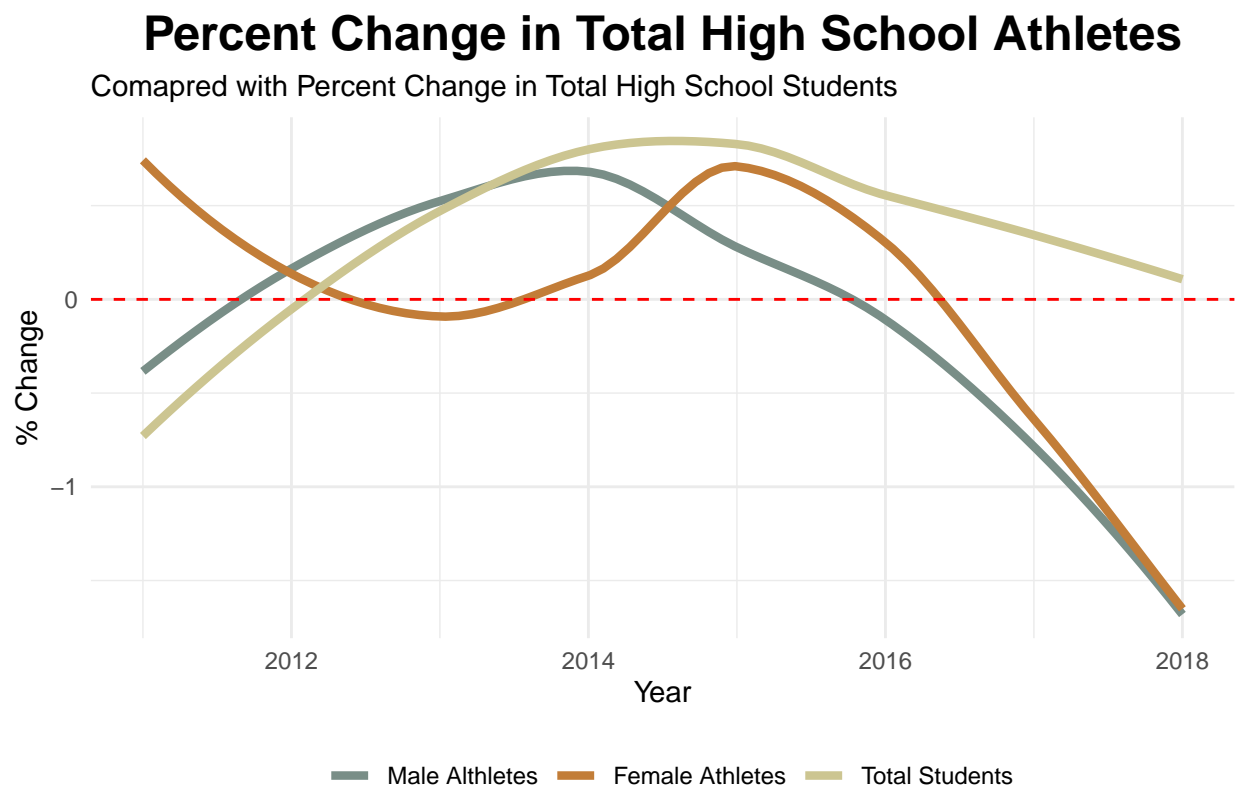


FinalPresentation

Mason Kellett, Carmen Canedo

December 1, 2020

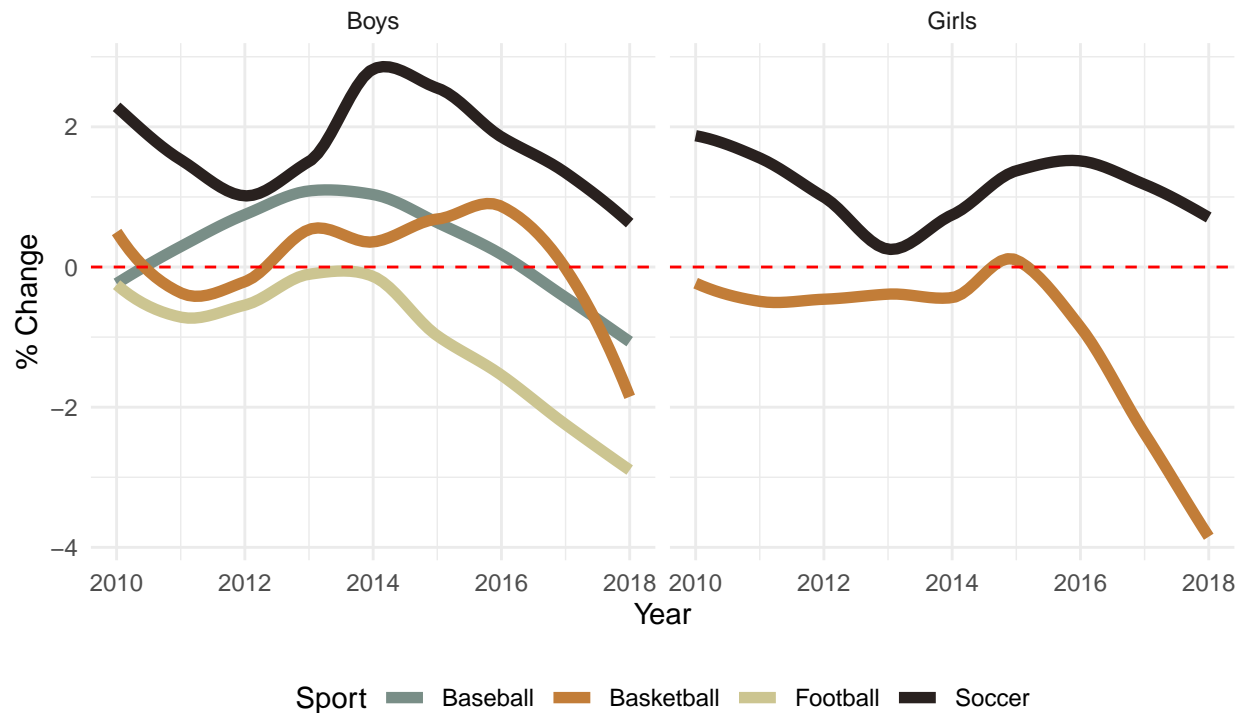
Athlete Participation



Data provided by NFHS

Over the past 10 years there have been changes in the number of students who are participating in sport. As shown in the graph above, from about 2010 to 2015, both male and female participation changed fairly closely with the total number of high school students in the United States. However, starting in about 2016 we see that the sport participation pulls away from the number of high school students. In this project report, we will analyze what characteristics of sport have caused the decline in sport participation.

Percent Change in High School Athletes by Sport



Data provided by NFHS

