

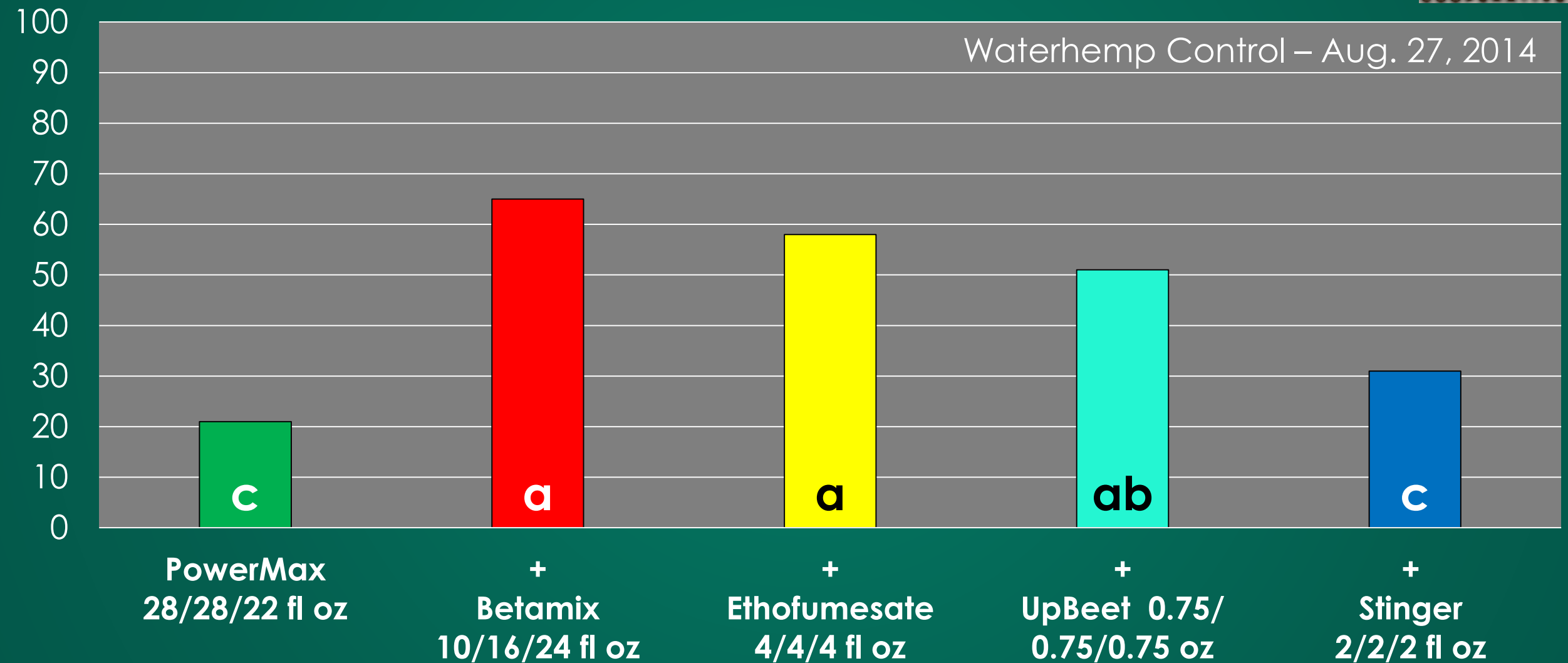
Waterhemp Control...



