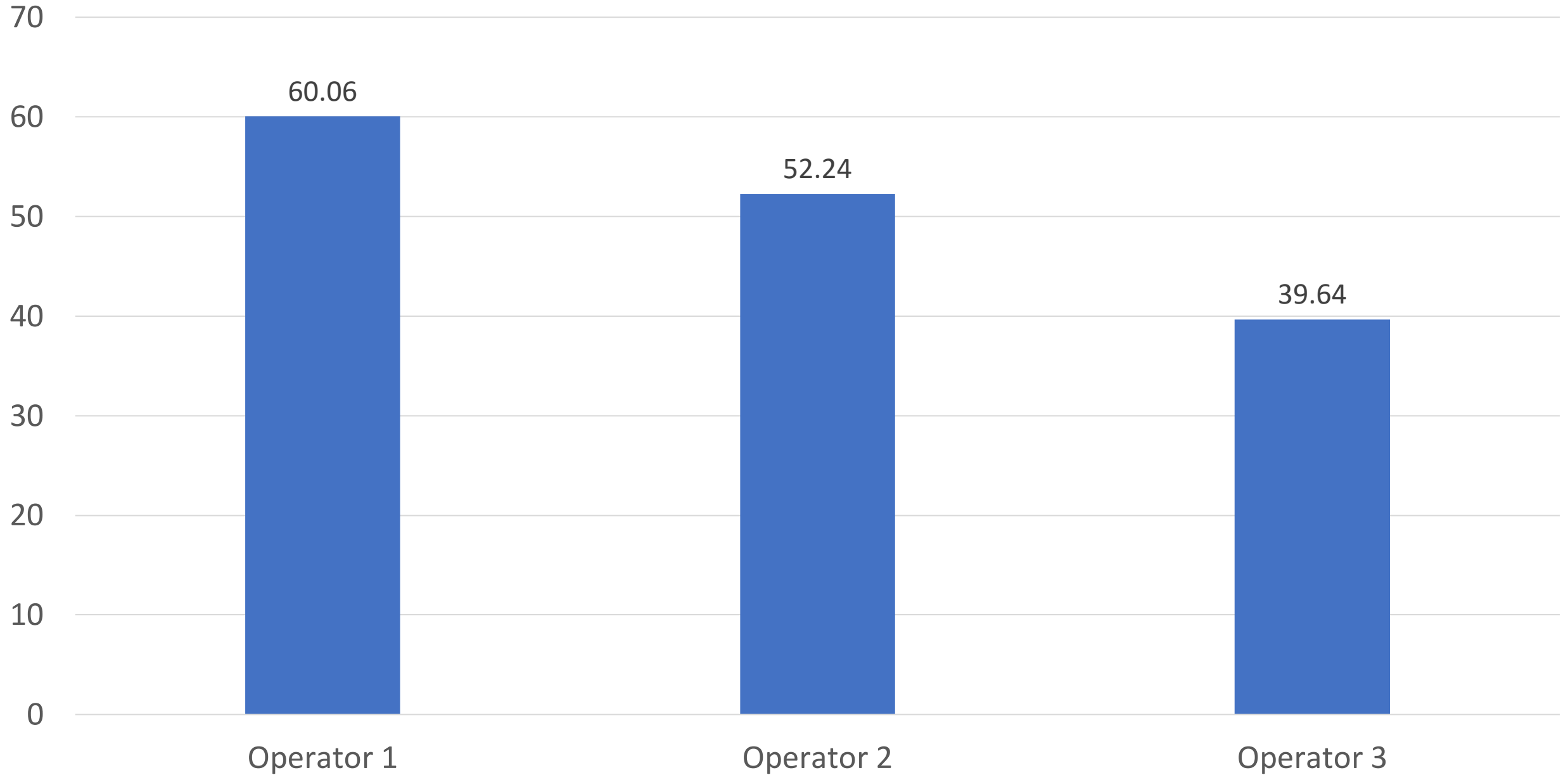


## Operations with internet access

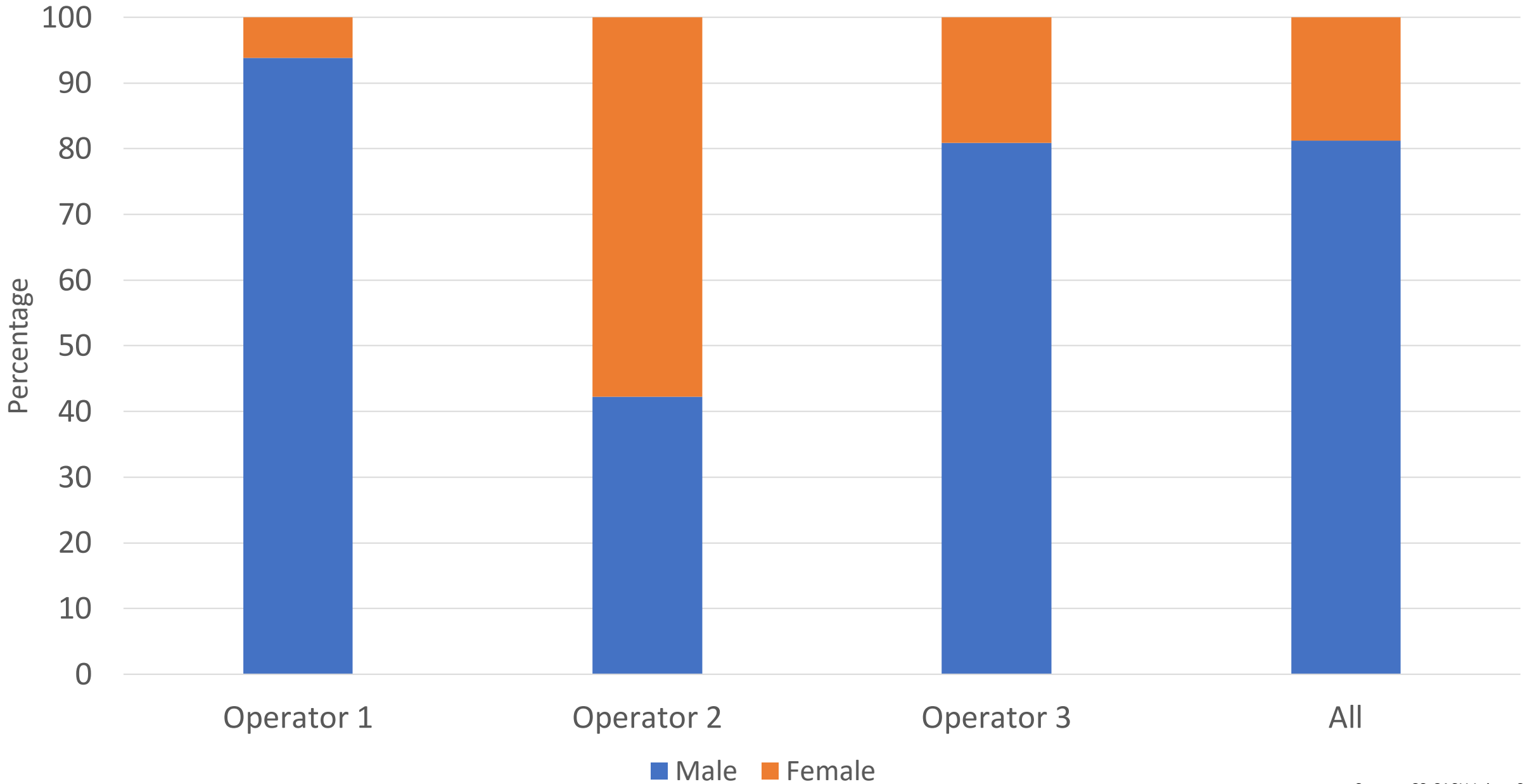


