

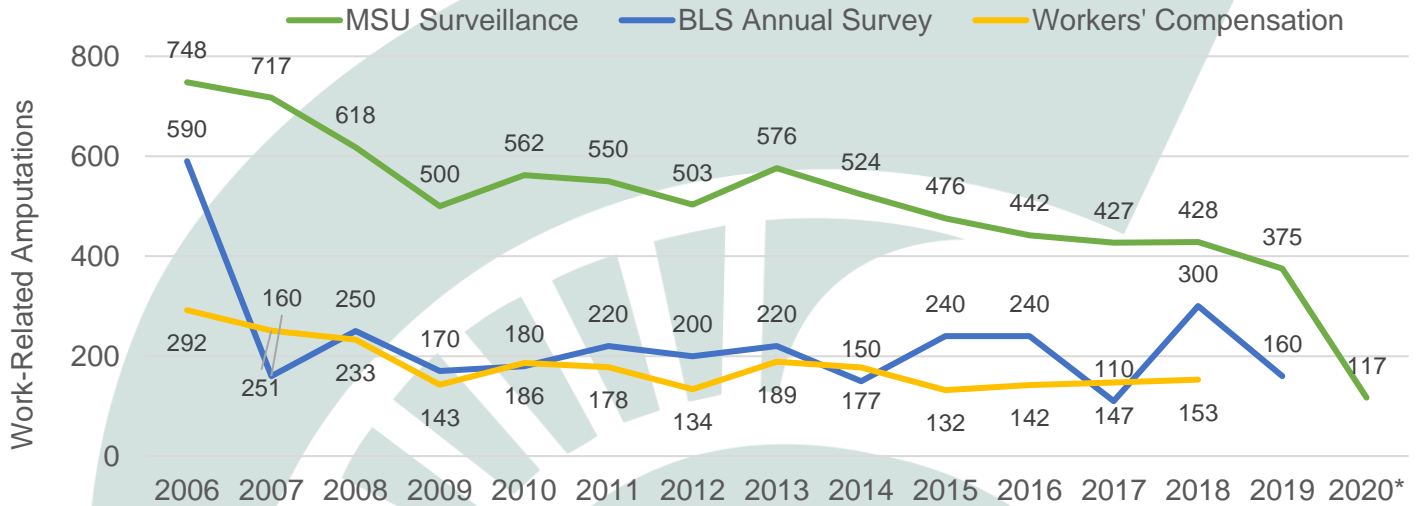
Tracking Work-Related Amputations in Michigan

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Summary Statistics

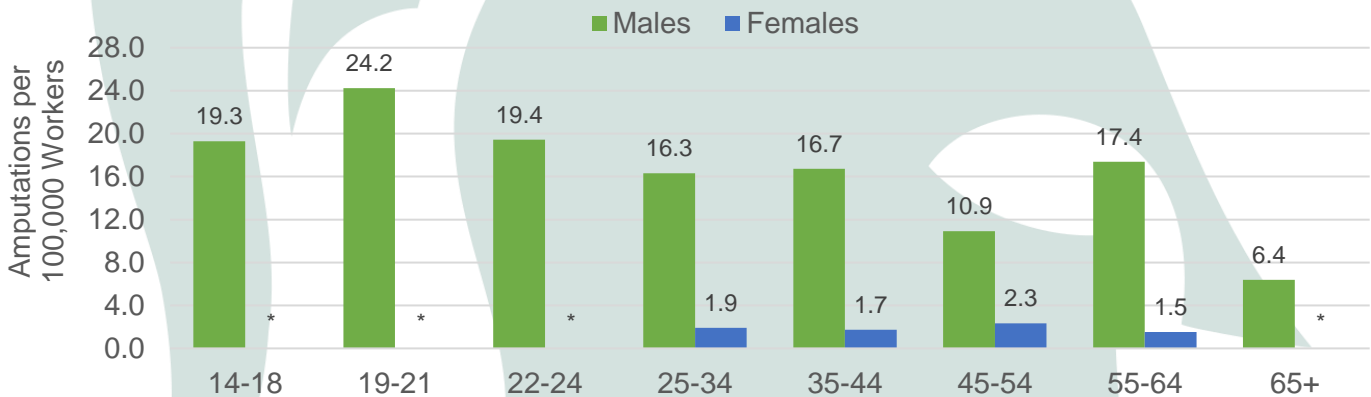
The MSU work-related amputation surveillance system identifies significantly more cases each year than other traditional sources, as illustrated in the figure below.

Work-Related Amputations by Source, Michigan 2006-2020



*2019 and 2020 MSU Surveillance data are preliminary as of 2/5/2021. BLS 2020 Annual Survey and 2019-2020 Workers' Compensation data are not available currently.

Work-Related Amputation Rate by Gender and Age Group, Michigan 2018



*Rates not shown when the number of amputations was between one and five or when the relative standard error was above 40.0% due to statistical unreliability.

Among all age groups, amputation rates are much higher for male workers than female workers. Males aged 19 to 21 years were at the highest risk of a work-related amputation.

Work-Related Amputation Rate by Body Part and Severity, Michigan 2018

The majority (94.2%) of work-related amputations involved fingers. Most finger amputations (65.5%) involve the distal phalanx. The sections that are most frequently amputated are presented in the table below.