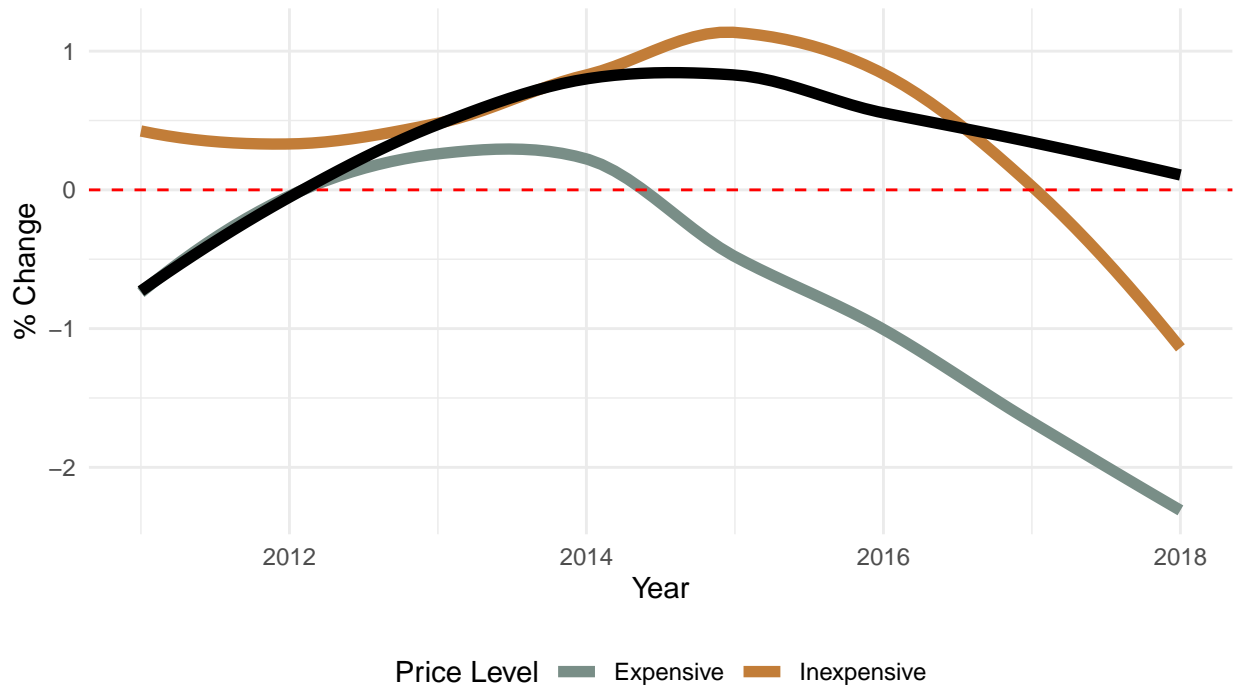
Hypothesis 1

The first hypothesis is that participation levels will be different by sport.

As shown in the graph above, the only sport that showed a constant increase in sport participation was soccer. Football shows a negative trend, where the number of athletes participating is decreasing year over year. This helps support the hypothesis that the participation change is different by sport. This leads us to question which characteristics are common among sports with declining participation versus increasing participation.

Percent Change in High School Athletes by Cost to Play

Compared to Percent Change in Overall High School Students (Black)



Data provided by NFHS and MetroKids

Hypothesis 2

More expensive sports will show a more consistent decline in sport participation.

