

## ADVICE TO THE CONSUMER

- Watch the weighing or measuring instrument. Make sure it starts at zero or you may be paying for something you didn't get.
- When buying gasoline, look at the pump meter **before** the start of fuel delivery. The meter should be cleared and the computer set at zero.
- Packaged size may be deceptive - don't be fooled by apparent size. Remember that KING SIZE, GIANT SIZE, FAMILY SIZE, etc., mean nothing. Read the label for quantity statement. Compare prices per ounce between different sizes and between different brands.
- Check your receipts, especially scanned items on sale, for accuracy.
- Buy solid commodities by weight, rather than by count, whenever possible.
- Learn the unit price (price per pound, per quart, etc.) of what you buy and make sure that you are paying the correct price for the quantity received.
- The weight of paper wrapping the containers used in prepackaging meat and other items must not be included. All packaged items must indicate NET WEIGHT.
- Learn to read scale and meter indications and observe the weighing and measuring of your purchases.
- Just as you demand accurate change from a cashier, demand accurate weight and measure in your purchases to avoid being "shortchanged."
- Some stores provide scales on which you can check weights of your purchases. Use them.
- Propane meters must be reset by the attendant fueling your bottle; watch that the meter is zeroed before the attendant begins to fuel.

Report suspected inaccuracies or violations of the weights and measures laws and regulations to the Division of Weights and Measures. All consumer complaints will be investigated.

## USEFUL WEIGHTS AND MEASURES

### EGGS - MINIMUM WEIGHT PER DOZEN

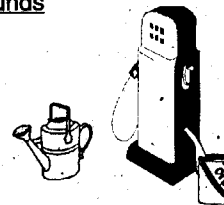
<u>USDA Size</u>	<u>Weight in Ounces</u>	
Jumbo	30	As a rule, if there is less than a 7-cent spread between sizes, larger size is the best buy.
Extra Large	27	
Large	24	
Medium	21	
Small	18	
Peewee	15	

### WEIGHT IN POUNDS PER CUBIC FOOT

Aluminum	165	Ice	57.2
Asphalt	69-94	Iron Cast	450
Brass	534	Lead	710
Brick	87-137	Oak	46-50
Bronze	500	Pine	28-34
Cement Loose	90	Paper	44-72
Cement Set	170-190	Sand Dry	90-110
Concrete	145-150	Sand Wet	120-125
Copper	560	Snow Fresh	5-12
Earth Dry	75-80	Steel	480-490
Garbage	43	Sugar	100
Gravel Dry	73	Water	62.41

### APPROXIMATE WEIGHT PER GALLON LIQUIDS

<u>Product</u>	<u>Weight in Pounds</u>
Water	8.3
Diesel Fuel	7.1
Kerosene	7.1
Gasoline	6.2
Propane	4.23



### COMMON KITCHEN EQUIVALENTS

	Tea-spoon-fuls	Table-spoon-fuls	Fluid ounces	Cup-fuls	Liquid pints	Liquid quarts	Liters
1 tsp. =	1	1/3	1/6	*	*	*	*
1 tbsp. =	3	1	1/2	1/16	1/32	*	*
1 fl. oz. =	6	2	1	1/8	1/16	1/32	*
1 cupful =	48	16	8	1	1/2	1/4	.24**
1 pint =	*	*	16	2	1	1/2	.47**
1 quart =	*	*	32	4	2	1	.95**

\*Equivalent not commonly used

\*\* Approximate

# DIVISION OF WEIGHTS & MEASURES



PROTECTING THE INTERESTS OF BUYERS AND SELLERS OF COMMODITIES



DIVISION OF WEIGHTS AND MEASURES  
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## WEIGHTS and MEASURES

Our Services Are Your Economic Protection

Weight and Measures is mandated by state law to protect the interests of the buyer and seller to ensure honesty and integrity of everyday business transactions. This protection is accomplished through our continuous and systematic inspection of all equipment that weighs or measures a commodity that is sold. We check scanner systems for pricing accuracy and packaged products for stated net contents. Every transaction involving the exchange of goods, property, and service is affected in a very vital way by some form of weights and measures.

The use of uniform weights and measures is extremely important, even though many buyers and sellers are rarely aware of them.



*Weights and Measures may be ranked among the necessities of life to every individual of human society. They enter into the economical arrangements and daily concerns of every family. They are necessary to every occupation of human industry; to the distribution and security of every species of property; to every transaction of trade and commerce; to the labors of husbandman; to the ingenuity of the artificer; to the studies of the philosopher; to the researches of the antiquarian; to the navigation of the mariner and the marches of the soldier; to all the exchanges of peace, and all the operations of war. The knowledge of them, as in established use, is among the first elements of education and is often learned by those who learn nothing else, not even to read and write. This knowledge is riveted in the memory by the habitual application of it to the employments of men throughout life.*

**John Quincy Adams**

Excerpt from the Report on Weights and Measures by the Secretary of State made to the Senate on February 22, 1821.

### WEIGHTS AND MEASURES OFFERS PROTECTION TO THE CONSUMER THROUGH THE FOLLOWING PROGRAMS:

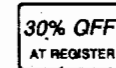
1. Quantity Control - Inspect all packaged commodities to ensure they contain the proper amount and have the correct labeling. This program also investigates deceptive packaging and makes test purchases to ensure compliance.
2. Device Inspection - Inspect and test all commercially used weighing and measuring devices, including scales, such as: computing, platform crane vehicle; and meters, such as: gasoline dispensers, fabric measures, taxi meters, submetered utilities, gas, electric and water. Devices that do not pass inspection are taken out of service until repaired.
3. Petroleum - check the quality and labeling of petroleum products as well as service station advertising. This includes checking gasoline, octane and lead content; boiling points of brake fluids; as well as quality standards of motor oils and anti-freeze.
4. Support Services - investigate all complaints received from consumers; initiate investigations into possible unlawful practices; coordinate with the District Attorney in the prosecution of violators; conduct educational programs, displays, and brochures to educate the public in proper shopping habits.
5. Weighmaster - inspect licensed weighmasters to ensure the accuracy of the certificates issued, such as those for moving household goods.



### WE RESPOND TO AND RESOLVE CITIZENS' COMPLAINTS



SHELF PRICE / SCANNER



% OFF NOT TAKEN AT REGISTER



DECEPTIVE PACKAGING



SHORT WEIGHT PRODUCTS



SHORT MEASURE GASOLINE DELIVERY



OCTANE RATING IN QUESTION



WATER IN FUEL



RECYCLING INACCURACIES



POSTED OR ADVERTISED PRICE NOT HONORED

If you suspect inaccuracies or violations, notify the Division of Weights and Measures immediately.

Informational Programs are available to any organization or school to inform you how to be a better shopper or acquaint you with the metric system of measurement. Call the office to schedule an appointment.