

Preemergence Herbicide Demonstration Plots

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Assessed Needs

- Container woody growers were having more problems
- Sales were down
- Plants were residing longer
- Labor was reduced
- Same herbicide use

Demonstration Plots

- Goal
 - To see effectiveness of preemergent herbicides in worst case scenario
 - Longevity of control
 - Herbicide selectivity!!!

Demonstration Plots

- Constructed with treated 2x4 and groundcover.
- Plot size is 1/10,000th of acre
- Filled with used weedy potting soil (pine bark/peat/sand)
- Collected weed seeds dispersed over the top bittercress, beggar's tick (Spanish needle), artillery fern, spurge, doveweed, kylinga, and grass weeds

Demonstration Plots

- Weed seeds were evenly distributed and raked into topsoil
- Wetted down
- Applied herbicides and/or mulch
- Plots irrigated after application
- Watered almost daily to wet the soil and weeds
- Repeated twice (Fall/Winter)



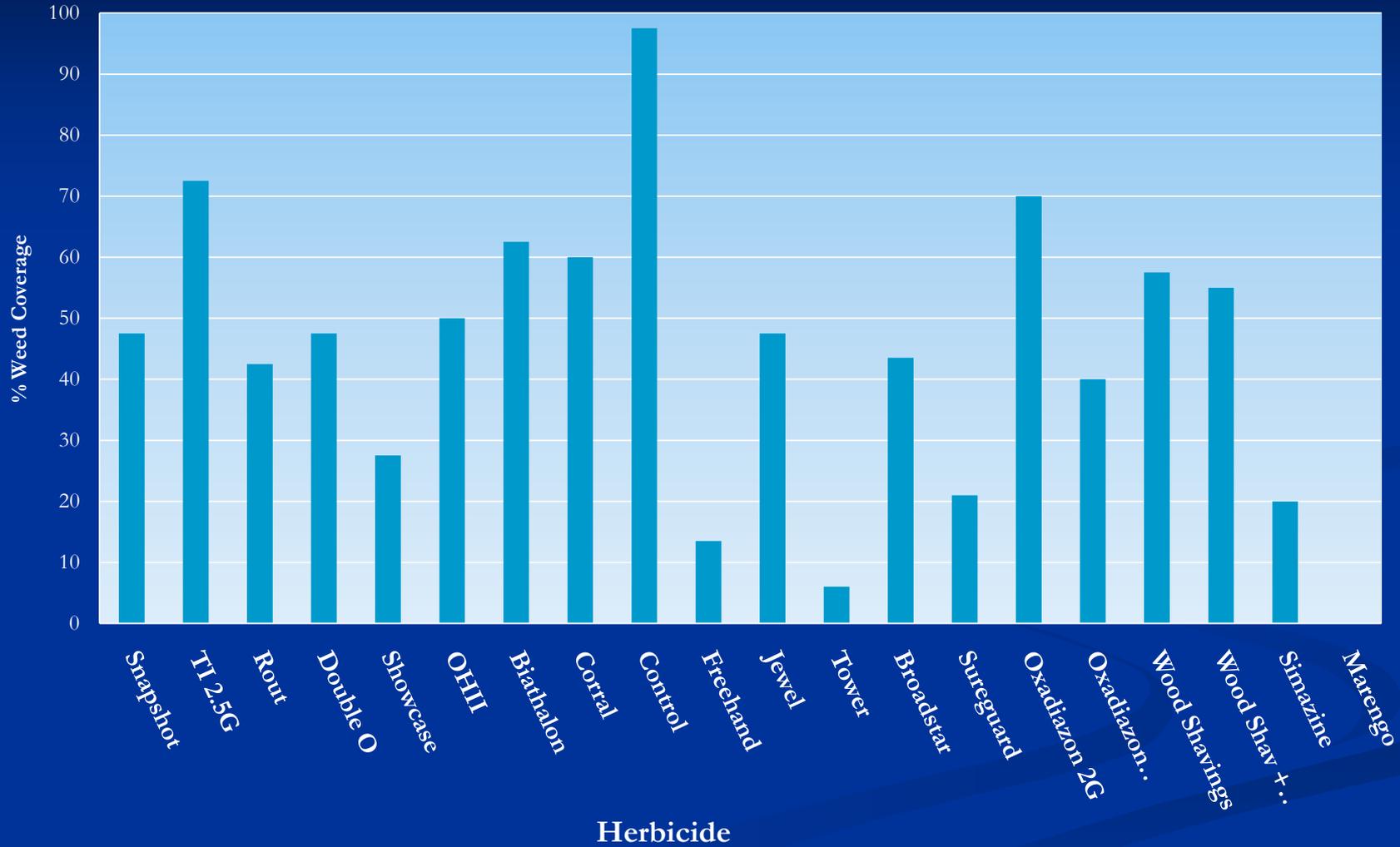
Demonstration Plots



Preemergent Trials

- Control
- Snapshot
- TI 2.5G
- Rout
- Double O
- Showcase
- OH II
- Biathlon
- Corral
- FreeHand
1.75G
- Jewel
- Tower
- BroadStar
- SureGuard
- Oxad. 2G
- Oxad.50WSB
- Wood Shav.
- Shav. + Bia.
- Simazine
- Marengo

