

New Tools in Your Weed Management Tool Box



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Rely and Gang!

- Glufosinate (commit this to memory)
 - Non-selective
 - DO NOT allow contact with immature bark, fruit, or leaves
 - 48 fl. oz/A (DO NOT exceed 164 fl oz/A per year)
 - 32 fl oz/A is working well!
 - Several formulations cleared for use in fruit
 - Rely (Bayer)
 - Reckon (Solera)
 - Life Line (MANA)
 - Cheetah (NuFarm)



Weeds Controlled by Glufosinate in Fruit Crops



Chinese thomapple
Cocklebur, common
Cudweed
Cutleaf
evening
Dodd
Eclipta
Fiddlehead
Filaree
Filaree



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Sunflower, volunteer

Chinese thomapple

Cocklebur, common

Cudweed

Cutleaf

evening

Dodd

Eclipta

Fiddlehead

Filaree

Filaree

Kochia

black

Night

Penn

Pigwe

Pinea

Punc

Pursl

Radis

Ragw

Ragw

black

Night

Penn

Pigwe

Pinea

Punc

Pursl

Radis

Ragw

Ragw

Sunflower, volunteer

Quince

Quince

Quince

Quince

Quince

Quince

Quince

Quince

Quince

Quince



Crab
Cup
Foxt
Foxt
Foxt
Go
John
seed



leaf
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leaf
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Pindar GT

- Dow AgroSciences
- Premix
 - Penoxsulam – PRE activity
 - Oxyfluorfen – POST activity
- Use rates
 - 1.5 to 3 pts
- Tree age
 - Trees est. 4 years
 - Replants must be shielded
- Other restrictions
 - Apply after harvest up until bud swell
 - Use in sandy loam and finer textured soils



Dow AgroSciences

Pindar GT

- Stable on soil surface for 21 days
- Use with a COC or MSO at 1% v/v or an 80% non-ionic surfactant @ 0.25 % v/v
- Where does it Fit
 - PRE and POST activity
 - Fall PRE

Species	PRE	POST
Cutleaf eveningprimrose	X	X
Filaree species	X	X
Curly dock	X	X
Horseweed	X	X
Virginia pepperweed	X	X
Henbit	X	X
Prickly lettuce	X	X
Common Groundsel	X	X
Wild Mustard	X	X
Common Chickweed	X	X
Sowthistle	X	X
Prostrate Knotweed	X	X

Solida and Simazine

May 4th



Applied Nov 16
Paraquat @ 2 pt/A + NIS @ 0.25 % v/v

Alion and Chateau

May 4th



Alion @ 3.5 fl. oz/A



Chateau @ 6 oz/A

Applied Nov 16
Paraquat @ 2 pt/A + NIS @ 0.25 % v/v

Pindar GT

May 4th



Applied Nov 16
Paraquat @ 2 pt/A + NIS @ 0.25 % v/v

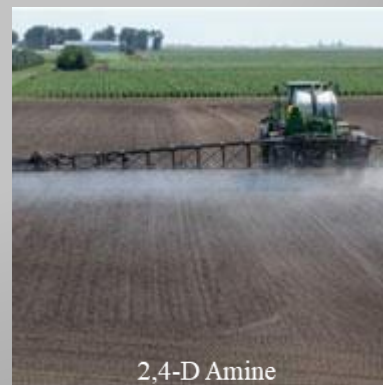
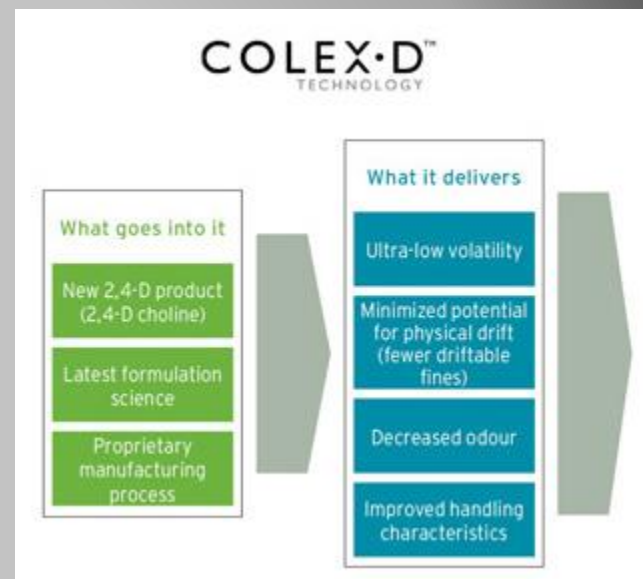
Pindar GT

