

HEALTH-RELATED RESULTS FROM THE FLIPP STUDY

Laurel Kincl, PhD, CSP
College of Public Health and Human Sciences
Oregon State University



OSU

Viktor Bovbjerg, PhD, MPH, EMT
Amelia Vaughan, MLIS
Kaety Jacobson, MS (formerly OR Sea Grant)
Sabrina Pillai, MPH

NIOSH Western States Division

Samantha Case, MPH
Devin Lucas, PhD
Laura Syron, MPH, PhD



Oregon State
University

Fishermen Led Injury Prevention Program (FLIPP)

- Non-fatal injury investigation
 - Injury characteristics
 - Perceptions of staying safe, injury causation
 - Identification of opportunities
- Fishery specific study
- Community engagement with injury prevention
(first conversation)

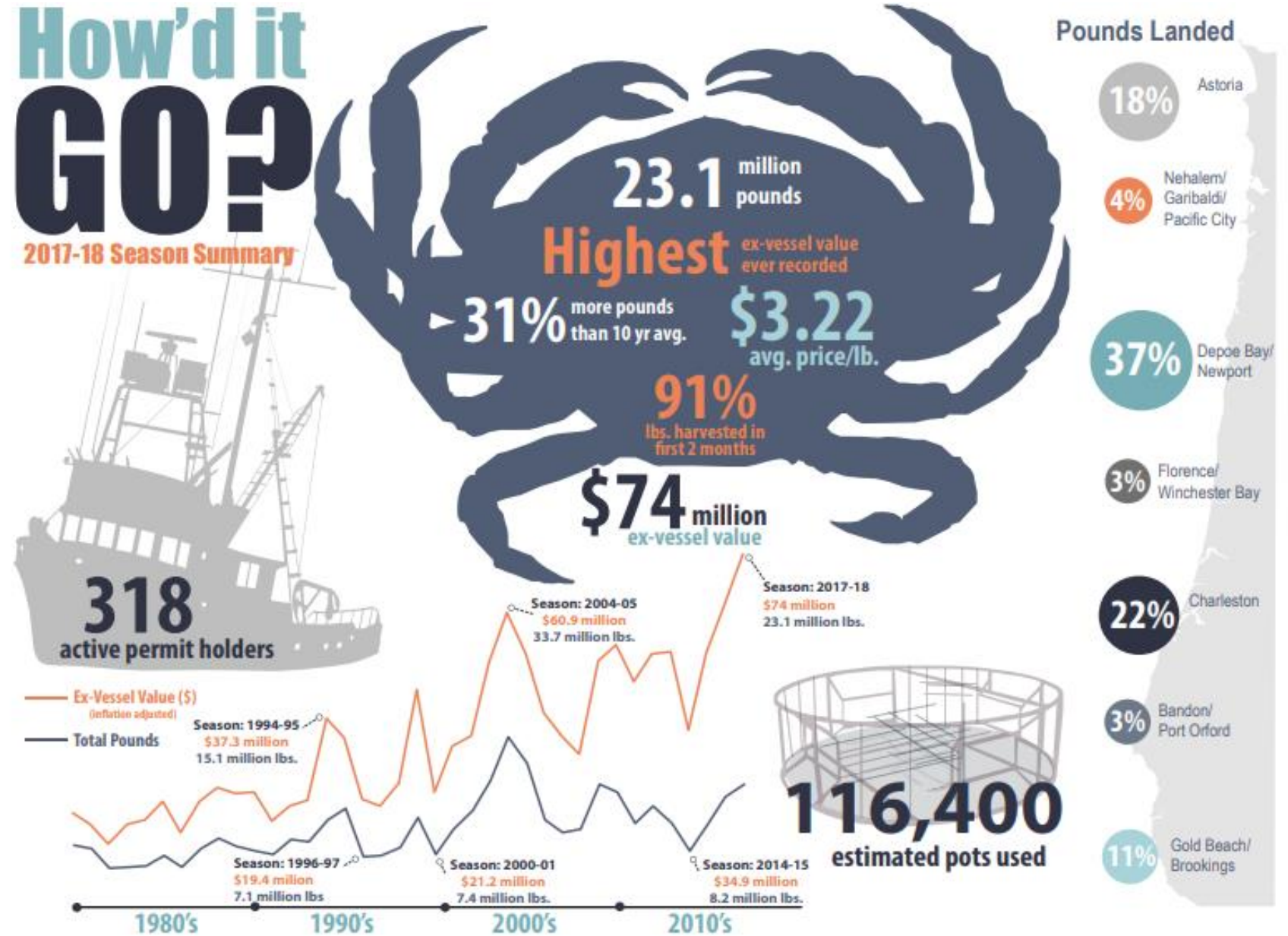


Dungeness Crab

Oregon Summary

Dungeness Crab Fishery Newsletter

<http://www.dfw.state.or.us/MRP/shellfish/commercial/crab/index.asp>



FLIPP approach

STEP 1

Analyze nonfatal injuries reported to US Coast Guard during 2002-2014.

