

Palmer Amaranth in Delaware



Cooperative Extension

COLLEGE OF AGRICULTURE &
NATURAL RESOURCES

**Palmer Amaranth and Redroot
Pigweed* look very similar:**

Will you be able tell them apart ???

***What most people in DE call redroot pigweed is really smooth pigweed**

Palmer amaranth

- Summer annual weed
- Fastest growing pigweed
- Very competitive
- Very drought tolerant
- Emerges from spring until frost
- Produces over 600,000 seeds per plant
 - separate male and female plants
- Develops resistance to herbicides quickly



**GLYPHOSATE-RESISTANT PALMER AMARANTH HAS BEEN
CONFIRMED IN DE AND MD**

Comparing Seedlings

Palmer amaranth

- None to very few hairs on stem and leaves
 - leaves have shinier appearance
- Occasionally v-shaped watermark
 - visible on less than 5% of the plants
- Long petioles, narrower leaves

Smooth pigweed

- Hairs on stem and leaves
 - leaves have “duller” appearance
- No watermarks
- “Shorter” petioles, wider leaves



Palmer amaranth
no hairs on stem

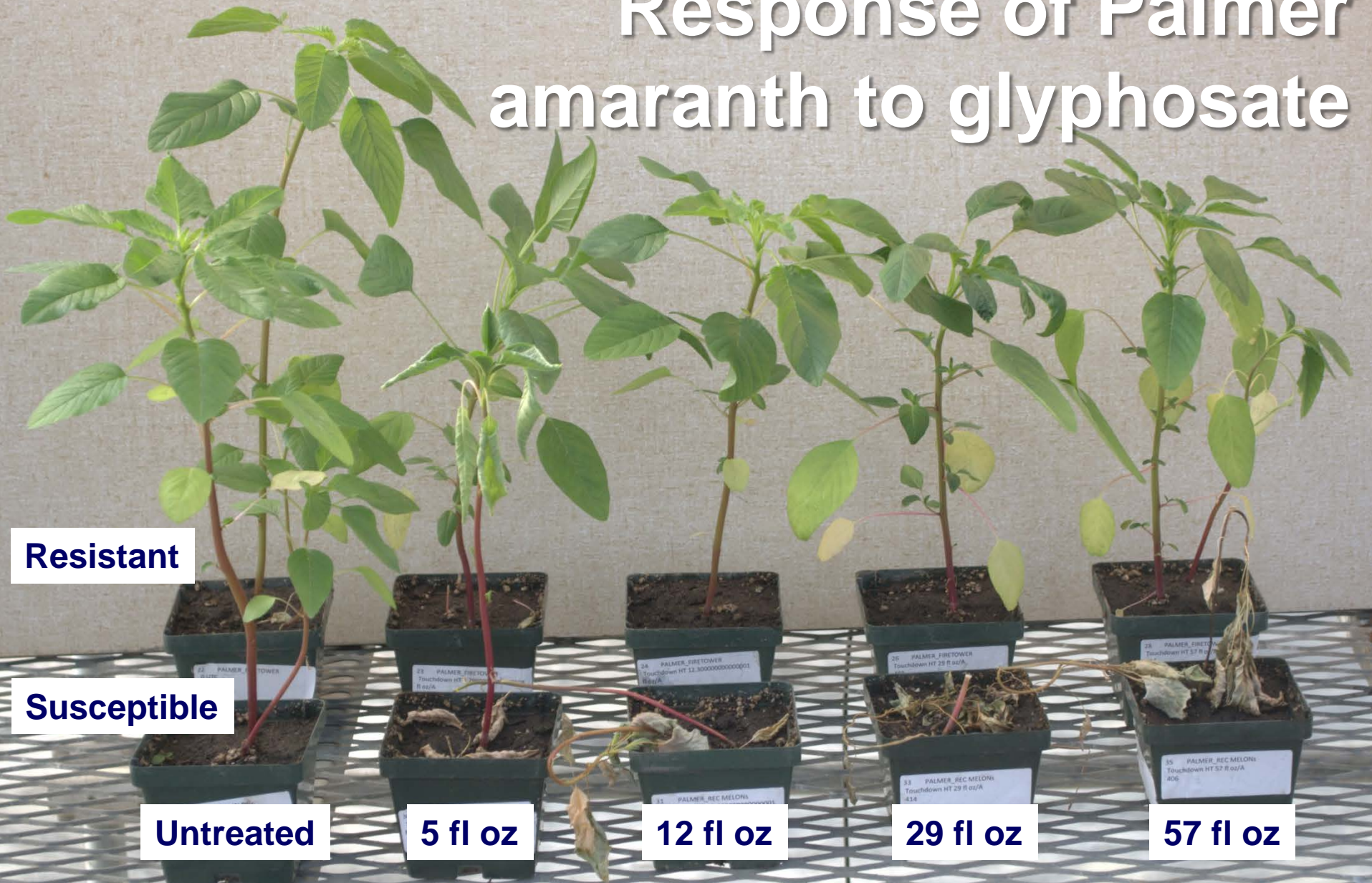


Smooth pigweed
Fine hairs on stem

**Palmer amaranth
watermarks are very
distinctive –
*but they are found on
very few plants***



Response of Palmer amaranth to glyphosate



Touchdown Total plus surfactant was used

29 fl oz of Touchdown Total is similar to 1 qt of Roundup WeatherMax

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