

**INDIANA  
DEPARTMENT  
OF LABOR**

# What's in a name?

How the BLS collects and publishes  
SOII and CFOI data

**Presenters:**  
**Kenneth Boucher**  
**Stacy Wart**  
**Joseph Black**

Tuesday, February 14, 2017

# Introduction

**Kenneth Boucher**

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## Who We Are

- Indiana Department of Labor (IDOL)
  - Quality Metrics and Statistics Team
- Agents of the Bureau of Labor Statistics (BLS)
- Small team with big expectations

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## What We Do

- Survey of Occupational Illnesses (SOII)
  - Coding and data maintenance
  - Survey of Hoosier businesses
- Census of Fatal Occupational Injuries (CFOI)
  - Coding and data maintenance
  - All work-related fatal injuries in Indiana

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The Bureau of Labor Statistics (BLS) ensures a pledge of confidentiality with all survey participants, we cannot share any confidential information.

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## Confidential Information

- Microdata
  - Company Names
  - Respondent Names
  - Employee Names
  - Addresses
  - Identifiable Respondent Information
- Documentation
  - Death Certificates
  - Police/Coroner Reports
  - OSHA Logs
  - Survey Responses
  - Employer Followback Questionnaires

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# If you are on the Survey of Occupational Injuries and Illnesses, **PLEASE DO NOT IDENTIFY YOUR COMPANY NAME.**

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## Topics

- Survey of Occupational Injuries and Illnesses (SOII)
  - What is the SOII?
  - SOII History
  - SOII Results
  - Uses of SOII data
  - Survey Methodology
- Census of Fatal Occupational Injuries (CFOI)
  - What is the CFOI?
  - CFOI History
  - CFOI Results
  - Uses of CFOI data
  - Census Methodology

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# Introduction to SOII

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## What is the SOII?

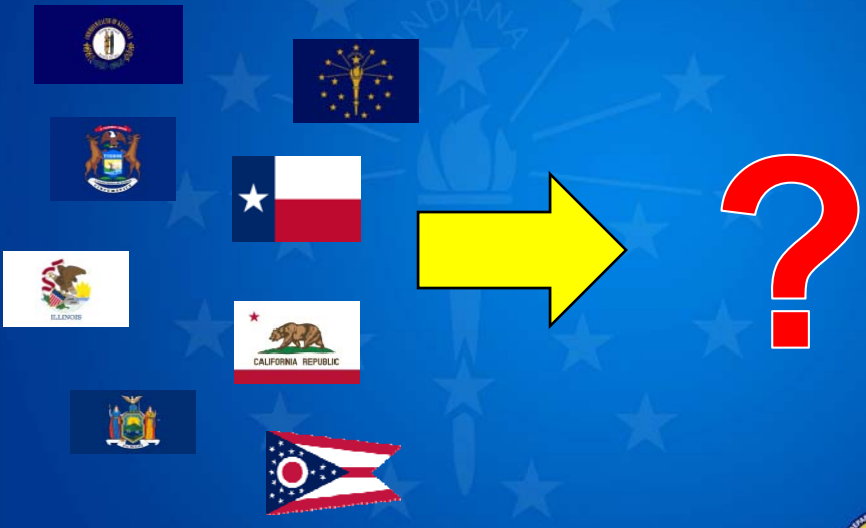
- 1975 - Survey of Occupational Injuries and Illnesses
- Estimates the number of work-related injuries and illnesses
- Mandatory survey
  - Bureau of Labor Statistics
  - OSHA Standard 1904.42
  - Public Law 91-596
- Random sample taken from all industries
- Data helps make American workplaces safer
  - Save lives and limbs of workers
  - Helps with an employer's bottom line

