



Brown Shrimp Beam Trawler Large Cutter DEU-CSH-90

- German Bight, southern North Sea -



©Thünen-Institut/Lasner

BACKGROUND

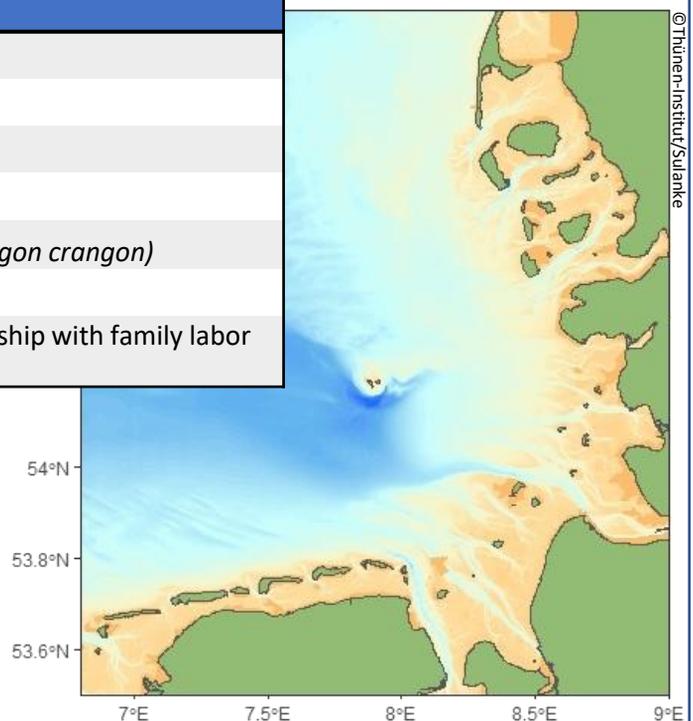
A large brown shrimp trawler ideally has ballast tanks on board, allowing the draft to be regulated between 1.60m and 2.00m. This enables more weather-independent fishing up to the 12sm zone, as well as in the shallower areas of the 3sm zone. The crew consists of a captain, deckhand, and an apprentice. The brown shrimp fishery is characterized by significant price fluctuations and highly variable catch rates. Regarding the German brown shrimp fleet (comprising approximately 150 vessels in 2024), there was a negative trend in landings and returns from 2019 onwards.

AT FIRST GLANCE

Length (m)	19.5
Gross tons (GT)	90
Engine power (kW)	221
Days-at-sea	~ 200
Target species	Brown shrimp (<i>Crangon crangon</i>)
Crew size	3
Company structure	Single Entrepreneurship with family labor



©Thünen-Institut/Siepputts



©Thünen-Institut/Sulanke

FISHING TECHNIQUE	
Season	Year-round
CPUE (kg/h) <small>(catch per unit of effort)</small>	~20-40
Trip duration (h)	12-36
Fuel use (l/h)	40
Gear	Beam trawl

FISHERY PERFORMANCE	2022	2023
Fishing hours (h)	2,900	2,369
Total landings (kg)	90,000	46,700
Average price (€/kg)	6.00	6.80
Revenue (€)	540,000	317,414
Net vessel income (€)	134,721	-3,665
ROI (%)	0.3	-4.5

FTE & PRODUCTIVITY	2022	2023
FTE (h/LU)	4.38	3.79
Economic productivity <small>(€ returns per € labour costs)</small>	2.07	2.01
Physical productivity <small>(kg per h labour input)</small>	11.4	6.84
	2	

CASH COSTS (€/kg LW)	2022	2023
Fixed costs	0.87	1.72
Wages	1.41	1.59
Diesel	1.30	1.80
Other variable costs	0.21	0.25
Gear maintenance	0.17	0.35
Crew catering	0.05	0.12
Interests	0.06	0.12

COSTS & RETURNS (€/kg LW)	2022	2023
Cash costs	4.06	5.95
Depreciation	0.44	0.93
Opportunity costs	1.59	1.98
Market returns	6.00	6.80

Profitability DEU-CSH-90