- Where does it Fit
 - Winter/Spring Timing
 - Apply prior to bud break
 - PRE tank mix partner
 - Oryzalin @ 3 to 4 qt/A
 - Prowl H₂O @ 3 to 4 qt/A



Embed Herbicide

- 2, 4-D Choline
 - Colex D Technology
- Used in Enlist Duo Crops
- Reduction in driftable fines
- No sacrifice in efficacy



Embed Herbicide



- 1 to 4 pts/A
 - High rate is for perennial weeds
- Orchards est. 1 year of longer
- PHI
 - 40 days for stone fruit
 - 14 days for pome fruit
- Allow 75 days between applications
- 2 applications per year
 - No more than 4 pts/A per application
- Do not apply during bloom or to orchards planted in light sandy soils
- Thus far crop safety has been GREAT!
 - Two studies applied two different years in 90+ temps and no sign of injury to trees
 - Direct contact with low hanging branches will show damage!



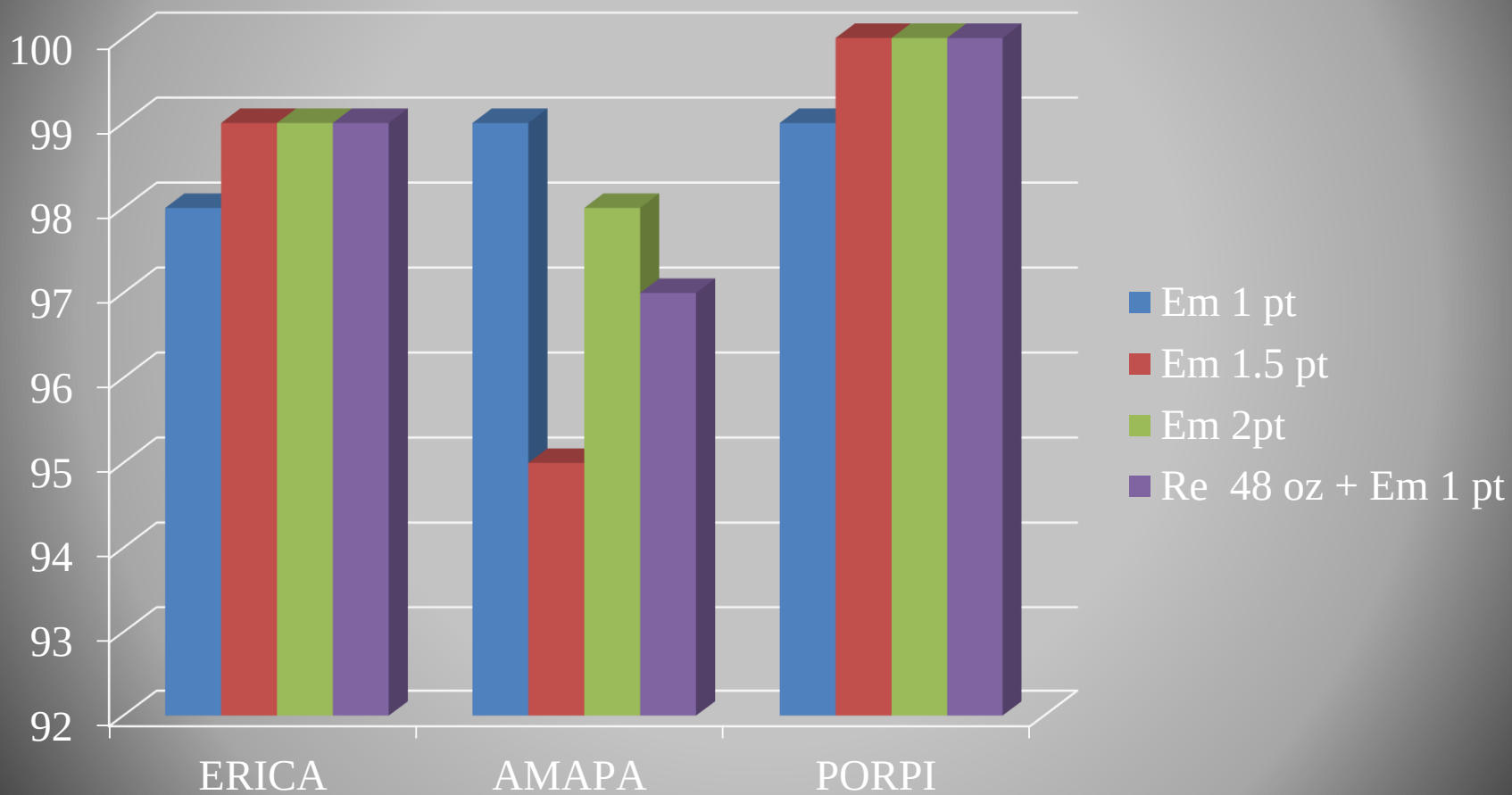
What is the Embed's Role in a Herbicide Program