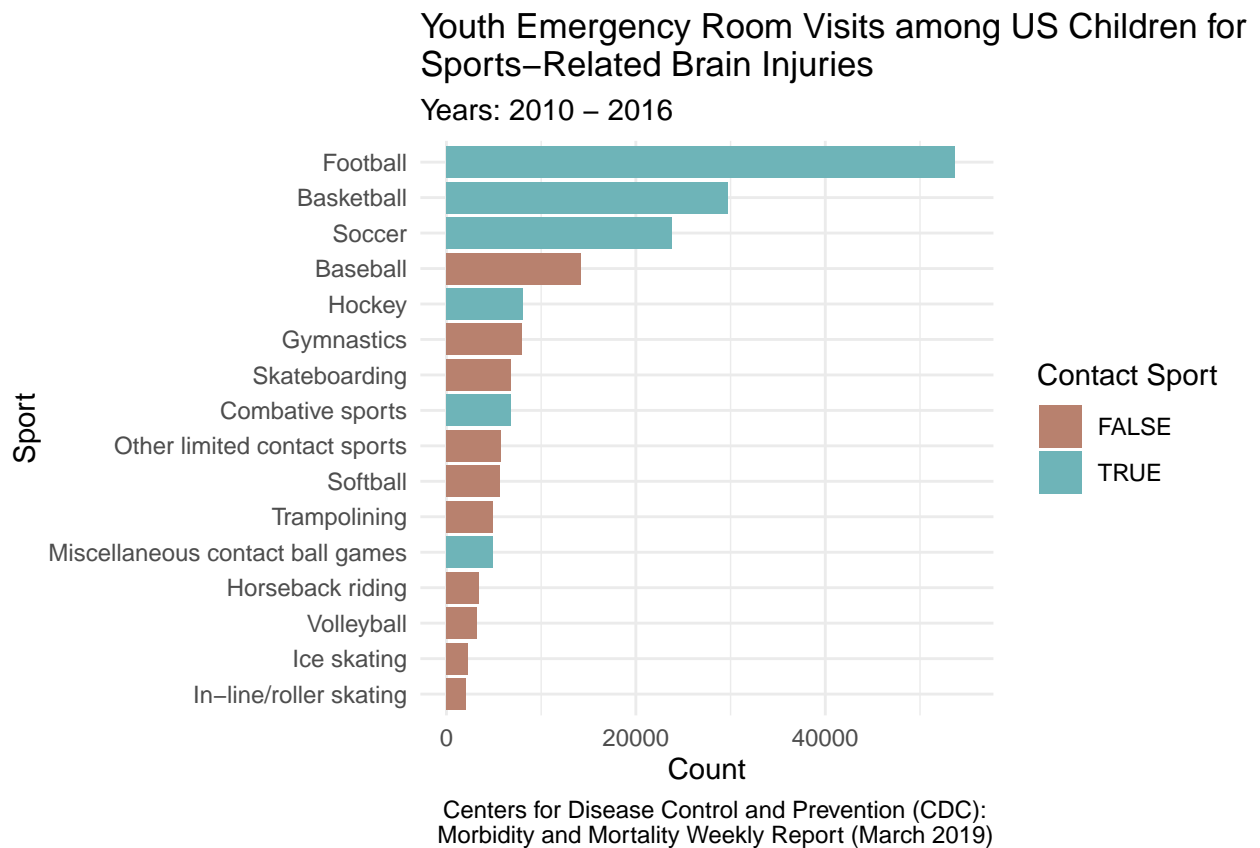
Sports were split into two factors, expensive or inexpensive, depending on the sports average annual cost according to a MetroKids report. Based on this separation, it was shown that the more expensive sport strayed significantly from the overall trendline for change in student population. The less expensive sports, even in 2018, followed pretty closely with the changes in student population. This leads to the conclusion that students are participating less frequently in sports that are consistently more expensive, which demonstrates how cost is a huge indicator of the decreasing sport participation.

Hypothesis 3

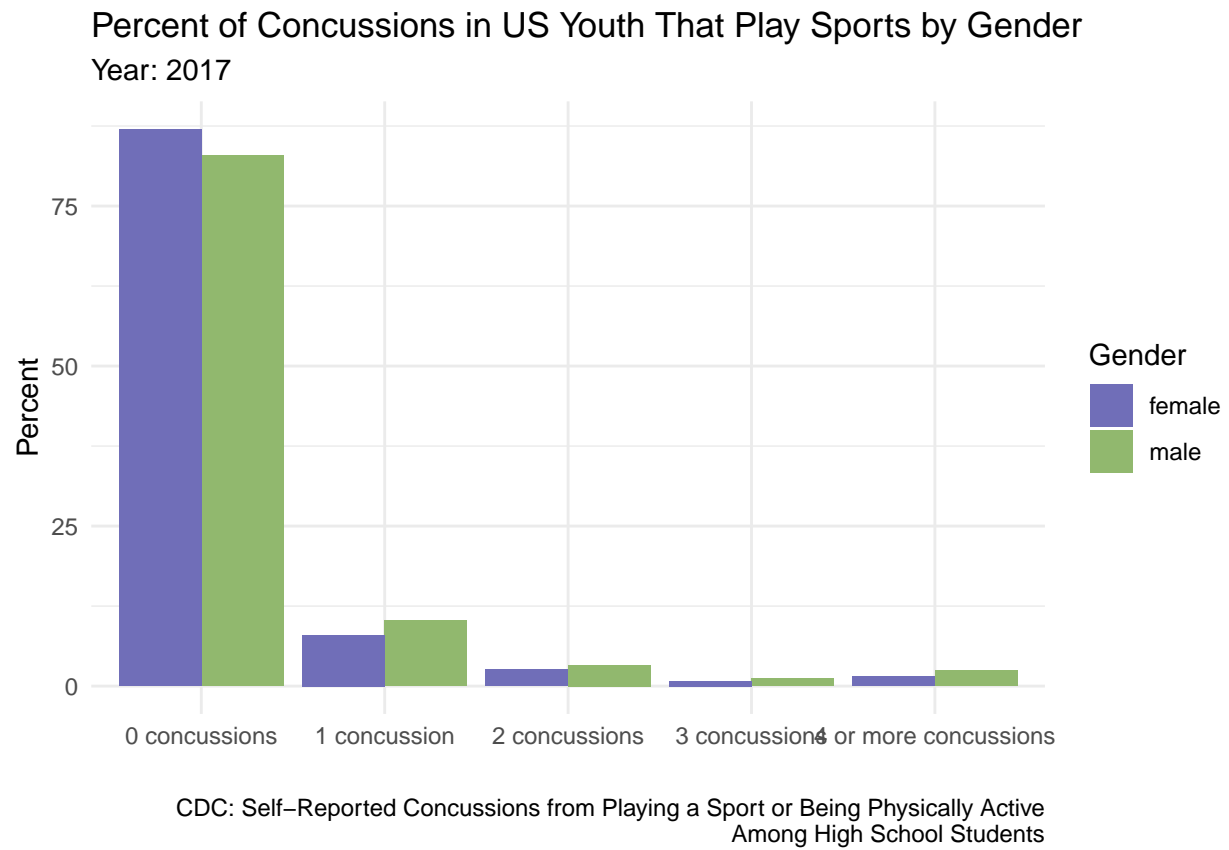
Sports with higher rates of injury will show a decline in participation.