# Operators

# Average age of operators



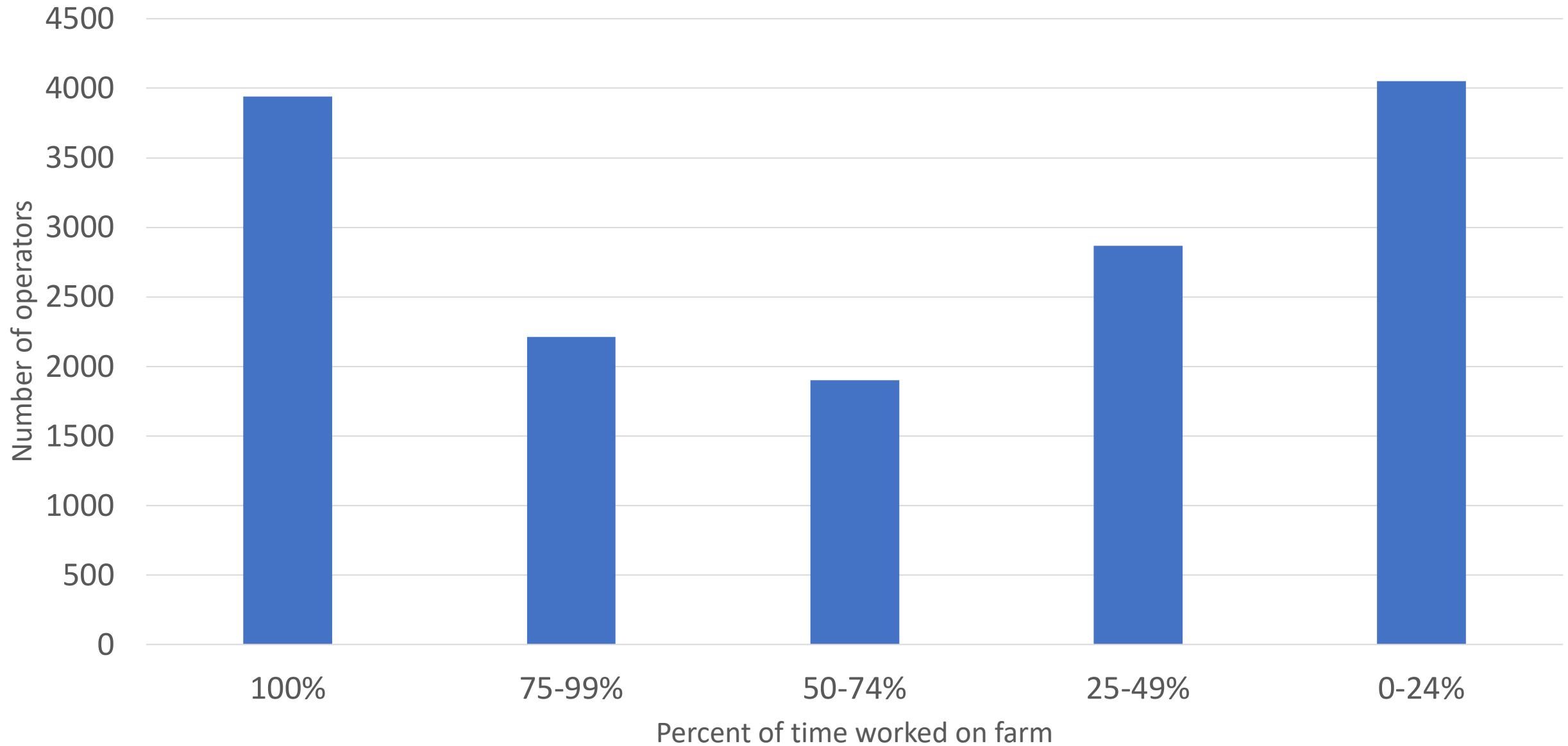
# Operators by gender (%) (n=15,704)



