

Introduction

Agricultural workers are exposed to a wide range of occupational and environmental health hazards. In this study, we analyzed injury claims among workers in Crop Production, Animal Production, and Support Activities for Crop Production and Animal Production in Florida from 2010-2019.

The aims of analyzing these claims are:

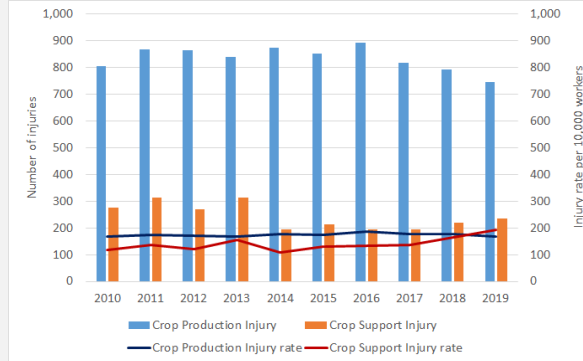
- to understand spatial and temporal distribution of nonfatal injuries
- to highlight their causes so that future incidents can be prevented.

Methodology

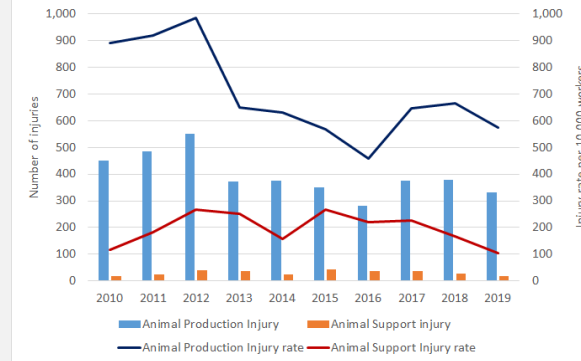
Workers' Compensation data from 2010 - 2019 was compiled by the Florida Department of Financial Services' Division of Workers' Compensation. Data includes date of accident, injury resulted in death, nature of accident, body part, cause of injury, city, state, county, zip code, and 6-digit NAICS (North American Industry Classification System) codes. Data analysis was done using Microsoft Excel and maps were developed using Tableau Desktop.

- Crop Production: 8351 nonfatal, 32 fatal
- Support Activities for Crop Production: 2453 nonfatal, 12 fatal
- Animal Production: 3947 nonfatal, 3 fatal
- Support Activities for Animal Production: 315 nonfatal, 1 fatal

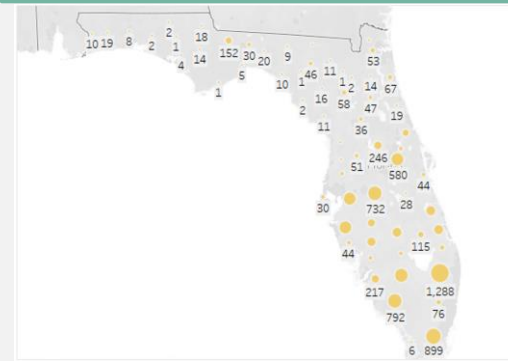
Injury Count and Injury Rate: Crop Production vs. Crop Support



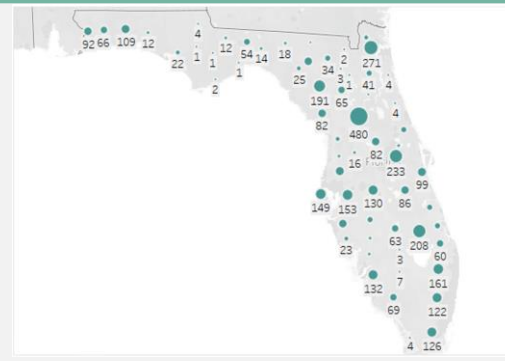
Injury Count and Injury Rate: Animal Production vs. Animal Support



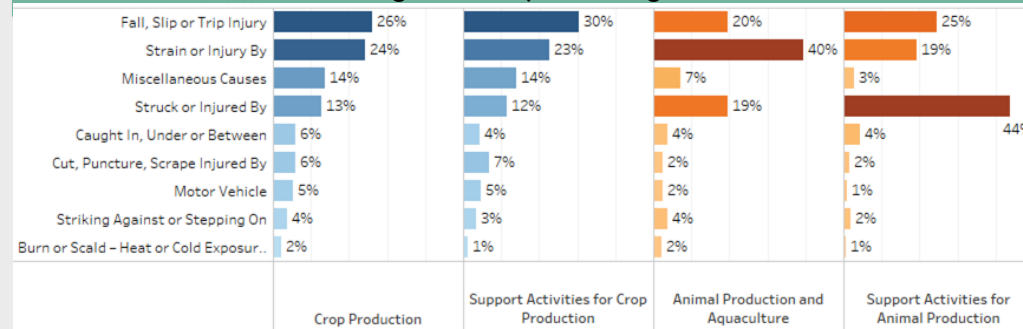
Crop Production & Support Activities for Crop Production



Animal Production & Support Activities for Animal Production



Cause/ Event Categories of Injuries in Agricultural Workers



Conclusion

Key findings:

- There were far more injuries in the crop production sector compared to the crop support sector. However, the injury rates were similar across the 10-year period.
- Injury rates for full-time workers in animal production were significantly higher than the rates for contracted workers in the same sub-sector.
- There is a higher concentration of injuries in North Florida for animal production & its industries than there are for Crop Production & its Industries in that region.
- There is a higher concentration of injuries in South Florida for crop production & its industries than for animal production & its industries.
- The primary causes of injuries in the crop production and crop production support industries were falls, slips, and trips in the workplace. In the animal production and animal production support industries, the primary causes were strains and striking injuries, respectively.

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