# Manual And Powered Hand Tools — Landscaping Stats and Facts



# **FACTS**

Primary hazards and types of injuries associated with manual and powered hand tools.

#### 1. Cuts and Lacerations

 Powered Tools: Electric or gas-powered tools like chainsaws can cause severe cuts and amputations if safety guards are not used or if the operator loses control.

## 1. Eye Injuries

 Flying Debris: Both manual and powered tools can eject debris such as wood chips.

## 1. Musculoskeletal Disorders (MSDs)

 Vibration Exposure: Powered tools like chainsaws and trimmers can cause Hand-Arm Vibration Syndrome (HAVS), which affects circulation and nerve function in the hands and arms.

### 1. Burns and Electric Shocks

 Hot Surfaces: Tools with engines or motors can have hot surfaces that cause burns.

#### 1. Hearing Damage

 Noise Exposure: Powered tools produce high noise levels, leading to hearing damage over time.

#### 1. Puncture Wounds and Bruises

 Manual Tools: Spades, forks, and other digging tools can cause puncture wounds and bruises.

# **STATS**

- In 2018, there were approximately 31,350 injuries reported due to non-powered hand tools, which is nearly three times the number of injuries caused by powered hand tools.
- The U.S. Bureau of Labor Statistics reported around 205,000 injuries involving

the wrist, hand, and fingers that required time away from work. This corresponds to a rate of 29.6 incidents per 10,000 full-time workers across all private industries

- In the USA, power tools are responsible for approximately 960,000 injuries annually. About 200 fatalities each year are caused by power tool accidents
- Injuries from manual tools such as hammers and screwdrivers have increased by 2.44% since 2018.
- In Canada, males aged 18 to 64 account for over 48% of hospitalizations due to injuries from power tools. Females aged 65 to 84 also see a high rate of injuries, primarily due to inexperience with these tools.