# Time operators spend at principal occupation

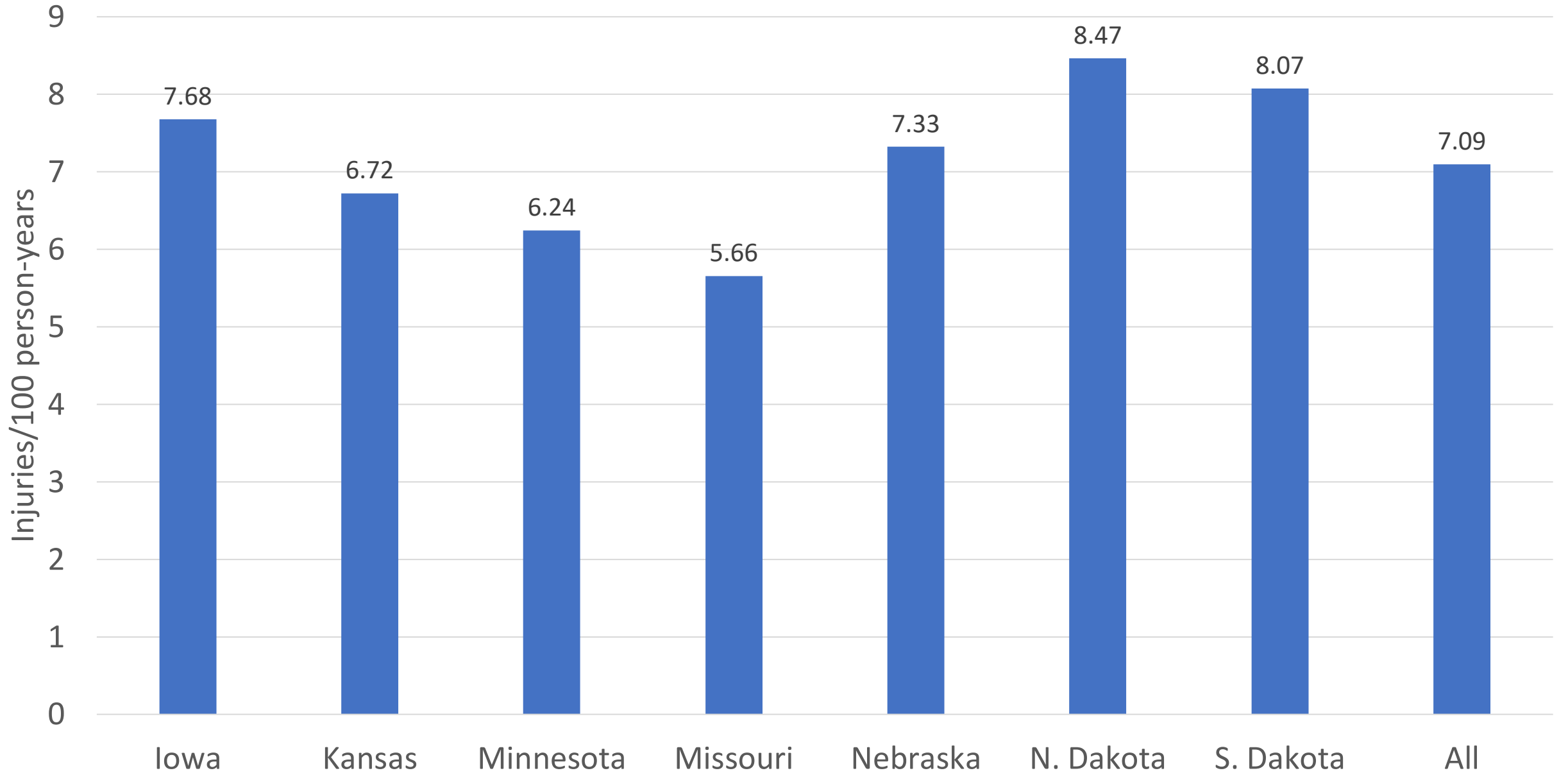


## Percentage of time worked