- Trials at 3 locations, Lake Lillian, Herman and Moorhead, MN
- Herman, MN
 - Planted May 30, 2014
 - Treat center 4 rows of 6 row plots
 - PRE treatments applied May 30th
 - Three POST applications
 - June 23rd, July 2nd & July 10th
 - Evaluate Post-Emerge, Pre-Emerge and Lay-By applications
- ***Trial conducted by Dr. Tom Peters***

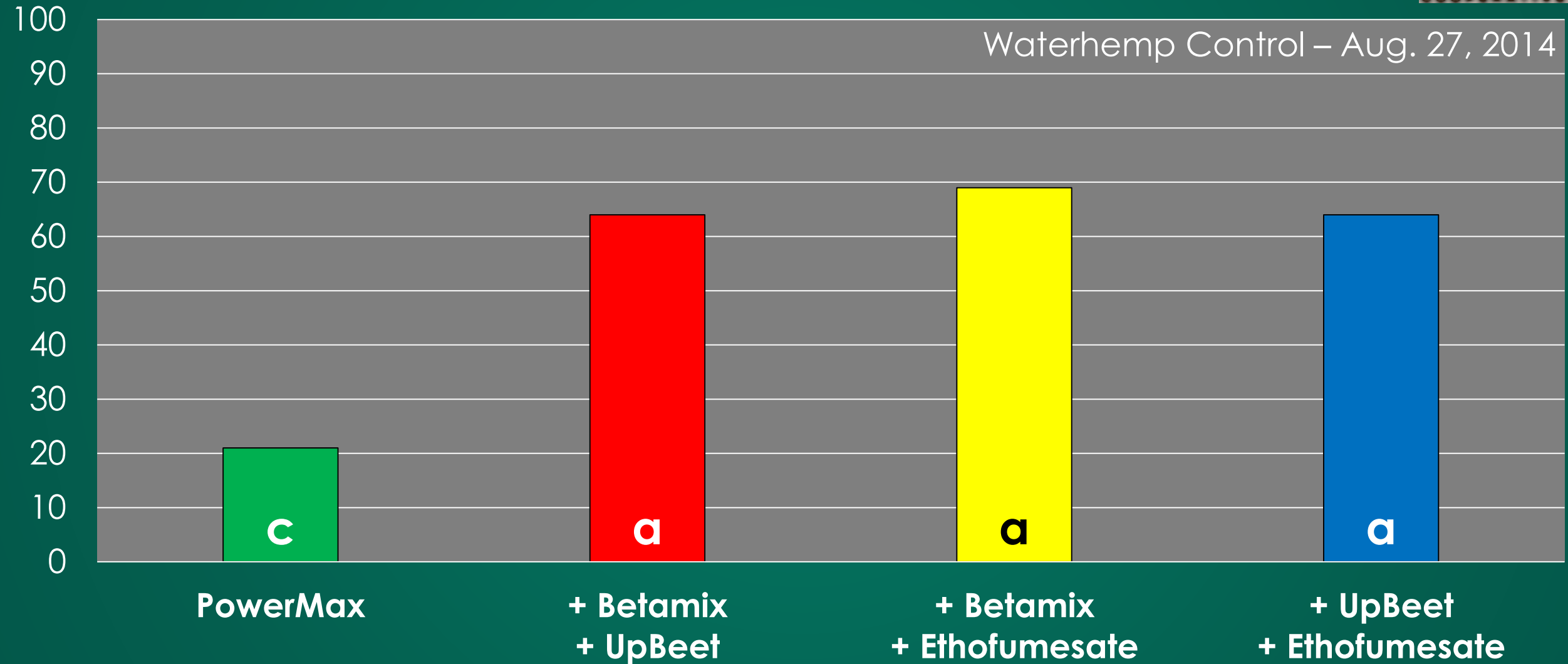


Post-Emergence Treatments...



$p(0.05)$

Post-Emergence Treatments...



