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Brief Summary Report: 2024/25 National High School Sports-Related Injury Surveillance Study
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Introduction

2024/25 marked the 20th year of the National High School Sports-Related Injury Surveillance Study, more commonly known as High School RIO™.

- The original surveillance study of athletes participating in nine sports (boys' football, soccer, basketball, wrestling, and baseball and girls' soccer, volleyball, basketball, and softball) from a nationally representative sample of U.S. high schools was continued.
 - o This 20-year study represents the longest running continuous surveillance study and the largest dataset of all time-loss sports injuries compiled from a national sample of U.S. high school athletes.
- The expanded surveillance study continued the 17th year of surveillance of athletes participating in six additional sports (boys' lacrosse, ice hockey, and track and field and girls' field hockey, lacrosse, and track and field) and, for the 16th year, co-ed cheerleading. For the 13th year, data were also collected for athletes participating in boys' and girls' cross country. Data for girls' wrestling were collected in the 2024/25 academic year for the 1st year. The expanded study captures data from a convenience sample of U.S. high schools.
 - o While previously included in High School RIO, boys' volleyball and girls' gymnastics data were no longer collected starting in the 2012/13 academic year and boys' and girls' swimming and diving starting in the 2024/25 academic year due to a low number of schools with athletic trainers who provided services for these sports. Similarly, while also previously included in High School RIO, boys' and girls' tennis data were no longer collected starting in the 2018/19 academic year due to a low number of injuries sustained by athletes participating in these sports.
 - o Beginning in the 2023/24 academic year, exposure and injury data were also collected for marching band. However, due to a low number of schools reporting data, marching band data were not included in this report.

To date, from 2005/06 through 2024/25, participating schools have reported 134,167 injuries during 67,255,905 athletic exposures (AEs) for an overall injury rate of 1.99 injuries per 1,000 AEs for all 25 sports included during the 20-year study period.

- o 70,726 competition injuries during 16,961,507 competition AEs for an injury rate of 4.17 injuries per 1,000 AEs
 - o 63,114 practice injuries during 49,719,610 practice AEs for an injury rate of 1.27 injuries per 1,000 AEs
 - o 327 performance injuries during 574,788 performance AEs for an injury rate of 0.57 injuries per 1,000 AEs (cheerleading only)
- This surveillance study was funded through the generous support of the National Federation of State High School Associations (NFHS) and the NFHS Foundation.

2024/25 Data Snapshot

- When combined, schools reporting for the original and convenience sample reported 5,921 injuries (55% competition-related) during 2,574,616 AEs for an injury rate of 2.30 injuries per 1,000 AEs in the 19 sports studied during the 2024/25 academic year.
- While injury rates varied by sport, competition injury rates were higher than practice injury rates for all but one sport (cheerleading) (**Figure 1**).
- Patterns of injury varied by sport (**Table 1**).
 - o In the 2024/25 academic year, the head/face was the most commonly injured body site in six sports (boys' football, wrestling, and ice hockey, and girls' wrestling and softball, as well as cheerleading).
 - o Also consistent with previous years, strain/sprain was the most common injury diagnosis in all sports except boys' ice hockey (concussion), and cheerleading (concussion).
 - o Across sports, 3.3% to 16.4% of injuries kept the student athlete out of play for more than three weeks.
 - Cheerleading had the highest proportion of injuries that kept the athlete out of play for more than three weeks.
 - o Across sports, 0.0% to 9.4% of injuries resulted in surgical repair either during or after the season.
 - Girls' lacrosse had the highest proportion of injuries that resulted in surgical repair in 2024/25.

Trends Over Time

Interpretation of trends over time becomes clearer through long-term surveillance efforts. Competition injury rates have remained relatively stable over time for each of the nine sports included in the original sample (**Figure 2**). In recent years, there has been an increase in the rate of girls' soccer competition injuries. We will continue to monitor the rate of competition injuries in girls' soccer in 2025/26 to determine if this is random fluctuation or a potential area of focus in terms of injury prevention efforts.

Overall injury rates in 2024/25 were slightly higher than in 2023/24 but were still lower than pre-pandemic levels (**Table 2**). The largest increase in concussion injury rates from 2023/24 to 2024/25 was in boys' soccer; however, this may be normal year to year fluctuation and rates were lower than before the pandemic. We will continue to monitor concussion rates in boys' soccer as well as in all sports in the 2025/26 academic year.