Injuries

How many kids are getting hurt?

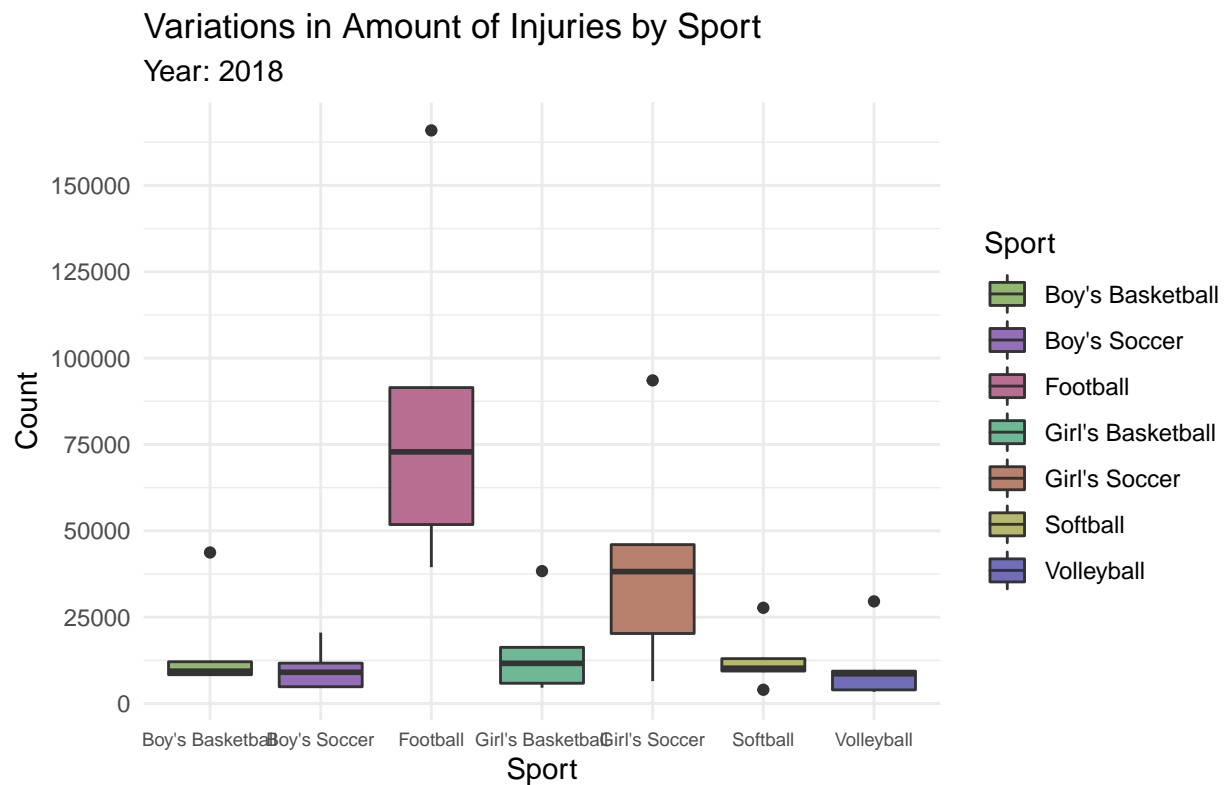


What demographics are most affected?