on farm by all operators combined



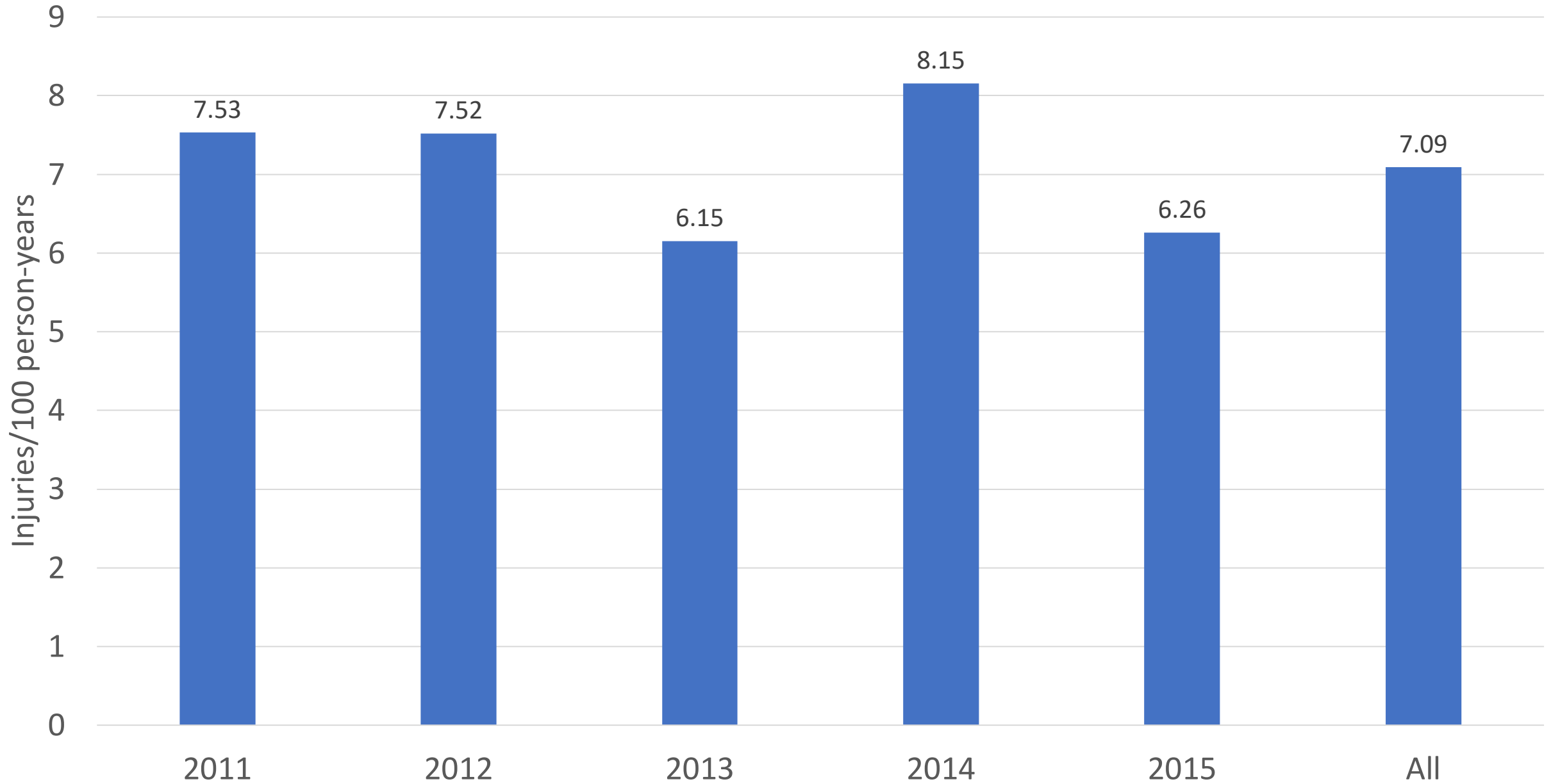
# Injuries

# Injury rate for all operators