Impact

Data from this surveillance study have been used over the past year in multiple forums including:

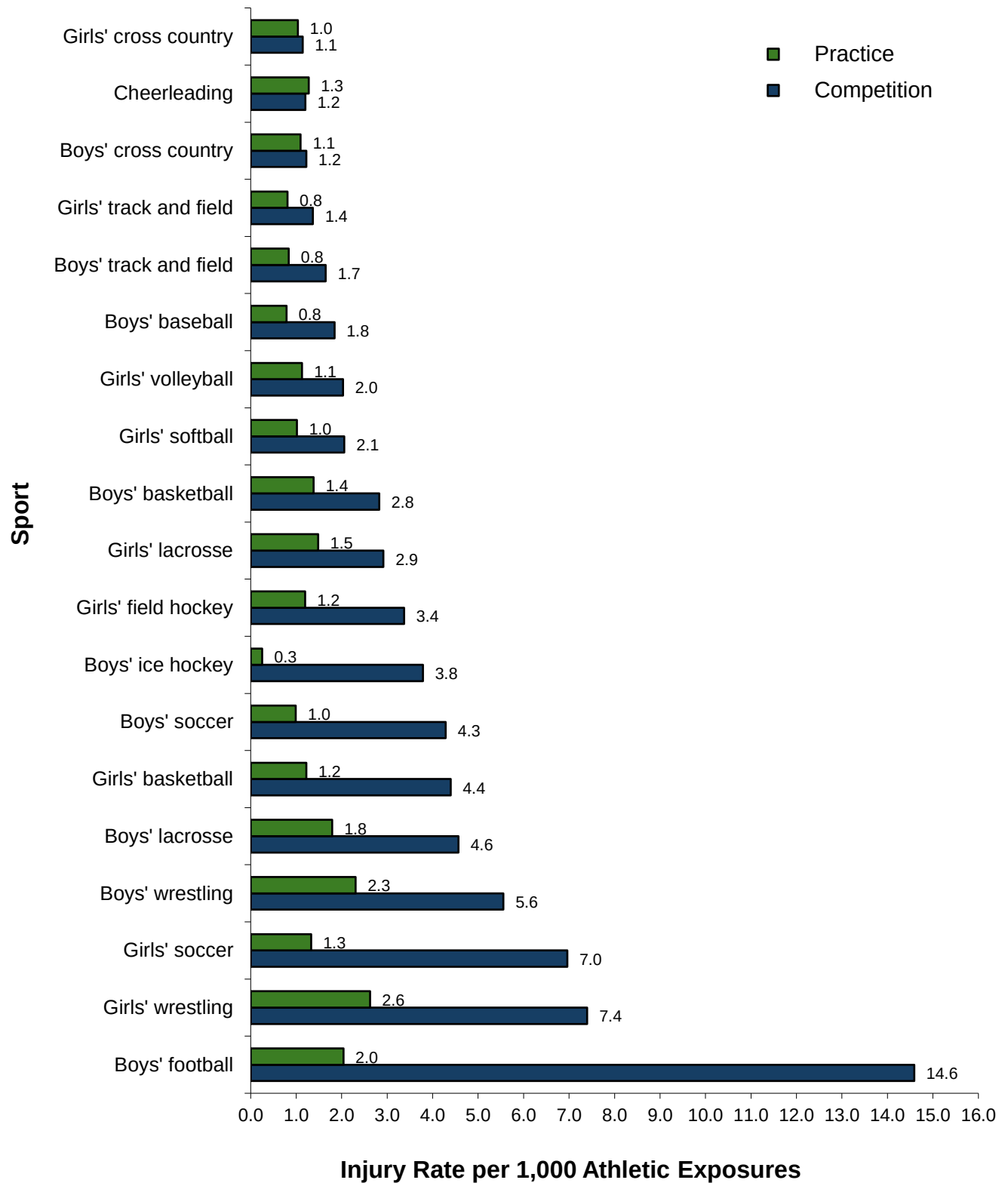
- NFHS Sports Medicine Advisory Committee (SMAC) review at NFHS SMAC committee meetings
- NFHS SMAC data requests to address topics of interest throughout the year
- NFHS Rules Committee reviews
- Continued evaluation of the effectiveness of several NFHS rule changes
- Weekly surveillance for infectious disease outbreaks (skin infections and COVID-19) and communication with affected schools or geographic areas to help contain the spread of the illness
- Weekly surveillance for exertional heat illness and communication with NFHS if increases are noted in specific geographic areas.
- State Associations and State Association SMACs data requests to address topics of interest
- Presentations at NFHS meetings
- Publications in the scientific literature and presentations at national scientific conferences