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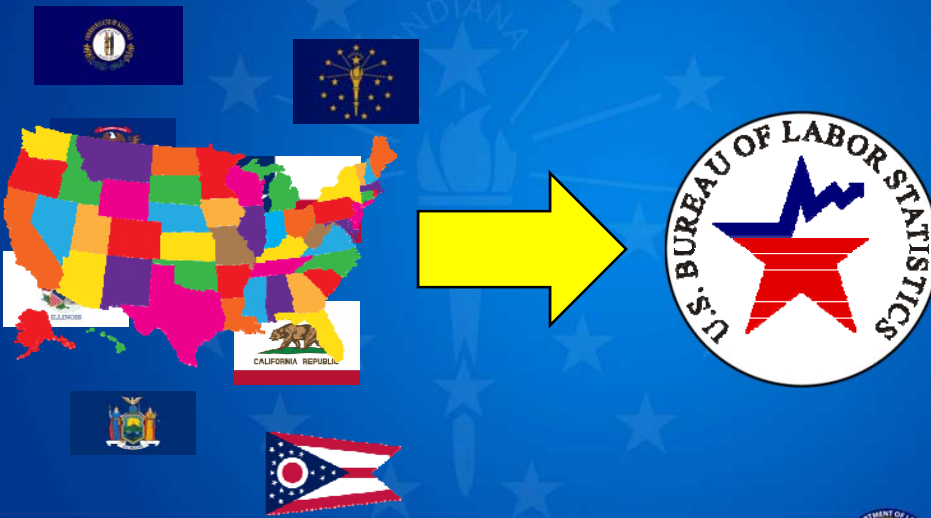
## Before 1975




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## After 1975



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## What is the SOII?

- Sample comes from Unemployment Insurance filings
  - 5,800 surveys per year
  - Represents dozens of Hoosier industries
- How is the data collected?
  - Addresses are refined
  - Data is constantly reviewed and checked

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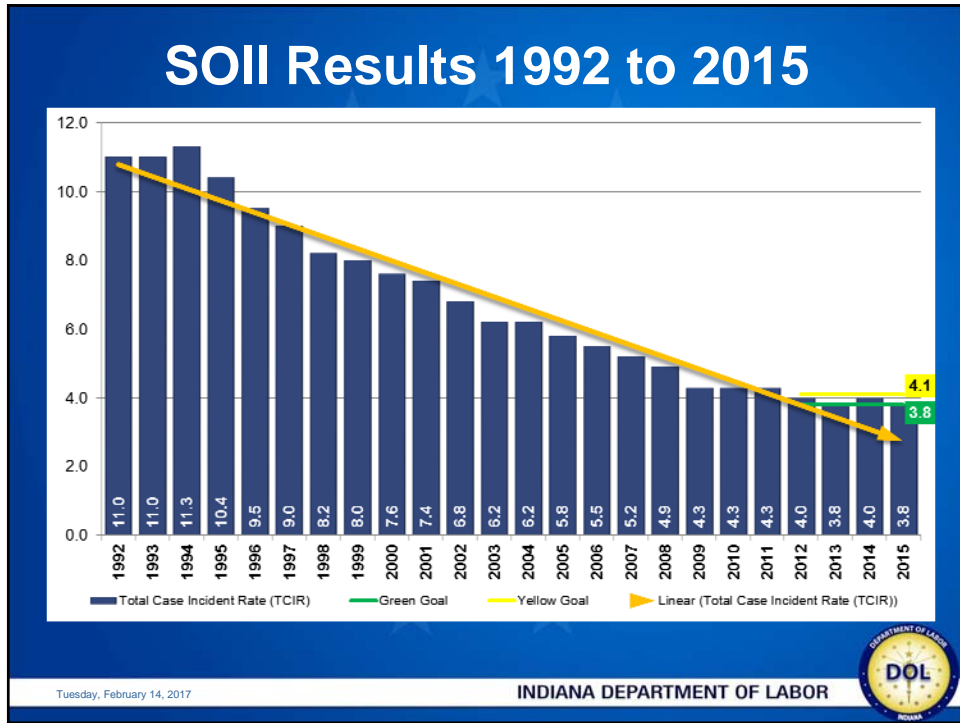
## SOII Results

- Injury and Illness Rate
  - National standard of measuring workplace safety
  - Estimated Number of Nonfatal Injuries per 100 Full-Time Workers
- Number of Injuries and Illnesses
  - Estimated Number of Occupational Injuries and Illnesses
- Totals:
  - Overall Nonfatal injuries
  - Nonfatal injuries by Industry
  - Nonfatal injuries by Event