- Tank mix partner with glyphosate or glufosinate
 - 1 to 2 pt/A will improve efficacy on certain weed species (especially if a little large)
 - Cutleaf eveningprimrose
 - Palmer amaranth
 - Horseweed
 - Dock
 - Dandelion
 - Carolina geranium
 - Common lambsquarter
 - Knotweed
- Row middle application
 - Selective removal of broadleaf from grasses
- Resistance management



Summer Weed Control with Embed

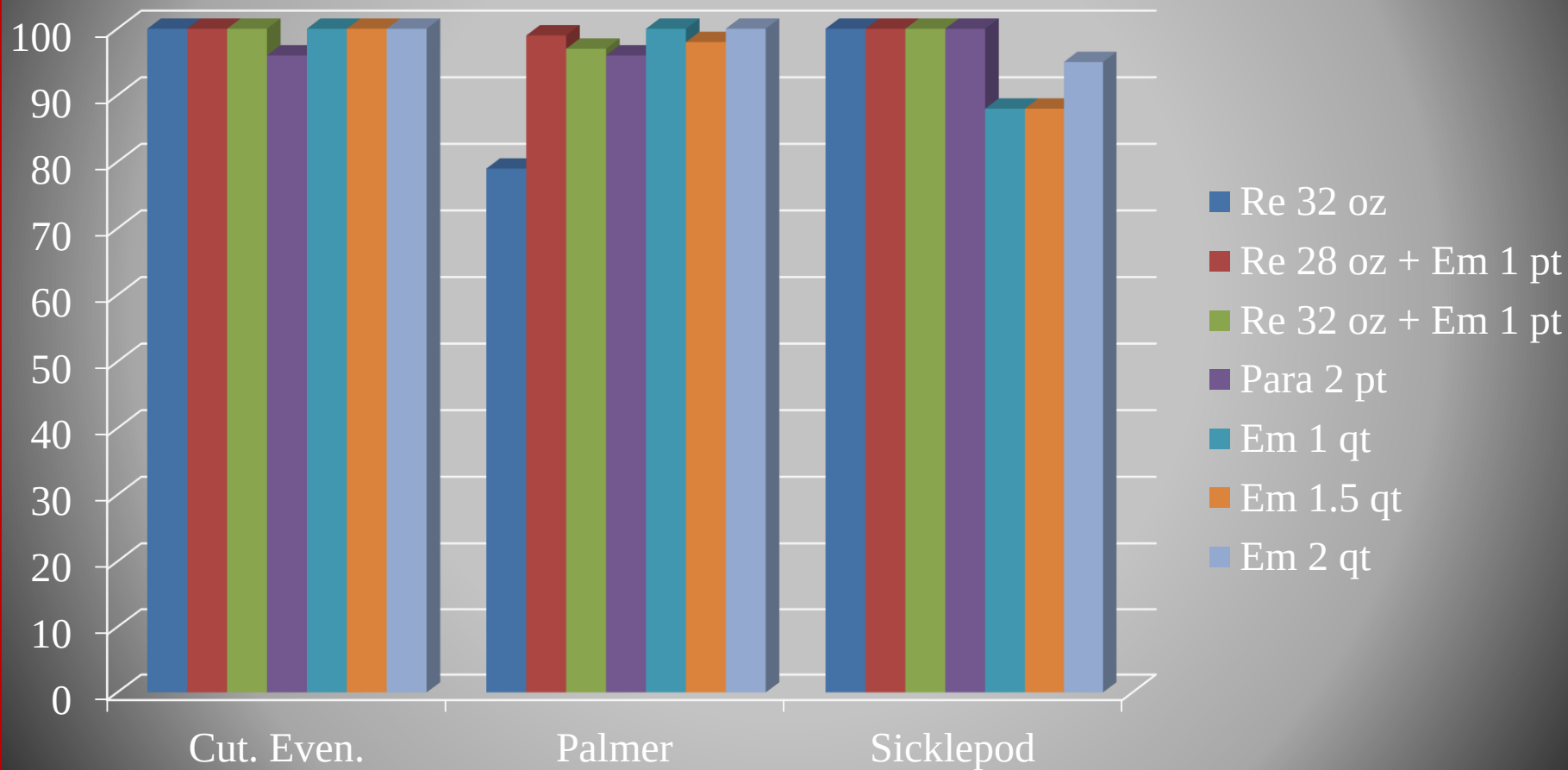
35 DAT



Paraquat was used for non-selective POST weed control

Summer Weed Control with Embed

21 DAT



Rely 280 @ 32 fl. oz. + Embed @ 1 pt

15 DAT



Untreated

Panther D

- Nufarm
- Premix
 - Flumioxazin
 - 2,4-D amine
- Use Rate
 - 3 to 4 pt/A
 - Every pint has equivalent rate of Chateau @ 1 oz/A
