

Are Your Pesticides Measuring Up



Management

Pest ID

Product

Calibration

mixing

Site Awareness

Regulations

Small Mistakes Can Be Costly

					Over 600 acre day
Herb	\$/	Per Acre		Over (%)	Left in the Field
	<u>Ounce</u>	Rate	Cost	<u>10 15 20</u>	
Α	4	3	\$12	31.2 1.8 2.4	\$720-1440
В	35	1/3	11.60	I Hope th	ne Take-Home
				•	e is Obvious!
С	6	2	12	McSage	, is obvious:
D	4.5	3.5	15.75	1.6 2.4 3.15	\$960-1890



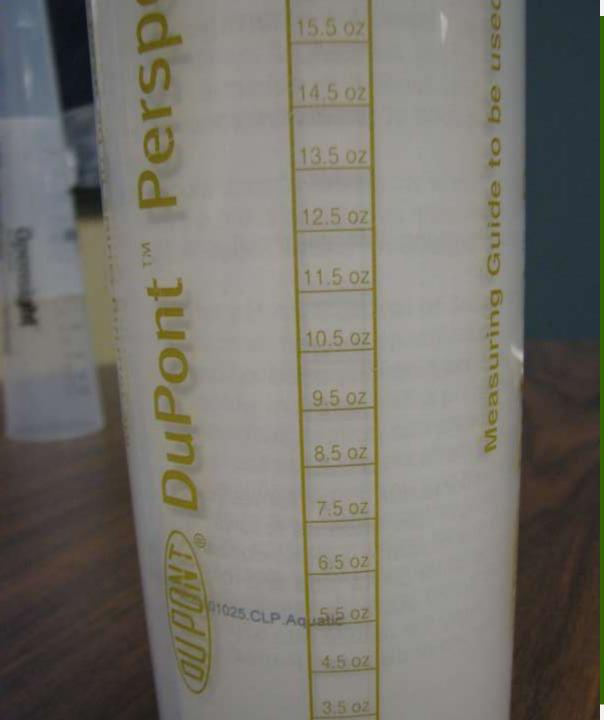
Measure By The Pound



Measure By The Gallon



Measure By The Ounce



First Conclusion

More precision required when measuring products by the ounce

LIQUID OUNCES





FUNGICIDES

insects in turfgrass

Not for Sale or Use in Nassau and Suffolk Counties, New York

Active Ingredients:

halofenozide: Benzoic acid, 4-chloro-, 2-benzoyl-2-(1,1-dimethylethyl)

 hydrazide
 22.3%

 Inert Ingredients
 77.7%

 Total Ingredients
 100.0%

Contains 2 pounds of active ingredient per gallon.

Keep Out of Reach of Children CAUTION

PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE) and Directions for Use including Storage and Disposal.

Agricultural Use nequirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Shake Well Before Using