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## SOII Results by Industry

Industry	2015	2014	2013	2012	2011
Agriculture, forestry, fishing and hunting	7.1	5.5	3.6	7.2	9.5
Arts, entertainment and recreation	6.3	6.2	4.4	5.2	4.9
Local government	5.8	6.7	6.0	5.9	5.3
Healthcare and social assistance	4.9	5.2	5.3	5.3	6.3
Manufacturing	4.7	4.9	4.8	5.3	5.2
Transportation and warehousing	4.6	4.4	3.9	4.5	4.6
Retail trade	4.0	3.7	3.4	3.6	3.7
Other services (except public administration)	3.6	3.0	2.7	3.6	3.9
Wholesale trade	3.2	3.2	2.9	4.0	3.6
Accommodation and food services	3.1	3.3	3.5	3.8	4.5
Construction	2.8	3.4	2.8	3.1	3.9
Mining	2.7	2.7	3.2	2.6	4.7
State government	2.6	3.0	2.7	2.9	3.2

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## Uses of SOII Data

- Indiana Department of Labor
  - Publications
    - IN Review
    - QMS Report
    - Brochures
    - Presentations
  - Outreach (INSafe)
    - Focus on high-hazard industries
  - Enforcement (IOSHA)
    - Focus on high-hazard industries
- Safety Managers
  - Better understand industry hazards

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## SOII Methodology

Stacy Wart

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## What Data is Required?

- OSHA 300A Summary
- OSHA form 301
  - Work related injuries and illness with DAFW or DJTR day(s)
- Recordable Injuries and illness that happened January 1<sup>st</sup> through December 31<sup>st</sup> of the survey year

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## In-Scope

- In-Scope
  - All Hoosier industries
  - New ownership performing the same work (NAICS)
  - Businesses with partial year data (2 or more months)

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## Sampled Industries

- North American Industrial Classification System (NAICS)
  - 6-Digit Code
- 200+ Industries Surveyed
  - Sector
    - Subsector
      - Down to at least 3-digit NAICS

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## Out-of-Scope

- Out-of-Scope
  - Sole proprietorships
  - Farms with 10 or fewer employees
  - Business open for less than the first month of the year
  - Injuries and illness
    - Treated only with first aid
    - Not attributable to the workplace
    - Happened at home (unless working at home)
    - Employees who passed away on the job

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## DAFW and DJTR day(s)

- Full working day
- Weekends and holidays included in counts
  - The day of the injury does not count
  - The return to work day does not count
- Days continue into new year
  - Reported in year of incident
- 180 day reporting rule includes DAFW & DJTR combined
- DAFW day(s) are considered as the more severe outcome
- Counted separately on both the OSHA 300A and 301

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## Other Common Reporting Errors

- Counting average employment
- Total work hours
- Reporting out of state employees
- Reporting beyond the scope of the unit description

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## Am I on the SOII?

- Receive a Notice of Recordkeeping Requirements
- Instructions for Completing the SOII
  - Includes list of required data
  - How to submit the data
  - Timeframe for reporting
- We follow-up on non-responses

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## Calculating Injury and Illness Rates

EH = total hours worked by all employees during the calendar year

N = number of recordable injuries and illnesses

$$N / EH \times 200,000 = \text{Injury and Illness Rate}$$

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## Calculating Injury and Illness Rates

