

Bycatch Effects on Quality of Ocean Shrimp, *Pandalus jordani*

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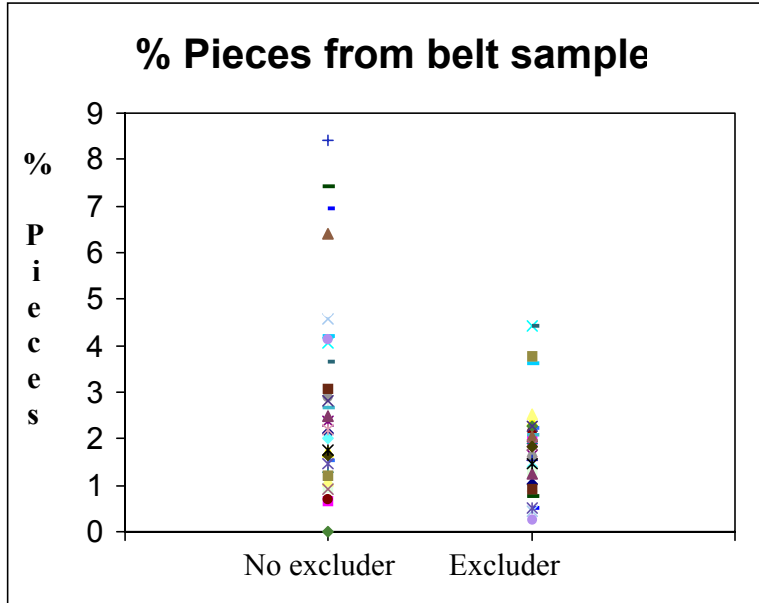
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Introduction and Methods

- Hypothesized that bycatch may affect the quality of the shrimp by causing breakage.
- A double-rigged commercial shrimp vessel was chartered for test fishing.
 - One net employed a Nordmore grate BRD and the other served as a control.
 - Bycatch was measured from each net.
 - The shrimp catch was kept separate by side of gear and day of fishing.
- Shrimp samples were collected at seven stages from the deck to finished product and evaluated for percent breakage by weight.
- Other factors such as ct/lb, molt condition and microbial counts measured.



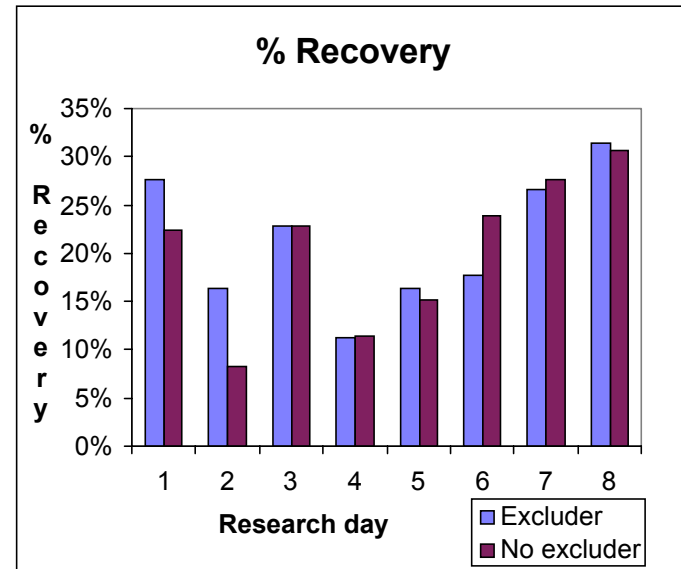
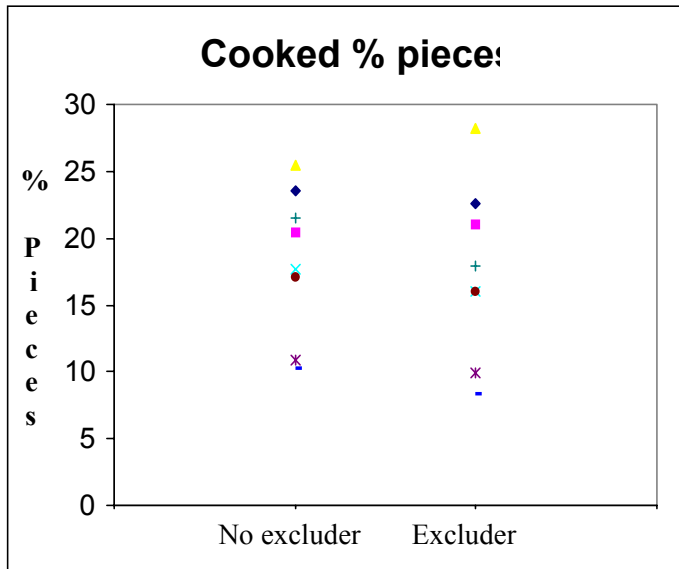
Excluder (1.9%, sd=1.1)
 No excluder (2.9%, sd=2.1).

p-value=0.048, Mann-Whitney
 U-test, n=33



Excluder (8.1%, sd=2.0)
 No excluder (11.2%, sd=3.6)

p-value=0.036, Mann-Whitney
 U-test, n=8



Excluder 17.5% (sd=6.5)
 No excluder 18.4% (sd=5.5)
 (p-value=0.60, Mann-Whitney U-test, n=8).

Percent recovery was not significantly different between excluder and control sides (p-value=0.92, Mann-Whitney U-test, n=8).

Conclusions

Based on these findings, it is concluded that finfish bycatch does contribute to the breakage of ocean shrimp.

However, the impact is small relative to breakage caused by other handling procedures.