EPA Reg. No. 62719-471

EPA Est. 5905-GA-01 900-009358 / 00197222

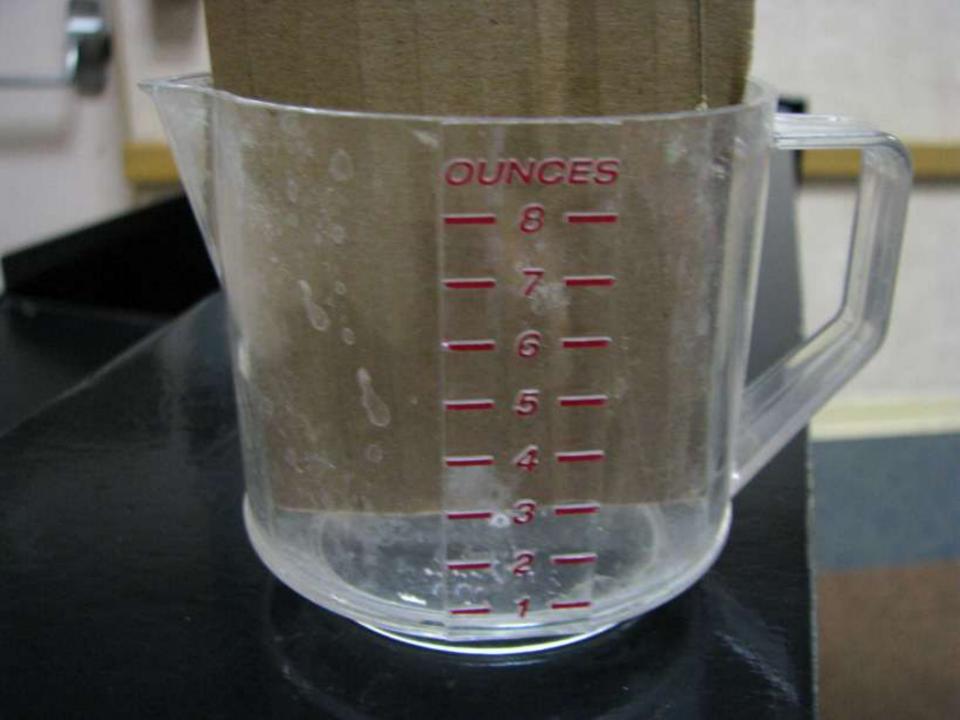
*Trademark of Dow AgroSciences LLC

Dow AgroSciences LLC •
Indianapolis, IN 46268 U.S.A.