Future

Dr. Collins, along with the Datalys staff, will work with the NFHS, National Athletic Trainers' Association (NATA), and other partners to increase enrollment in High School RIO. Datalys will also work closely with reporting schools, the NFHS, NFHS SMAC, and NFHS Rules Committees throughout the year to continue to produce the data needed to help drive evidence-based decisions to keep athletes as healthy as possible.

- Detailed reports will be provided to the NFHS SMAC at their twice-yearly meetings as well as throughout the year upon request.
- Sentinel reports on specific topics of interest (i.e., exertional heat injuries and skin infections) will again be provided to the NFHS SMAC weekly throughout the year.
- Additional detailed reports will be provided upon request to individual NFHS Rules committees.
- Continued cooperation with State Associations and other partner organizations upon request.

Figure 1: Convenience Sample Injury Rates per 1,000 Athletic Exposures by Sport and Type of Athletic Exposure, National High School Sports-Related Injury Surveillance Study, U.S., 2024/25



**Cheerleading competition rate represents the rate of injury per 1,000 AEs in competition and performance.

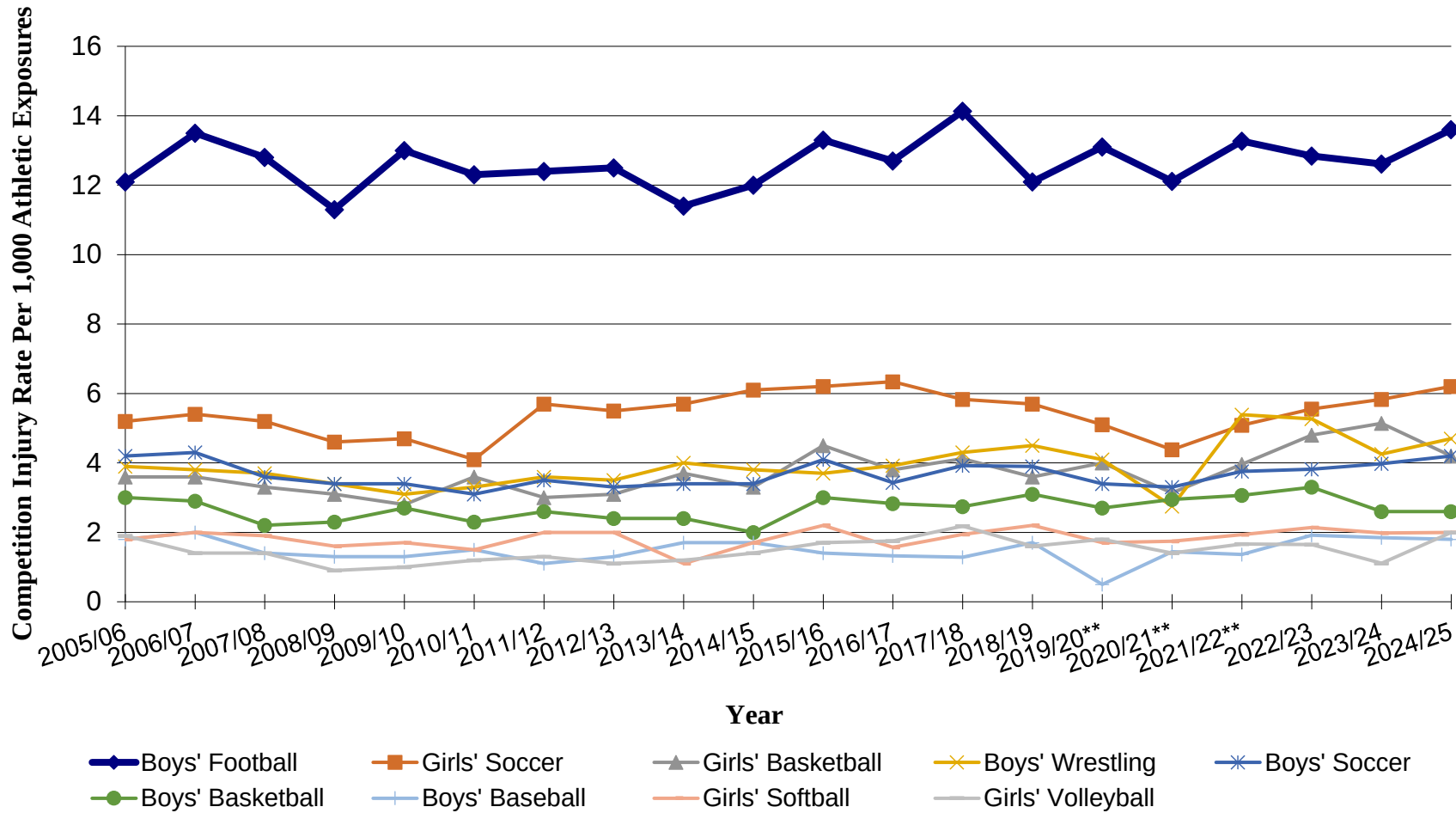
Table 1: Convenience Sample Patterns of Injury by Sport, National High School Sports-Related Injury Surveillance Study, U.S., 2024/25