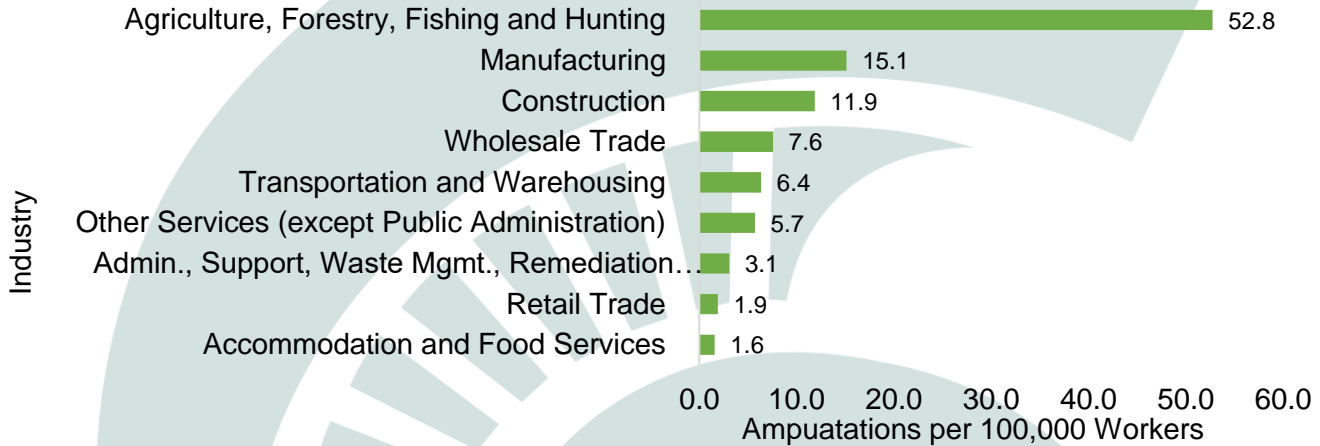
1 - Thumb	13.2%
2 - Index	29.3%
3 - Middle	18.5%
4 - Ring	14.1%
5 - Little	10.5%
6 - Multiple	13.4%

Background

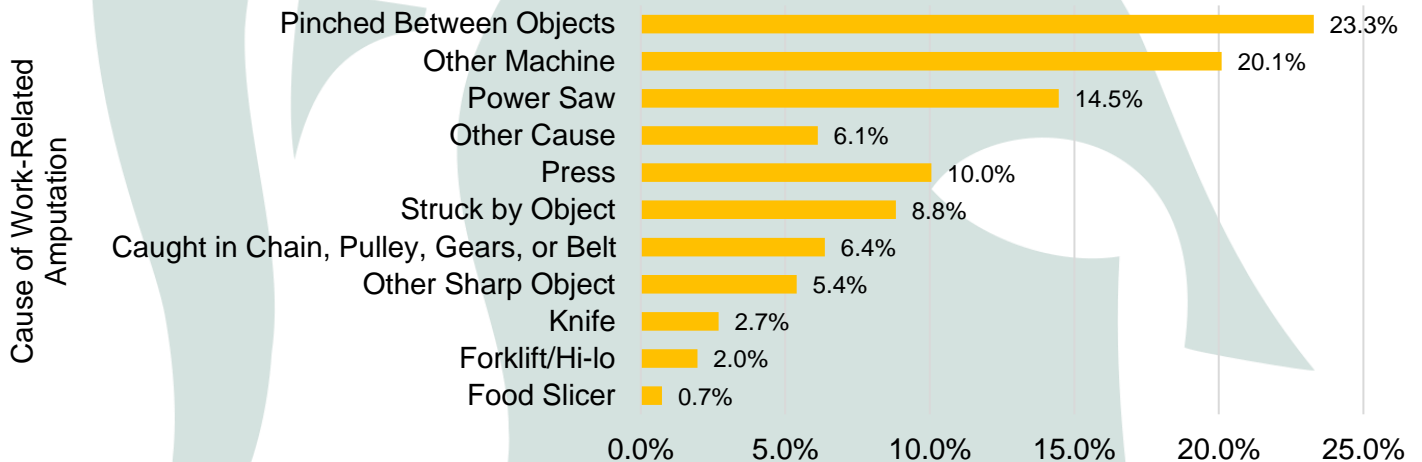
In 2004, staff in the Occupational and Environmental Medicine Division within Michigan State University's College of Human Medicine began reviewing hospital records to identify patients treated for work-related amputations and referring cases meeting designated criteria to MIOSHA. MIOSHA referrals were tracked through 2005. Beginning with 2006 data, a system to track all work-related amputations treated at Michigan hospitals was established. In addition, data were obtained from the Michigan Workers' Compensation Agency to supplement the hospital-based data and provide a more complete count of work-related amputations.

2018 Results

Work-Related Amputation Rate by Industry, Michigan 2018



Leading Causes of Work-Related Amputations, Michigan 2018*



*Excludes amputations with an unknown cause of injury

Work-Related Amputation Narratives

- A 58-year-old male was repairing a treadmill. The employee reached underneath while the treadmill was running and his finger was caught in the running belt, resulting in an amputation of the distal portion of his middle finger.
- A 19-year-old farm worker grabbed a moving chain and had his hand pulled into a grain auger. The employee had multiple fingertip amputations.

MICHIGAN STATE UNIVERSITY

Department of Medicine Occupational and Environmental Medicine East Lansing, MI 48824