by state, 2011-2015

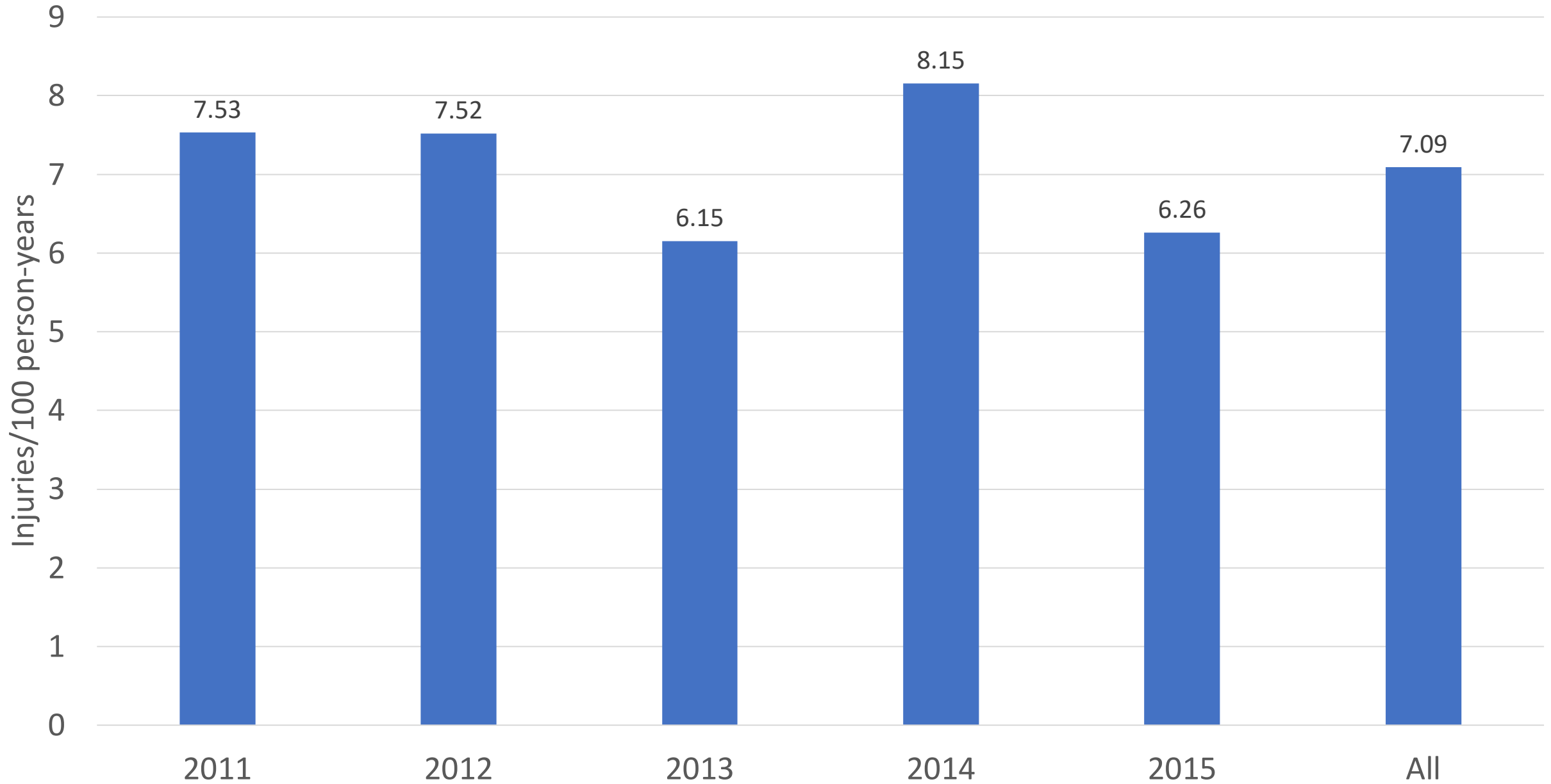




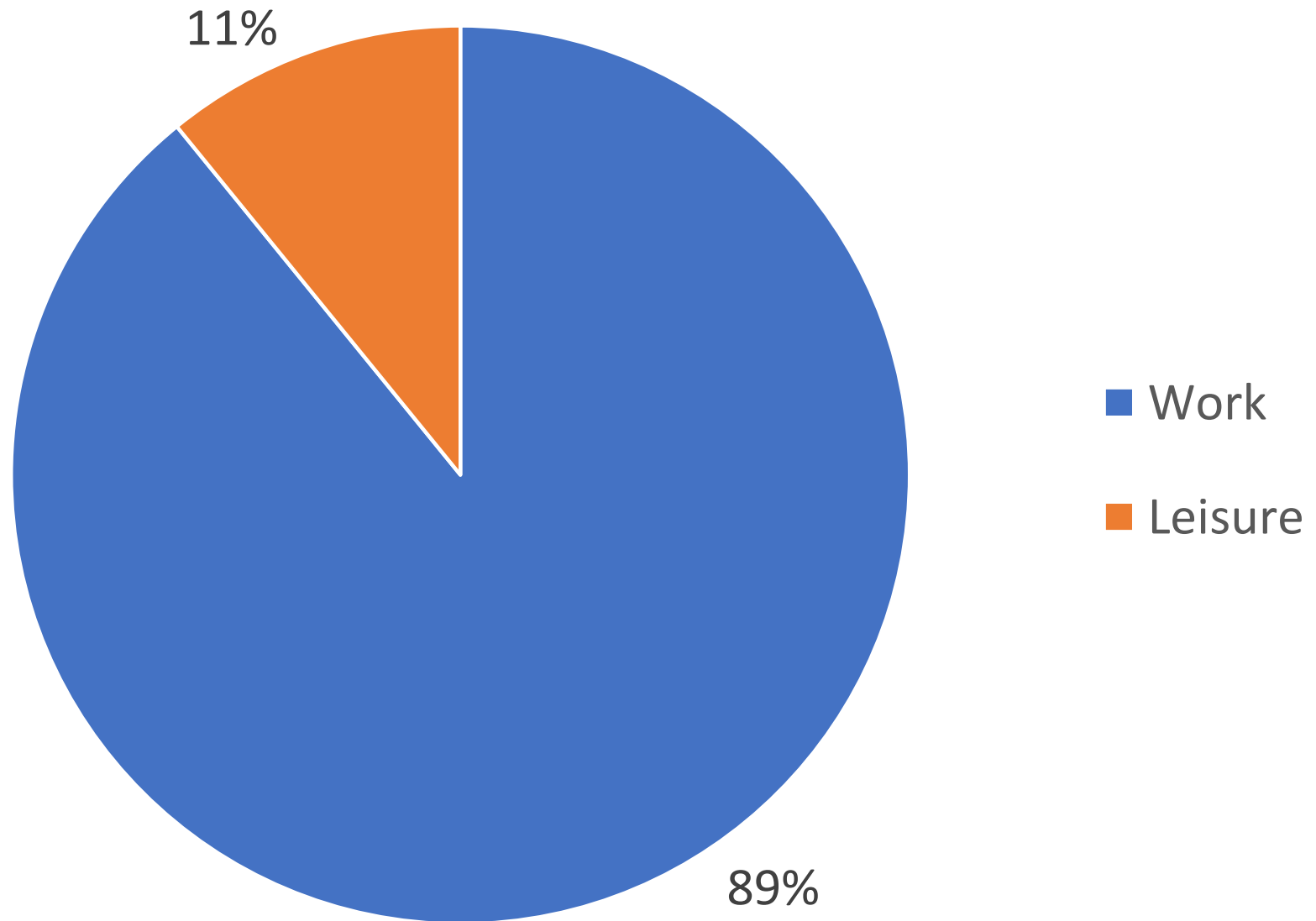