Sport	Most Commonly Injured Body Site	Most Common Diagnosis of Injury	Proportion of Injuries with >3 Weeks Time Loss[†]	Proportion of Injuries that Resulted in Surgery^{††}
Boys' Sports				
Football	Head/Face	Strain/Sprain	8.4%	8.7%
Soccer	Ankle	Strain/Sprain	5.6%	2.4%
Basketball	Ankle	Strain/Sprain	3.9%	4.8%
Wrestling	Head/Face	Strain/Sprain	7.1%	4.8%
Baseball	Shoulder	Strain/Sprain	11.4%	6.8%
Ice Hockey	Head/Face	Concussion	11.3%	3.8%
Lacrosse	Ankle	Strain/Sprain	6.6%	4.8%
Track & Field	Thigh/Upper Leg	Strain/Sprain	7.9%	0.8%
Cross Country	Lower Leg	Strain/Sprain	3.3%	0.0%
Girls' Sports				
Soccer	Ankle	Strain/Sprain	4.8%	5.7%
Volleyball	Ankle	Strain/Sprain	7.5%	3.2%
Basketball	Ankle	Strain/Sprain	5.8%	6.4%
Wrestling	Head/Face	Strain/Sprain	5.5%	4.7%
Softball	Head/Face	Strain/Sprain	5.0%	5.0%
Field Hockey	Thigh/Upper Leg	Strain/Sprain	4.5%	2.2%
Lacrosse	Knee	Strain/Sprain	4.7%	9.4%
Track & Field	Lower Leg	Strain/Sprain	3.9%	2.0%
Cross Country	Lower Leg	Sprain/Strain	4.1%	0.0%
Coed' Sports				
Cheerleading	Head/Face	Concussion	16.4%	1.9%

[†]Includes "Returned to activity in 22 days or more" (i.e., does not include other categories such as season ending, career ending, etc.)

^{††}Includes injuries that were surgically repaired prior to return to play during the sport season and injuries that were repaired after the end of the season

Figure 2: Original Sample Trends over Time in Rates of Competition-Related Injury by Sport, National High School Sports-Related Injury Surveillance Study, U.S., 2005/06-2024/25*



*Includes only time loss injuries

**The COVID-19 pandemic may have affected these results.

Table 2. Original Sample Concussion National Estimates and Rates by Sport and Type of Exposure, National High School Sports-Related Injury Surveillance Study, U.S., 2005/06 – 2024/25 School Years

