

MEDS 45
Rev August 1973

MARINE ECONOMICS DATA - 42-FOOT CHESAPEAKE BAY OYSTER AND CRAB VESSEL^{a/}

Description \$20,000 market value, 42 feet by 14 feet, wood hull, 10-ton capacity, 450 cubic inch V8 gasoline engine, C.B. radio, 3 sets of hydraulic double-rigged patent tongs, 250 crab pots, hydraulic pot puller, and 9 HP air-cooled auxiliary engine.

<u>Fishery</u>	<u>Effort (days)</u>	<u>Price per bu. (\$)</u>	<u>Production^{b/}</u>		
			<u>Low (bu)</u>	<u>Medium (bu)</u>	<u>High (bu)</u>
Chesapeake oyster..	112	3.50	5,018	7,168	9,318
Blue crab.....	96	7.05	1,200	2,400	3,600
<u>(1) Gross returns.....</u>			\$26,023	\$42,008	\$57,993

Variable costs^{c/}

			<u>Season total with:</u>		
	<u>Oyster</u>	<u>Crab</u>	<u>Low production</u>	<u>Medium production</u>	<u>High production</u>
Vessel repairs.....	\$ 358	\$ 349	\$ 742	\$ 742	\$ 742
Gear repairs.....	—	2,352	3,513	3,642	3,771
Engine repairs.....	1,433	1,248	2,681	2,681	2,681
Fuel.....	932	1,488	2,420	2,420	2,420
Bait.....	0	1,152	1,152	1,152	1,152
Galley.....	358	288	646	646	646
Transportation.....	1,505	1,320	2,825	2,825	2,825
Crewshare.....	—	1,440	7,713	10,400	13,088
<u>(2) Total variable costs.....</u>			\$21,692	\$24,508	\$27,325

Fixed costs^{d/}

Depreciation.....	\$ 2,400	\$ 2,400	\$ 2,400
Moorage.....	250	250	250
Accounting.....	190	190	190
Miscellaneous.....	280	280	280
<u>(3) Total fixed costs.....</u>	\$ 3,120	\$ 3,120	\$ 3,120

Opportunity costs^{e/}

	<u>Low production</u>	<u>Medium production</u>	<u>High production</u>
(4) Operator's labor (\$1.25/bu. + \$15/day).....	\$7,713	\$10,400	\$13,088
(5) Operator's management (10% of boatshare).	1,409	2,739	4,069
(6) Total investment (\$20,000 @ 8%).....	1,600	1,600	1,600

Summary

Return to labor, management, and investment (1 less 2 and 3).....	\$1,211	\$14,380	\$27,548
Return to labor and management (1 less 2, 3, and 6).....	-389	12,780	25,948
Return to investment (1 less 2, 3, 4, and 5).....	-7,911	1,241	10,391

^{a/} Original data developed by selected Chesapeake Bay watermen, May 1972, in cooperation with the University of Rhode Island and Oregon State University. Costs, landings, and prices have been adjusted to reflect changes since the original data were developed, and is representative of above-average operators for this area.

^{b/} Low and high are 30% below and above medium for oysters and 50% below and above medium for crab.

^{c/} 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.

^{d/} Costs that do not vary with fishing effort.

^{e/} 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.