Impact of Product Density on Motor Carrier Cost

Assume:

- 1. Truck trailer has 3,000 cubic feet
- 2. The motor carrier's cost of the trip is \$400
- A. Freight weights 2 pounds per cubic foot
- 1. Motor carrier's payload is 6,000 pounds (2 lb/cu. ft. x 3,000 cu. ft.)
- 2. Motor carrier's cost per 100 pounds = $\frac{\$400}{60}$ = \$6.67 per cwt.
- B. Freight weights 16 pounds per cubic foot
- 1. Motor carrier's payload is 48,000 pounds (16 lb./cu. ft. x 3,000 cu. ft.)
- 2. Motor carrier's cost per 100 pounds = $\frac{400}{480}$ = \$0.83 per cwt.