	2005-06	2006-07	2007-08**	2008-09**	2009-10**	2010-11**	2011-12**	2012-13**
Sport and Event Type	# of nationally estimated concussions (rate of concussions per 10,000 athlete-exposures)							
Overall total*†	134,965 (2.27)	123,864 (2.28)	137,802 (2.41)	149,699 (2.55)	192,051 (3.22)	249,655 (4.09)	333,253 (5.11)	348,565 (5.47)
Competition	92,795 (5.40)	87,749 (5.66)	95,957 (5.99)	109,645 (6.47)	135,983 (7.72)	186,804 (10.16)	210,457 (11.59)	231,621 (12.14)
Practice	42,170 (1.06)	36,114 (1.04)	41,846 (1.09)	40,053 (1.10)	56,067 (1.55)	62,847 (1.79)	122,796 (2.75)	116,944 (2.93)
Boys' football total	55,007 (4.66)	60,136 (4.80)	70,929 (5.29)	70,672 (5.20)	100,928 (7.20)	117,173 (8.20)	140,057 (9.41)	167,604 (11.08)
Competition	33,723 (15.48)	39,265 (18.53)	43,850 (19.82)	46,439 (19.09)	65,227 (27.34)	85,095 (33.73)	69,810 (31.12)	93,029 (35.50)
Practice	21,284 (2.12)	20,870 (2.12)	27,079 (2.41)	24,233 (2.37)	35,701 (3.36)	32,078 (3.11)	70,247 (5.31)	74,575 (6.02)
Boys' soccer total	21,972 (2.22)	15,355 (2.01)	17,447 (1.92)	14,215 (1.67)	20,247 (2.23)	30,716 (2.97)	41,813 (4.14)	46,511 (3.92)
Competition	19,761 (6.09)	12,316 (5.24)	13,847 (5.48)	10,253 (4.71)	18,456 (6.39)	25,858 (8.09)	34,751 (11.14)	38,972 (11.14)
Practice	2,212 (0.38)	3,039 (0.70)	3,600 (0.42)	3,962 (0.39)	1,791 (0.43)	4,858 (0.76)	7,062 (1.30)	7,539 (0.90)
Girls' soccer total	29,204 (3.61)	21,570 (2.26)	23,595 (2.65)	31,739 (3.53)	25,954 (2.96)	37,611 (4.19)	59,215 (7.34)	67,677 (7.87)
Competition	23,080 (9.95)	18,188 (6.50)	21,748 (7.91)	27,684 (10.24)	22,552 (8.23)	35,194 (12.20)	49,180 (21.82)	58,826 (22.99)
Practice	6,124 (0.82)	3,382 (0.52)	1,847 (0.41)	4,055 (0.69)	3,401 (0.67)	2,417 (0.51)	10,035 (1.45)	8,851 (1.46)
Girls' volleyball total	2,568 (0.50)	2,962 (0.68)	4,330 (1.00)	1,837 (0.32)	5,628 (0.88)	4,498 (1.06)	8,667 (1.70)	7,603 (1.72)
Competition	500 (0.46)	2,469 (1.51)	2,625 (1.97)	1,443 (0.62)	2,756 (0.95)	2,335 (1.61)	7,241 (3.94)	4,504 (2.26)
Practice	2,069 (0.53)	493 (0.28)	1,705 (0.53)	394 (0.16)	2,871 (0.85)	2,163 (0.77)	1,426 (0.55)	3,099 (1.42)
Boys' basketball total	3,513 (0.69)	4,452 (0.73)	4,179 (0.84)	4,247 (0.85)	11,013 (1.98)	11,699 (2.05)	11,011 (2.35)	13,076 (2.26)
Competition	1,639 (1.14)	3,403 (1.98)	2,418 (1.75)	3,439 (2.32)	7,985 (4.73)	8,083 (4.02)	7,648 (5.42)	7,055 (3.99)
Practice	1,874 (0.51)	1,049 (0.21)	1,761 (0.46)	808 (0.24)	3,028 (0.84)	3,616 (1.18)	3,363 (1.08)	6,021 (1.50)
Girls' basketball total	13,136 (2.20)	7,552 (2.04)	7,389 (1.81)	8,700 (1.98)	10,662 (2.02)	19,909 (4.21)	16,902 (3.65)	19,663 (4.53)
Competition	10,826 (6.38)	5,084 (4.48)	6,021 (4.90)	6,643 (5.13)	7,553 (5.02)	14,769 (9.77)	13,186 (8.85)	13,081 (10.14)
Practice	2,310 (0.53)	2,468 (1.00)	1,368 (0.50)	2,057 (0.67)	3,109 (0.69)	5,139 (1.79)	3,715 (1.52)	6,582 (1.98)
Boys' wrestling total	5,417 (1.74)	5,133 (1.54)	5,982 (1.45)	10,096 (2.16)	7,350 (2.15)	13,196 (3.81)	27,041 (5.70)	13,895 (4.89)
Competition	2,268 (3.23)	3,375 (3.43)	2,870 (2.75)	8,206 (5.65)	3,652 (3.49)	6,971 (6.75)	10,976 (8.25)	6,890 (8.28)
Practice	3,149 (1.27)	1,758 (0.87)	3,113 (0.98)	1,891 (0.90)	3,699 (1.65)	6,224 (2.76)	16,065 (4.76)	7,005 (3.63)
Boys' baseball total	1,450 (0.39)	2,747 (0.43)	523 (0.21)	1,858 (0.43)	2,990 (0.37)	6,391 (1.04)	8,594 (1.35)	4,773 (0.99)
Competition	846 (0.63)	1,982 (0.86)	459 (0.45)	1,637 (1.07)	2,735 (0.86)	4,527 (1.80)	6,013 (2.76)	3,245 (1.75)
Practice	605 (0.26)	765 (0.19)	64 (0.08)	221 (0.08)	255 (0.10)	1,863 (0.64)	2,582 (0.57)	1,528 (0.59)
Girls' softball total	2,695 (0.67)	3,957 (0.75)	3,428 (0.69)	6,332 (1.49)	7,279 (1.38)	8,462 (1.39)	19,953 (2.96)	7,763 (1.87)
Competition	152 (0.21)	1,667 (0.94)	2,119 (1.16)	3,901 (2.03)	5,067 (3.12)	3,972 (1.87)	11,652 (5.17)	6,019 (3.91)
Practice	2,543 (0.91)	2,290 (0.65)	1,309 (0.43)	2,432 (1.20)	2,212 (0.49)	4,489 (1.15)	8,301 (1.80)	1,744 (0.83)