$p(0.05)$

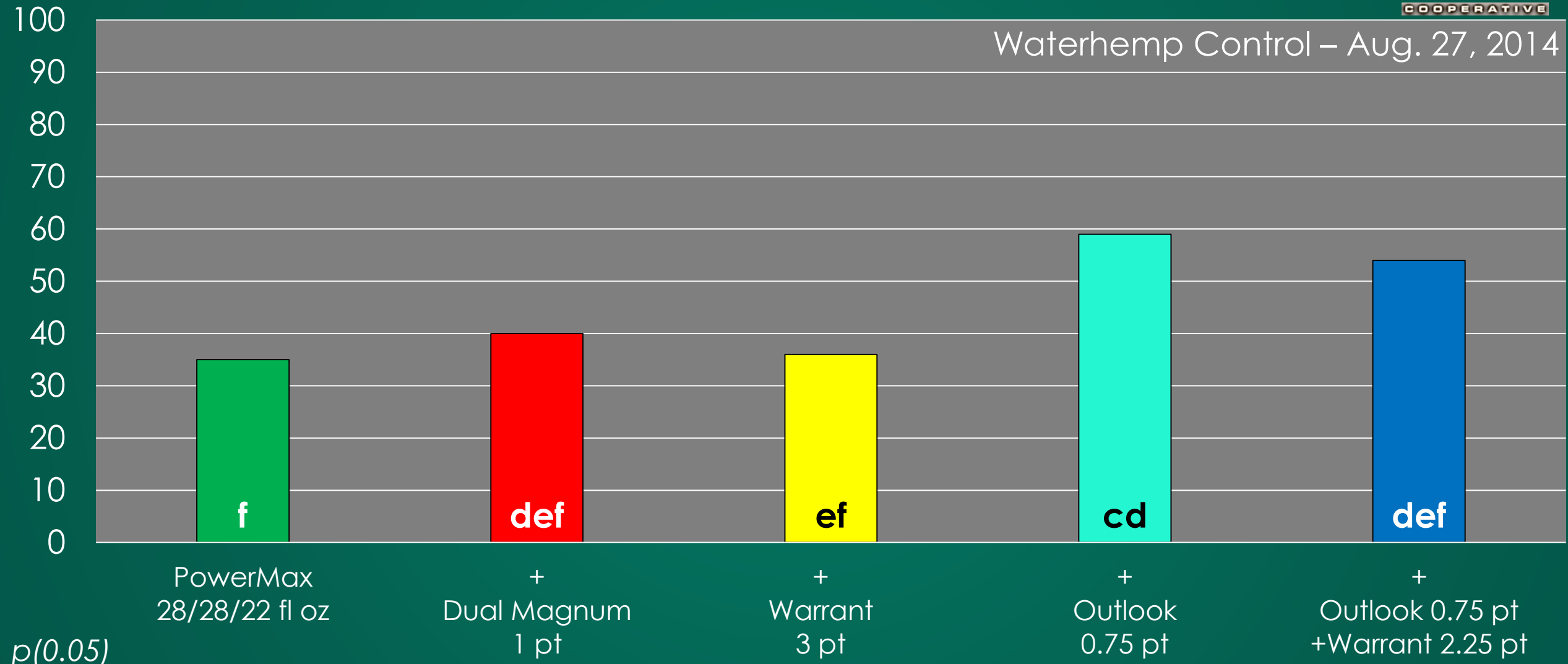


**Glyphosate
(14 days after last treatment)**



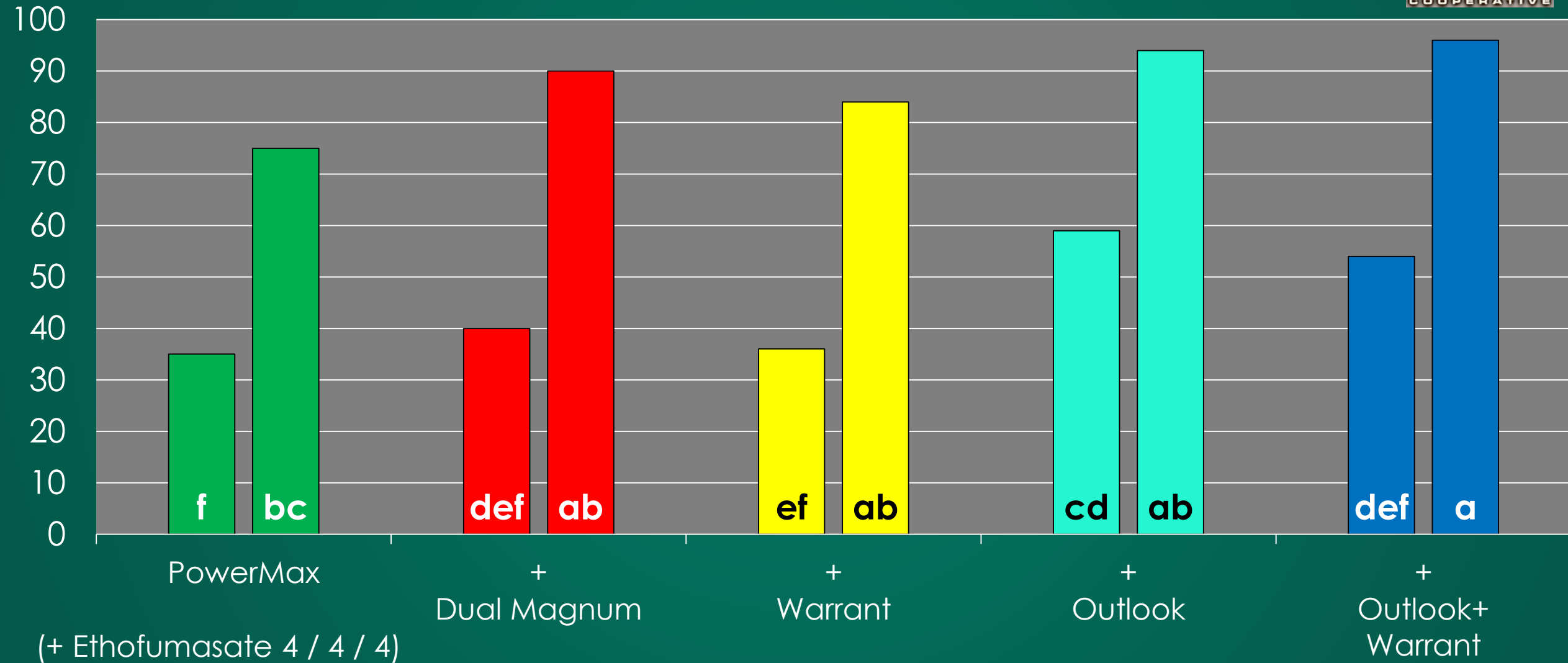
**Glyphosate + Ethofumesate
(14 days after last treatment)**

Lay-By Application



Lay-By Application was made on June 23rd / 4-6 lf Beets / 2.5" Waterhemp

Lay-By Application + Ethofumasate



$p(0.05)$



PowerMax
(48 days after last trt)



PowerMax + Ethofumesate
(48 days after last trt)