EH = total hours worked by all employees during the calendar year

N = number of recordable injuries and illnesses

EH = 50,000 employee hours worked

N = 2 injuries

$$2 / 50,000 \times 200,000 = 8.0$$

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## Introduction to CFOI

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# What is the CFOI

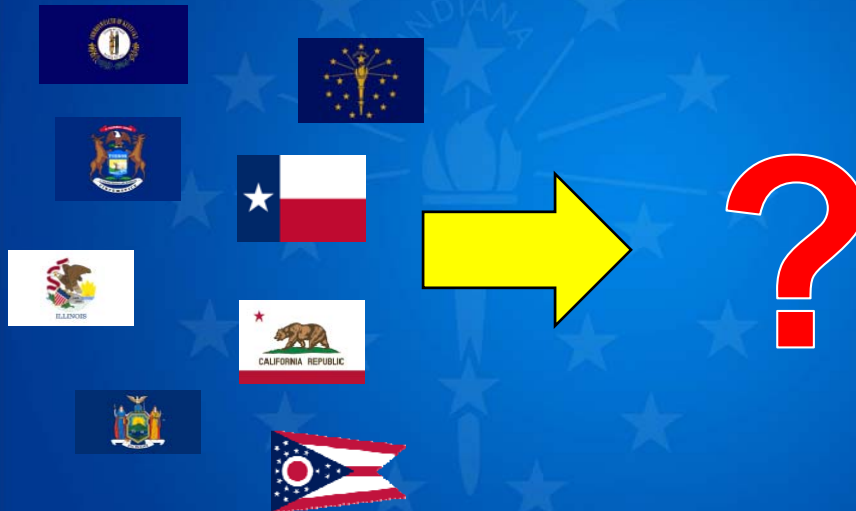
- 1992 - Census of Fatal Occupational Injuries
- CENSUS - Not a survey
  - Includes all work-related fatal injuries we can find
- Does not include most workplace illnesses

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# Before 1992



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## After 1992



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## What is the CFOT?

- Any report of a fatality that appears to be work-related
  - OSHA Reports
  - Death Certificates
  - Police Reports
  - First Reports of Injury (Worker's Compensation)
  - News Articles
  - Social Media

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# CFOI Results

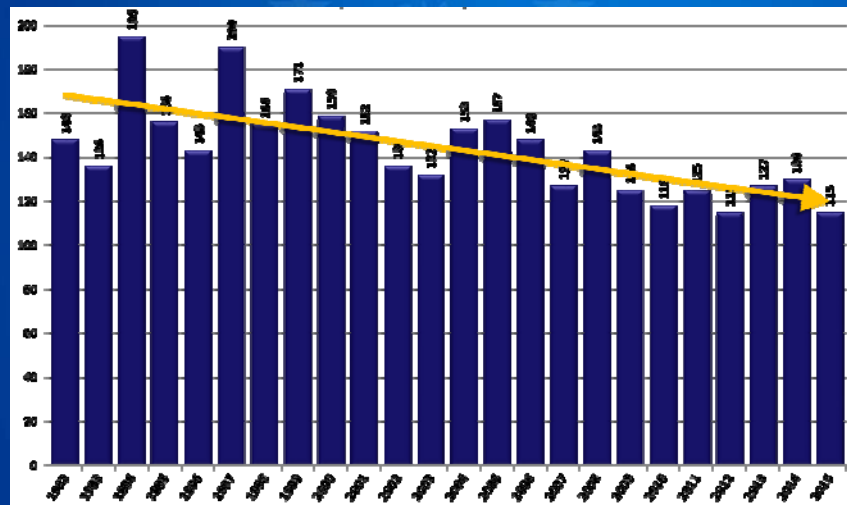
- Number of Fatal Occupational Injuries
  - Not an estimate
- Fatal Injury Rate
  - Per 100,000 Full-Time Employees
- Totals:
  - Overall number of fatal injuries
  - Fatalities by Industry
  - Fatalities by Event

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# CFOI Results 1992-2015



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## CFOI Results by Industry

Industry	2015	2014	2013	2012	2011
Transportation and warehousing	27	13	27	21	25
Agriculture, forestry, fishing and hunting	23	28	18	16	16
Manufacturing	12	10	12	11	14
Construction	11	18	15	20	19
Administrative and waste services	8	12	6	10	5
Other services, except public administration	7	11	12	4	7
Accommodation and food services	7	5	-	1	3
Retail trade	4	8	9	7	8
Health care and social assistance	4	3	3	-	-
Wholesale trade	3	9	9	8	10

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## Uses of CFOI Data

- Indiana Department of Labor
  - Publications
    - IN Review
    - QMS Report
    - Brochures
  - Outreach
    - Focus on high-hazard industries
  - Enforcement
    - Focus on high-hazard industries

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## Jurisdictional Issues

- Roadway Motor Vehicle Accidents
  - No single agency has jurisdiction
- Agricultural Accidents
  - Largely exempt from OSHA enforcement
- Workplace Violence
  - Difficult to predict
  - Difficult to protect against