Specialty Insecticide

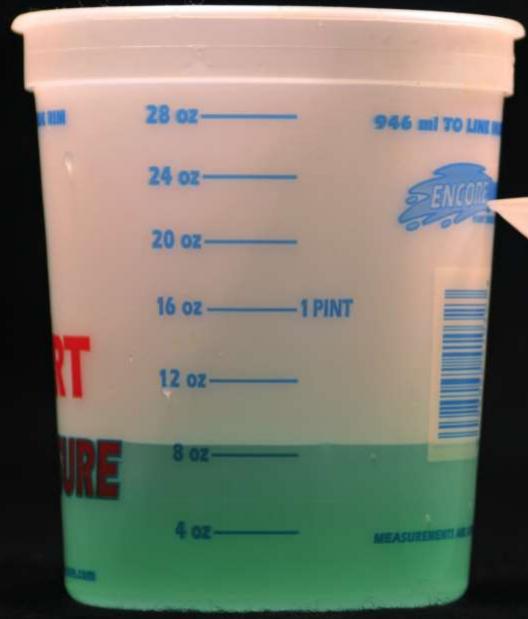
Net Contents 2.5 gal

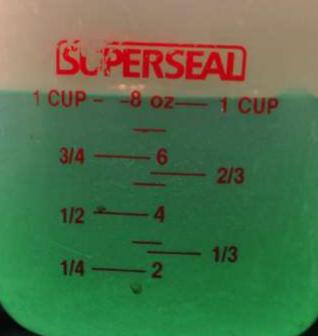




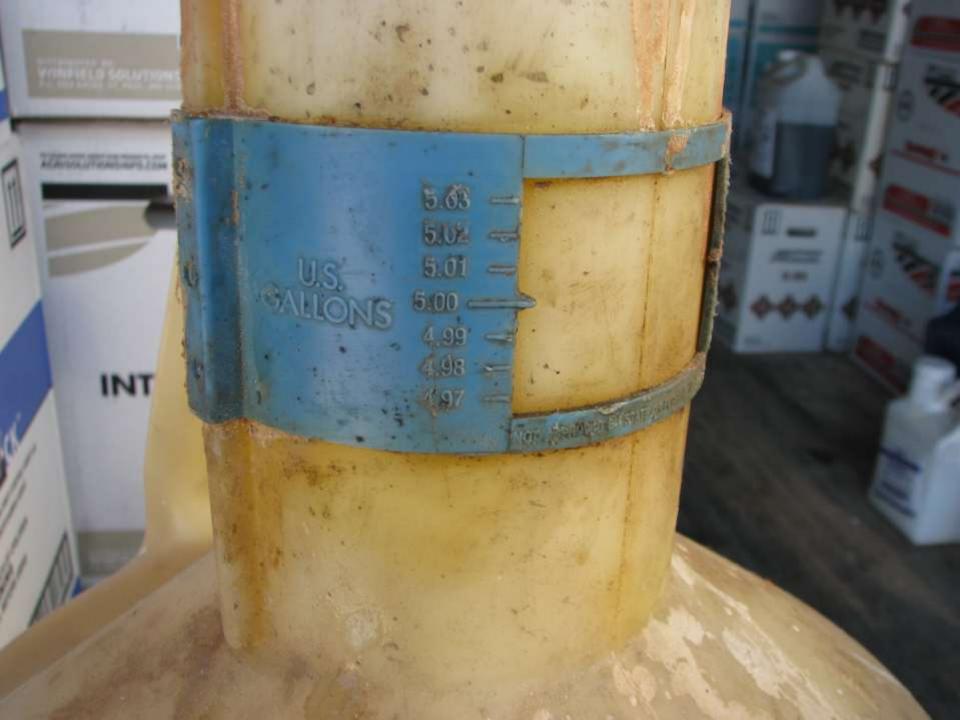




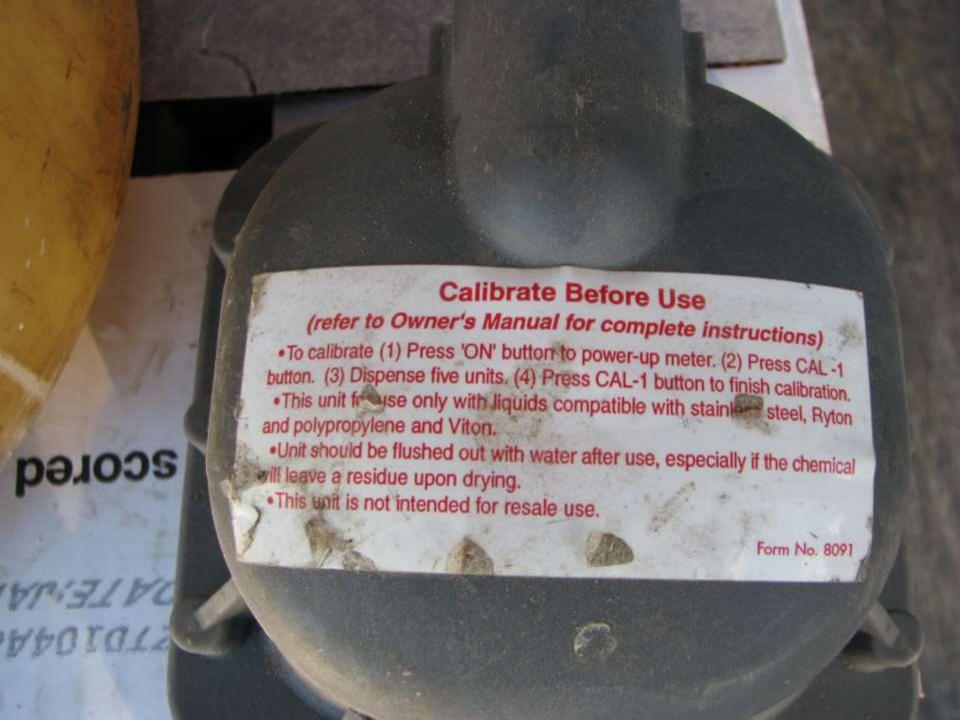




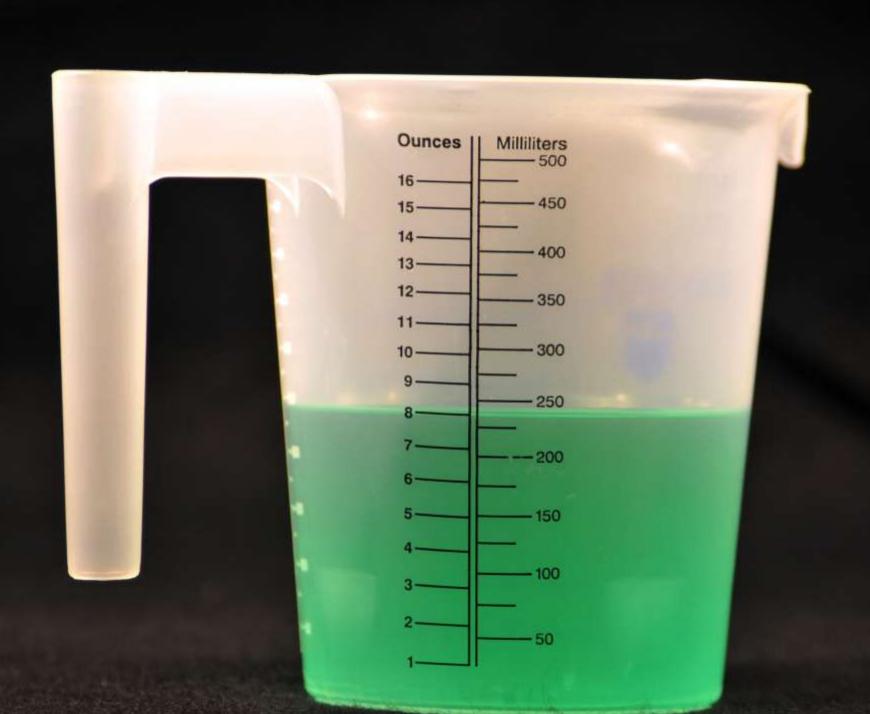




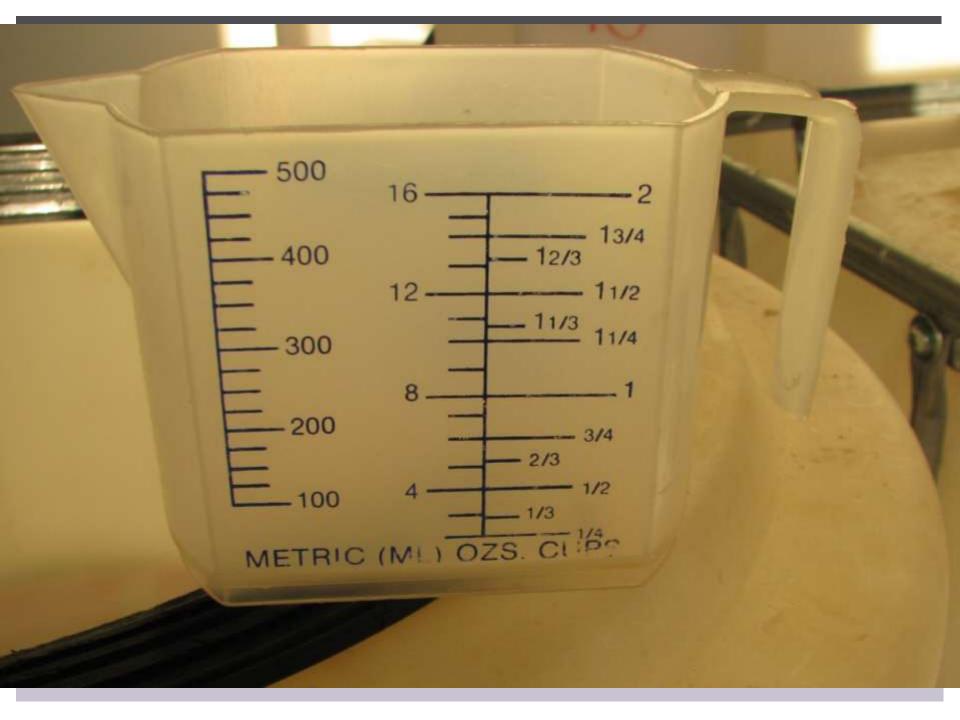
















Second Conclusion

 Make sure device is accurate

DRY OUNCES

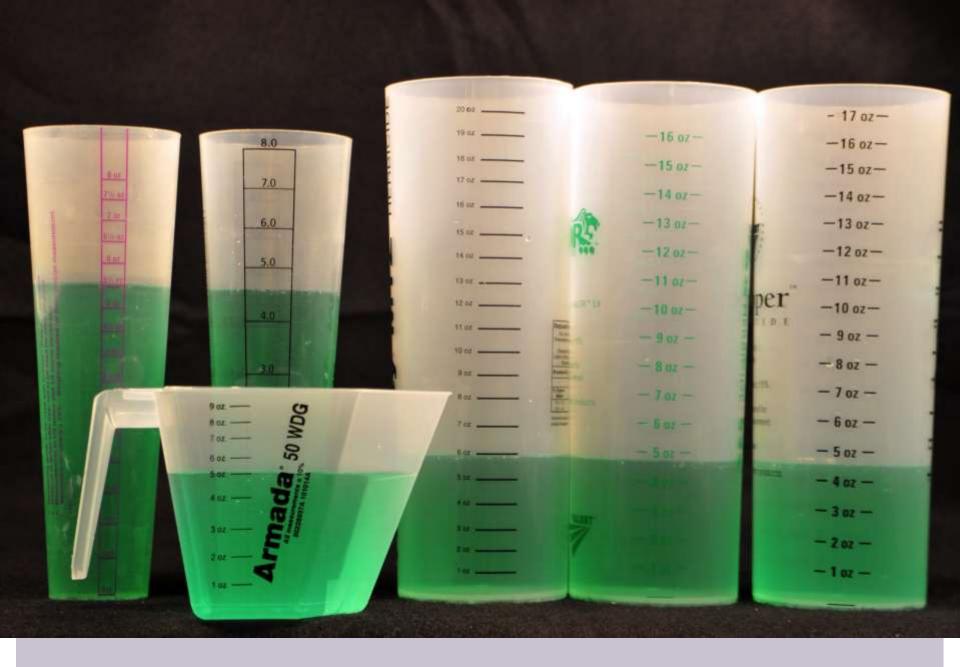


FLUID OUNCE VS. DRY OUNCE

- 3-oz table saltmeasured by volume
- 3-oz table saltmeasured by weight







8 liquid ounces of water

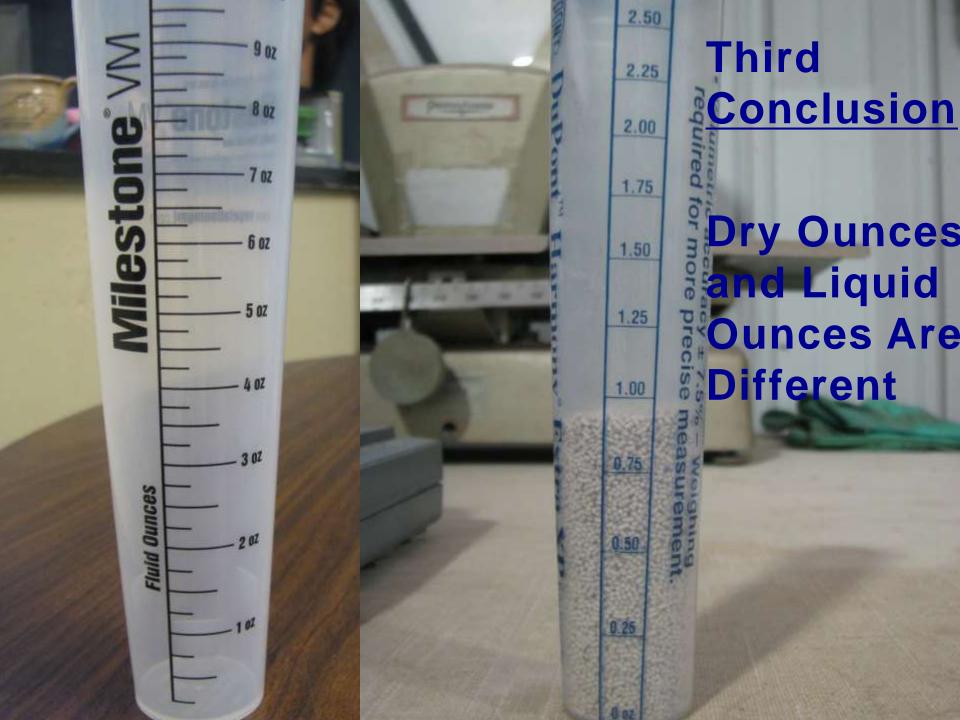




Tiny Baby's Growth a Christmas Miracle Born weighing less than a soda can

