National Institute for Occupational Safety and Health

Using Surveillance to Identify High-Risk Industries and Occupations in Alaska

Alaska Occupational Injury
Surveillance System
(AOISS)

Krystal Mason September 30, 2016

The findings and conclusions in this presentation have not been formally disseminated by CDC/NIOSH and should not be construed to represent any agency determination or policy.



Occupational Fatality Rates for the U.S. vs Alaska in 1980s

(per 100,000 workers)



5x Greater



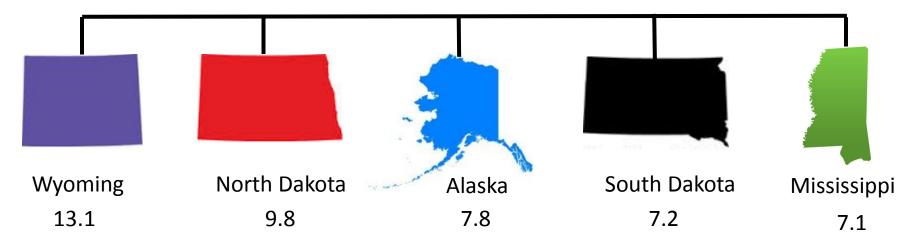






BLS CFOI Data for 2014





Alaska Ranks 3rd Highest

In Occupational Fatality Rates









Alaska has Unique Hazards









Epidemiologists



What my friends think I do



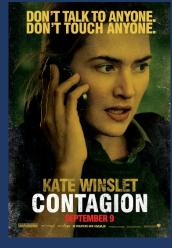
What my parents think I do



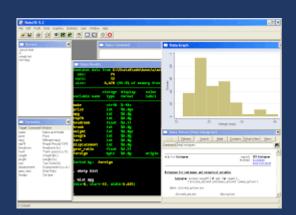
What society thinks I do



What the government thinks I do



What I think I do



What I really do



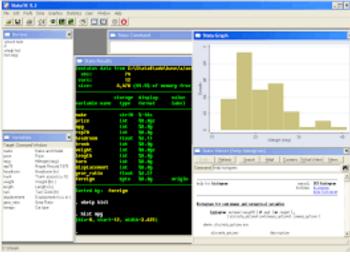
What I really do

Alaska Dispatch News















WSD | ALASKA

Collaborative Partners



















Alaska Dispatch News

Alaska News

NTSB: Plane in Birchwood crash that killed 4 was struck by bald eagle

Crime & Justice

Kodiak murder suspect claimed self-defense, police say

Alaska News

Troopers retrieve body from fatal Kodiak Island lodge fire

Author: Jerzy Shedlock
 ⊕ Updated: 6 days ago
 ⊞ Published 6 days ago









Information Collected in AOISS



Incident Details

- Unique ID
- Date
- Location
- Event summary

Victim Details

- Unique ID
- Demographics
- Industry (NAICS)
- Occupation (SOC)









Flexible Data Entry Categories

Industry Specific

Aviation Incidents CFIT			Event Specific		
Aircraft Type		•		PFD Worn	•
				ImSuit Worn	•
Commercial Fishing Incidents				Safety Belt	_
CFID ID#		Species	•		
Incident Type		Vessel Activity	•		
Vessel Name					
# Onboard					