- Where does it fit
 - Row middle winter annual broadleaf weed control (Fescue free middles)
 - In herbicide strip for added POST activity with limited residual (you will need to add more Chateau or tank mix with another PRE for extended residual control)



Panther D



APPLES, PEARS, STONE FRUIT AND NUT ORCHARDS (EXCEPT FILBERTS)

WEEDS IN CROPS	AMOUNT OF PANTHER D PER ACRE	DIRECTIONS
Annual broadleaf weeds	3 pints	For control of weeds on the orchard floor, apply using coarse sprays and low pressure in sufficient volume of water to obtain thorough wetting of weeds. Treat when weeds are small and actively growing.

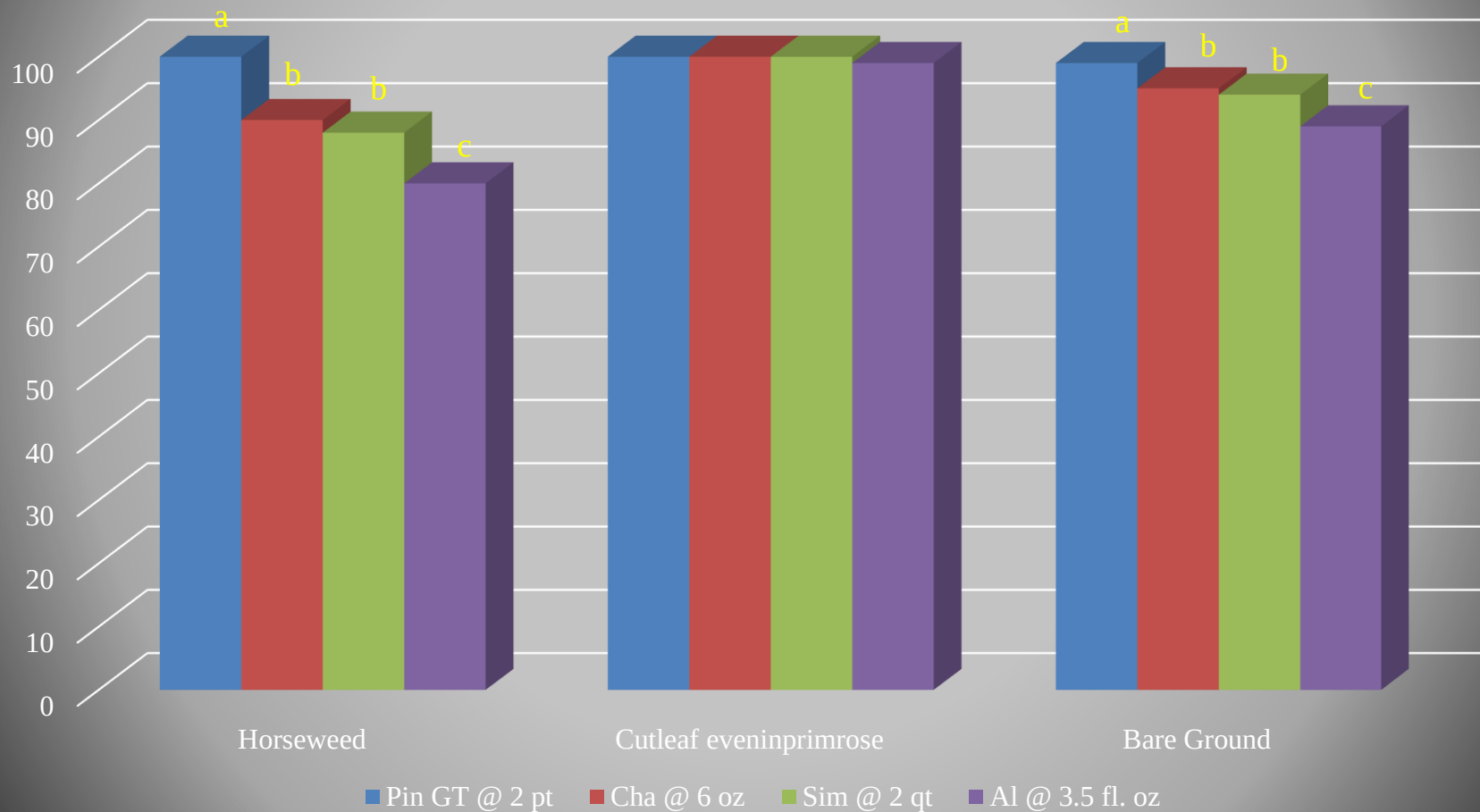
RESTRICTIONS AND LIMITATIONS FOR USE IN APPLES, PEARS, STONE FRUIT AND NUT ORCHARDS (EXCEPT FILBERTS)

