

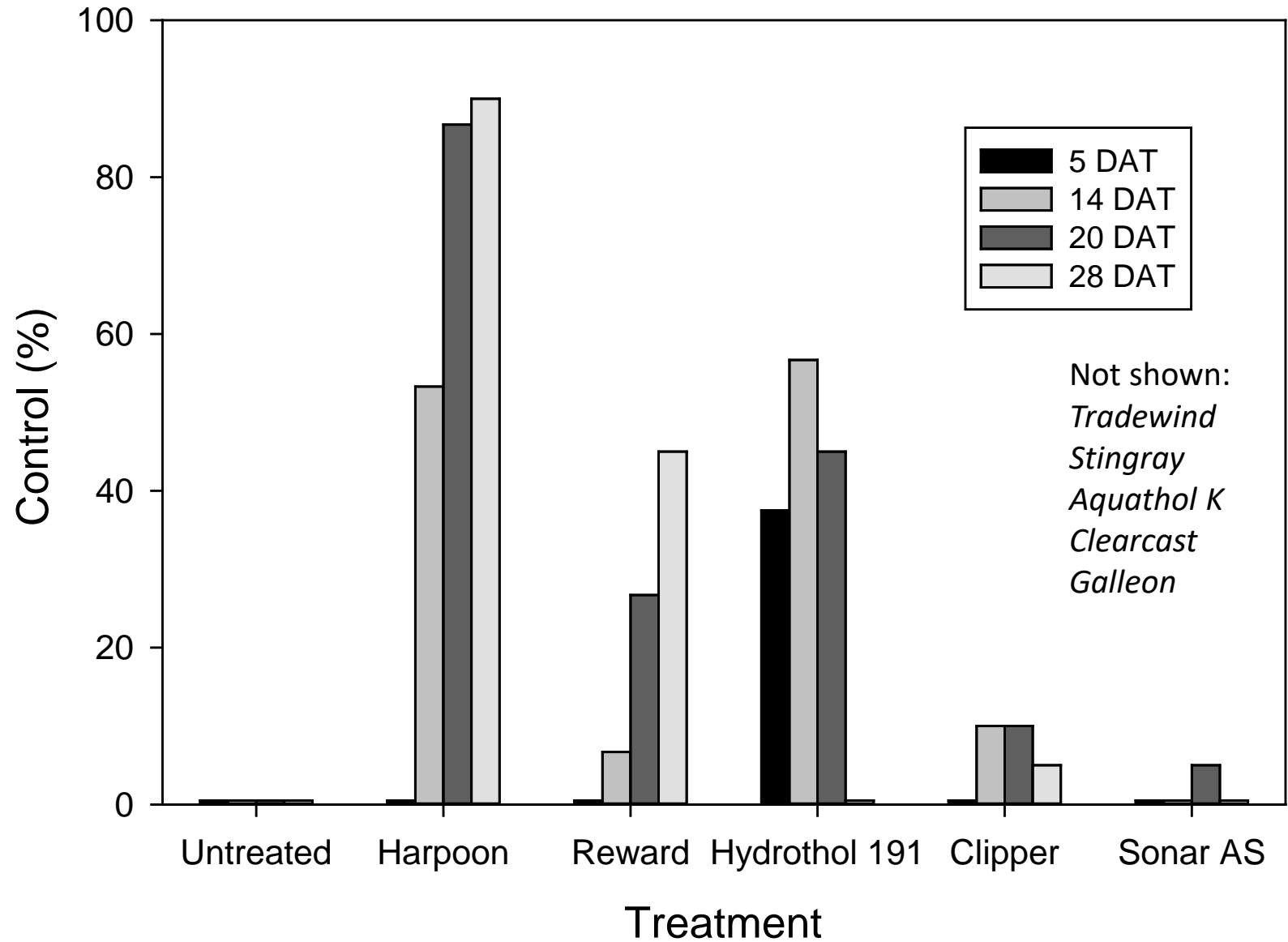
Egeria
mesocosm
study

<i>Product</i>	<i>Chemical</i>	<i>Rate</i> <i>(ppb)</i>
Untreated		
Tradewind	Bispyribac Sodium	45
Stingray	Carfentrazone	200
Harpoon	Copper	1000
Reward	Diquat	390
Aquathol K	Endothall (Potassium)	5000
Hydrothol 191	Endothall (Amine)	5000
Clipper	Flumioxazin	400
Sonar AS	Fluridone	60
Clearcast	Imazamox	500
Galleon	Penoxsulam	60