# Injury rate by year



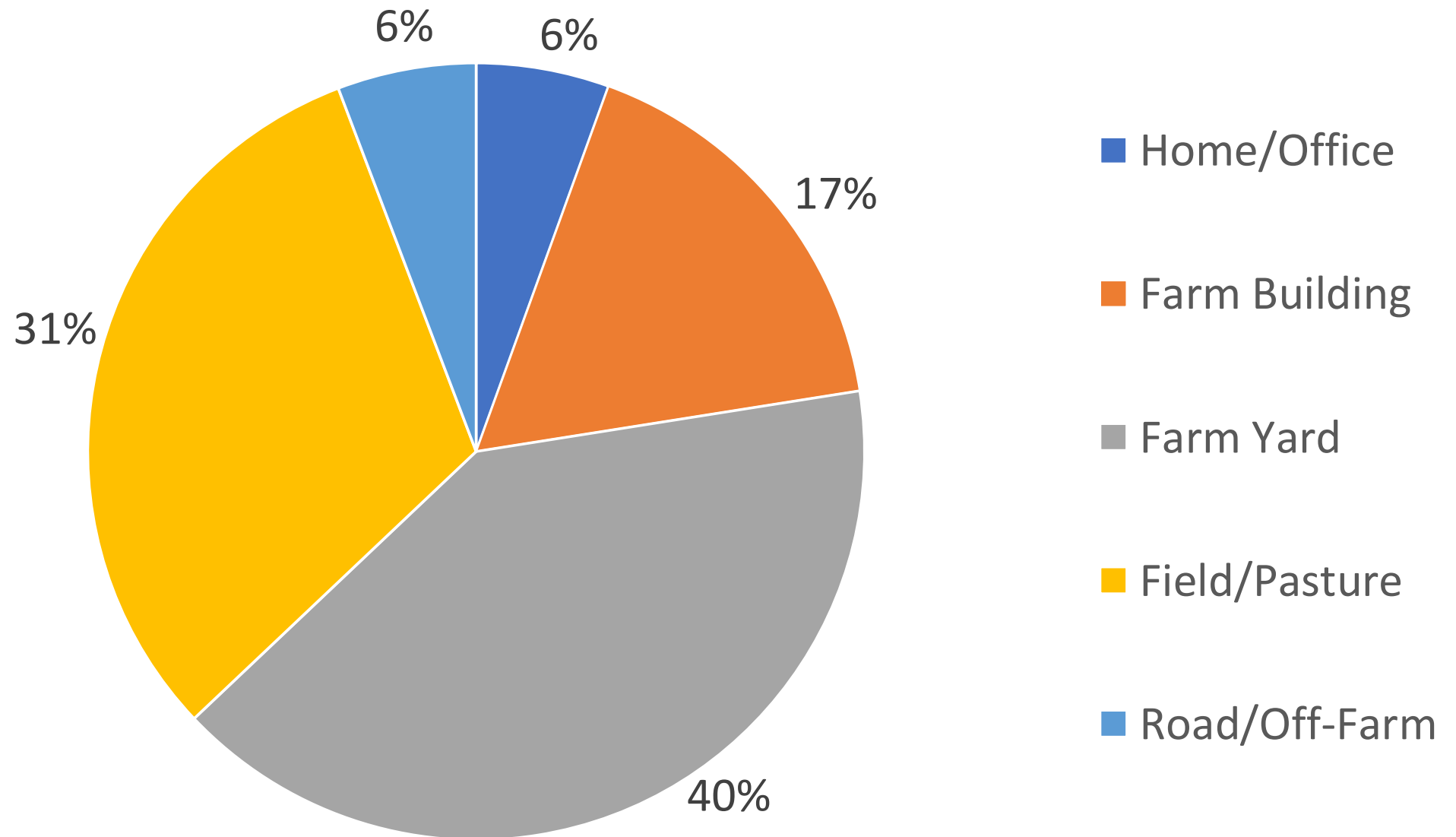
# Injury rate by year



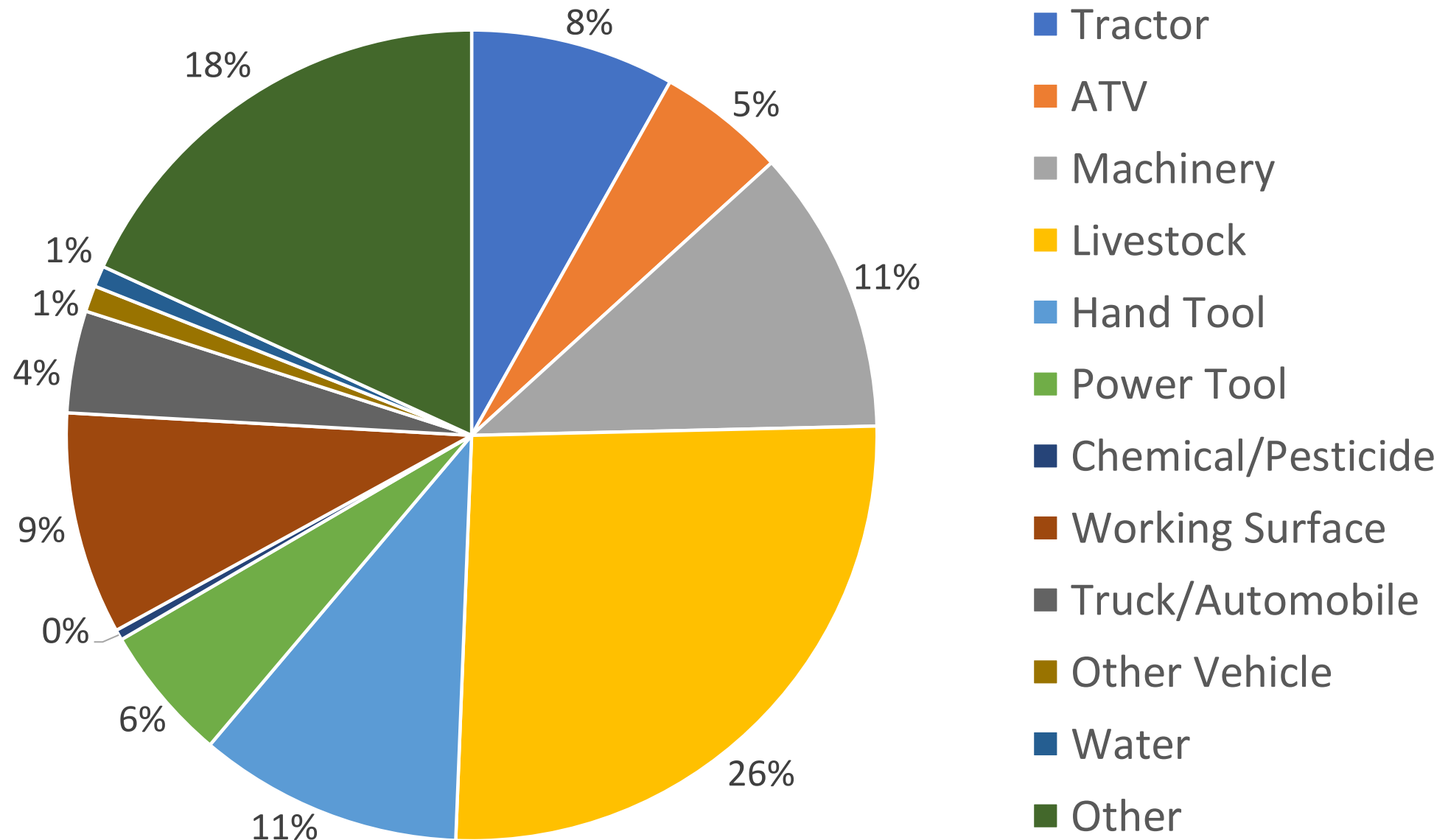