% Weed Cover 30 DAT



Observations on Efficacy Percent Control 30 DAT

Marengo*-100

Tower-94

FreeHand-87

Simazine-80

SureGuard-79

Showcase-73

Oxi. 50 WSB-60

Rout-58

BroadStar-57

Double O-53

Jewel-53

Snapshot-53

OH II-50

Wood + Biathlon-45

Wood-42

Corral-40

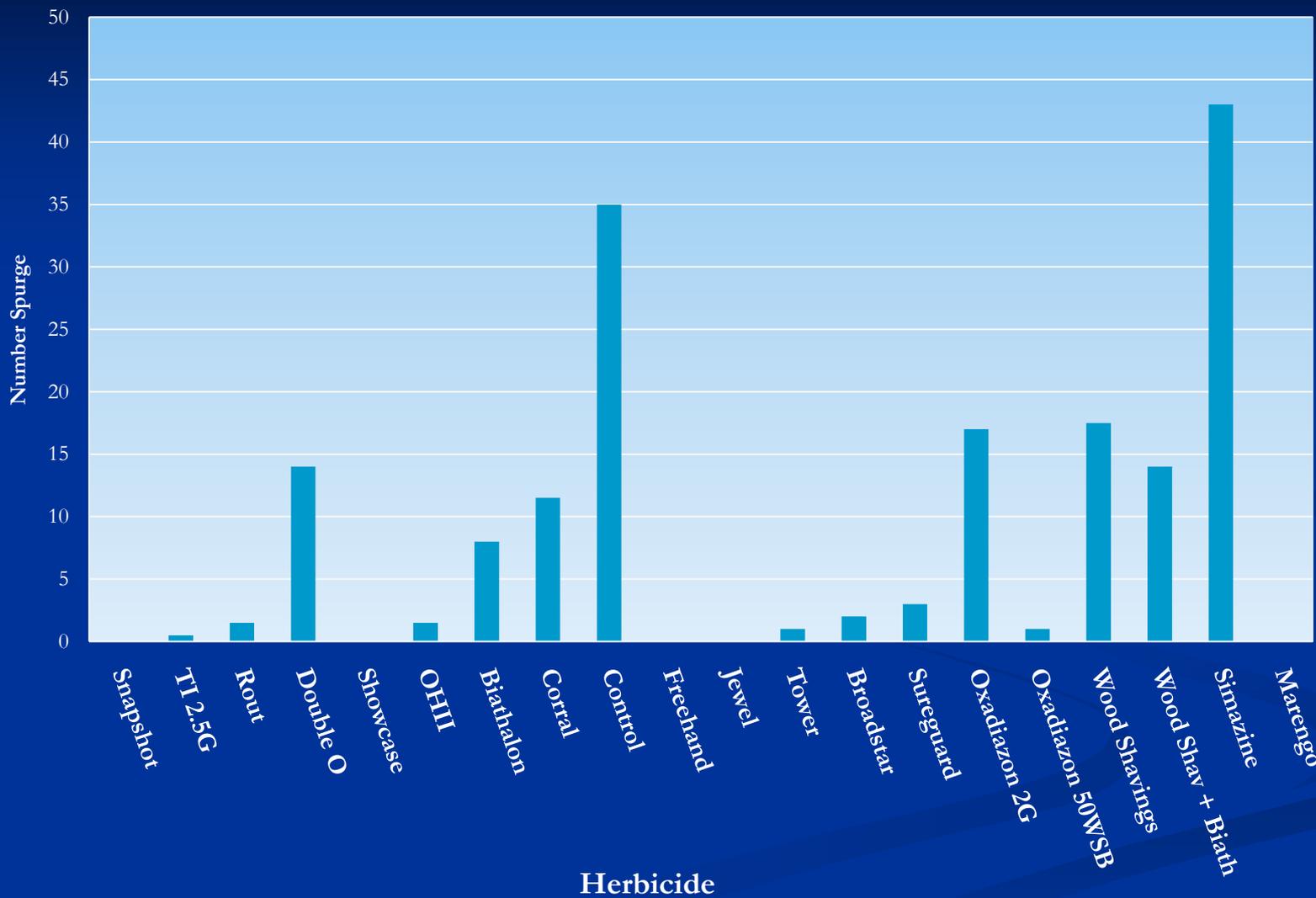
Biathlon-38

Oxadiazon 2G-30

TI 2.5G-28

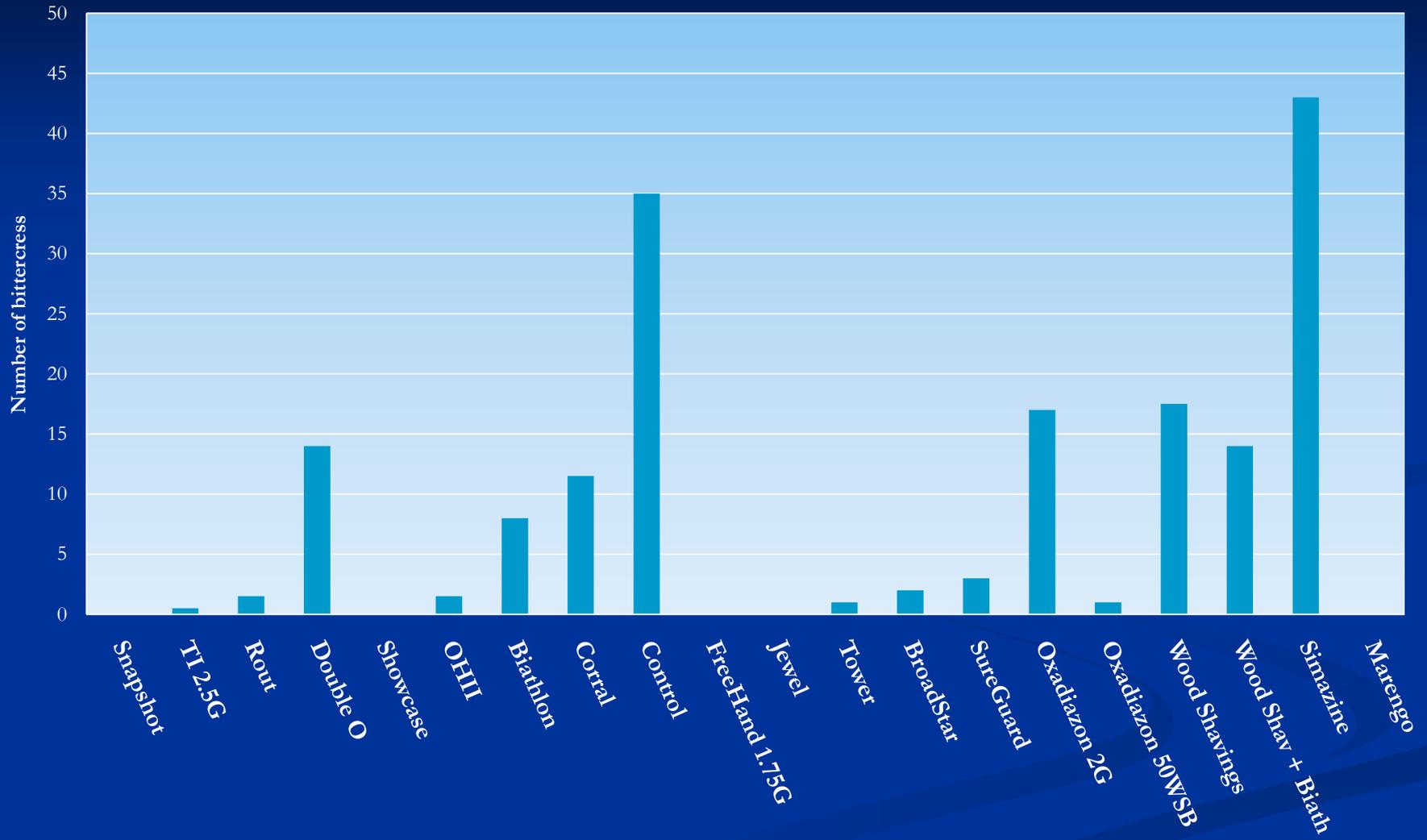


Herbicide Efficacy on Spurge 30 DAT





Herbicide Efficacy on Bittercress 60 DAT*



Spring/Summer Demonstration Plots

- Subset of original herbicides (10 + Control)
- Replicated 4 times/site
- Repeated in Hillsborough and Pasco County Extension Offices
- Soil differed
- Weeds differed
- High labeled rates were used