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Egeria mesocosm study



Waterhyacinth surfactant and herbicide studies

- Constructed floating 1m x 1m plots and deployed in Rhode Island
- Added small waterhyacinth rosettes to cover surface
- Each treatment replicated four times



Surfactants, 1.5 pt/A

applied with glyphosate 32 oz ae/A*
in total spray solution of 100 GPA

- **untreated**
- ***AgriDex***
- ***Rainier-EA***
- ***Cygnnet Plus***
- ***Competitor***

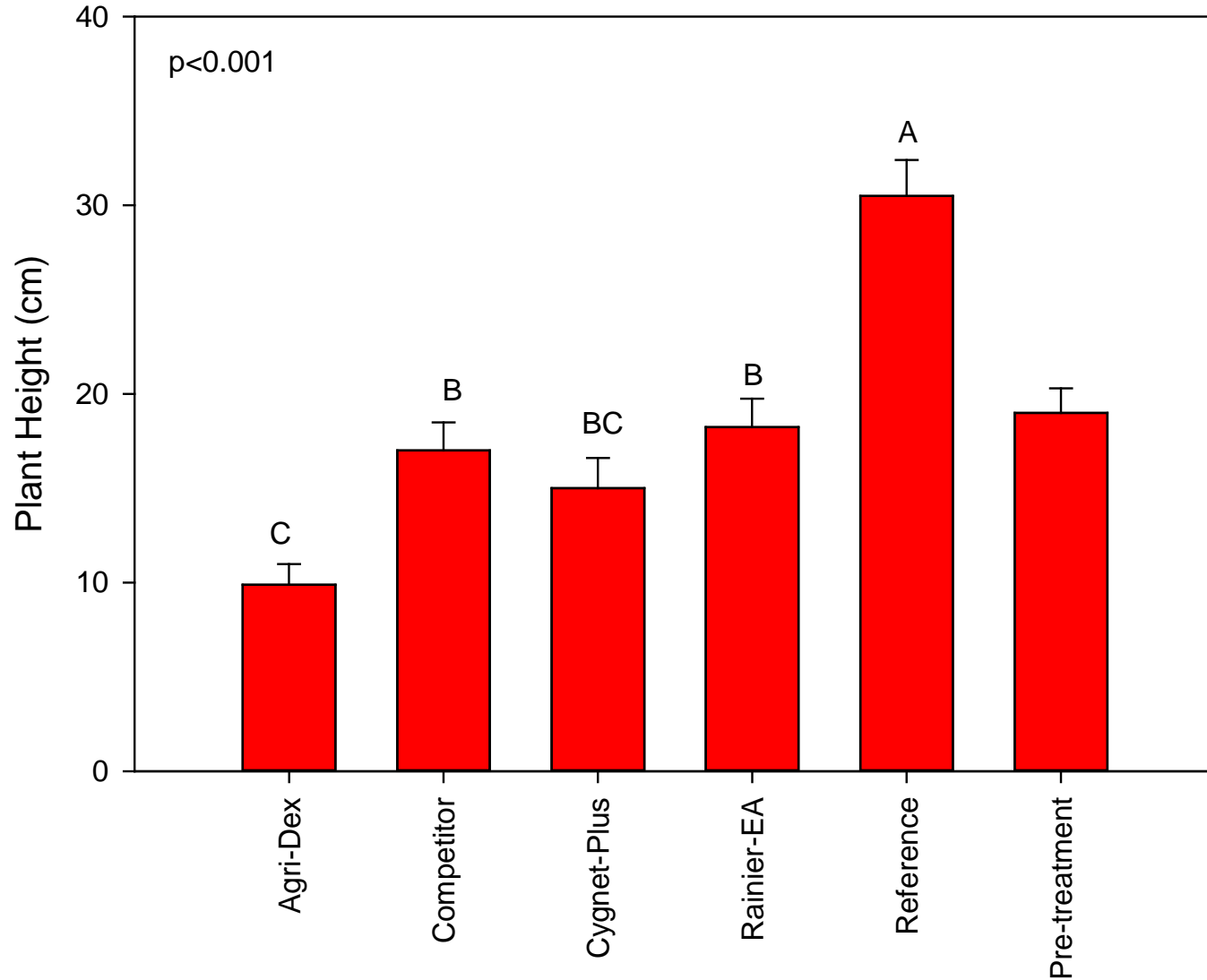