*Overall totals represent only the nine sports from the original study which was randomly sampled; **Beginning in 2007/08, the definition of injury was expanded to include all concussions, regardless of whether or not they resulted in restriction of the student-athlete's participation; †Numbers do not always sum due to rounding; ††The COVID-19 pandemic may have affected these results.

Table 2 (Continued). Original Sample Concussion National Estimates and Rates by Sport and Type of Exposure, National High School Sports-Related Injury Surveillance Study, U.S., 2005/06 – 2024/25 School Years

Sport and Event Type	2013-14**	2014-15**	2015-16**	2016-17**	2017-18**	2018-19**	2019-20**††	2020-21**††
	# of nationally estimated concussions (rate of concussions per 10,000 athlete-exposures)							
Overall total*†	342,393 (5.30)	315,540 (5.63)	367,306 (5.81)	305,128 (5.43)	283,956 (5.39)	283,433 (5.24)	200,478 (4.75)	160,587 (2.76)
Competition	228,016 (12.01)	208,943 (13.24)	241,515 (13.69)	220,454 (12.87)	212,671 (13.15)	204,249 (12.91)	143,635 (13.42)	102,839 (6.71)
Practice	114,377 (2.71)	106,597 (2.78)	125,791 (2.78)	84,674 (2.49)	71,287 (2.26)	79,184 (2.22)	56,843 (1.68)	57,748 (1.36)
Boys' football total	161,874 (9.97)	141,715 (10.07)	150,249 (10.39)	132,361 (10.50)	114,876 (11.54)	116,846 (10.35)	82,495 (8.35)	72,319 (5.23)
Competition	96,275 (32.98)	83,364 (33.87)	90,689 (35.80)	85,678 (38.37)	81,923 (43.20)	77,672 (37.84)	54,912 (31.87)	44,322 (22.17)
Practice	65,599 (5.19)	58,351 (5.24)	59,560 (4.77)	46,683 (4.66)	32,953 (4.46)	39,174 (4.20)	27,583 (3.07)	27,997 (2.30)
Boys' soccer total	40,583 (4.38)	29,386 (4.10)	41,380 (4.44)	28,582 (3.34)	32,093 (3.36)	35,287 (3.65)	29,915 (4.02)	19,546 (2.18)
Competition	32,110 (12.10)	24,572 (11.10)	28,058 (9.87)	25,881 (9.47)	27,380 (8.82)	31,923 (10.46)	24,037 (11.83)	13,647 (5.17)
Practice	8,473 (0.93)	4,814 (0.99)	13,322 (1.95)	2,702 (0.62)	4,713 (0.89)	3,364 (0.60)	5,878 (0.59)	5,899 (1.07)
Girls' soccer total	58,946 (6.95)	78,490 (10.39)	76,447 (8.63)	64,707 (7.52)	66,140 (7.44)	56,904 (7.27)	36,781 (6.27)	23,918 (4.27)
Competition	50,990 (18.38)	59,226 (27.14)	63,317 (23.97)	58,188 (21.23)	56,364 (20.37)	44,760 (18.61)	28,097 (17.71)	16,656 (11.11)
Practice	7,956 (1.93)	19,264 (2.93)	12,830 (1.73)	6,519 (1.11)	9,776 (1.70)	12,144 (2.04)	8,684 (1.67)	7,262 (1.62)
Girls' volleyball total	10,874 (2.50)	13,246 (3.17)	16,471 (3.09)	14,734 (3.85)	12,927 (3.00)	10,925 (2.97)	9,975 (2.58)	8,398 (1.35)
