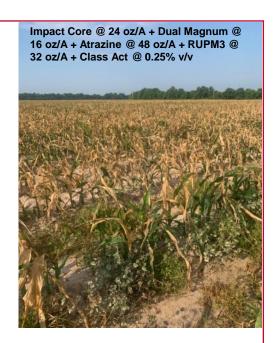


Preventing Preventable Problems on the Farm

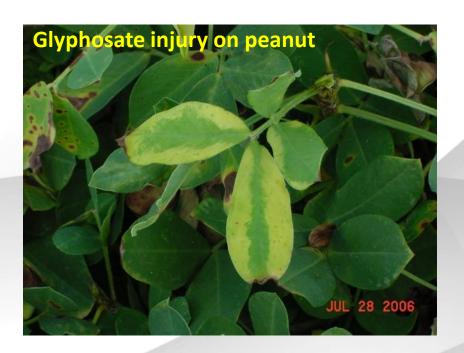


Eric P. Prostko

Professor/Extension Weed Specialist
Dept. Crop & Soil Sciences
University of Georgia

Why do I have this type of data?

- Peanut response to
 - > 2,4-D
 - Dicamba
 - Glyphosate
 - Glyphosate + Dicamba
 - Glufosinate
 - > Diuron
 - Picloram
 - Imazapyr
 - > Triclopyr
 - Aminopyralid
 - In 2023





Problems





Valor/Sprayer Cleanout/Field Corn







Valor/Sprayer Cleanout







Imazapyr in Field Corn





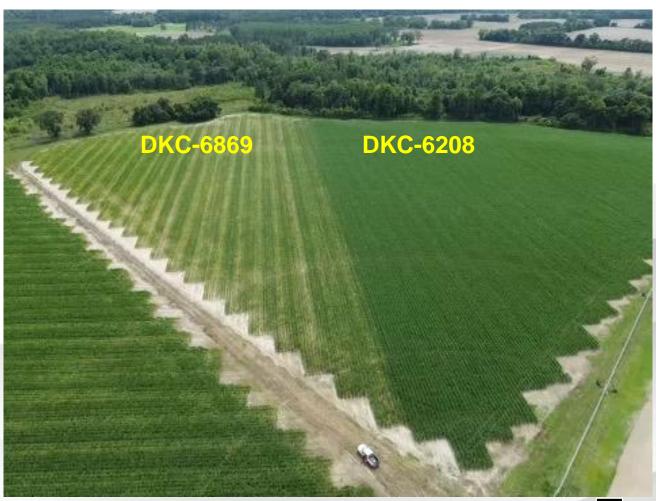
Oops!







Liberty (glufosinate) in Lay-By?





Jugs and Jugs?





Jugs and Jugs? (~\$1 million mistake)





Dicamba (Ugh!)







Tank-Mix Blues!

Cadre @ 3.5 oz/A + 2,4-DB @ 16 oz/A + Dual Magnum @ 20 oz/A + Domark @ 4 oz/A + Praiz @ 24 oz/A + Class Act NG @ 8 oz/A







Mixing Sequence

Was: 1) Gramoxone; 2) Storm; 3) Zidua SC Should have been: 1) Zidua SC; 2) Storm; 3)

Gramoxone







Why does this happen?



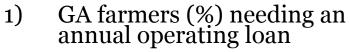
- 1) Plant on Time
- 2) Spray on Time
- 3) Harvest on Time
- 4) <u>Pay the Banker</u> <u>On Time</u>
- 5) Weather/Wind
- 6) Equipment
- 7) People



Did you know







- County1 60%
- > County2 95%
- County3 80%
- County4 80%
- > County5 80%
- > County6 80%
- > County7 90%



- > \$500,000
- *>* \$2,000,000
- **\$5,000,000+**





How do we fix this?



- 1. Phone a friend
- 2. Mix what you need
- 3. No label = NO MIX!
- 4. Head in Tank??
- 5. Label/Container Colors
- 6. Plumbing
- 7. Records
- 8. Label
- 9. Nix the Mix?
- 10. Weather/Wind/Common Sense

Phone A Friend



- County
 Agent/Specialist
- > Consultant
- > Dealer
- Priest/Rabbi/Imam



Mixing/Loading Area



This?



Or This?



NO LABEL = NO MIX!!!!





Head In Tank





Valent Tank Cleaner

Upon completion of all your Valor® Herbicide applications, and BEFORE spraying over-the-top of any crop, be sure to clean out the tank, hoses and nozzles with the new, uniquely-formulated Valent Tank Cleaner. This is the only tank cleaner that was specifically created for Valor and completely cleans Valor out of the sprayer system when used according to label directions and most importantly, mixed at the correct concentration.