**PowerMax + Outlook
(48 days after last treatment)**

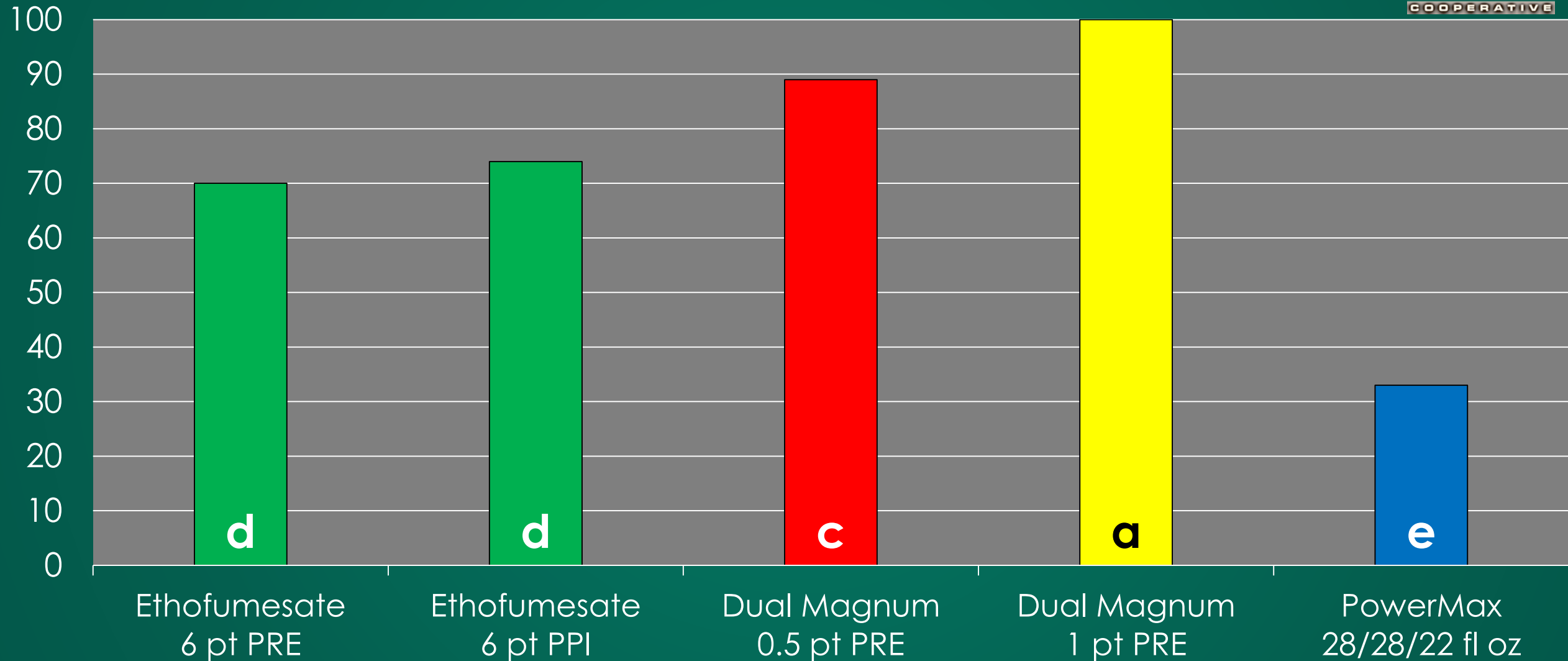


**PMax + Ethofumasate + Outlook
(48 days after last treatment)**

