

Peek Horsepower Fuel Consumption

Gallons Per Hour GPH = (Specific Fuel Consumption x Horsepower) / Fuel Specific Weight

Gasoline GPH = $(.5 \times \text{HP})/6.1$ or Diesel GPG = $(.4 \times \text{HP})/7.2$

GASOLINE

Specific Fuel Consumption for Gas = .5 lb. per HP

Fuel Specific Weight for Gas = 6.1 lbs./gallon

EXAMPLE A:

100 Horsepower Boat

$(.5 \times 100)$ divided by 6.1 = 50 divided by 6.1

$50/6.1 = 8.2$ Gallons Per Hour

DIESEL

Specific Fuel Consumption for Diesel = .4 lb per HP

Fuel Specific Weight for Diesel = 7.2 lbs./gallon

EXAMPLE B:

100 Horsepower Boat

$(.4 \times 100)$ divided by 7.2 = 40 divided by 7.2

$40/7.2 = 5.5$ Gallons Per Hour

ESTIMATIONS: You can roughly estimate Fuel Consumption by dividing your Gasoline Engine Horsepower by 10 but Errs High or divide your Diesel Engine Horsepower by 20 but Errs Low

One Third Rule:

1/3 for going OUT: 1/3 for coming IN: 1/3 in RESERVE

EXAMPLE:

Our Vessel holds 30 Gallons of fuel. Our vessel will consume 10 Gallons of fuel per hour at 20 Miles per hour.

Which of the following best exemplifies the One Third Rule if travelling at 20 MPH?

- Travel 40 miles out and 40 miles in
- Travel 50 miles out and 50 miles in
- Travel 20 miles out and 20 miles in
- Travel 30 miles out and 30 miles in