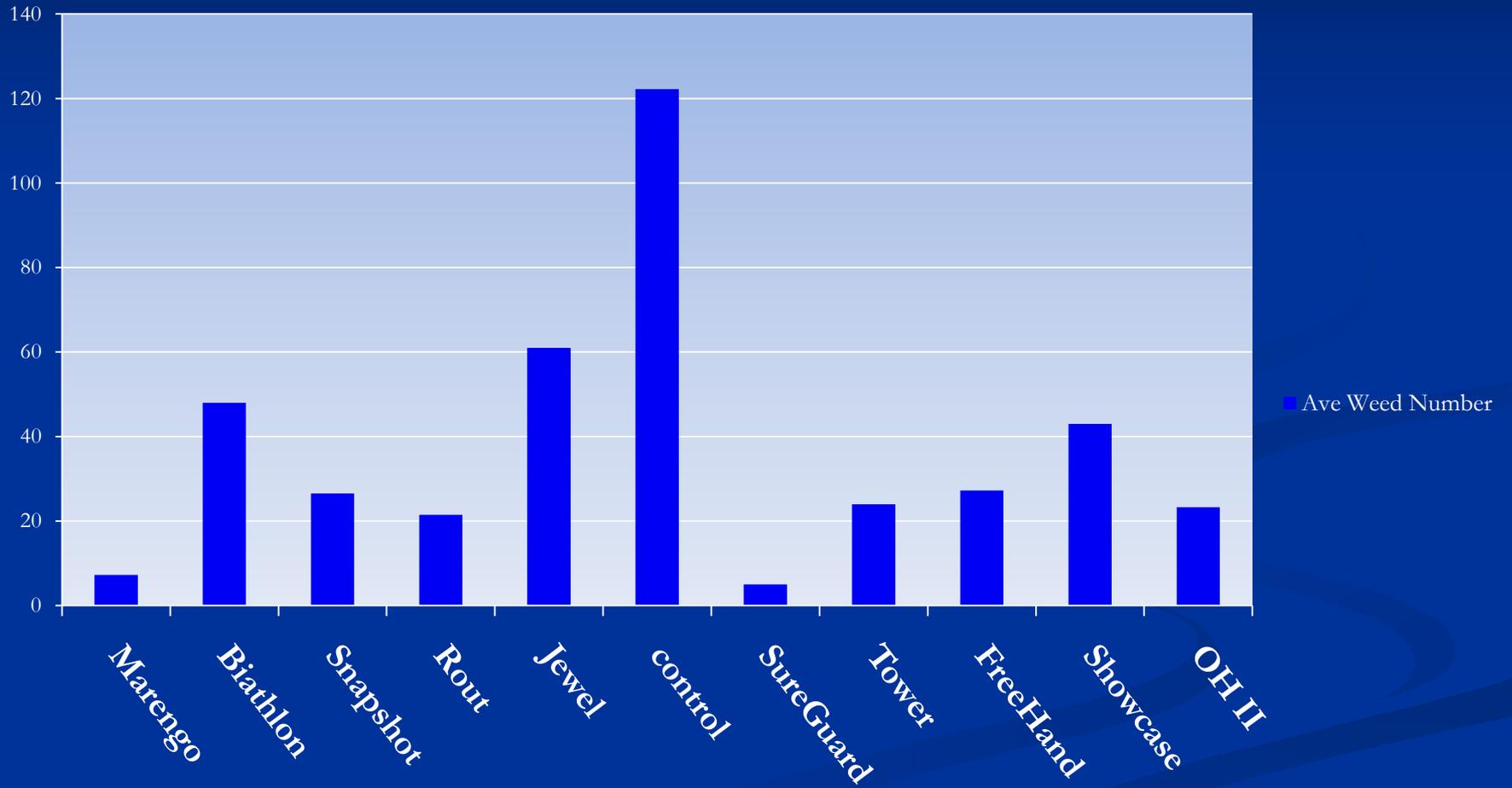
Preemergent Trials

- Snapshot
- Rout
- Showcase
- OH II
- Biathlon
- FreeHand
- Jewel
- Tower
- SureGuard
- Marengo
- Control