STEP 2

Present reported injury results in focus groups. Fishermen informed FLIPP survey development.

STEP 3

Survey fishermen before 2015/16 crab season.

STEP 4

Develop and test injury prevention strategies.

Comprehensive information.

Reported traumatic injuries among West Coast Dungeness crab fishermen, 2002–2014

Samantha Case¹, Viktor Bovbjerg², Devin Lucas¹, Laura Syron², Laurel Kincl²


¹National Institute for Occupational Safety and Health, Western States Division, Alaska Office, Anchorage, Alaska, United States

²College of Public Health and Human Sciences, School of Biological and Population Health Sciences, Oregon State University, Corvallis, Oregon, United States

BRIEF REPORT

WILEY 

Dungeness crab commercial fishermen's perceptions of injuries inform survey development

Laurel Kincl PhD¹  | Mara Nery PhD² | Laura N. Syron PhD¹ |
Viktor Bovbjerg PhD¹ | Kaety Jacobson MS³

Dungeness crab fishermen perceptions of injury causation and factors in staying safe

Sabrina Pillai¹, Viktor E. Bovbjerg¹, Amelia Vaughan¹, Kaety R. Jacobson²,
Laura N. Syron¹, Laurel D. Kincl¹

¹Oregon State University, Corvallis, Oregon, United States

²Oregon Sea Grant, Oregon State University Lincoln County Extension, Newport, Oregon, United States

Dungeness Crab Fleet (n = 45): Job Task by Nature of Non-fatal Injury



Focus group health findings

Discussions primarily around safety/non-fatal injuries.

Discredited survey questions about:

- Musculoskeletal Health

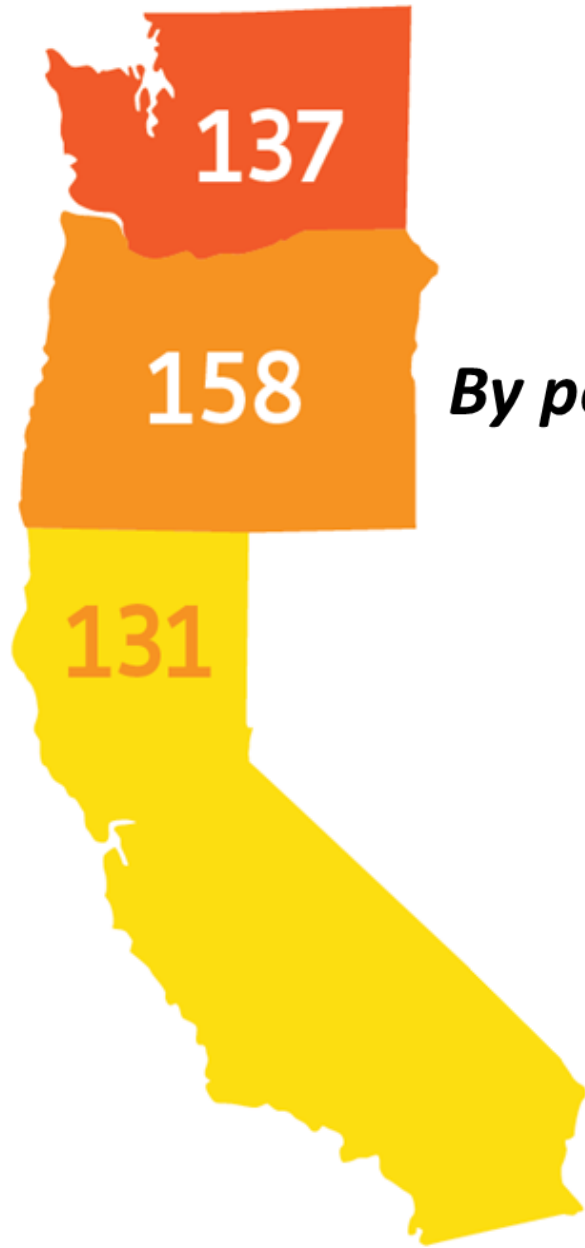
“Aches and pains are a part of everyone’s life at some point. In the last year, have you had pain in any part of your body? I mean come on.”