DIRECTIONS FOR USE

- Completely spray out or empty any Valor spray mix from the sprayer.
- You must physically clean out all strainers, filters, nozzles, nozzle screens, diaphragms, boom ends, or anywhere that solution/ residue could accumulate or stagnate in the sprayer.
- Add 100 gallons of water to the spray tank, then add 1 gallon of Valent Tank Cleaner. Any ratio less than this will result in insufficient cleanout.
- Agitate for 5-10 minutes. Then charge pumps, hoses and nozzles by spraying a small amount of solution through the sprayer (ensure solution is spraying out of the nozzles).
- Shut off sprayer, keeping the hoses and nozzles "charged" under pressure.
- Now add 1 gallon of Valent Tank Cleaner to the tank for every additional 200-400 gallons of water added until the tank is full. If residue film is apparent in tank or solution sat in tank for multiple days, increase to 2 gallons/200 gallons.
- Let tank and sprayer system sit overnight or at least a minimum of 12 hours.
- The next morning, spray out solution through the boom for 10 minutes and then drain remaining solution until sprayer is empty.
- Flush spray tank with clean water and empty. Check all strainers, filters, nozzles & nozzle screens, as this process can "strip" old residues from within the sprayer.

NOTE: Following these procedures is critical to remove residue from the sprayer system. Valent Tank Cleaner is available from your Valor supplier.



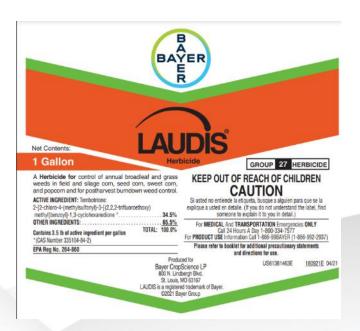
Valor/Sprayer Cleanout







Pesticide Containers Label/Container Color?





©2019 Bayer CropScience





Or This?



- "Works good when you stand a bunch of white jugs up on water truck side by side."
 - Kerry Hodges, Screven Co. (GA) Farmer, 10/11/2022



Plumbing (multiple tanks on 1 tractor)





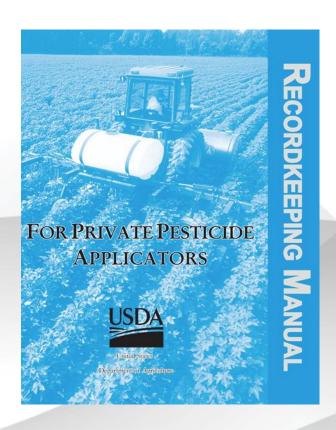
Records













Label Read/Reform?







Complete Directions for Use

Selective broad-spectrum weed control in Roundup Ready" and other listed glyphosate tolerant crops Non-selective, broad-spectrum weed control for many agricultural systems and farmsteads

| ACTIVE INGREDIENT: "Glyphosale, N-(phosphonomethyl) glycine, in the form of its potassium salt DTHER INGREDIENTS: | 51.2% |
|--|--------|
| | 100.0% |
| *Contains 705 grams of the active ingredient glyphosate, in the form of its potassium salt or 5.88 pounds per U.S. gallon, which is equivalent to 575 grams of the acid, glyphosate, p 4.8 pounds per U.S. gallon (41.8% by weight). | |

Keep out of reach of children

CAUTION

See inside for additional precautions.

Not all products listed on this label are registered for use in California. Check the registration status of each product in California before using.

AVOID CONTACT OF THIS HERBICIDE WITH FOLINGE, GREEN STEINS, EXPOSED NON-WOODLY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, EXCEPT AS DIRECTED FOR USE ON ROUNDUP READY" AND OTHER LISTED GLYPHOSATE TOLERANT CROPS, AS SEVERE PLANT INJURY OR DESTRUCTION COULD RESULT.

> FOR PRODUCT INFORMATION OR ASSISTANCE USING THIS PRODUCT, CALL TOLL-FREE, 1-866-998AYER (1-866-992-2937). IN CASE OF AN EMERGENCY INVOLVING THIS HERBICIDE PRODUCT,

EPA Ring, No. 524-659
Packed For:
BAYER CROPSCIENCE LP

800 N. LINDBERGH BLVD.
ST. LOUIS, MISSOURI, 63167 USA
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EPA Est. 524-IA-1

- 29 pages long
- All sections in same place?
 - i.e. crop rotation restrictions on page



Nix the Mix? (When You Can)



Reflex, Zidua, B-Moly, Glyphosate, Brandt Smart Trio (N + S + B + Mn + Zn)

- Solving all pest/fertility problems in 1 application
- More products = More problems
- Mixing order is important
- Impossible to get enough good data for all scenarios
 - TOD, temperature, humidity, leaf wetness, plant health, etc.



Weather/Wind/Common Sense





paraquat drift on field corn



Questions/Comments