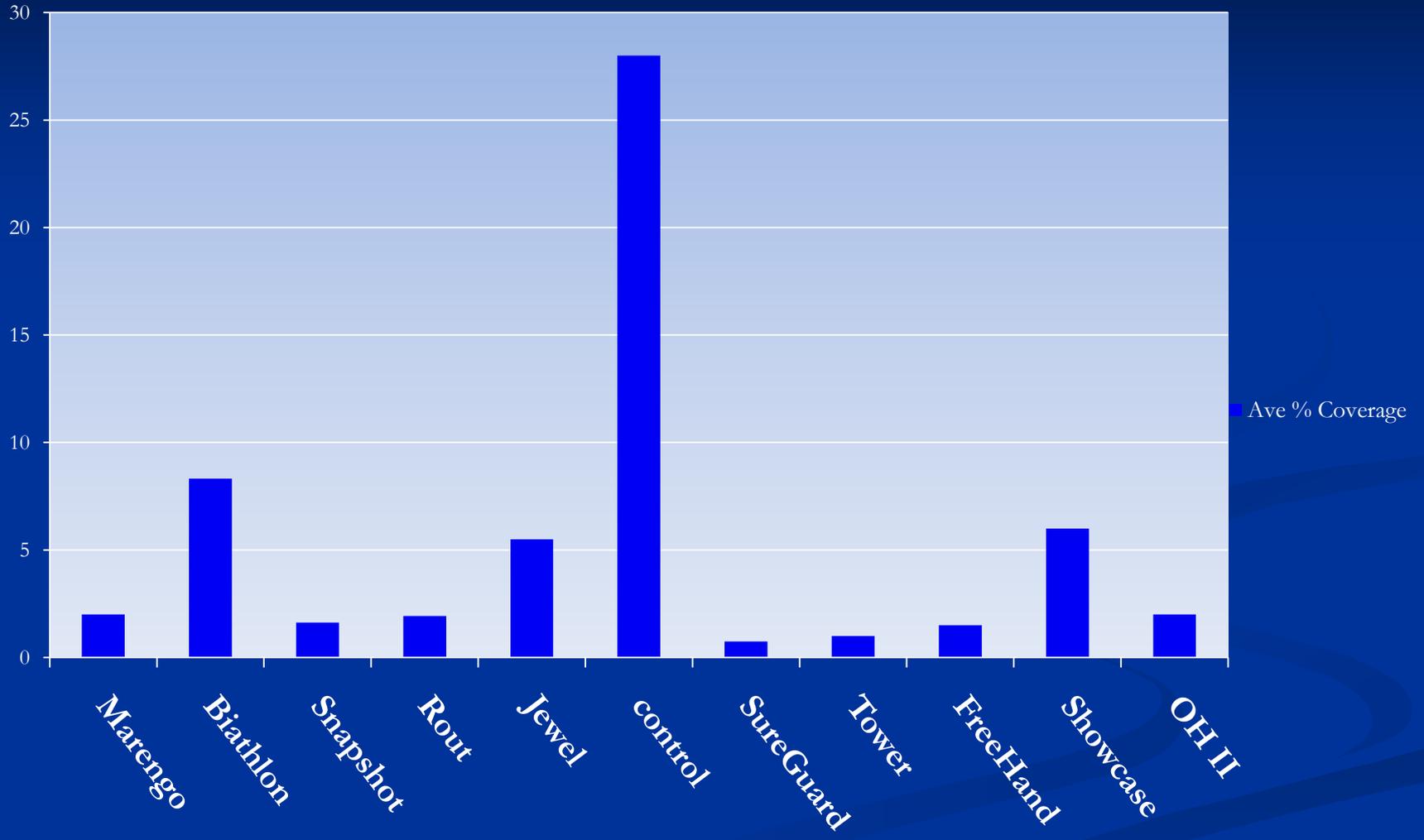
Hillsborough County Results



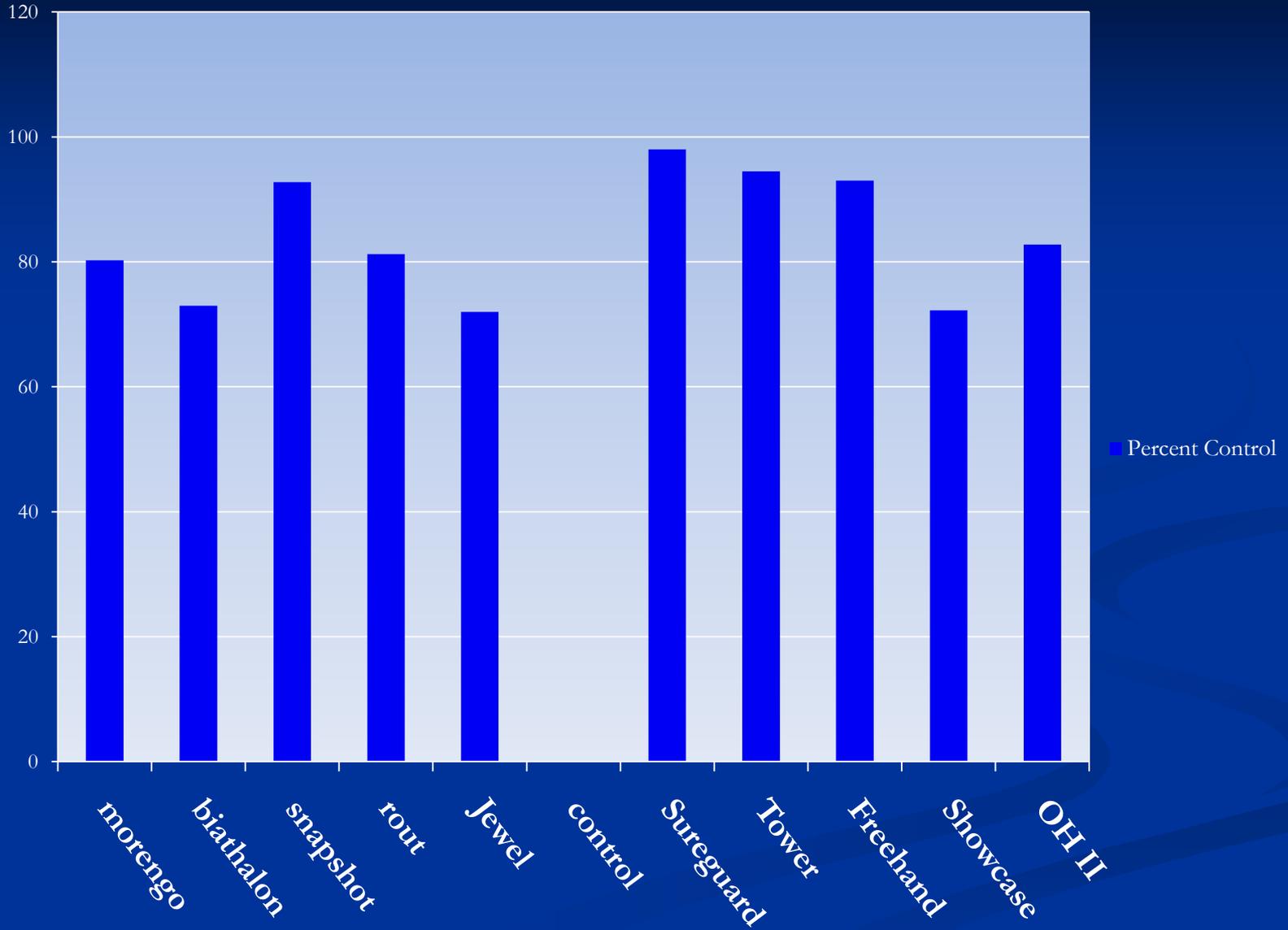
Ave Weed Number



Ave % Coverage



Percent Control



Observations on Efficacy

Percent Control 30 DAT

Marengo*-100

Tower-94

FreeHand-87

SureGuard-79

Showcase-73

Rout-58

Jewel-53

Snapshot-53

OH II-50

Biathlon-38

SureGuard-98

Tower-95

FreeHand-93

Snapshot-93

OH II-83

Rout-82