- Do not apply to bare ground as injury may result.
- Do not apply immediately before irrigation and withhold irrigation for 2 days before and for 3 days after treatment.
- Do not allow spray to drift onto or contact foliage, fruit, stems, trunks of trees or exposed roots as injury may result.
- Do not apply to newly established or young orchards. Trees must be at least 1 year old and in vigorous condition.
- Do not apply during bloom.
- Do not graze or feed cover crops from treated orchards.
- Do not make more than 2 applications per crop cycle. Maximum of 4.0 pints (2.0 lbs. 2,4-D ae) per acre per application.
- **(PHI)** Do not harvest apples and pears within 14 days of application, stone fruit within 40 days of application and nuts within 60 days of application.
- For apples, pears and stone fruits, allow at least 75 days between applications.
- For tree nuts, allow at least 60 days between applications.
- Do not cut orchard floor forage for hay within 7 days of application.

Questions

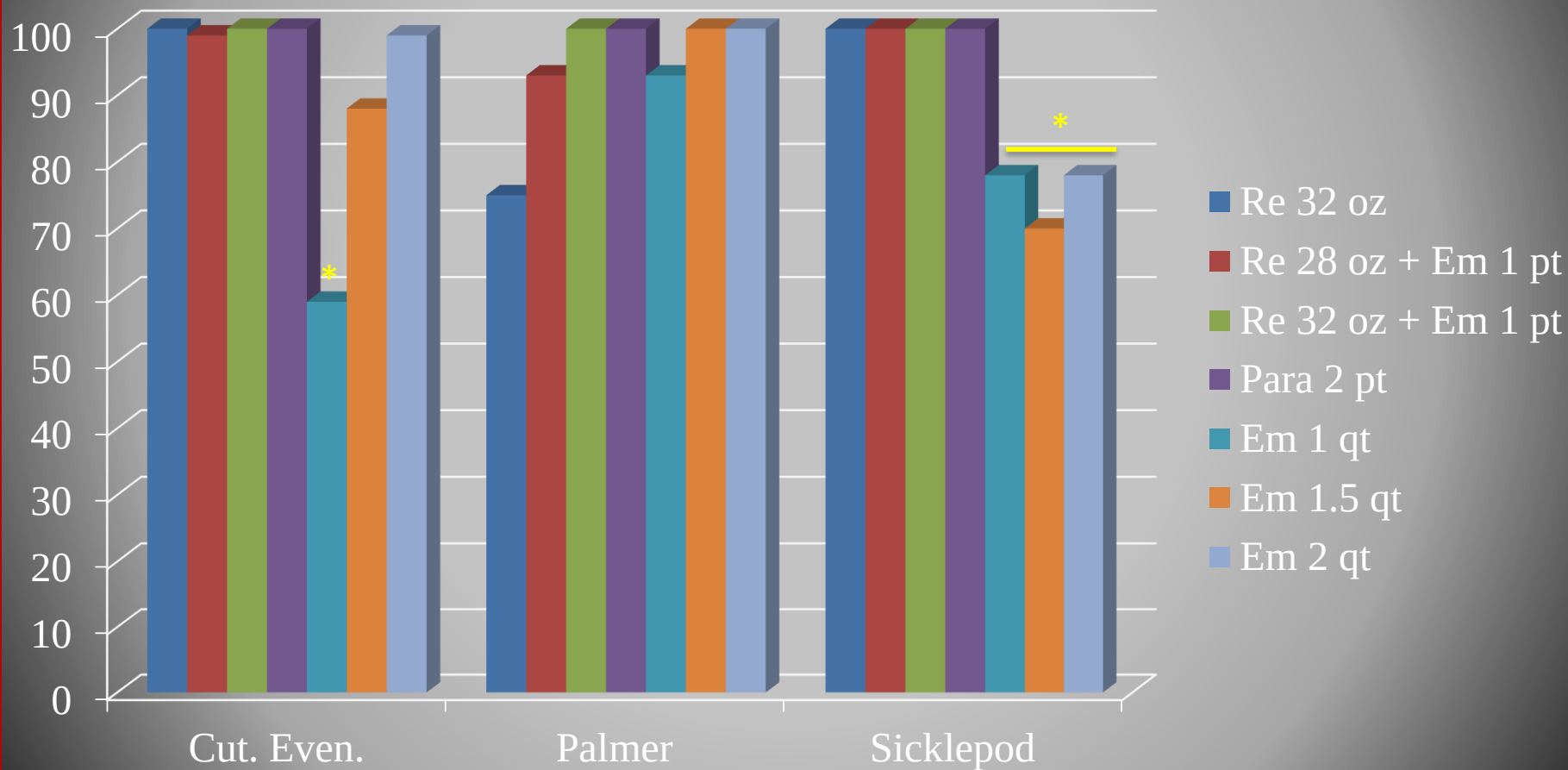


Winter Weed Control in Peach Orchard with Penoxsulam – April 13, 2016



Summer Weed Control with Embed

7 DAT



Use Restrictions for Glufosinate

- Stone Fruit

- Peach
- Nectarine
- Plum
- Cherry