- •Updated: Thursday, 15 Dec 2011, 9:21 AM MST Published: Thursday, 15 Dec 2011, 9:21 AM MST
- ■PHOENIX An amazing story of survival -one of the world's smallest babies -- tipping in
 at only 9.5 ounces at birth -- is getting ready to
 head home. It's truly a Christmas miracle!
- Baby Melinda was so tiny that she could fit in the palm of her doctor's hand. She weighed less than a can of Coke.









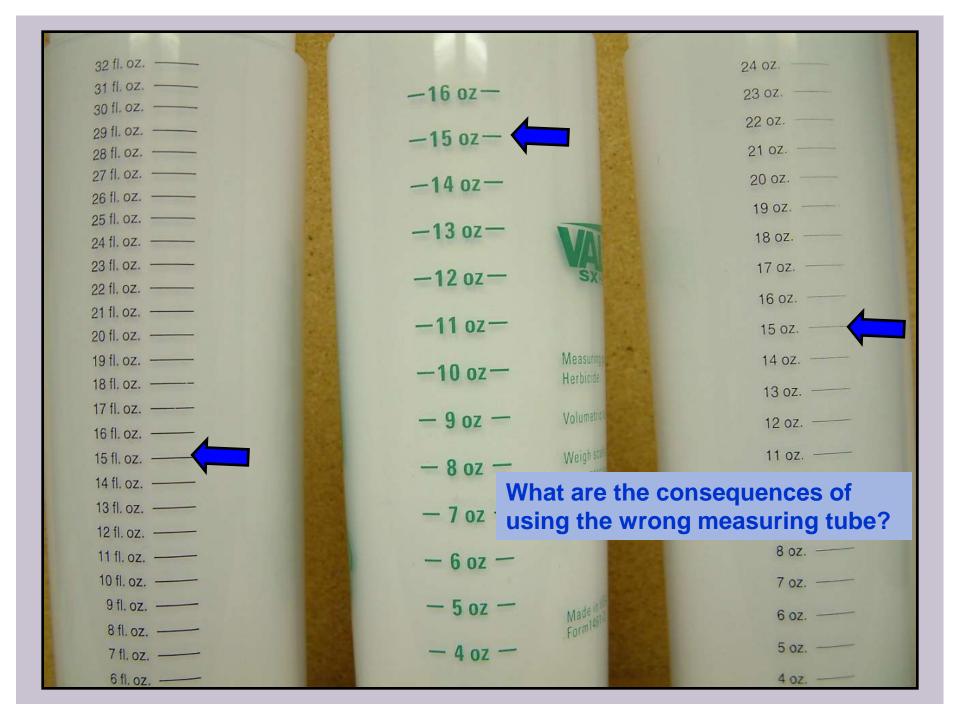






DRY OUNCE





- Measuring guide to be used with DuPont™ Arilon™ insecticide.
- Dispose of guide after use; not to be used for other products.
- Measurement will indicate the number of gallons the product will yield once mixed with water.
- Volumetric accuracy ± 7.5% Weighing required for more precise measurement.

A01474023









surface water is present or to intertidal areas below the mean high water mark. Drift may result in reduced germination or emergence of non-target plants adjacent to treated area.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not contaminate water when disposing or equipment washwaters. Do not apply directly to water, or to areas where

Read all Directions for Use carefully before applying.

NOTICE: The container cap for Gallery* T & V herbicide may be used to measure the amount of product required to treat small areas. When filled to the level of the inner lip, the cap contains approximately ½ ounce which is the amount of Gallery T & V needed to treat an area of 1,000 square feet. Please refer to label booklet for complete use directions and precautions.



When filled to this level, container cap contains 1/2 oz (14 grams) of Gallery T & V.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Children

nents

and

CAUCION

que a alguien para que you do not understand to you in detail.)

nhaled

spray mist, and contact

equipment (PPE)

or cleaning/maintaining nables, use detergent and erately from other laundy.