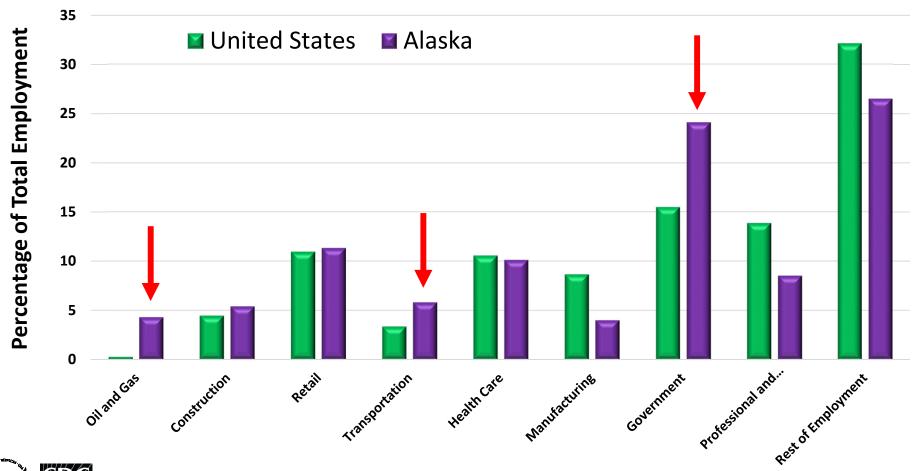








Percent of Total Employment by Major Industry, Alaska vs United States, 2015



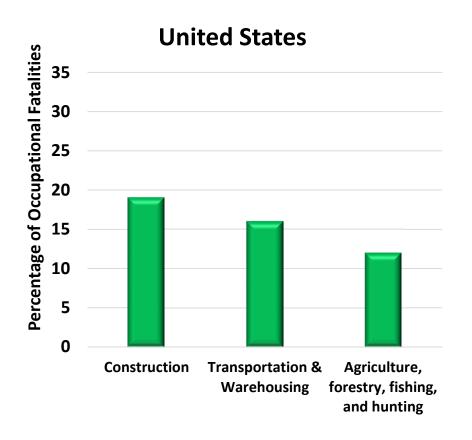


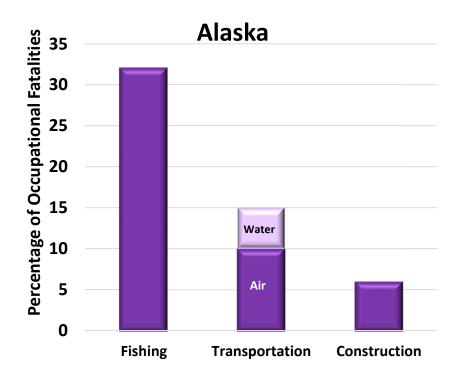






Top Percentages of Occupational Fatalities by Industry Total in 2014

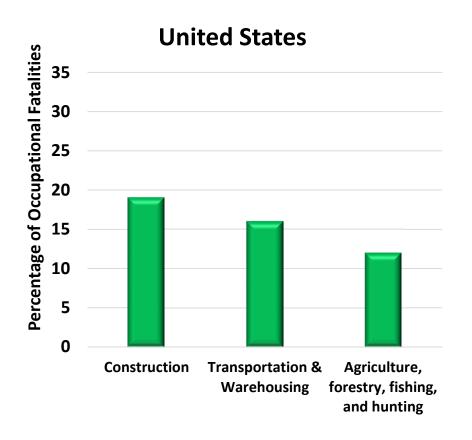


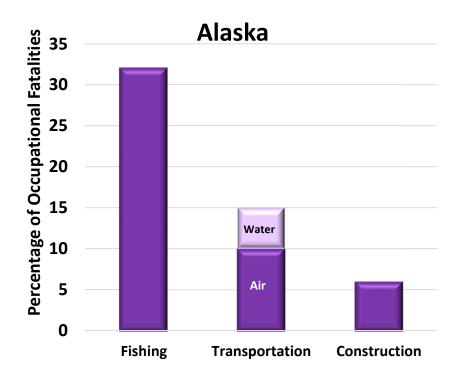






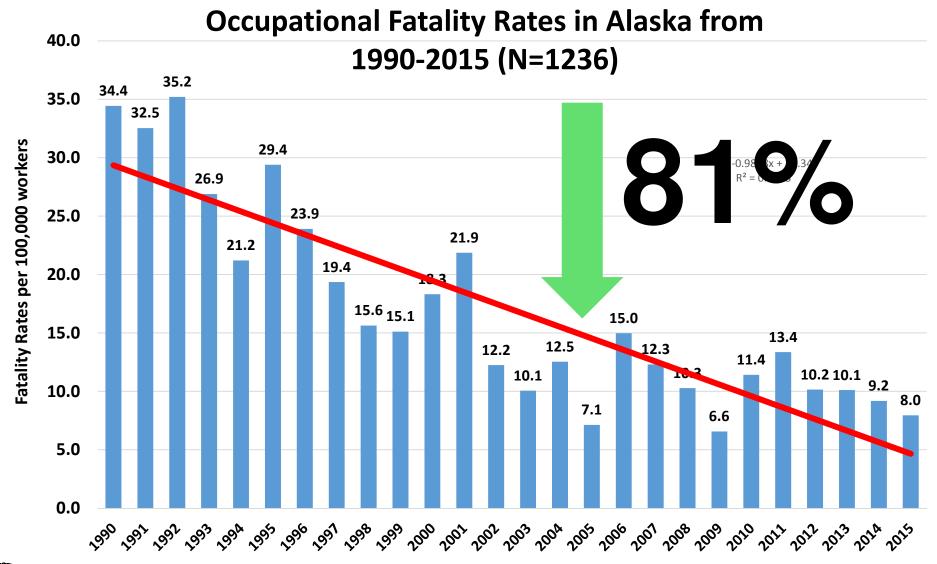
Top Percentages of Occupational Fatalities by Industry Total in 2014







WSD | ALASKA









WSD | ALASKA

The Occupations with the Highest Number of Fatalities in Alaska, 2000-2015

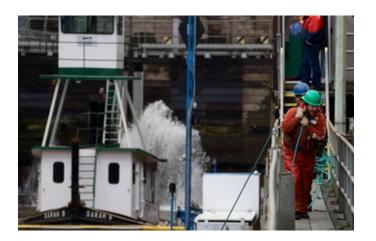


Commercial Fishermen 182



Commercial Pilots

76



Water Transportation Workers

44





Source: AOISS

*Water transportation workers includes sailors and marine oilers; captains, mates, pilots of water vessels, motorboat operators, ship engineers



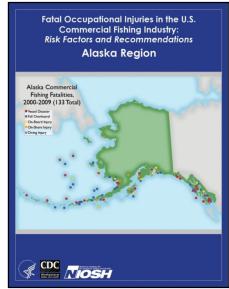
Commercial Fishing











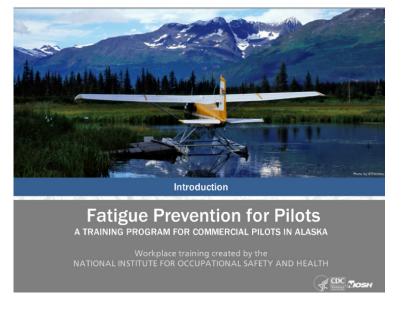




Commercial Pilots











Water Transportation Workers

















Conclusions

- Provides the data on which worker populations are most at-risk for fatal injuries to inform research projects and identify areas of intervention
- Provides up-to-date information
- Contains in-depth details over last 25+ years
- Allows flexibility for adding variables
- Highlights the importance of regional surveillance systems