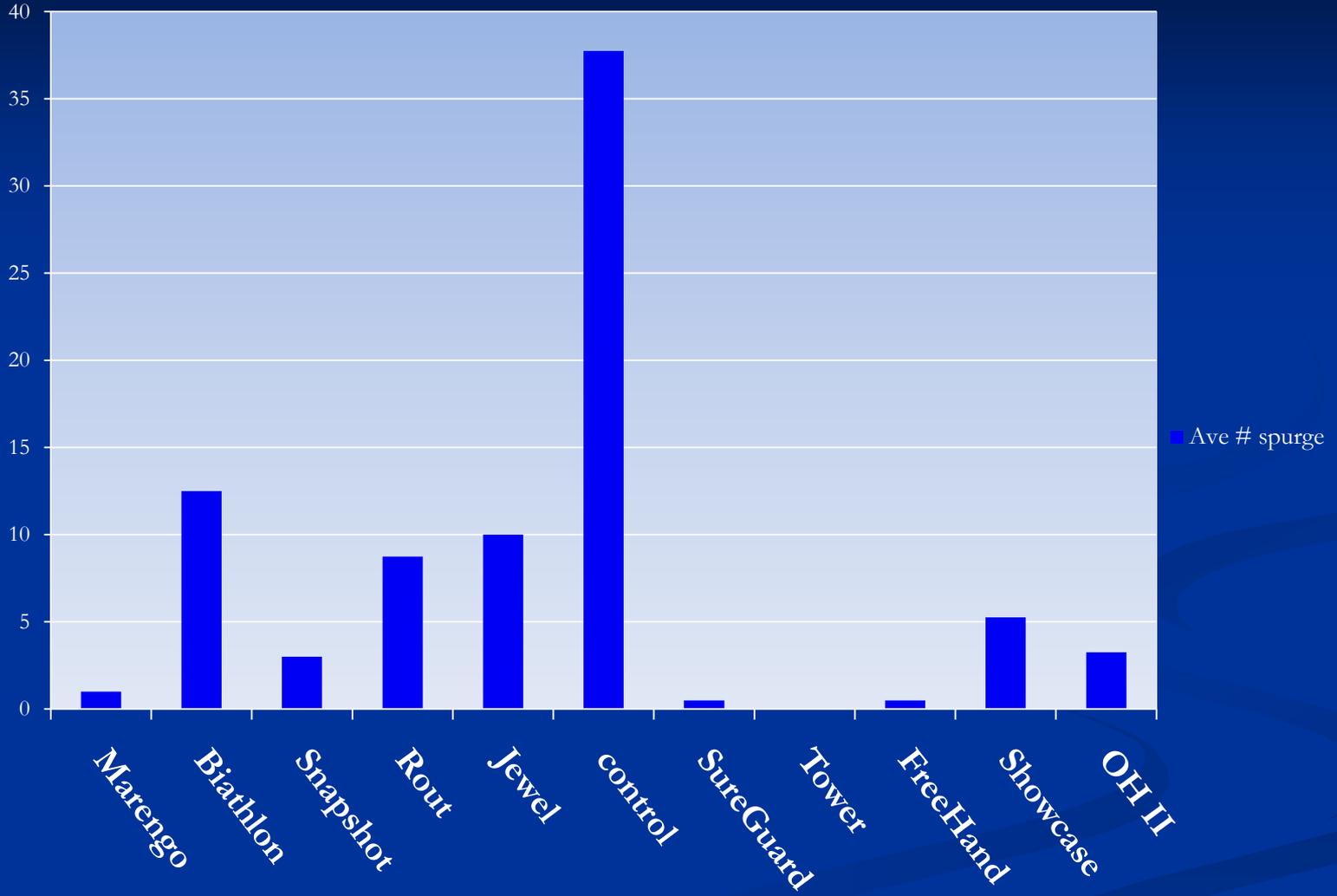
Marengo-80

Biathlon-73

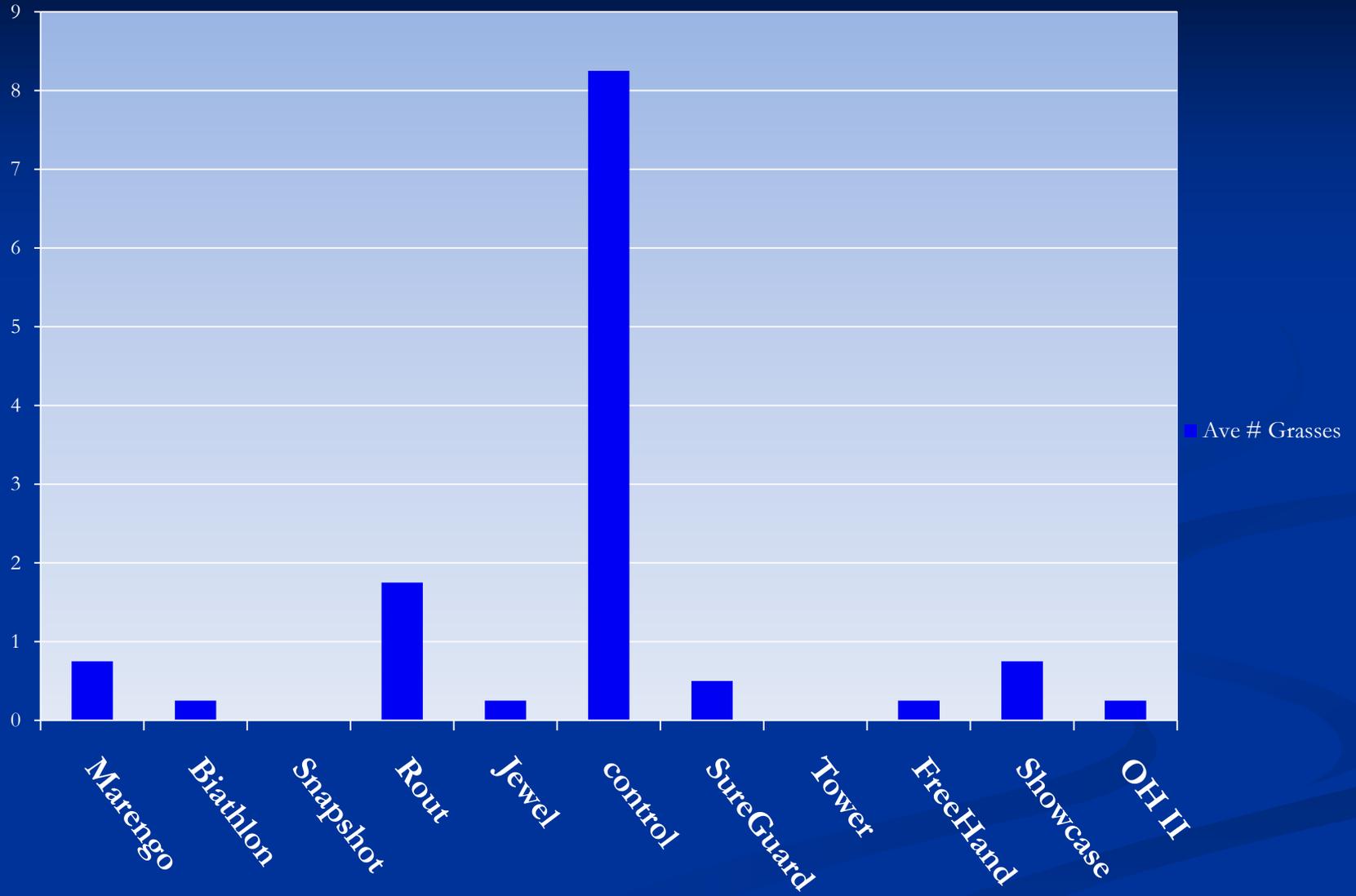
Showcase-72

Jewel-72

Ave # Spurge

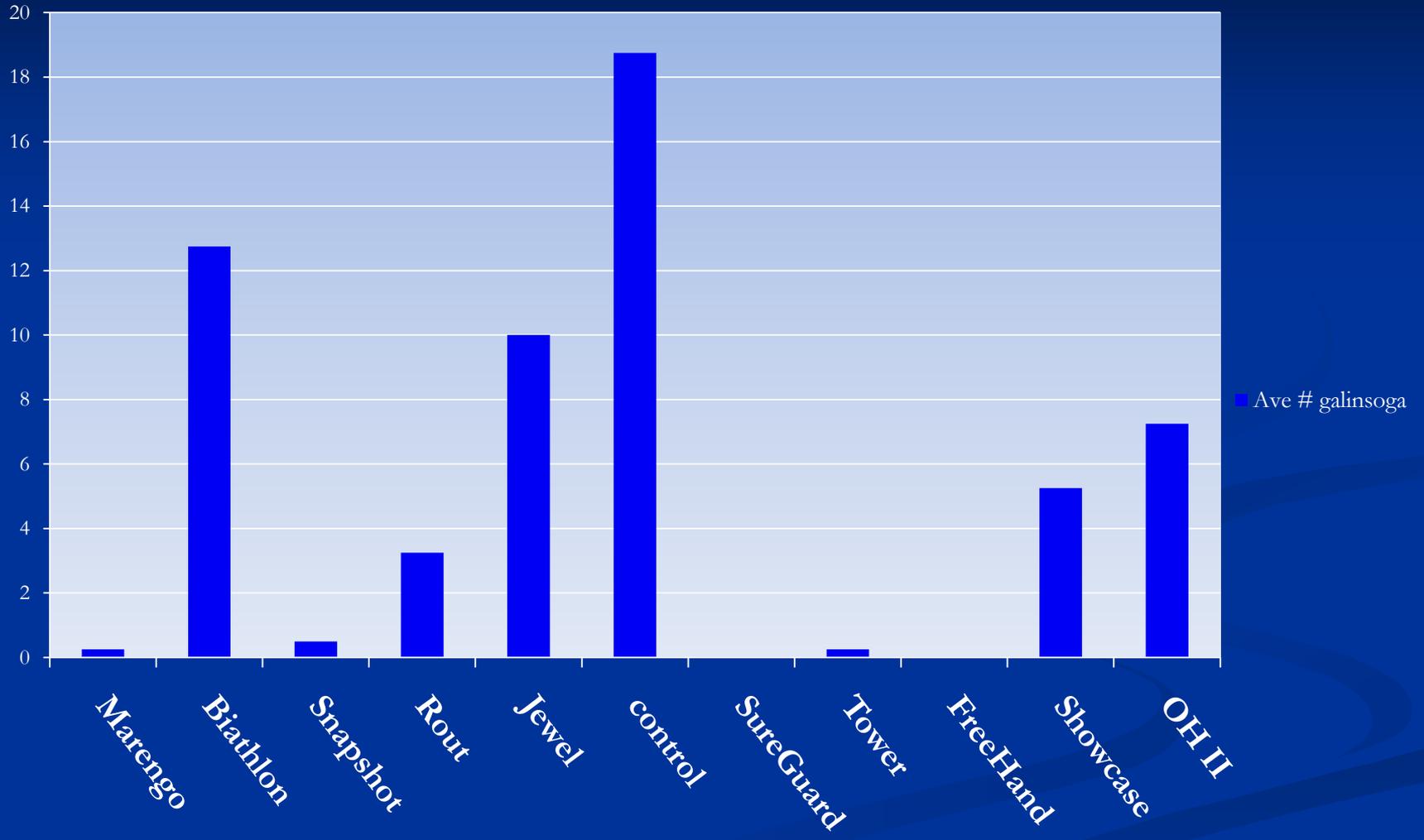


Ave # Grasses





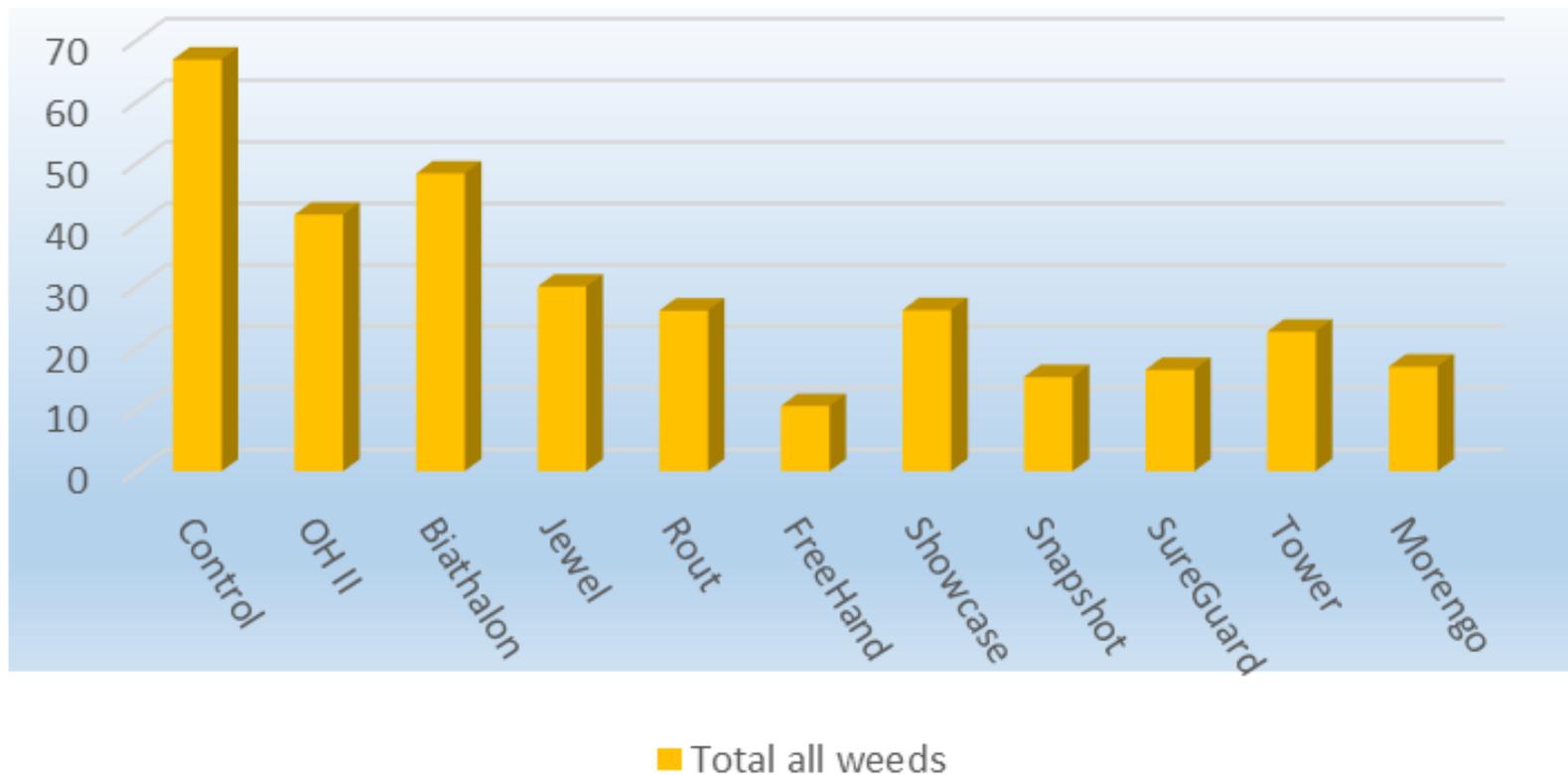
Ave # galinsoga



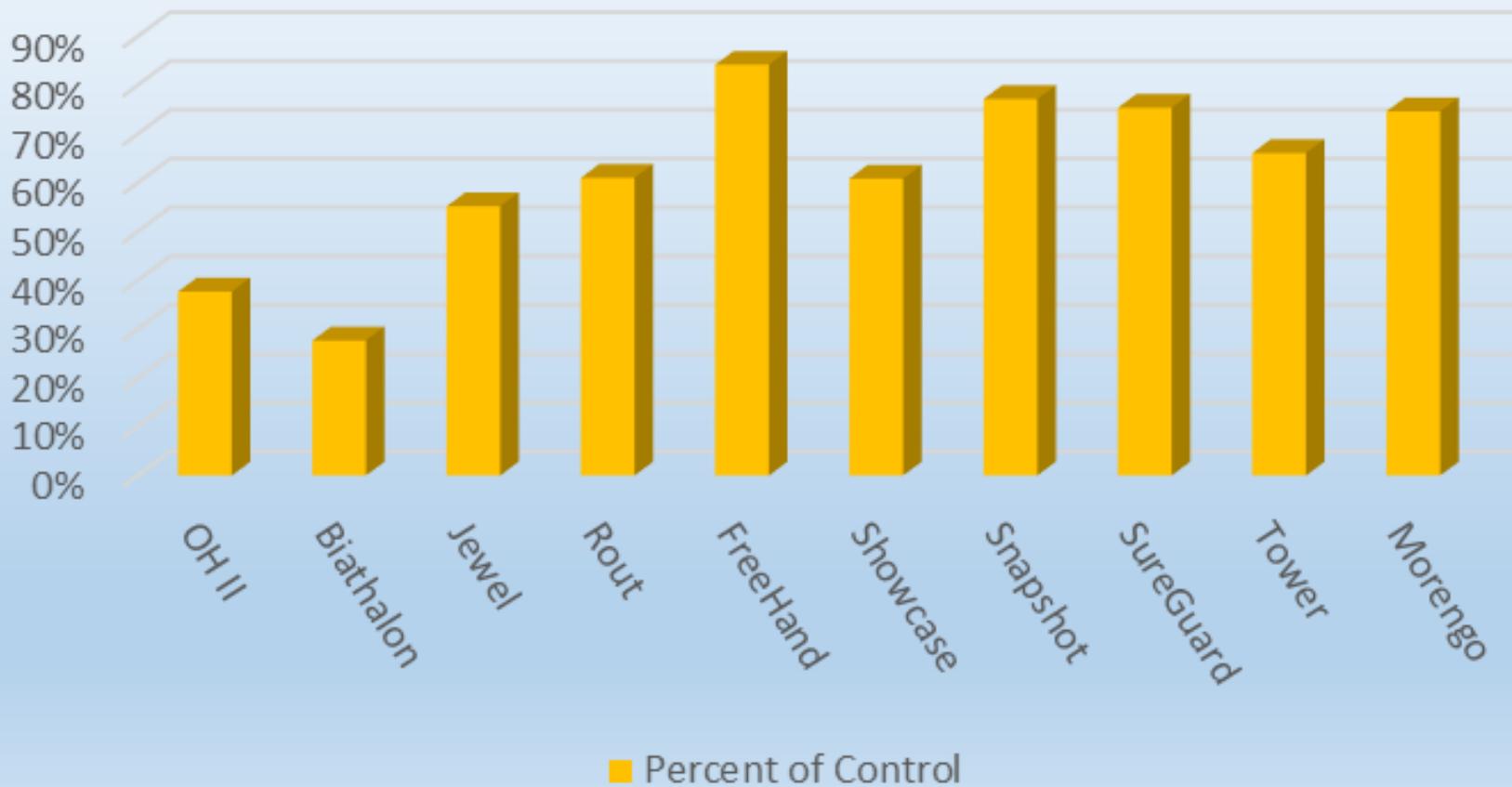
Pasco County Results



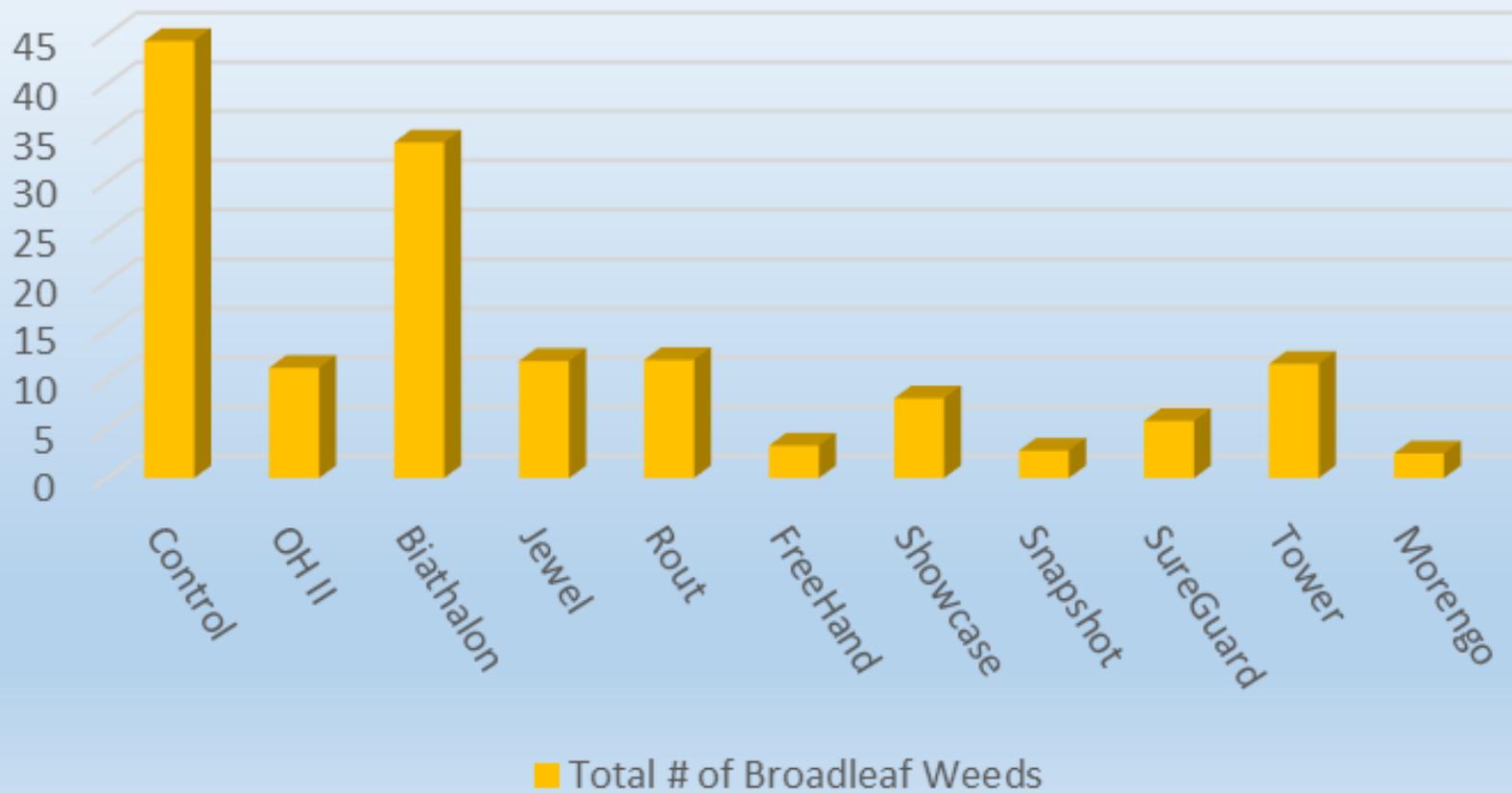
Total Number of Weeds 30 DAT



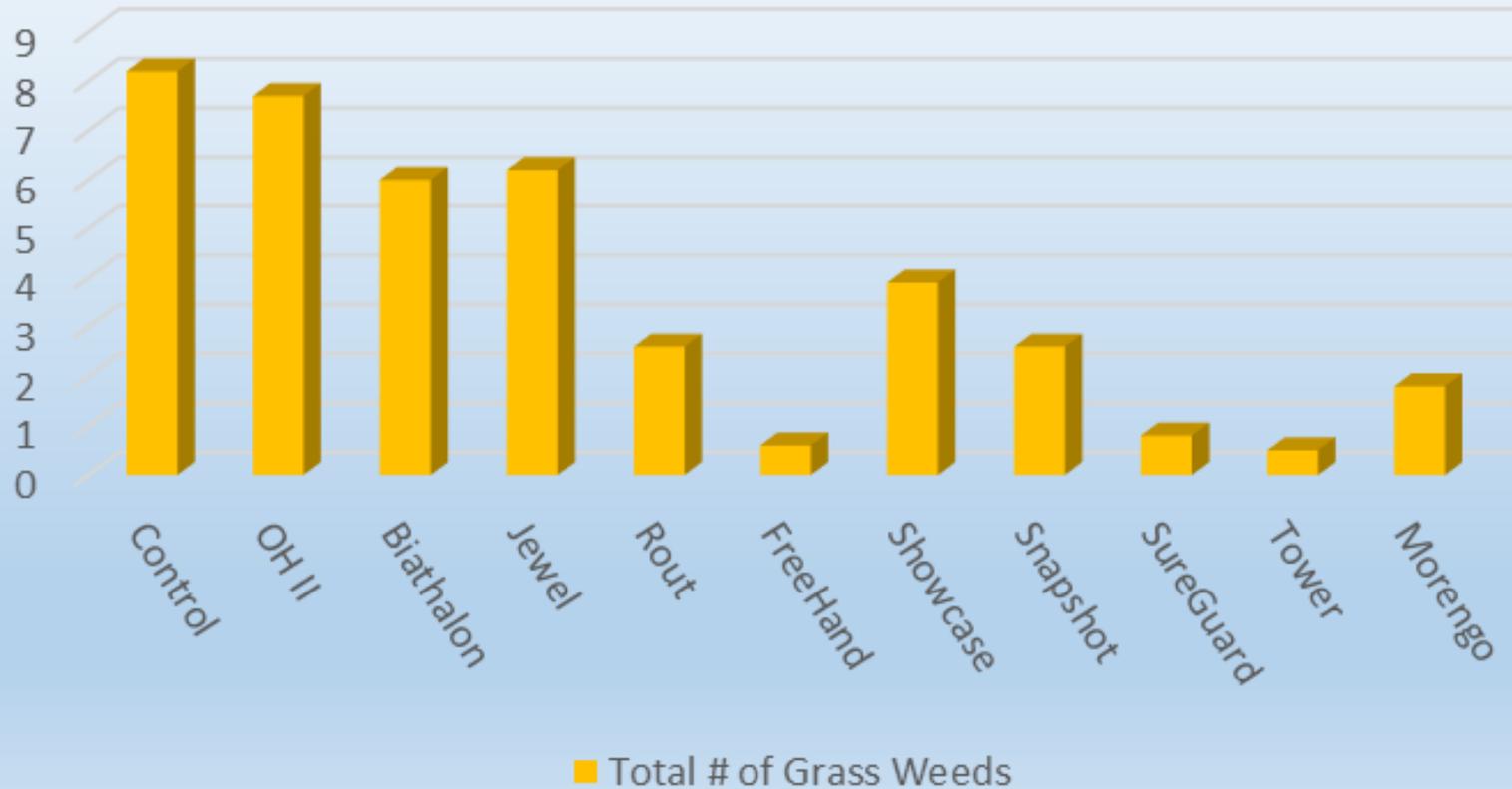