Fourth Conclusion

Use the measuring device that comes with dry materials

USE ONLY TO MEASURE



DuPont™ Streamline™

herbicide

This volumetric guide provides a reasonably accurate measurement of weight but where a high degree of accuracy is required, the material should be weighed.

Do not use the measuring guide for products other than DuPontTM StreamlineTM herbicide.

E. I. du Pont de Nemours and Company, Wilmington, DE 19898 A01402903

Do You Want Convenience or Accuracy?

- Measuring guide to be used with DuPont™ Harmony® Extra XP herbicide Dispose of guide after use; not to be used for other products.
- Measurements in 0.20, 0.25, and 0.33 ounce increments.
- Volumetric accuracy ± 7.5% Weighing required for more precise measurement.

Opensight

Specialty Herbicide

This volumetric device provides reasonably accurate measurement of weight (+/-10%). Where a high degree of accuracy is needed, the material should be weighed.

**Trademark of Dow AgroSciences LLC

V00-372-003 010-50780

900-016003 / 00336561



Clipper

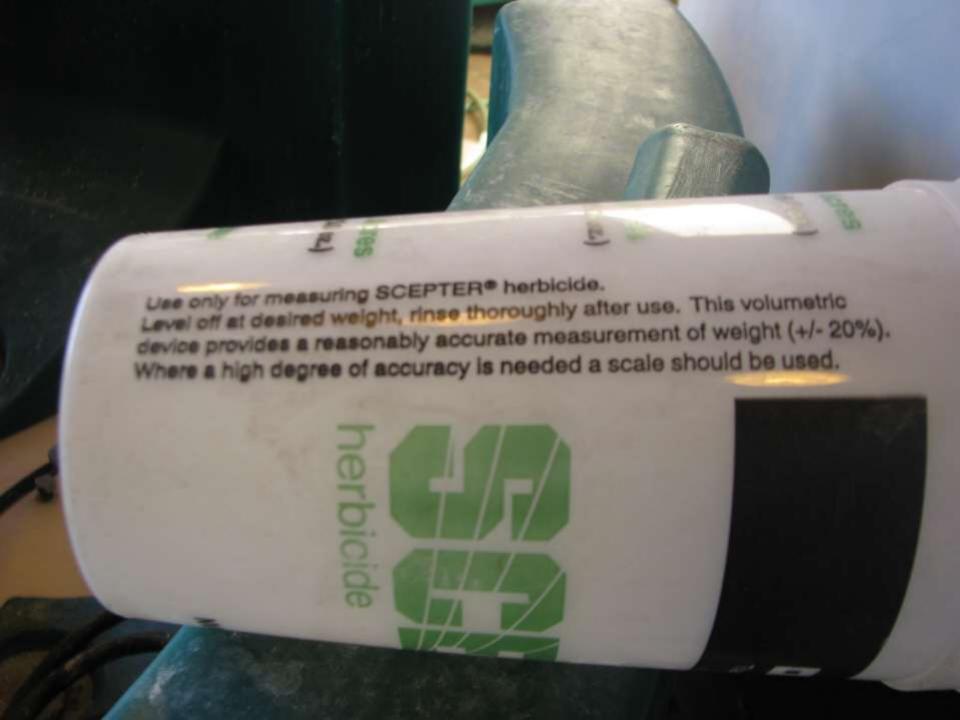
Measuring guide for Clipper™ Herbicide.