# Injuries by activity



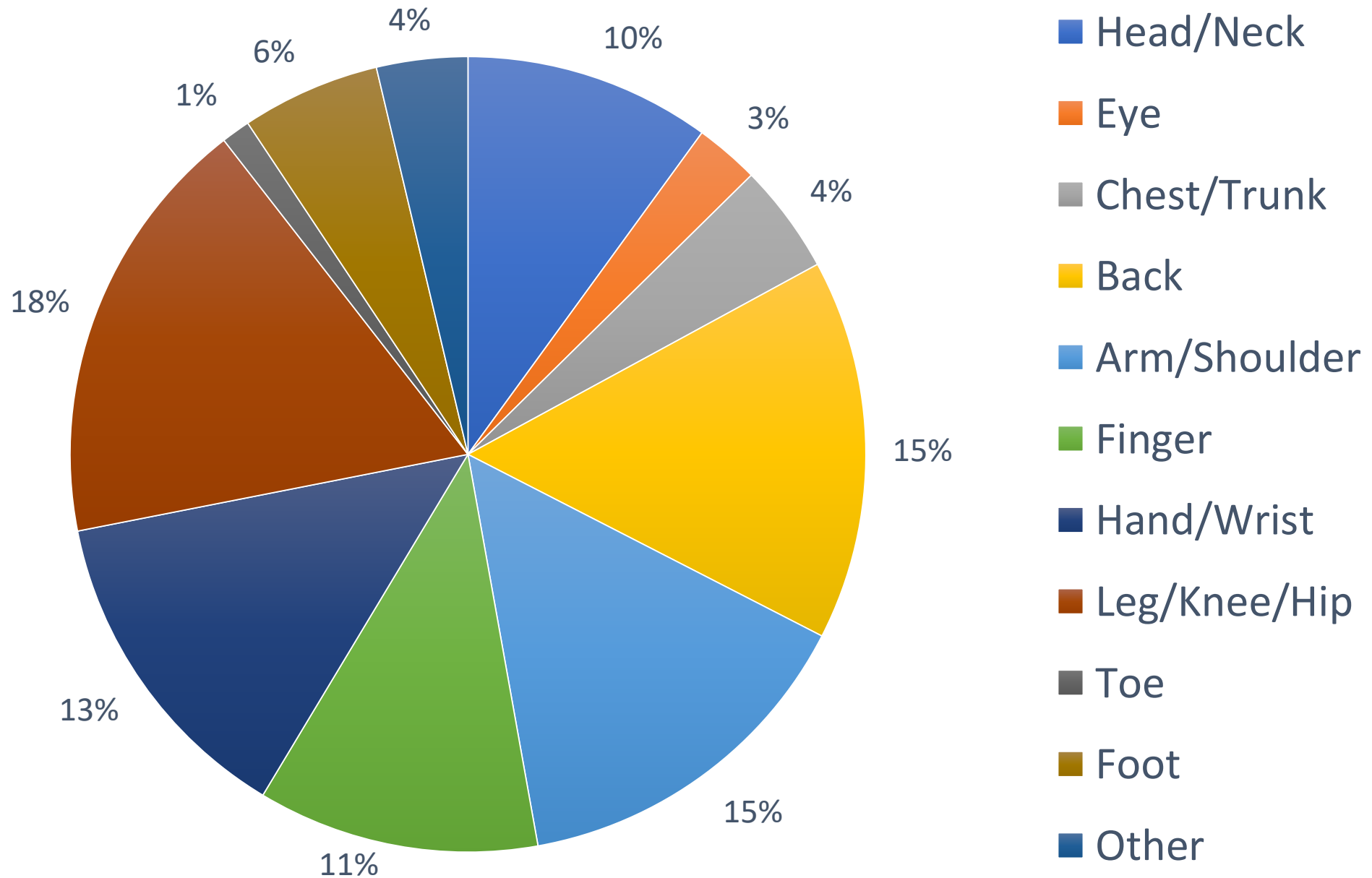
# Injuries by location where injury occurred