Percent of Control



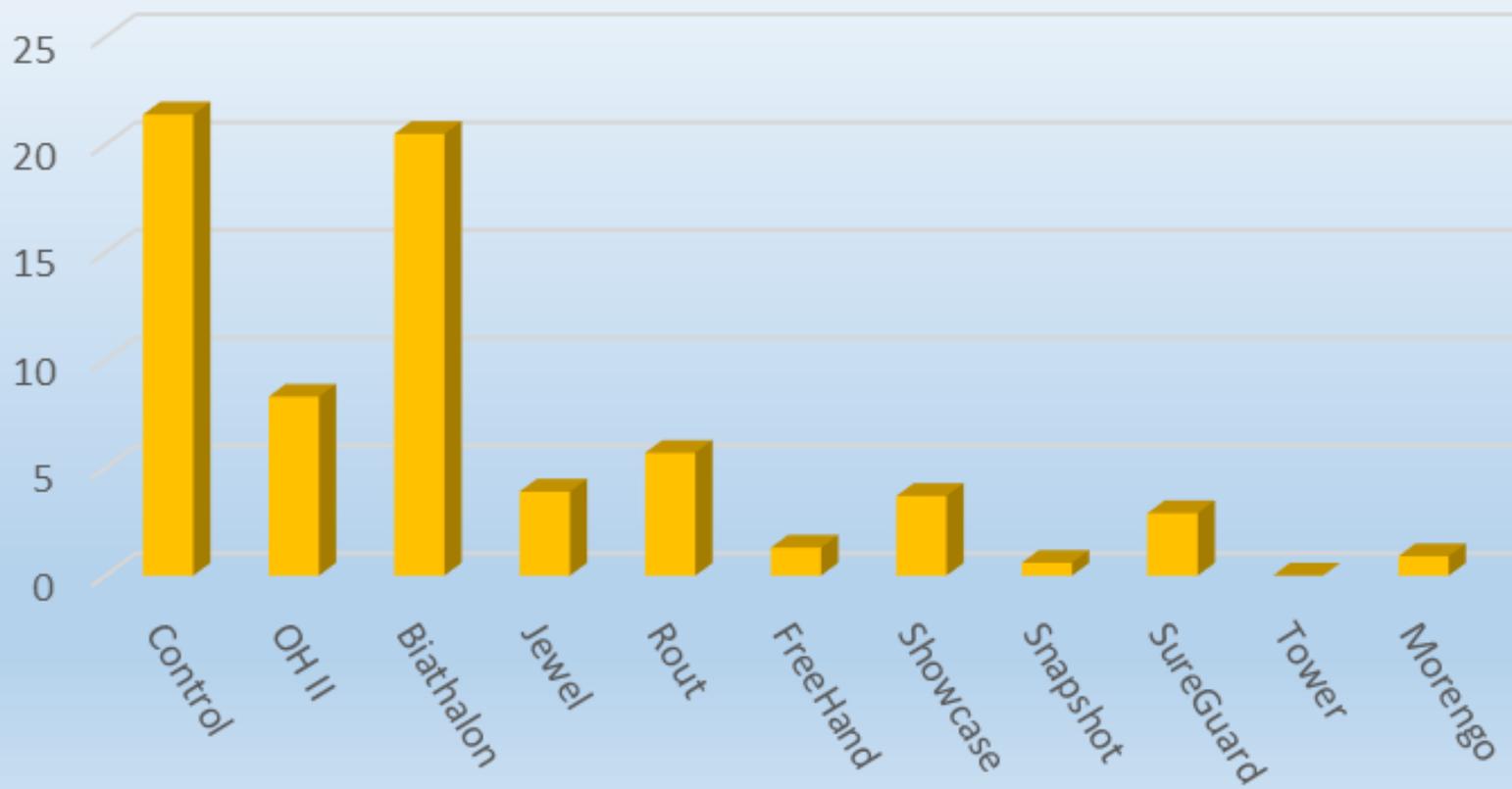
Total # of Broadleaf Weeds 30 DAT



Total # of Grass Weeds 30 DAT



Number of amaranth



Summary

- Time of the year
- Weed complex
- Match weed/herbicides
- Figure best cost complex basis
- Sprayables
- Calibrate
- Rotate

BMP's for Weed Control



Specimen label for information purposes only. The Scotts Company makes no representations as to the