Competition	4,791 (3.45)	6,713 (4.87)	8,013 (4.93)	8,718 (6.45)	7,646 (5.01)	6,325 (4.76)	6,203 (5.31)	4,486 (2.86)
Practice	6,083 (2.00)	6,533 (2.32)	8,458 (2.20)	6,016 (2.54)	5,282 (1.92)	4,600 (2.11)	3,772 (1.22)	3,912 (0.69)
Boys' basketball total	12,177 (2.13)	5,627 (1.16)	14,608 (2.57)	14,894 (2.54)	10,038 (1.86)	10,410 (2.07)	12,343 (2.14)	7,577 (1.10)
Competition	8,105 (4.25)	2,934 (1.90)	7,613 (5.09)	8,478 (4.66)	6,246 (3.73)	5,410 (4.57)	9,521 (5.35)	5,087 (2.13)
Practice	4,072 (1.18)	2,693 (0.84)	6,995 (1.51)	6,416 (1.58)	3,793 (1.03)	5,000 (1.01)	2,822 (0.76)	2,490 (0.71)
Girls' basketball total	20,927 (4.58)	17,824 (4.88)	29,111 (6.12)	17,314 (4.27)	16,410 (3.96)	19,555 (4.61)	15,331 (4.03)	8,035 (2.39)
Competition	15,713 (12.01)	12,960 (11.53)	19,723 (14.72)	14,218 (10.43)	12,679 (9.95)	14,373 (10.68)	12,471 (10.56)	5,217 (5.17)
Practice	5,214 (1.25)	4,864 (1.96)	9,388 (2.32)	3,096 (1.34)	3,731 (1.23)	5,182 (1.96)	2,860 (1.22)	2,818 (1.33)
Boys' wrestling total	20,431 (5.97)	14,191 (4.39)	22,448 (5.83)	13,334 (4.22)	13,114 (4.76)	18,543 (5.07)	9,732 (3.16)	6,161 (1.99)
Competition	11,205 (12.35)	11,017 (12.22)	11,490 (11.09)	7,624 (8.79)	7,003 (9.84)	13,147 (12.87)	6,802 (7.93)	4,624 (6.34)
Practice	9,226 (3.67)	3,174 (1.92)	10,958 (4.04)	5,710 (2.63)	6,111 (2.86)	5,396 (2.37)	2,930 (1.54)	1,537 (0.78)
Boys' baseball total	6,523 (1.07)	6,570 (1.49)	5,078 (1.05)	6,074 (1.07)	7,009 (1.17)	5,557 (1.00)	2,091 (0.91)	3,377 (0.47)
Competition	4,002 (1.95)	4,232 (2.99)	4,117 (2.50)	3,921 (1.79)	4,714 (2.03)	3,990 (1.81)	460 (2.32)	2,308 (0.65)
Practice	2,521 (0.58)	2,338 (0.67)	961 (0.27)	2,153 (0.64)	2,295 (0.68)	1,567 (0.55)	1,631 (0.70)	1,069 (0.37)
Girls' softball total	10,058 (1.57)	8,491 (2.51)	11,514 (2.26)	13,128 (2.69)	11,349 (2.56)	9,406 (2.74)	1,815 (1.18)	11,256 (2.79)
Competition	4,825 (1.96)	3,925 (4.23)	8,195 (4.03)	7,748 (3.94)	8,716 (4.86)	6,649 (5.06)	1,132 (3.86)	6,492 (4.53)
Practice	5,233 (1.37)	4,566 (1.59)	3,319 (1.32)	5,380 (1.97)	2,633 (1.32)	2,757 (1.46)	683 (0.50)	4,764 (1.85)

*Overall totals represent only the nine sports from the original study which was randomly sampled; ** Beginning in 2007/08, the definition of injury was expanded to include all concussions, regardless of whether or not they resulted in restriction of the student-athlete's participation; †Numbers do not always sum due to rounding; ††The COVID-19 pandemic may have affected these results.

