

Humboldt County
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45 ft. Eureka Troller and Crabber
 Cost Analysis Work Sheet

Marine Economics Series
 Cooperative Extension
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Sample costs to own and operate a 45 ft. Eureka Troller and Crabber. Based on a replacement cost of \$85,000. 45 ft. by 12 ft. steel hull with 15 ton capacity, 150 h. p. diesel engine, equipped with Loran, radar, fathometer, 3 radios, automatic pilot, spray brine refrigeration on high production vessels, 6 hydraulic pullers, crab pot block and 250 crab pots. Value of low and medium production vessels is \$77,500.

Fishery	Price		Fishing days			Production			years
	Per ton	Per lb.	at sea			low	medium	high	
			low	medium	high	(tons)	(tons)	(tons)	
Dungeness crab	\$1400	.70	30	60	90	4.5	15	36	
Salmon	1500	.75	35	50	100	3.5	10	30	
Albacore tuna	820	.41	25	40	70	18	40	55	
Gross Returns						\$26,310	\$68,800	\$140,500	
Variable costs (a)						Annual Production			years
	Crab	Salmon	Tuna			low	medium	high	
Vessel repairs						3157	6880	8430	
Gear repairs	6000	1000	500			7500	7500	7500	
Galley, \$15. day av.						1350	2250	3900	
Transportation	1200	990	810			3000	3000	3000	
Fuel 40¢ gallon	50 gal/day	40 gal/day	120 gal/day			2360	3920	6760	
Dues	1/4¢ lb.	1/2¢ lb.	\$150/year			208	325	630	
Ice and Bait	\$26 day	\$42 day	\$100 season			2350	3760	6640	
Crewshare	15%man(2)	20%man(1)	20%man(1)			5892	15860	33140	
Soc. Sec. & Unempl. 10% of Crewshare						590	1586	3314	
Total Variable Costs						\$26407	\$45081	\$73314	
Fixed Costs (b)									
Insurance: 5 1/2% value plus \$500 per man						4912	4912	5325	
Depreciation 10 years						7750	7750	8500	
Property tax 1% gross value x .25						194	194	212	
Moorage						409	409	409	
Licenses						460	460	460	
Miscellaneous: Utilities, legal, accounting, etc.						1500	1500	1500	
Total Fixed Costs						\$15225	\$15225	\$16406	
Opportunity Cost of Investment at 10% (c)						7750	7750	8500	
Total Fixed and Variable Costs						\$41632	\$60306	\$89720	
Total Fixed, Variable & Opportunity Costs						\$49382	\$68056	\$98220	

- (a) Costs that normally vary with fishing effort.
- (b) Costs that do not vary with fishing effort.
- (c) Estimated fair return to total investment in the business, regardless of the actual amount of debt.

These costs represent three levels of fishing effort and production. Low numbers of days at sea do not necessarily mean low production per day. The exact opposite may be true. They were related in this sample cost schedule to establish three levels of production, with their respective costs and incomes.

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