accuracy of this label. It is the responsibility of the user to read and follow the label attached to the pesticide product container.

GROUP 3 | 14 HERBICIDES

OH2[®]

Net Weight:
50 lb (22.68 kg) Bag
Stock # 95715

Ornamental Herbicide

Provides preemergence control of weeds in container and field grown ornamentals.

ACTIVE INGREDIENTS:

Oxyfluorfen [†]	2.00%
Pendimethalin ^{††}	1.00%

OTHER INGREDIENTS:	97.00%
Total	100.0%

[†]CAS # 42874-03-3

^{††}CAS # 40487-42-1

PRECAUTIONARY STATEMENTS

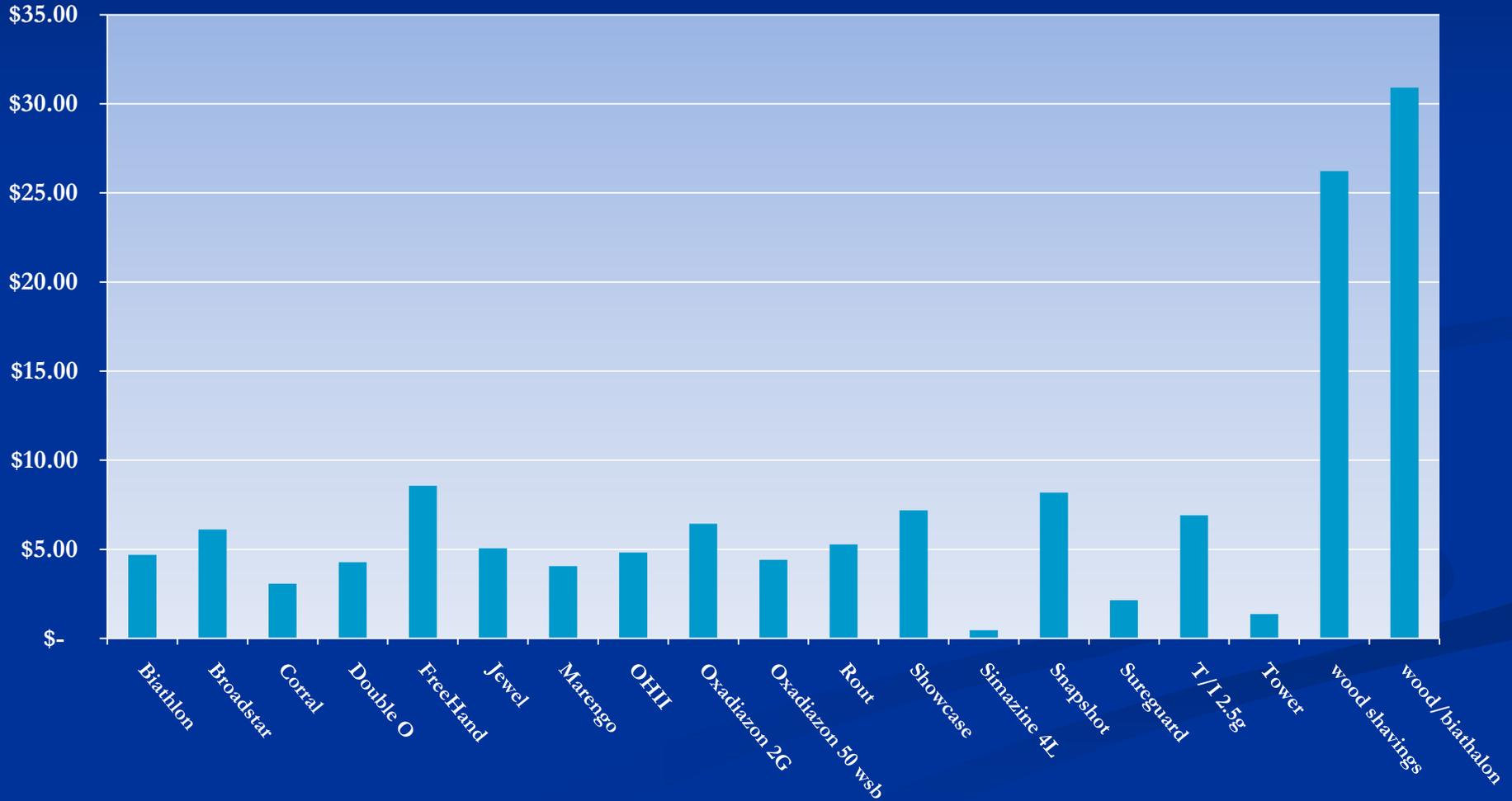
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes eye injury. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid inhalation.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Herbicide Costs Comparison

Cost to treat 1000 ft²



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Questions?

