

REDUCE SPEED - SAVE FUEL

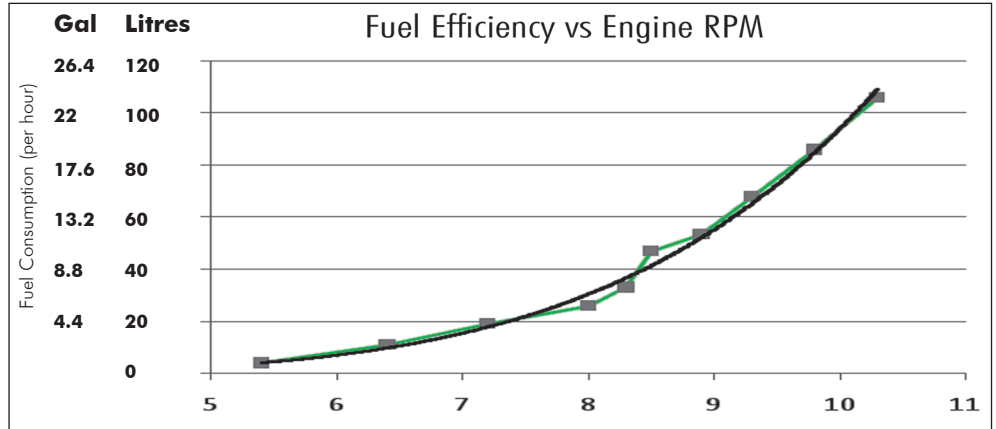
65-FOOT VESSELS

Reducing speed can save fuel consumption.

In the graph shown to the right for a 65' (540 HP) fishing vessel, hourly fuel consumption is reduced by 70% when speed is reduced from 10 knots to 8 knots.

Steaming a distance of 100 nautical miles at the slower speed would save over 600 litres (132 gals.) of fuel and over \$600 at 2008 diesel rates. Lost time would amount to only 2.5 hours.

Another way to demonstrate the savings in reducing speed is shown in the table (right). It shows fuel consumption for different speeds for a typical 65 ft. vessel. If you reduce speed from 10 knots to 9 knots, you will save \$237 and only add on 2.2 hours to your trip. That is like paying yourself \$106 per hour for an extra 2.2 hours.



Fuel cost \$/gal
4.54 l/gal \$4.54

Estimates in Fuel savings for a 200 nautical mile trip

Speed	Time taken	Consumption gallons per hour	Total fuel used	Fuel Cost	Total Savings	Savings (per hour/knot)
10	20	24.1	483	\$ 2,191.37	\$ 0	\$ -
9	22.2	19.4	431	\$ 1,954.47	\$ 236.90	\$106.60
7	25.0	15.1	378	\$ 1,717.57	\$ 473.79	\$94.76
6	28.6	11.4	326	\$ 1,480.68	\$ 710.69	\$82.91
5	33.3	8.2	274	\$ 1,243.78	\$ 947.59	\$ 71.07
5	40.0	5.5	222	\$ 1,006.88	\$ 1,184.49	\$ 59.22

Estimates in Fuel savings for a 20 nautical mile trip (one day)

Speed	Time taken	Consumption gallons per day	Total fuel used	Fuel Cost	Total Savings	Savings (per hour/knot)
9	2.2	41.1	41	\$ 186.50	\$ 0	\$ -
8	2.5	31.7	32	\$ 143.96	\$ 42.54	\$153.14
7	2.9	23.5	24	\$ 106.87	\$ 79.62	\$125.40
6	3.3	16.6	17	\$ 75.24	\$ 111.25	\$100.13
5	4.0	10.8	11	\$ 49.07	\$ 137.43	\$ 77.31

35-FOOT VESSELS

Smaller vessels benefit as well when speed is reduced. An example of fuel consumption for a 35-foot vessel on a 20-mile trip is given to the right. By slowing down from 9 knots to 8 knots, you would add 20 minutes to your trip time but you would save a total of \$42. That's over \$150 per hour. If you were to slow down to 6 knots, you would take 1.1 hour longer to get there but you would save over \$100 per hour.

FUEL MONITORING

The first step in saving fuel is knowing where your fuel goes. A fuel meter is your tool to help you track consumption. Keep a log of what your consumption is during different steaming and towing conditions.

A fuel meter will:

- Provide you with valuable fuel consumption information
- Help you change your consumption habits.
- Help you monitor how changes in

displacement and trim affect fuel efficiency.

- Help you modify your actions to get the most out of your specific boat and engine.

Try these tips to reduce your fuel consumption.

- When appropriate, take your time going out and returning.

- Arrange your fishing to work with the currents and tides.
- Think about weather for steaming as well as for fishing.

Steaming into waves can cause a 30% speed reduction.

- Ask yourself: Where is your stick?
- Efficiency does not occur at 95% throttle.