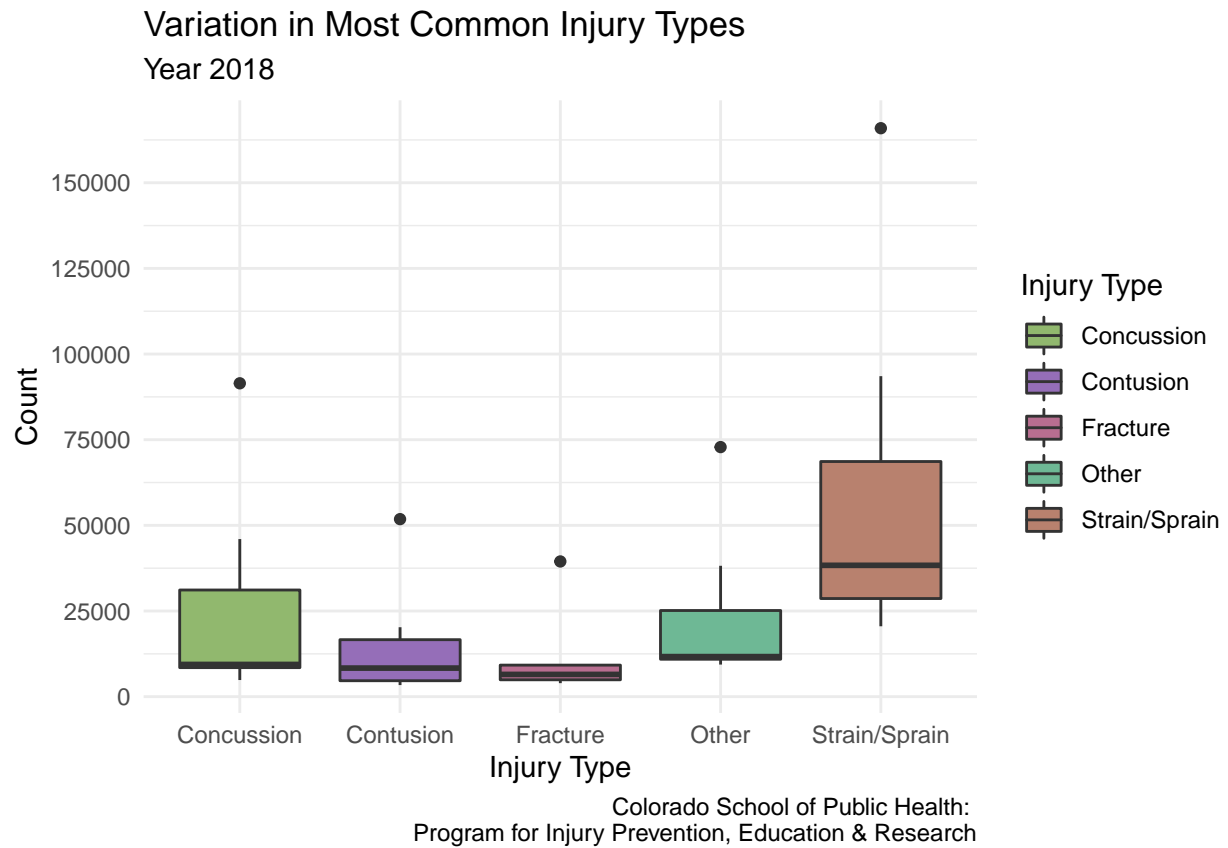
What sports have the most injuries?

Injuries by sport



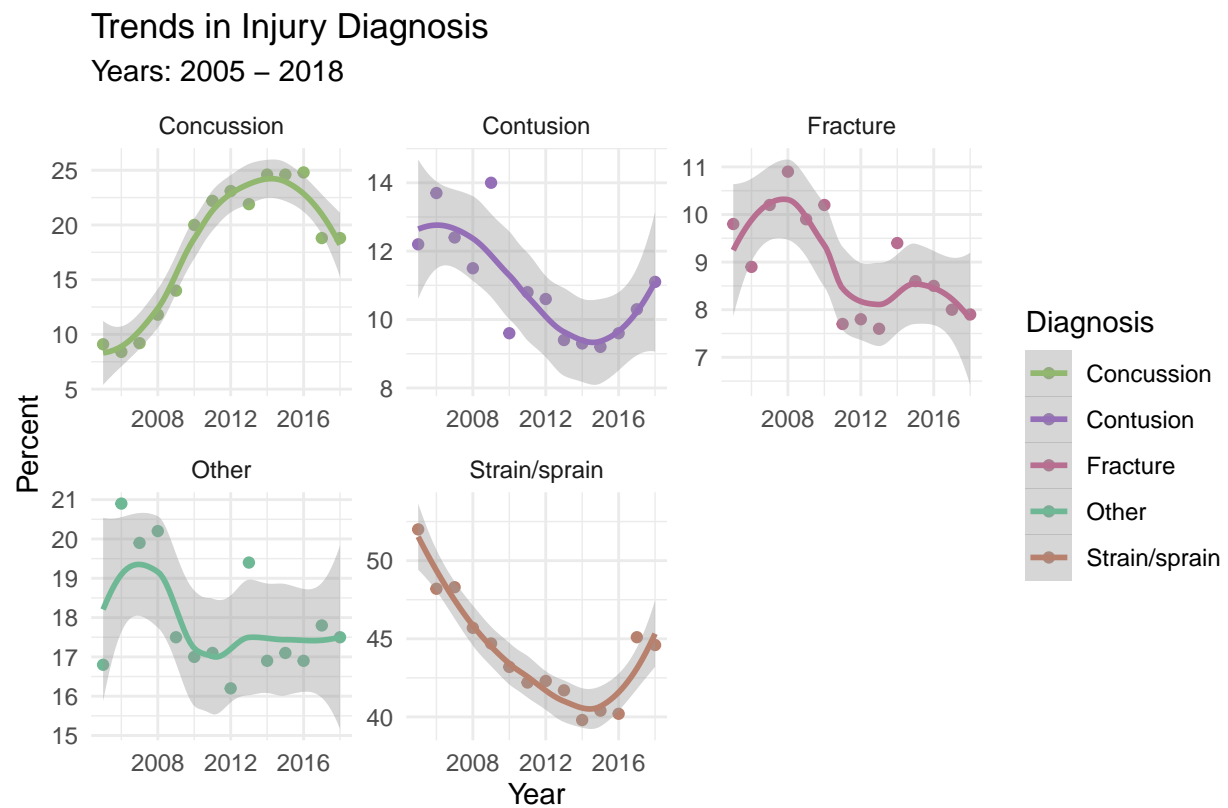
Colorado School of Public Health:
Program for Injury Prevention, Education & Research

Injuries by type



How have injuries rates changed over time?