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## Reporting Differences

- OSHA
  - All fatal work-related injuries and/or illnesses must be reported within 8 hours
    - No jurisdiction to investigate fatal automobile accidents
    - No jurisdiction to investigate non-employees
    - Limited jurisdiction to investigate farms
- Worker's Compensation
  - Reports based on Worker's Compensation coverage
  - No reports for independent contractors
- CFOI
  - All fatal work-related injuries
  - Does not include most workplace illnesses

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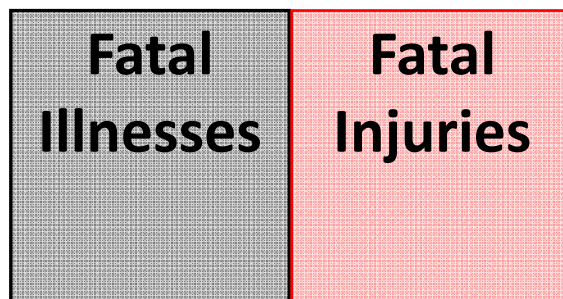


# **All Occupational Injuries and Illnesses**

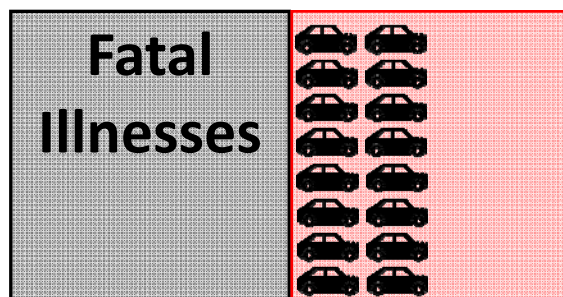
# **All Occupational Injuries and Illnesses**

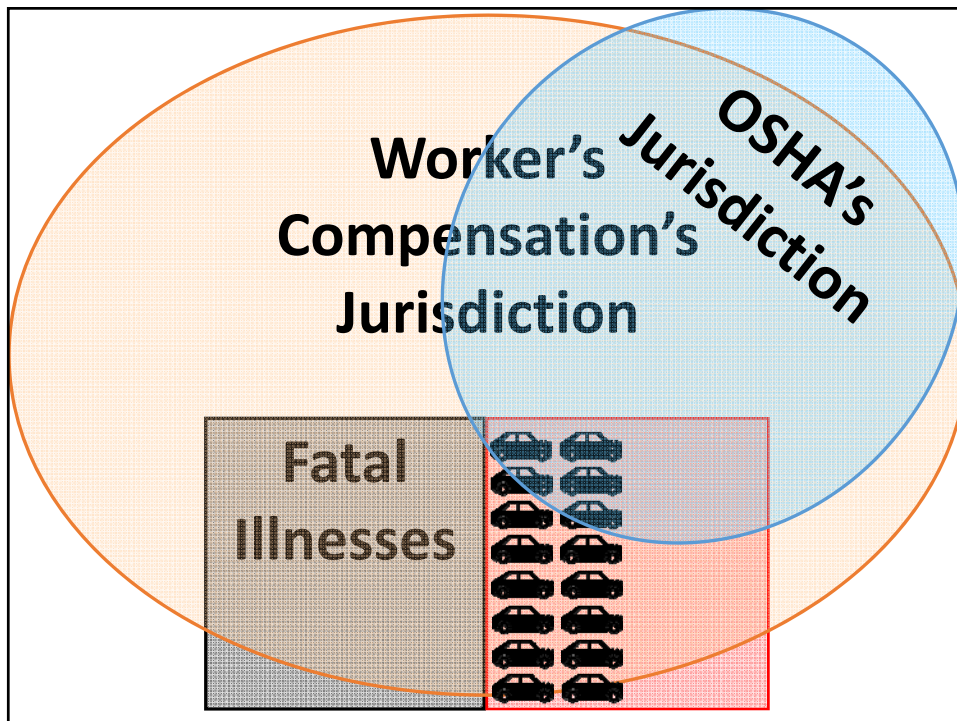
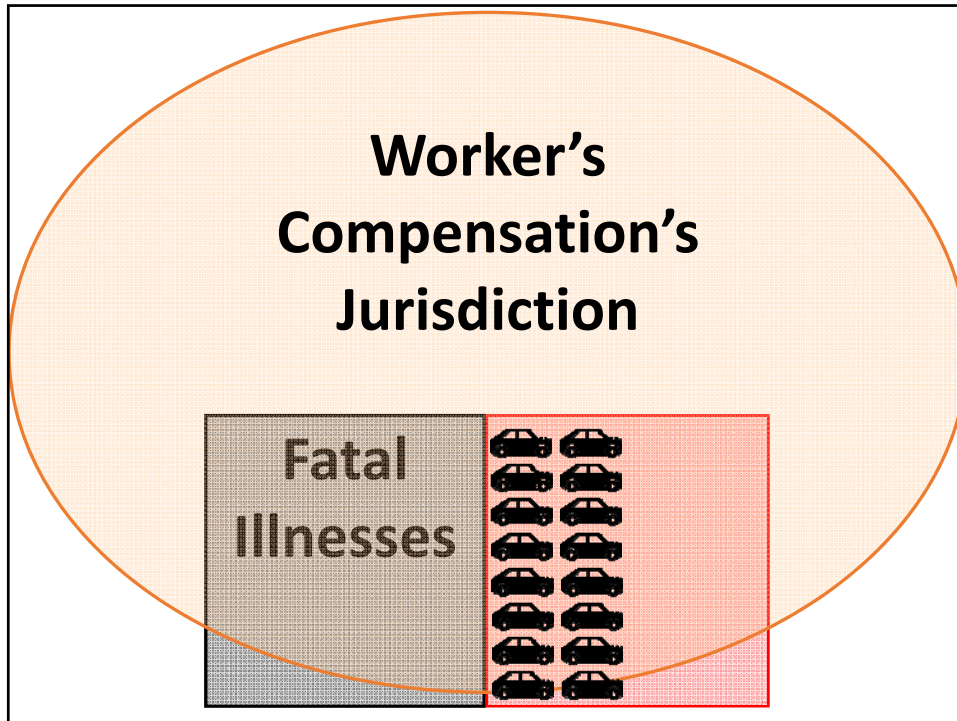
**Fatal  
Illnesses**