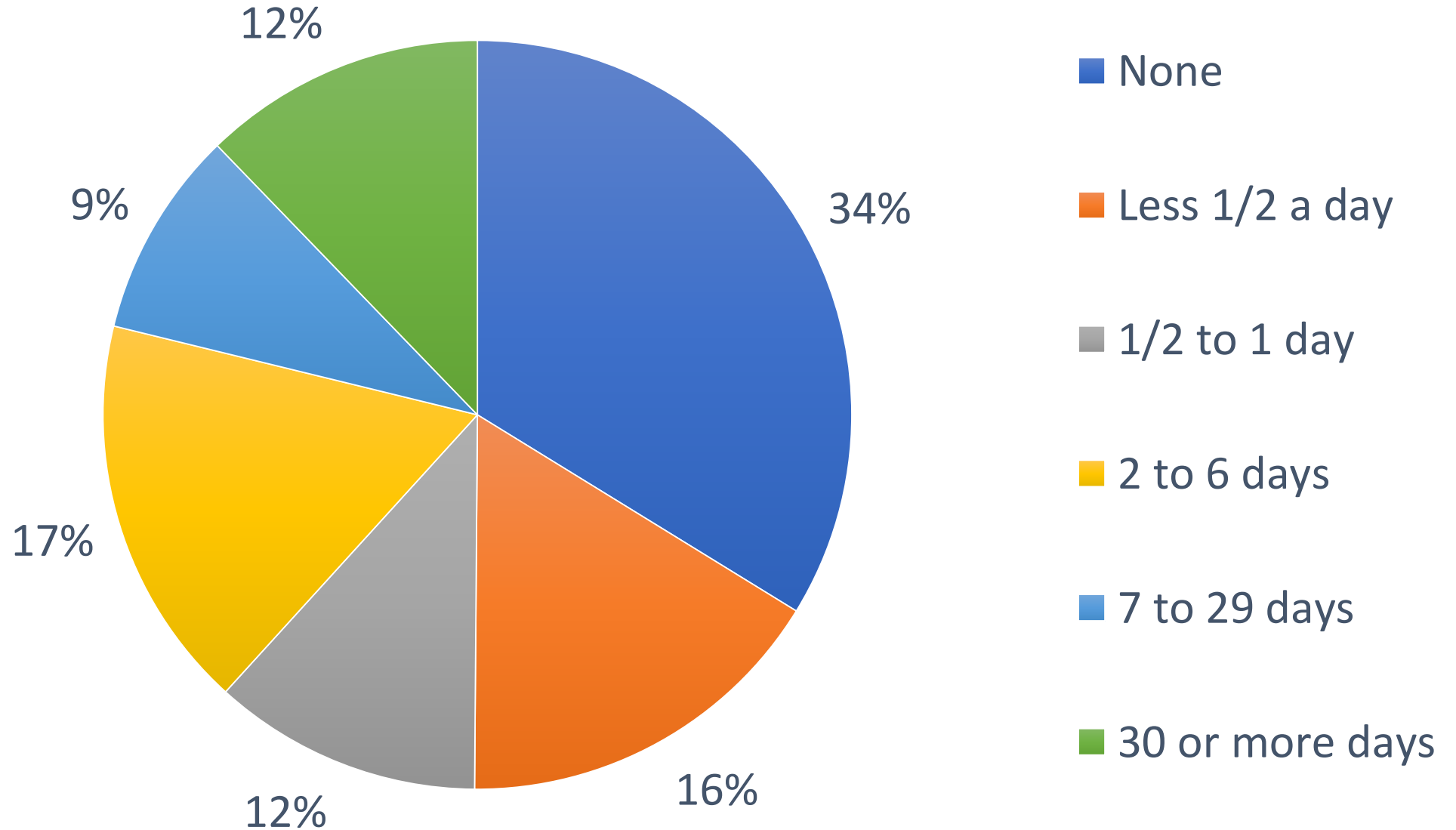
## Injuries by cause/source of injury



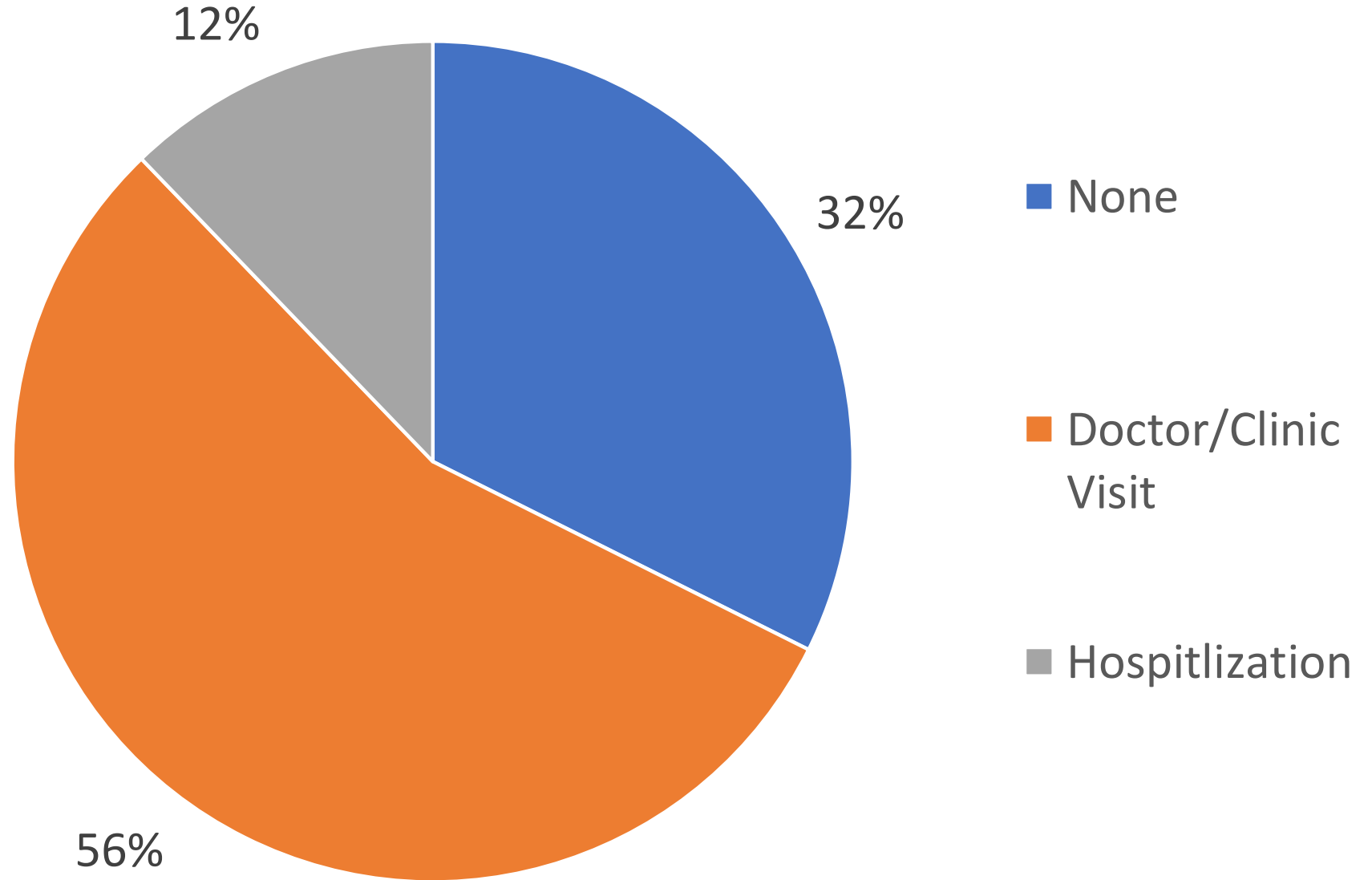
# Injuries by injured body part



## Injuries by lost time due to disability



## Medical care required





# Summary of results; 2011-2015

- Response rates varied from 29% to 37%
- Avg. rate: 7.1 injuries / 100 operators per year
- Likelihood of injury to operator: 1 injury in ~14 years
- Average costs of injury:
  - Medical; out-of-pocket: \$1,513
  - Medical; covered by insurance: \$7,282
  - **Medical; combined: \$8,795**
  - Estimate, including lost productivity and indirect costs (4\*): **\$35,180**