Diagnosis by year, color by type



Colorado School of Public Health: Program for Injury Prevention, Education & Research

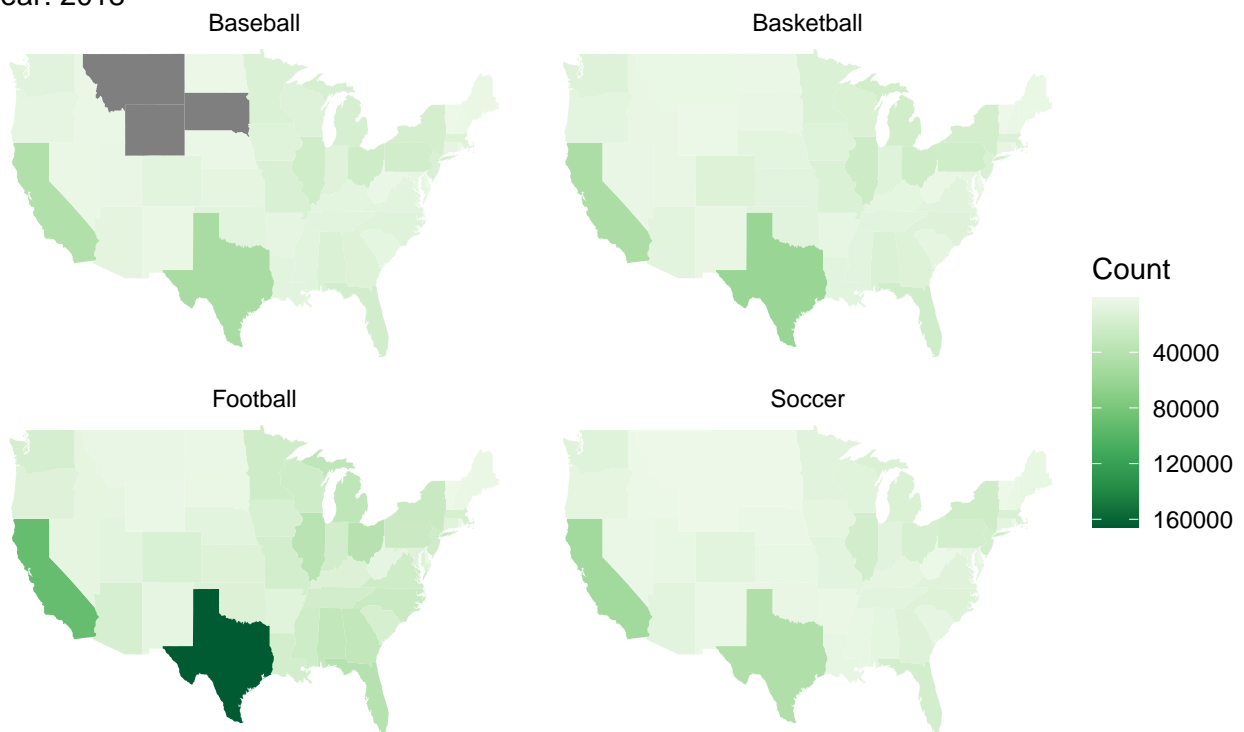
Participation

Who participates in sports?