Avoid contact of Reckon 280SL solution, spray, drift or mist with green bark, stems, or foliage, as injury may occur to trees and vines. **Only trunks with callused, mature brown bark should be sprayed unless protected from spray contact by nonporous wraps, grow tubes or waxed containers. Contact of Reckon 280SL with parts of trees or vines other than mature brown bark can result in serious damage.**

RESTRICTIONS TO THE DIRECTIONS FOR USE ON TREE, VINE, AND BERRY CROPS

1. **DO NOT** apply more than 164 fl oz of Reckon 280SL per acre (3 lbs ai/A) to berry bushes in a 12-month period.
2. **DO NOT** apply more than 246 fl oz of this product per acre to tree nuts, vines, and tree fruits in any calendar year.
3. **DO NOT** graze, harvest, and/or feed treated orchard cover crops to livestock.
4. **DO NOT** apply this product through any type of irrigation system.
5. **DO NOT** apply this product aerially to tree, berry, or vine crops.
6. **DO NOT** apply this product within 14 days of nut, apple, berry or grape harvest.
7. **DO NOT** make spot spray applications to apple suckers, as tree injury may occur.

SUCKER CONTROL WITH RECKON 280SL HERBICIDE

Reckon 280SL will reduce or eliminate sucker growth when applied to suckers that are young, green and uncallused. For sucker control, apply a split application approximately 4 weeks apart at 56 fl oz/A. Coverage of all sucker foliage is necessary for optimum control. Suckers should not exceed 12 inches in length.

