

# OSU MARINE SEA ADVISORY GRANT PROGRAM

OREGON STATE UNIVERSITY CORVALLIS, OREGON 97331

MEDS - 6  
Rev April 1973

## MARINE ECONOMICS DATA - 50-FOOT EUREKA TROLLER AND CRABBER<sup>a/</sup>

Description \$85,000 market value, 50 feet by 16 feet, wood hull, 25-ton capacity, 250 HP diesel engine, loran, radar, fathometer, 2 radios, automatic pilot, spray-brine refrigeration, 8 hydraulic pullers, crab pot block and 500 crab pots.

<u>Fishery</u>	<u>Effort<sup>b/</sup></u> <u>(days)</u>	<u>Price<sup>c/</sup></u>		<u>Production<sup>d/</sup></u>		
		<u>Per ton</u> <u>(\$)</u>	<u>Per lb.</u> <u>(\$)</u>	<u>Low</u> <u>(tons)</u>	<u>Medium</u> <u>(tons)</u>	<u>High</u> <u>(tons)</u>
Dungeness crab.....	87	\$1,500	.75	21.0	28.0	35.0
Troll salmon.....	51	1,380	.69	4.6	5.8	7.0
Albacore tuna.....	71	640	.32	28.0	40.0	52.0
<u>(1)Gross returns.....</u>				\$55,768	\$75,604	\$95,440

## Variable costs<sup>e/</sup>

	<u>Crab</u>	<u>Salmon</u>	<u>Tuna</u>	<u>Season total with:</u>		
				<u>Low</u> <u>production</u>	<u>Medium</u> <u>production</u>	<u>High</u> <u>production</u>
Vessel repairs...	\$4,032	\$ —	\$ —	\$ 6,451	\$ 6,720	\$ 6,989
Gear repairs.....	8,368	672	448	9,488	9,488	9,488
Galley.....	882	235	1,016	2,133	2,133	2,133
Transportation...	873	233	1,005	2,111	2,111	2,111
Fuel.....	946	79	578	1,603	1,603	1,603
Ice and bait.....	1,374	108	0	1,482	1,482	1,482
Crewshare.....	—	—	—	16,049	21,673	27,297
(2) Total variable costs.....				\$39,317	\$45,210	\$51,103

## Fixed costs<sup>f/</sup>

Insurance.....	\$ 4,713	\$ 4,713	\$ 4,713
Depreciation.....	4,250	4,250	4,250
Moorage.....	330	330	330
Dues.....	703	703	703
Property tax.....	642	642	642
Licenses.....	75	75	75
Miscellaneous <sup>g/</sup> .....	1,027	1,027	1,027
(3) Total fixed costs.....	\$11,740	\$11,740	\$11,740

Opportunity costs<sup>h/</sup>

	<u>Low production</u>	<u>Medium production</u>	<u>High production</u>
(4) Operator's labor (30% of gross).....	\$16,730	\$22,681	\$28,632
(5) Operator's management (10% of gross)...	5,577	7,560	9,544
(6) Total investment (\$85,000 @ 9%).....	7,650	7,650	7,650

Summary

Return to labor, management, and investment (1 less 2 and 3).....	4,711	18,654	32,597
Return to labor and management (1 less 2, 3, and 6).....	-2,939	11,004	24,947
Return to investment (1 less 2, 3, 4, and 5).....	-17,596	-11,587	-5,579

a/ Original data developed by selected Eureka fishermen, January 1970, in cooperation with the Oregon State University Marine Advisory Program and Humbolt State College Marine Advisory Program. These data are representative of above-average operators for this port.

b/ Fishing days at sea.

c/ Prevailing prices for this port during 1972 season.

d/ Low and high are 25% below and above medium for crab, 20% below and above medium for salmon, and 30% below and above medium for tuna.

e/ Costs that vary with fishing effort. May include unpaid crew, operator, and family labor. Some costs, such as gear repair and crewshare, also vary with production.

f/ Costs that do not vary with fishing effort.

g/ Utilities, accounting, etc.

h/ Opportunity cost of labor is the estimated value of this operator's time, or what could have been earned working for someone else. Opportunity cost of management is the estimated value of this operator's management (decision-making and risk), or what could have been earned managing another similar business. Opportunity cost of investment is the estimated fair return to total investment in the business, regardless of the actual amount of debt.