Table 2 (Continued). Original Sample Concussion National Estimates and Rates by Sport and Type of Exposure, National High School Sports-Related Injury Surveillance Study, U.S., 2005/06 – 2024/25 School Years

	2021-22**††	2022-23**	2023-24**	2024-25**
Sport and Event Type	# of nationally estimated concussions (rate of concussions per 10,000 athlete-exposures)			
Overall total*†	222,757 (4.06)	244,907 (4.21)	254,126 (3.87)	229,260 (4.32)
Competition	154,437 (9.46)	168,482 (10.03)	175,657 (9.78)	160,132 (10.33)
Practice	68,320 (1.86)	76,425 (2.00)	78,469 (1.57)	69,128 (1.87)
Boys' football total	86,614 (8.21)	108,377 (7.88)	102,464 (7.09)	92,926 (8.49)
Competition	58,417 (30.10)	77,284 (31.84)	71,461 (29.27)	63,633 (31.71)
Practice	28,197 (3.43)	31,093 (2.90)	31,003 (2.45)	29,293 (3.40)
Boys' soccer total	20,857 (2.47)	15,496 (2.21)	18,099 (1.94)	27,087 (3.03)
Competition	16,344 (7.06)	11,116 (5.29)	13,047 (4.87)	23,324 (8.44)
Practice	4,513 (0.49)	4,381 (0.86)	5,052 (0.69)	3,763 (0.43)
Girls' soccer total	38,733 (5.45)	41,292 (5.63)	48,238 (6.08)	33,001 (5.23)
Competition	33,881 (15.16)	32,124 (14.72)	36,486 (15.87)	28,442 (13.68)
Practice	4,852 (0.95)	9,168 (1.70)	11,752 (1.83)	4,559 (1.31)
Girls' volleyball total	9,869 (2.11)	11,390 (2.07)	10,244 (1.68)	15,819 (2.76)
Competition	6,827 (4.00)	7,546 (3.71)	5,396 (2.66)	8,101 (4.57)
Practice	3,042 (1.09)	3,844 (1.20)	4,848 (1.14)	7,718 (1.75)
Boys' basketball total	11,524 (1.81)	8,834 (1.90)	11,014 (1.64)	7,547 (1.43)
Competition	7,263 (3.73)	4,334 (3.25)	7,013 (3.19)	3,708 (2.75)
Practice	4,261 (0.93)	4,501 (1.34)	4,001 (0.91)	3,838 (0.81)
Girls' basketball total	19,908 (4.66)	15,811 (4.22)	19,751 (4.51)	12,640 (3.59)
Competition	12,467 (9.59)	12,694 (10.92)	17,176 (11.84)	10,891 (9.15)
Practice	7,441 (2.41)	3,117 (1.37)	2,575 (1.02)	1,749 (0.87)
Boys' wrestling total	16,910 (3.50)	26,188 (5.15)	30,133 (4.51)	25,579 (4.73)
Competition	12,195 (8.87)	14,126 (7.77)	18,356 (10.20)	13,572 (10.53)
Practice	4,715 (1.67)	12,062 (4.29)	11,777 (2.51)	12,007 (2.77)
Boys' baseball total	3,781 (0.76)	3,754 (0.75)	2,751 (0.46)	3,717 (0.63)
Competition	1,096 (0.85)	1,583 (0.88)	1,327 (0.77)	3,011 (1.13)
Practice	2,685 (0.71)	2,171 (0.67)	1,425 (0.30)	706 (0.33)
Girls' softball total	14,561 (3.15)	13,764 (2.63)	11,432 (1.93)	10,945 (2.52)
Competition	5,947 (3.81)	7,675 (4.51)	5,395 (3.25)	5,450 (3.69)
Practice	8,614 (2.78)	6,089 (1.64)	6,036 (1.24)	5,494 (1.87)

*Overall totals represent only the nine sports from the original study which was randomly sampled; ** Beginning in 2007/08, the definition of injury was expanded to include all concussions, regardless of whether or not they resulted in restriction of the student-athlete's participation; †Numbers do not always sum due to rounding; ††The COVID-19 pandemic may have affected these results.