*3 pt/A *Roundup Powermax*



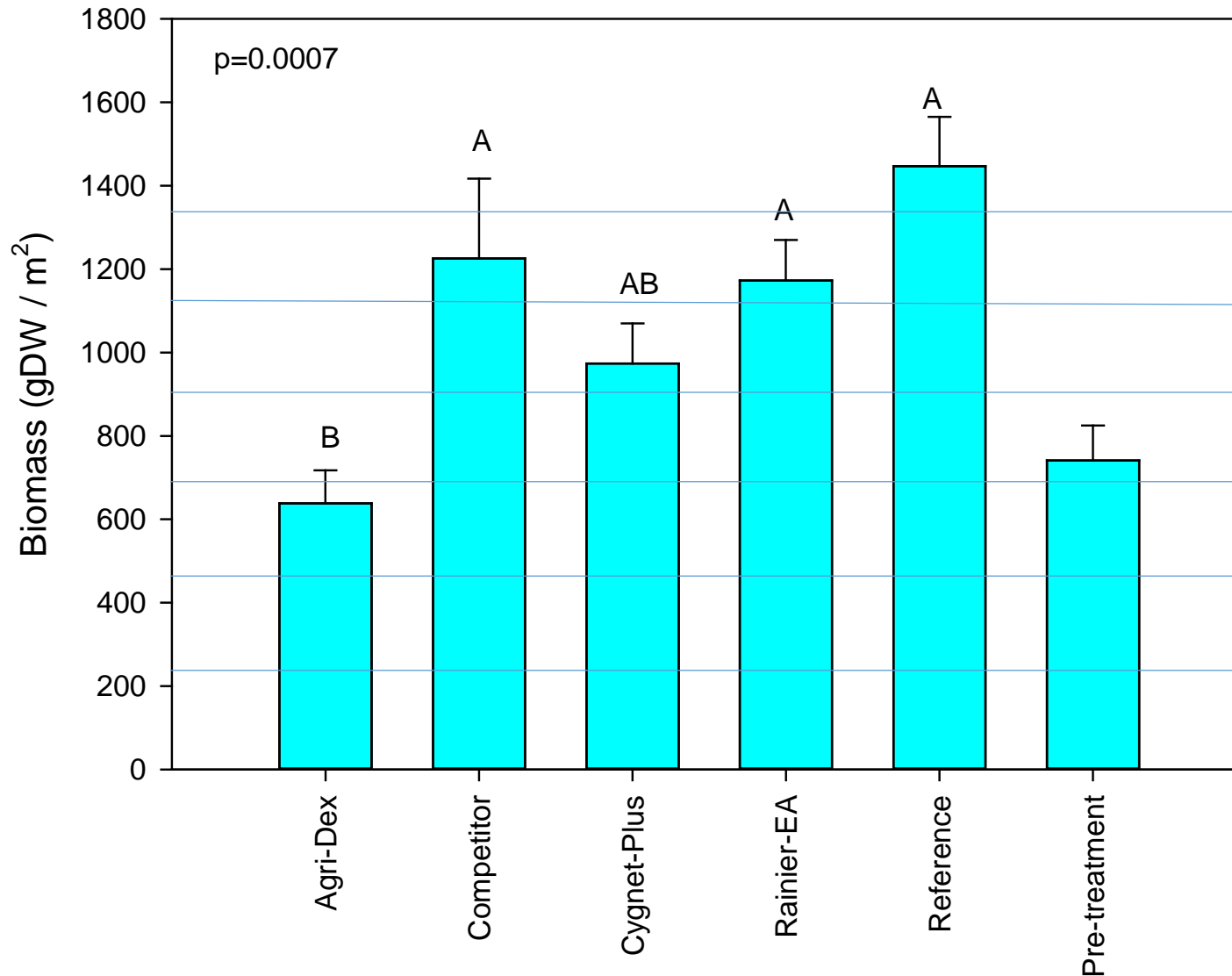




Waterhyacinth plant height v surfactant



Waterhyacinth biomass v surfactant



Waterhyacinth herbicide trials

applied with *Agridex* 1.5 pt/A
in total spray solution of 100 GPA

Treated 6/23/16

Active ingredient	Product	Rate / acre (oz)	
		product	AI
2,4-D	<i>Weedar 64</i>	32	32
		64	64
glyphosate	<i>R/U Custom</i>	48	24
		96	48
imazamox	<i>Clearcast</i>	24	8
		48	16
penoxsulam	<i>Galleon SC</i>	3	0.7
		5	1.4
untreated			