Boys Participants Map

Counts of Participation in Boy's Sports by State

Year: 2018

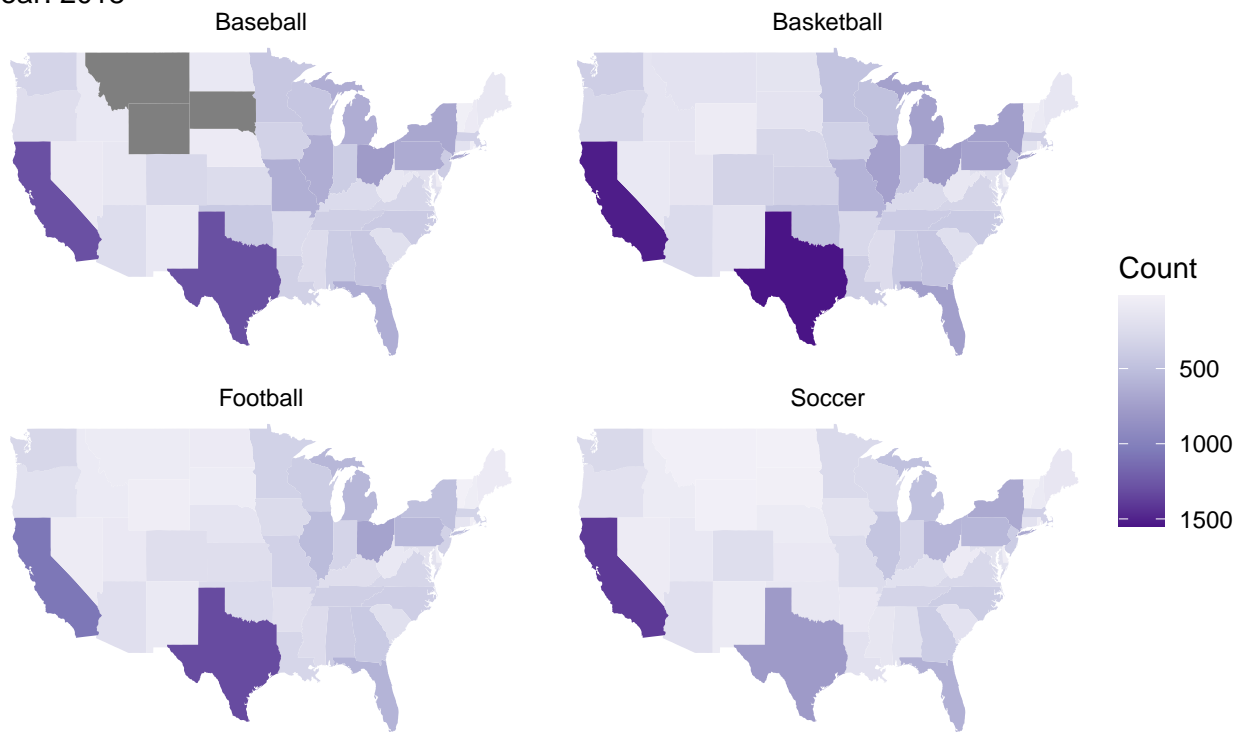


High School Participation Survey Archive

Boys Programs Availability Map

Counts of Programs for Boy's Sports by State

Year: 2018

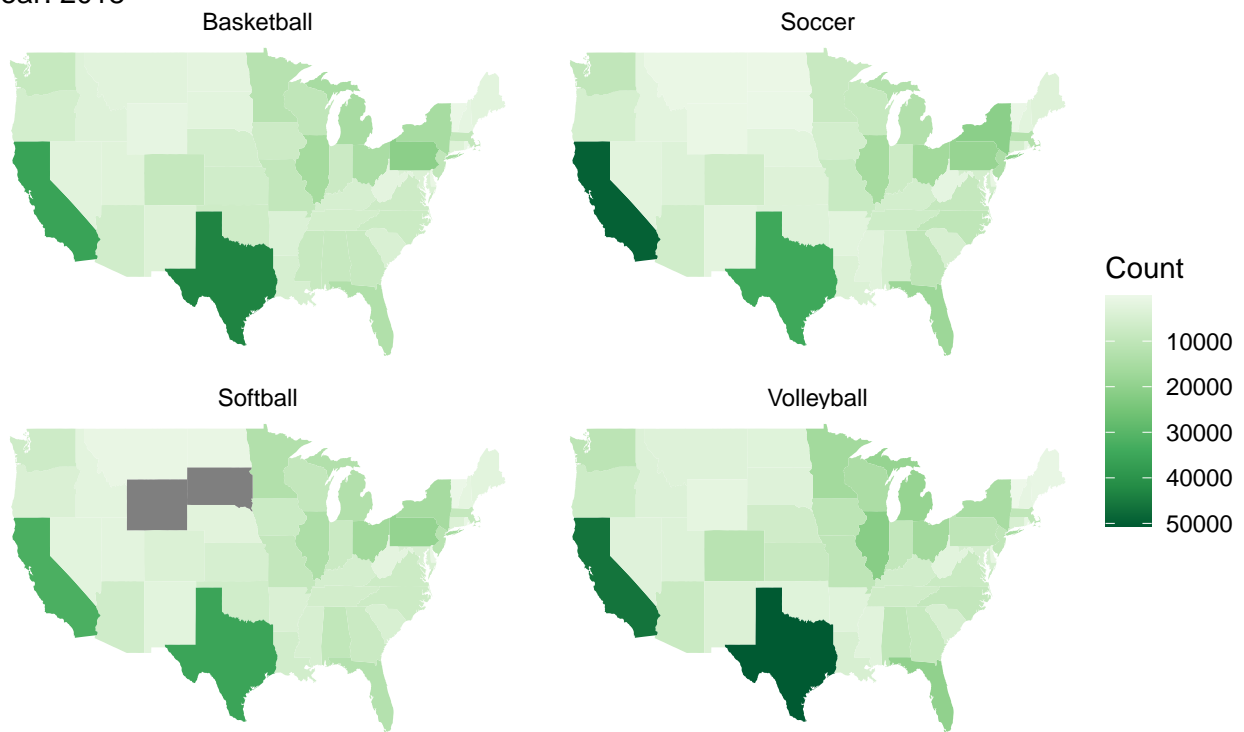


High School Participation Survey Archive

Girls Participants Map

