Tab D, No. 6



NOAA FISHERIES SEFSC

Gulf of Mexico Shrimp Effort Estimation

Presentation to: GMFMC Shrimp AP

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Method

Dettloff, K. 2023. Estimation of Commercial Shrimp Effort in the Gulf of Mexico. SEDAR87DW-01. SEDAR, North Charleston, SC. 23 pp.

total effort = $\sum ELB effort_{area/time} \times (total landings_{area/time} / ELB landings_{area/time})$

https://sedarweb.org/documents/sedar-87-dw-01-estimation-of-commercial-shrimpeffort-in-the-gulf-of-mexico/



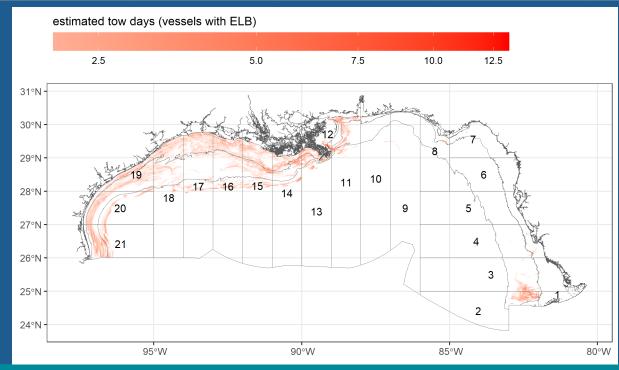
Assumptions

- 1. ELB devices are capturing all fishing activity
- 2. There is no systematic bias in classification of effort from ELB devices
- 3. CPUE of vessels with ELBs on board is representative of the total fleet
- 4. Spatial distribution of ELB vessels is representative of the total fleet within strata
- 5. Reporting of landings is similar between ELB and non-ELB vessels



2021 SEFSC Offshore Estimates

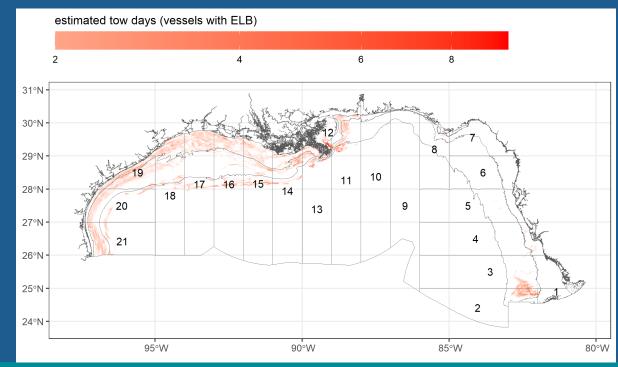
Region	Depth	Landings (tail lbs.)	Effort (24 hr. days)	Baseline (2001-2003)	Pct. Decrease from Baseline
Western Gulf (Zones 10-21)	10-30 fm	25,062,408	15,836	82,811	80.9%
Total Gulf	All	72,393,074	46,711	_	_





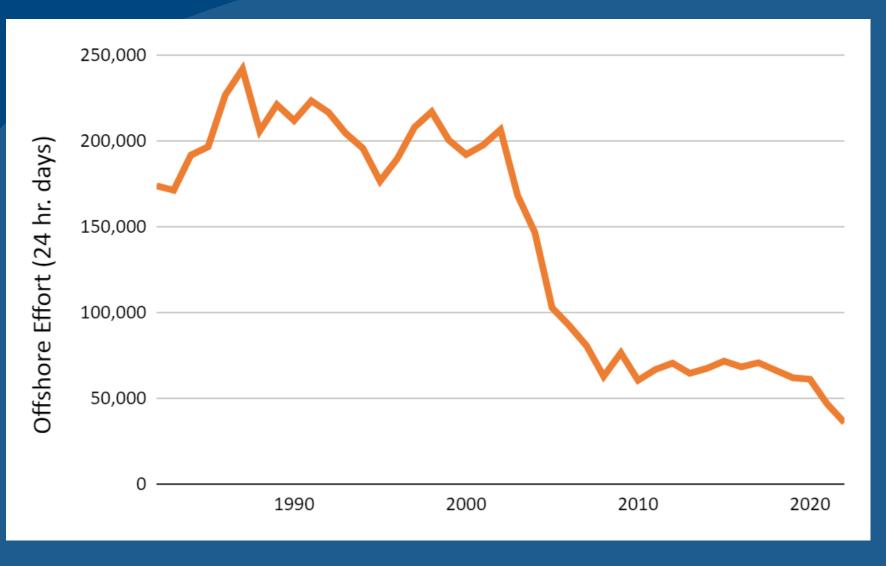
2022 SEFSC Offshore Estimates

Region	Depth	Landings (tail Ibs.)	Effort (24 hr. days)	Baseline (2001-2003)	Pct. Decrease from Baseline
Western Gulf (Zones 10-21)	10-30 fm	18,238,872	10,762	82,811	87.0%
Total Gulf	All	60,707,658	35,870	_	-





GOM Total Offshore Effort, 1981-2022





Acknowledgements

- Gulf of Mexico Shrimp Fishing Industry
- Gulf of Mexico Fishery Management Council, SSC and Shrimp AP
- Gulf of Mexico Commercial Shrimp Fishermen
- Internal SEFSC Shrimp Bycatch and Effort
 Workgroup