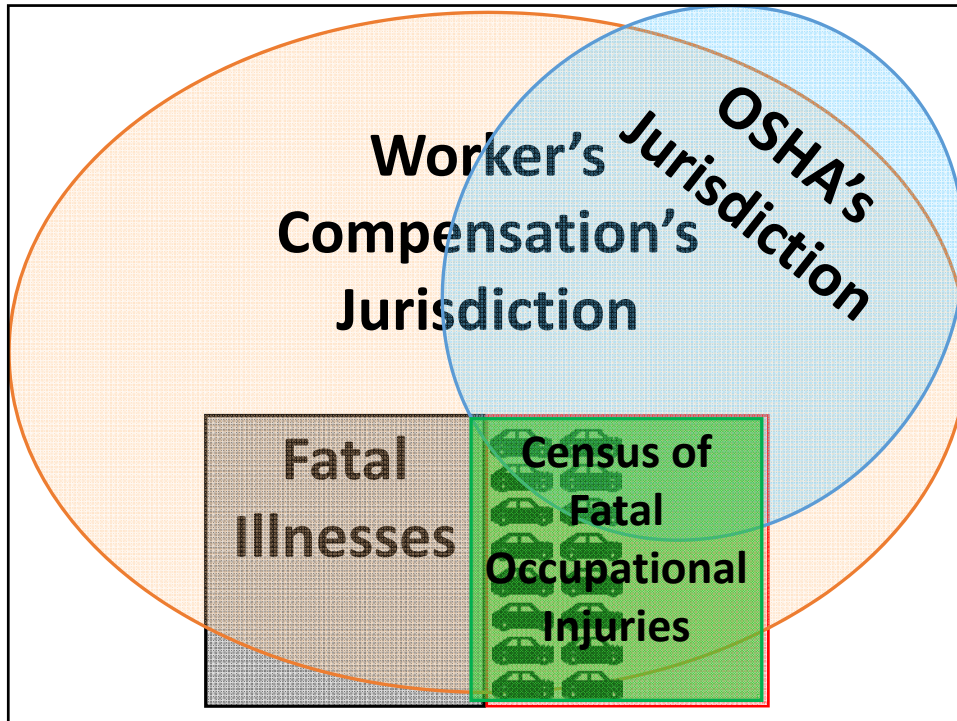
# All Occupational Injuries and Illnesses