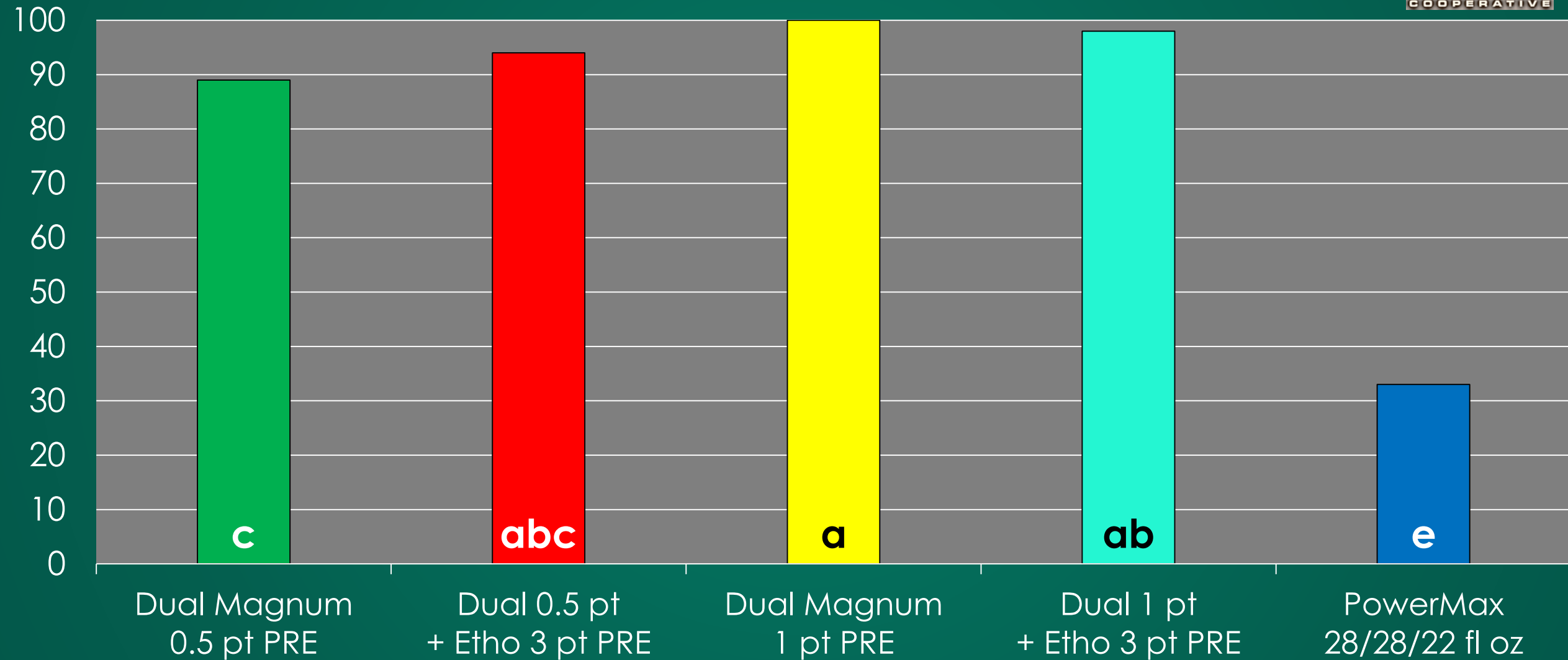


Pre-Emerge Herbicides at Work

Pre-Emergence Treatments...



Pre-Emergence Treatments...



