

# TANKER CAPACITY VALIDATION

Location of Test \_\_\_\_\_ Test Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Department/District \_\_\_\_\_

Apparatus Number: \_\_\_\_\_ Make: \_\_\_\_\_ Year \_\_\_\_\_

Full Weight (Pounds) \_\_\_\_\_, \_\_\_\_\_

Empty Weight (Pounds) \_\_\_\_\_, \_\_\_\_\_

Full Weight Minus Empty Weight = Water Weight (Net) \_\_\_\_\_, \_\_\_\_\_

Water Weight Divided by 8.34 = Gallons \_\_\_\_\_, \_\_\_\_\_

Gallons Multiplied by .90 (90%) = ISO Credit Gallons \_\_\_\_\_, \_\_\_\_\_

Name and Model of Scale Used \_\_\_\_\_

Name and Agency of Person Performing Test \_\_\_\_\_

Names and Agencies of Test Witnesses \_\_\_\_\_

Standard Weighing Terminology: Gross = Full Weight of Vehicle or Container  
Tare = Empty Weight of Vehicle or Container  
Net = Weight of Contents

(Used by scale operators and may show on scale ticket)

## Procedure for Determining ISO Capacity of Tanker

1. Insure tanker is empty by draining with the tanker on a grade where the front wheels are higher than rear wheels.
2. Place tanker on truck scale and record weight of truck and driver.
3. \*Fill tanker until water flows out of overflow pipe.
4. Disconnect Hose and weigh tanker and driver.
5. Subtract empty weight from full weight - this is the weight of the water in the tanker.
6. Divide weight of water by 8.34 which is the total gallons in tanker.
7. Multiply the total gallons by 90% - this is the capacity that ISO will credit as the firefighting capacity of the tanker.

**\*Caution:** Insure that head space relief hatch(s) or relief valve are operating properly and fill slowly – you are responsible for safety and loss.

### Example:

Full tanker weight:	38,350 pounds
Empty tanker weight:	20,000 pounds
Weight of water:	18,350 pounds
Divided by 8.34:	2200 gallons
Divided by 90% = ISO credit:	1980 gallons