Counts of Participation in Girl's Sports by State

Year: 2018

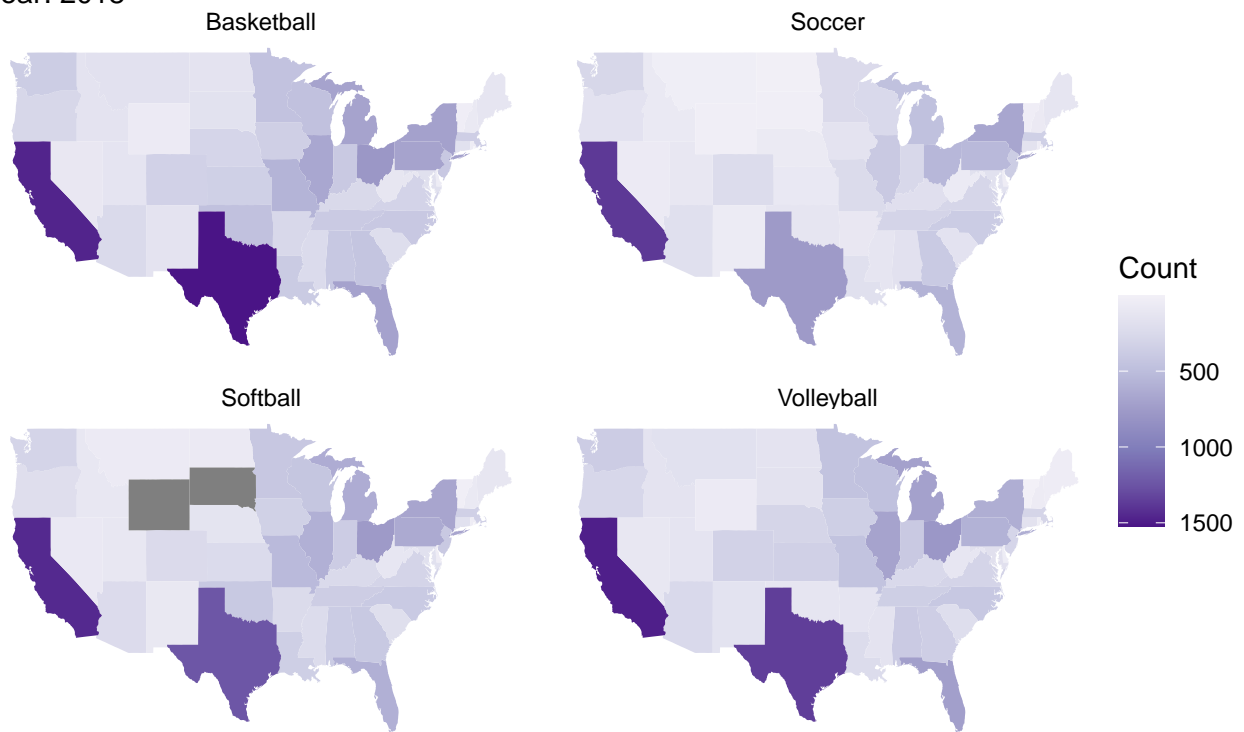


High School Participation Survey Archive

Girls Programs Map

Counts of Programs for Girls's Sports by State

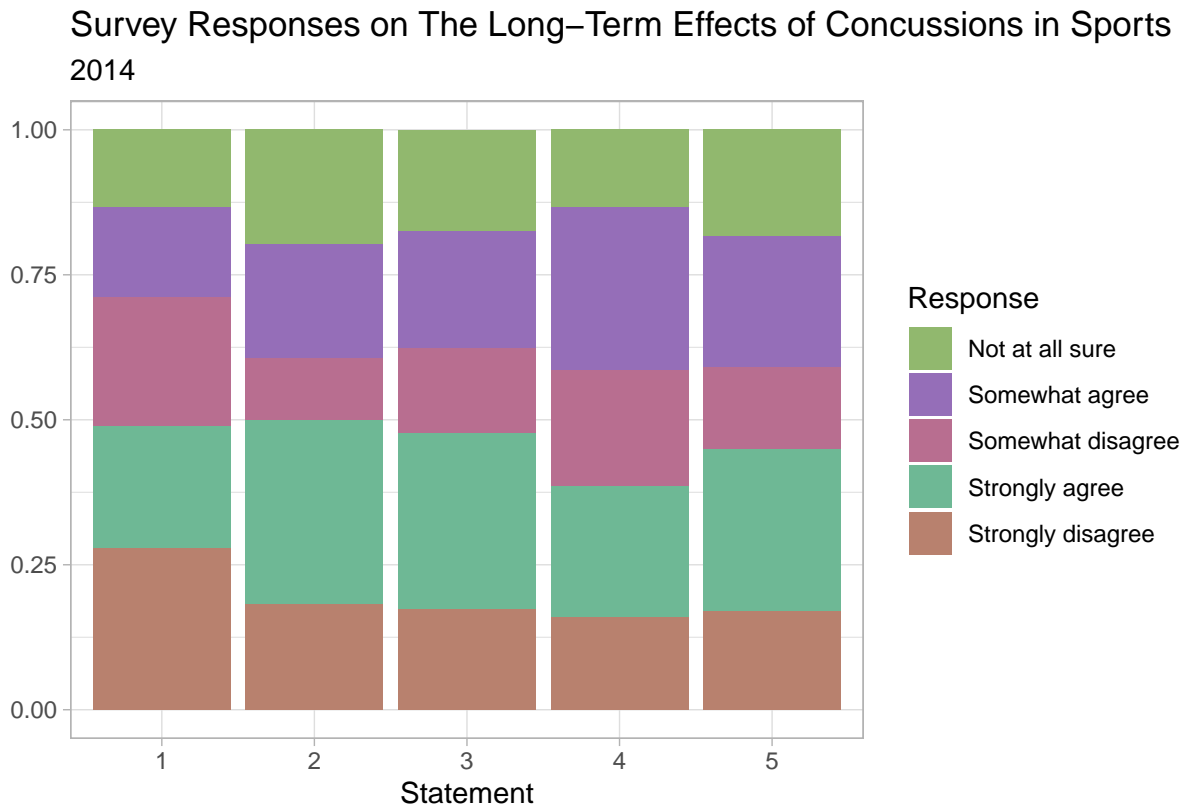
Year: 2018



High School Participation Survey Archive

Conclusion

Public opinion



Source: Harris Interactive | The Harris Poll #92