

WEIGHTS & MEASURES

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Building confidence in the marketplace for consumers and businesses by ensuring the accuracy of commercial scales and measures, so you get what you pay for.



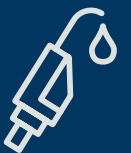
WEIGHTS & MEASURES HAS MULTIPLE RESPONSIBILITIES:

Checking fuel quality and accuracy of gas pumps

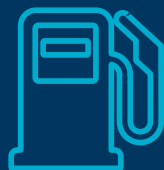
Enforcing labeling and quantity of grocery and other packages

Certifying weight and measure standards for private and government organizations

Regulating the sale and labeling of firewood



G A S P U M P



Common complaints:



Pump creep - when the dollar amount keeps rising after the pumping stops



Overfill - when a vehicle is filled with more gallons than the tank holds



Pumps that do not pass inspection are shut down until fixed and pass re-inspection

WHAT GETS INSPECTED

Check pump display's grade of gas, price, ethanol content, octane rating

Ensure the calibration seal is still in place to verify it has not been tampered with

Check for fraudulent devices, such as credit card skimmers

Conduct 5-gallon tests to check that the pump accurately delivers five gallons of gas

Test the pump at fast and slow delivery

GROCERY: Errors from **ONE** inaccurate scale for **ONE** product

Bunches of Grapes Sold \$2/lb	0.01 lb error	0.02 lb error	0.03 lb error
One customer sale	\$0.04	\$0.08	\$0.12
20 sales per day	\$0.80	\$1.60	\$2.40
140 sales per week	\$5.60	\$11.20	\$16.80
7280 sales per year	\$291.20	\$582.40	\$873.60



Inaccurate scales = surprisingly big losses – negative impact for store/customers

Inaccuracy for a scale at a grocery store or fuel at a gas pump can create surprisingly big losses, which could negatively impact the store or its customers. These errors might seem insignificant for a one-time purchase, but when used by consumers dozens of times per day, hundreds of times per month, and thousands of times per year, small errors lead to big impact. These two charts illustrate how measurement errors can affect consumer pocketbooks or a store's bottom line, for one scale or pump.



GASOLINE: Errors from **ONE** pump for errors in the thousandth of a gallon (0.001)

15 gallons \$2.70/gallon	0.002 gallon error	0.003 gallon error	0.005 gallon
Individual sale	\$0.08	\$0.12	\$0.20
20 per day	\$1.60	\$2.40	\$4.00
140 per week	\$11.20	\$16.80	\$28.00
7280 per year	\$582.40	\$873.60	\$1,456.00