$p(0.05)$

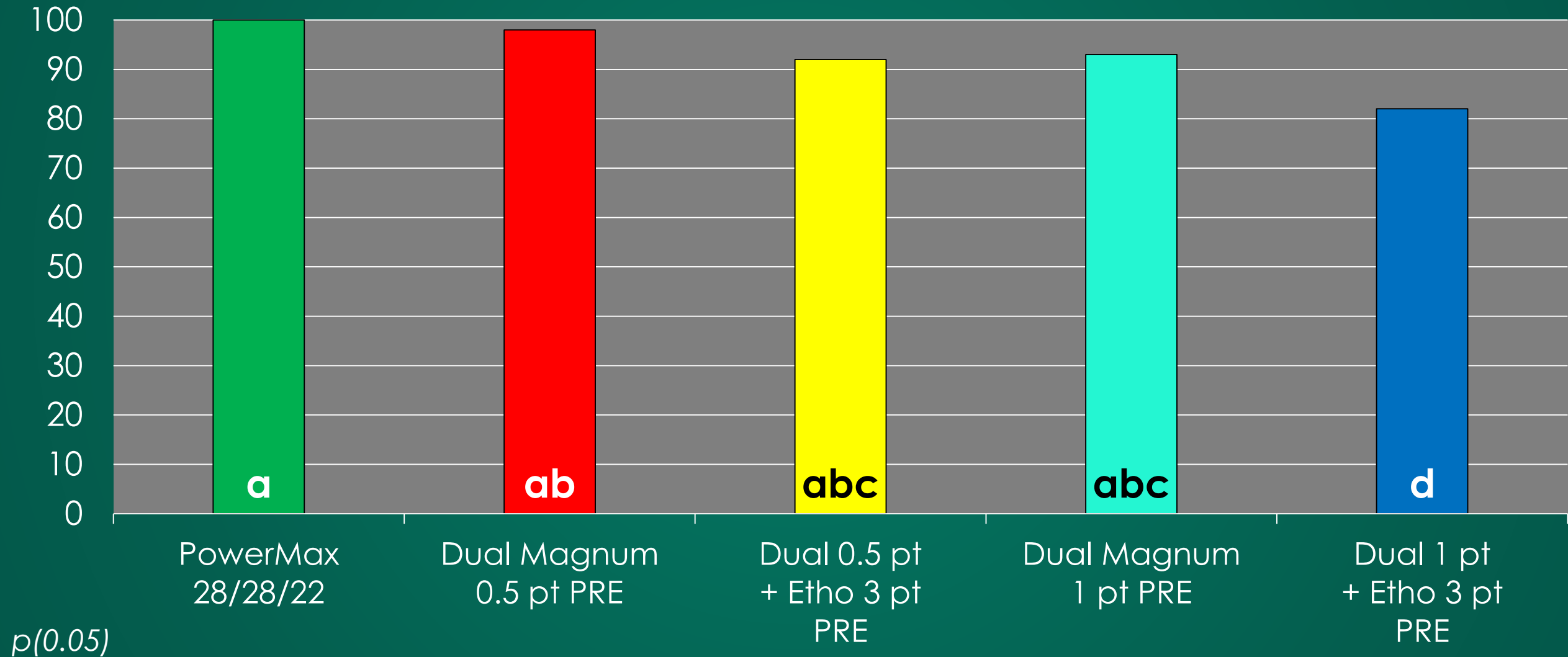


**PowerMax
(48 days after last treatment)**



**PRE Dual (0.5 pt) + Etho (3 pt)
(48 days after last treatment)**

Pre-Emergence Treatments...



Waterhemp Summary...

Waterhemp as a Minor Weed

- Glyphosate 0.98 / 0.98 / 0.77 (PowerMax 28/28/22 fl oz)** + Ethofumesate 4 / 4 / 4 fl oz + AMS + HSMOC

OR...

- Glyphosate 0.98 / 0.98 / 0.77 (PowerMax 28/28/22 fl oz)** + Betamix 10 / 16 / 24 fl oz + AMS + HSMOC

**Glyphosate at 1.125 lb/A (PowerMax 32 fl oz) if one application before 8-leaf sugarbeet stage

Waterhemp Summary...

Known resistance - Low to Moderate Infestation

- Glyphosate 0.98 / 0.98 / 0.77** + Betamix 10 / 16 / 24 + Ethofumesate 4 / 4 / 4 fl oz + AMS + HSMOC + **lay-by herbicide (2 lf sgbt)**

OR...

- **PRE Dual Magnum 0.5 pt + Ethofumasate 2.0 pt/A** fb Glyphosate 0.98 / 0.98 / 0.77** + Betamix 10 / 16 / 24 + Ethofumesate 4 / 4 / 4 fl oz + AMS + HSMOC

**Glyphosate at 1.125 lb/A (PowerMax 32 fl oz) if one application before 8-lf sugarbeet stage

Waterhemp Summary...

Known resistance – Moderate to Heavy Infestation

- **PRE Dual Magnum 0.5 pt + Ethofumasate 2.0 pt/A** fb Glyphosate 0.98 / 0.98 / 0.77** + Betamix 10 / 16 / 24 + Ethofumesate 4 / 4 / 4 fl oz + AMS + HSMOC + **lay-by herbicide (2 lf sgbt)**

OR...

- **PRE Dual Magnum 0.75 pt/A** fb Glyphosate 0.98 / 0.98 / 0.77** + Betamix 10 / 16 / 24 + Ethofumesate 4 / 4 / 4 fl oz + AMS + HSMOC + **lay-by herbicide (2 lf sgbt)**

**Glyphosate at 1.125 lb/A (PowerMax 32 fl oz) if one application before 8-lf sugarbeet stage

A Couple Last Thoughts on Weed Control...



- Consider your rotation:
 - Liberty-Link[®]
 - Enlist Duo[®]
 - Wheat (or other small grains)
- Need to start accepting a “moderate” level of beet injury to get adequate weed control...