- Fatigue

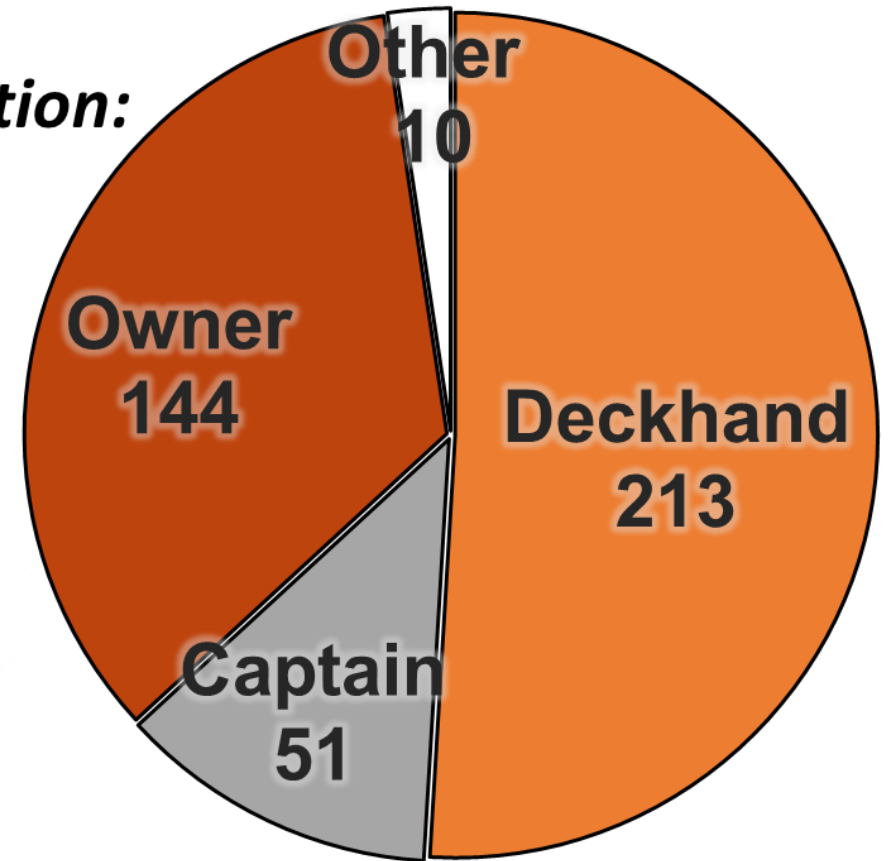
*“Okay, I mean, get the ‘were you tired when the injury occurred?’
Who cares? Everybody’s tired.”*

FLIPP Survey

426 survey
respondents



By position:



What fishermen shared about:

Staying safe:

- Captain/crew
- Awareness
- Safety prep/drills
- Experience
- Self-care
- Best fishing practices
- Maintenance
- Judgement
- Sea legs
- Combat fatigue

What causes injury:

- Inattention
- Hard work
- Weather/sea conditions
- Stupidity
- Bad luck
- Inexperience
- Not training
- Unsafe actions
- Unsafe vessel/gear
- Poor physical shape

Examples of actual responses related to health

Self-care

- *Coffee, eat, stay warm, stay dry, stay healthy, keep hydrated, wear glasses, sleep, take care of self, family, physical shape*