# All Occupational Injuries and Illnesses







# CFOI Methodology

Joe Black

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## In-Scope/Out-of-Scope

- In-Scope
  - Fatal occupational injury

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## Fatal Injury Determination

- Open wounds
- Intracranial and internal injuries
- Heatstroke and sunstroke
- Hypothermia and hyperthermia
- Poisonings and asphyxiation resulting from a short-term exposure
- Suicides and homicides
- Immediate, underlying or contributory cause of death
- Official cause of death is an accident, homicide or suicide
- Heart attack or stroke if listed as a work injury

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## In-Scope/Out-of-Scope

- In-Scope
  - Fatal occupational injury
  - Work-relationship
  - Suicides and Homicides
  - Travel status

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## Establishing Work Relationship

- The event or exposure occurred on the employer's premises and the person was there to work OR
- The event or exposure occurred off of the employer's premises and the person was there to work OR
- The event or exposure was related to the person's work or status as an employee

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## Employer's Premises/Work Definitions

- Buildings, grounds, parking lots and other facilities
- "Work"
  - Produces a product or service
  - In exchange for money, goods, services, profit or benefit, and
  - Legal in the United States

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## Clarifications on Work-Relationship

- Commuting
  - Out-of-Scope
- Undocumented workers
  - In-Scope
- Volunteer workers
  - In-Scope if they meet the work-relationship criteria
  - Performs the same duties and functions as paid workers
- Suicides & homicides
  - In-Scope if they meet the work-relationship criteria
- Travel
  - Employee was in travel status
  - Travel was work-related or a condition of employment

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# In-Scope/Out-of-Scope

- In-Scope
  - Fatal occupational injury
  - Work-relationship
  - Suicides and Homicides
  - Travel status
- Out-of-Scope
  - Not work related

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# In-Scope/Out-of-Scope

- In-Scope
  - Fatal occupational injury
  - Work-relationship
  - Suicides and Homicides
  - Travel status
- Out-of-Scope
  - Not work related
  - Illnesses with no injury component

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## Illness Without Injury

- Natural Causes
  - Heart Attacks
  - Strokes
  - Respiratory Infections
- Injury Component
  - Heart Attack caused by overexertion
  - Respiratory distress caused by exposure to harmful substance

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## In-Scope/Out-of-Scope

- In-Scope
  - Fatal occupational injury
  - Work-relationship
  - Suicides and Homicides
  - Travel status
- Out-of-Scope
  - Not work related
  - Illnesses with no injury component
  - Institutionalized persons

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# Institutionalized Persons

- Out-of-Scope
  - Incarcerated offenders (inmates)
  - Patients
    - Mental institutions
    - Sanitariums
    - Homes for the aged, infirm or needy

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# In-Scope/Out-of-Scope

- In-Scope
  - Fatal occupational injury
  - Work-relationship
  - Suicides and Homicides
  - Travel status
- Out-of-Scope
  - Not work related
  - Illnesses with no injury component
  - Institutionalized persons
  - Recreational Activities

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# Recreational Activities

- Not required by the employer
- Participation is voluntary
- Does not otherwise meet work relationship

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# Wrap Up

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## Topics

- Survey of Occupational Injuries and Illnesses (SOII)
  - What is the SOII?
  - SOII History
  - SOII Results
  - Uses of SOII data
  - Survey Methodology
- Census of Fatal Occupational Injuries (CFOI)
  - What is the CFOI?
  - CFOI History
  - CFOI Results
  - Uses of CFOI data
  - Census Methodology

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## Additional Information

- BLS SOII and CFOI Programs
  - [www.bls.gov/respondents/home.htm](http://www.bls.gov/respondents/home.htm)
- BLS Data Tools
  - [www.bls.gov/data](http://www.bls.gov/data)
- Indiana Department of Labor
  - [www.in.gov/dol](http://www.in.gov/dol)
- Federal OSHA
  - [www.osha.gov](http://www.osha.gov)

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# Questions?

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