Are Your Pesticides Measuring Up
Management
Pest ID
Product
Calibration
mixing
Site Awareness
Regulations
## Small Mistakes Can Be Costly

I Hope the Take-Home Message is Obvious!

<table>
<thead>
<tr>
<th>Herb</th>
<th>$/Ounce</th>
<th>Per Acre Rate</th>
<th>Cost</th>
<th>Over (%) 10</th>
<th>Over (%) 15</th>
<th>Over (%) 20</th>
<th>Over 600 acre day</th>
<th>Left in the Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>3</td>
<td>$12</td>
<td>$1.2</td>
<td>1.8</td>
<td>2.4</td>
<td>$720-1440</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>35</td>
<td>1/3</td>
<td>11.60</td>
<td>I Hope the Take-Home Message is Obvious!</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>6</td>
<td>2</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>4.5</td>
<td>3.5</td>
<td>15.75</td>
<td>1.6</td>
<td>2.4</td>
<td>3.15</td>
<td>$960-1890</td>
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</tr>
</tbody>
</table>
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
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 Requirements
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
237 milliliters = 8 ounces
Calibrate Before Use
(refer to Owner's Manual for complete instructions)

- To calibrate (1) Press 'ON' button to power-up meter. (2) Press CAL-1 button. (3) Dispense five units. (4) Press CAL-1 button to finish calibration.
- This unit for use only with liquids compatible with stainless steel, Ryton and polypropylene and Viton.
- Unit should be flushed out with water after use, especially if the chemical will leave a residue upon drying.
- This unit is not intended for resale use.

Form No. 8091
Second Conclusion

• Make sure device is accurate
DRY OUNCES
**FLUID OUNCE VS. DRY OUNCE**

- 3-oz table salt measured by volume
- 3-oz table salt measured 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.
Third Conclusion

Dry Ounces and Liquid Ounces Are Different
DRY OUNCE
What are the consequences of using the wrong measuring tube?
- 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.
Do not contaminate water when disposing of equipment or washwaters. Do not apply directly to water, or to areas where 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. 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 1/2 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.
Fourth Conclusion

Use the measuring device that comes with dry materials.
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.
This volumetric device provides reasonably accurate measurement of weight (+/-10%). Where a high degree of accuracy is needed, the material should be weighed.
Clipper Herbicide

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.
Use only for measuring SCEPTER® herbicide.
Level off at desired weight, rinse thoroughly after use. This volumetric device provides a reasonably accurate measurement of weight (+/- 20%). Where a high degree of accuracy is needed a scale should be used.
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.
Tank Agitation
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
Accurate Measurement Starts the Chain of Events to Success or Failure

More precision for ounce measurement

Dry and liquid ounces are different

Single liquid ounce units on measuring devices

Use specific tubes made for dry products

Weigh dry products for accuracy
A Little Inaccuracy, Perhaps a Ton of Explanation

Throw away dry measuring tubes

Ask retailer for dry tube that came with product

Keep dry products well agitated

Make sure spray tank is accurately marked