Understand Fatigue

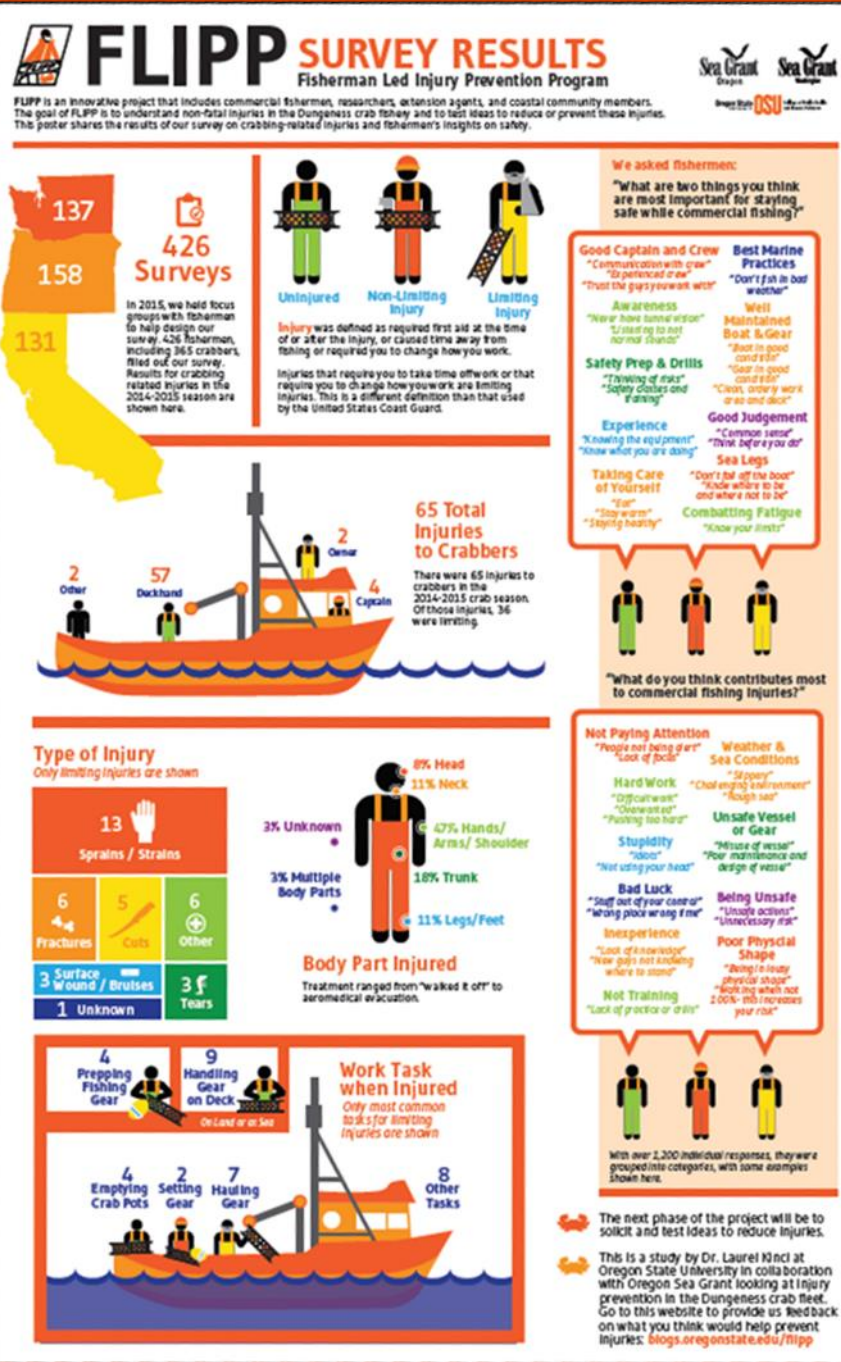
- *If tired stop, know your limits, less hours so not tired, listen to your body, safe speed, don't rush*

Drug/Alcohol Free

- *Don't show up with a hangover, no alcohol/drugs, sobriety, drug free, don't abuse drugs*

Disseminated
results back to
fishermen.

Asked for injury
prevention ideas.



Health-related ideas from FLIPP

- Nutrition
 - Decisions made before heading out to sea. Meal planning.
 - Meal preparation at sea, time to eat and digest.
 - Energy balancing.
- Functional Fitness
 - Industrial athletes (work that requires skill, strength, flexibility, coordination and endurance).
- Drug abuse prevention/resources
 - Crew agreements/drug testing.
 - Professional counseling for grief, family, depression, substance abuse issues.

Conclusion/Discussion

- The fatality rate in Dungeness crab fishing is greater than many other fisheries based on available data.
- Gear hauling/handling related to most injuries.
- Fishermen think it is important to prevent injuries, may be open to addressing *total worker health* issues as well.
- Greying of the fleet.
- Can address relationships (crew and family), physical fitness, nutrition, chronic disease prevention within safety/injury prevention efforts.

Acknowledgements

The FLIPP study team would like to thank all of the community researchers and fishermen along the West Coast who participated in this work.

This study was supported by Grant # U01 OH010843 funded by the Centers for Disease Control and Prevention/ National Institutes for Occupational Safety and Health.

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.



Thank you
Questions?