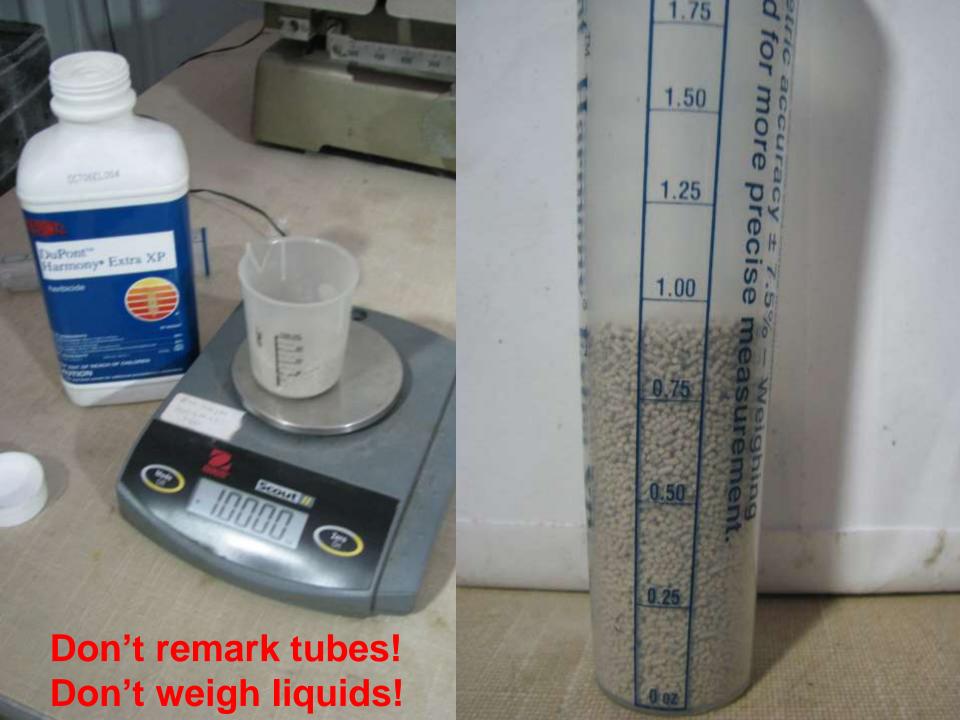
Volumetric accuracy ±15%.

Weigh scales required for more precise measurement.

Dispose of after use.

Not for use with other products.







Fifth Conclusion

Devices not very accurate. Weighing out material will get you the most accurate measurement.







Sixth Conclusion

•Throw away the measuring device after your supply has run out.



















Seventh Conclusion

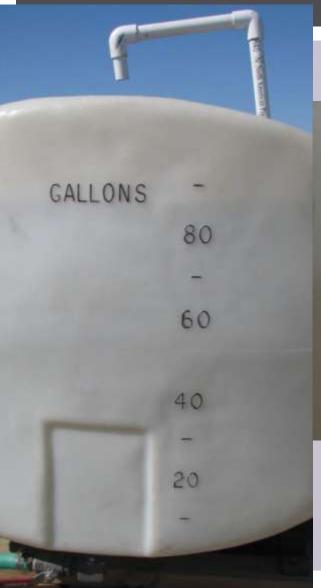
Keep the dry product agitated in the spray tank

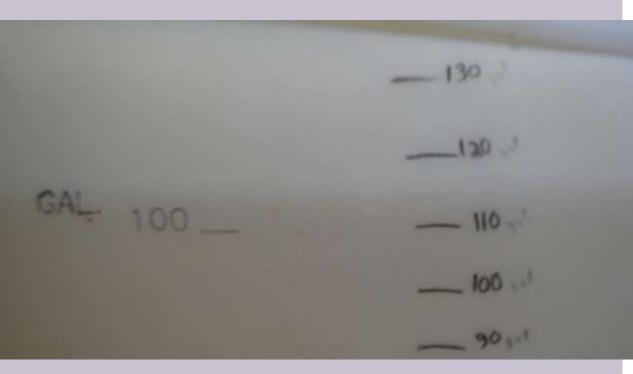
You might have to premix if water is really cold

VERIFYING TANK MEASUREMENTS



VERIFYING TANK MEASUREMENTS















More precision for ounce measurement

Dry and liquid ounces are different

Single liquid ounce units on measuring devices

Accurate
Measurement Starts
the Chain of Events to
Success or Failure

Use specific tubes made for dry products

Weigh dry products for accuracy



Throw away dry measuring tubes

Ask retailer for dry tube that came with product

Keep dry products well agitated

A Little Inaccuracy,
Perhaps a Ton of
Explanation

Make sure spray tank is accurately marked