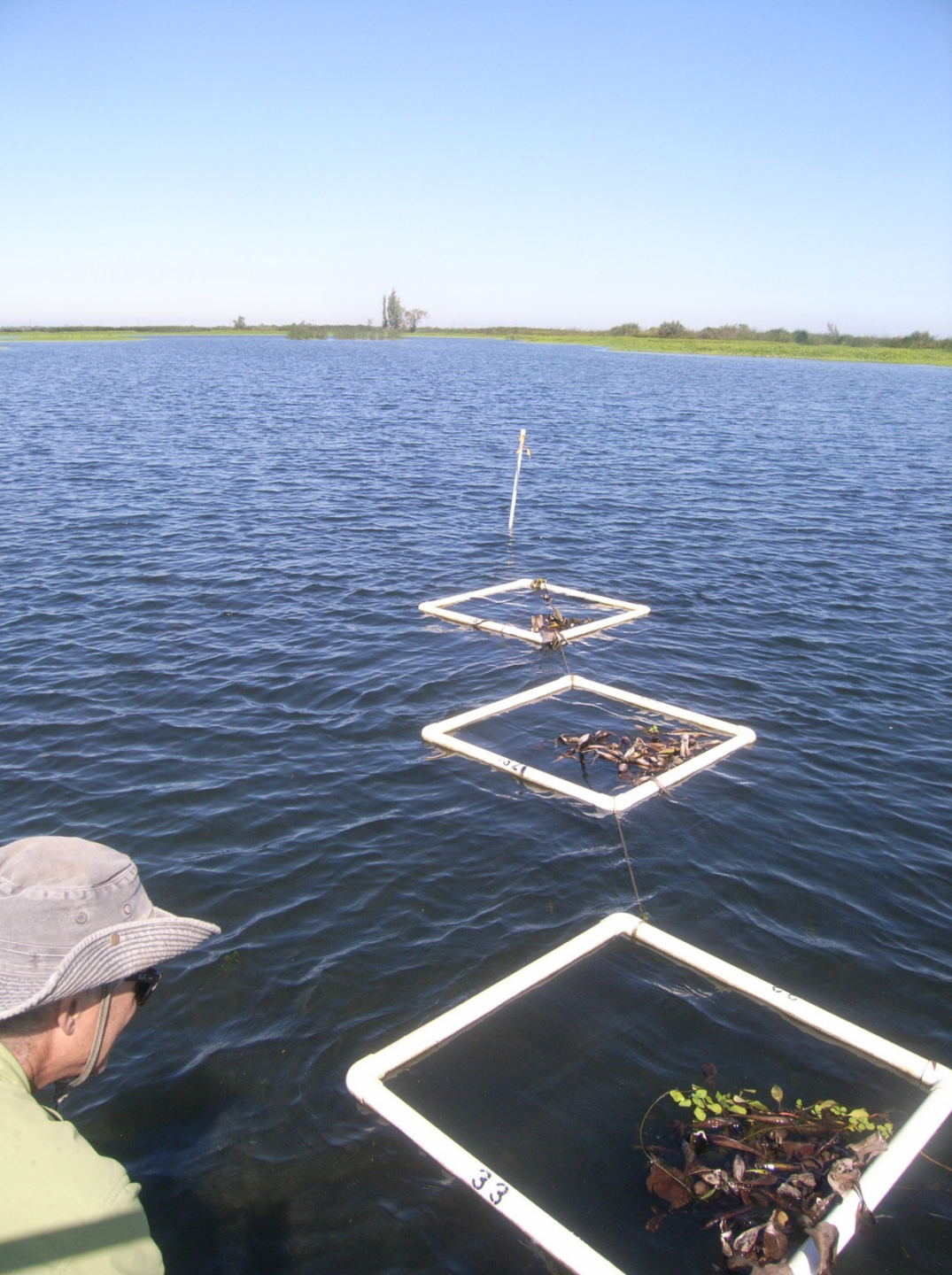
Treated 9/16/16

Active ingredient	Product	Rate / acre (oz)	
		product	AI
imazamox	<i>Clearcast</i>	64	21.3
		32	10.7
		16	5.3
penoxsulam	<i>Galleon SC</i>	8	2.7
		5.6	1.4
		2.8	0.7
penoxsulam	<i>Galleon SC</i>	1.4	0.35
		0.7	0.18
glyphosate	<i>R/U Custom</i>	48	24
untreated			









Preliminary results indicate glyphosate is the most effective of the tested herbicides

Previous studies have shown that early-season applications are most effective

Upcoming trials

- Repeat *Egeria* study
- Begin *Ludwigia* trials

Wish list

- Timing, spray volume trials on waterhyacinth
- Application techniques on arundo