Glufosinate

- 48 fl oz/A
 - 32 fl oz/A has worked well in trials
- Rainfast in 4 hours
- AMS will enhance activity
- DO NOT add NIS or COC to spray mixture
- Efficacy may be reduced when
 - Condition of heavy dew or fog present
 - Drought stressed weeds
 - Extended periods of cloudiness during and after application
 - Applications should be made between “dawn and 2 hours before sunset” or efficacy will be reduced on certain species



Pindar GT PRE Summer Weed Control

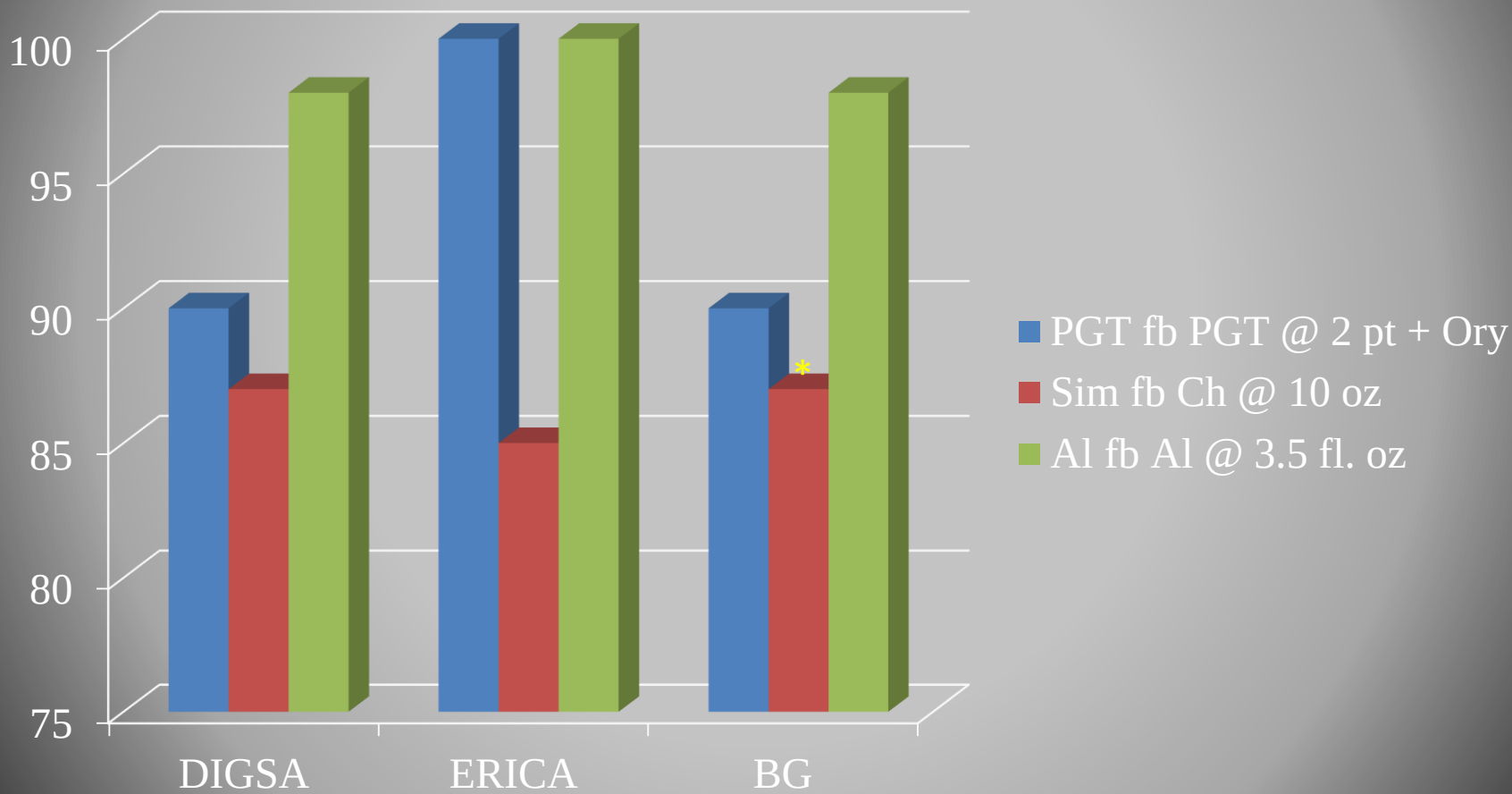
June 28



Paraquat was used for non-selective POST weed control

Pindar GT PRE Summer Weed Control

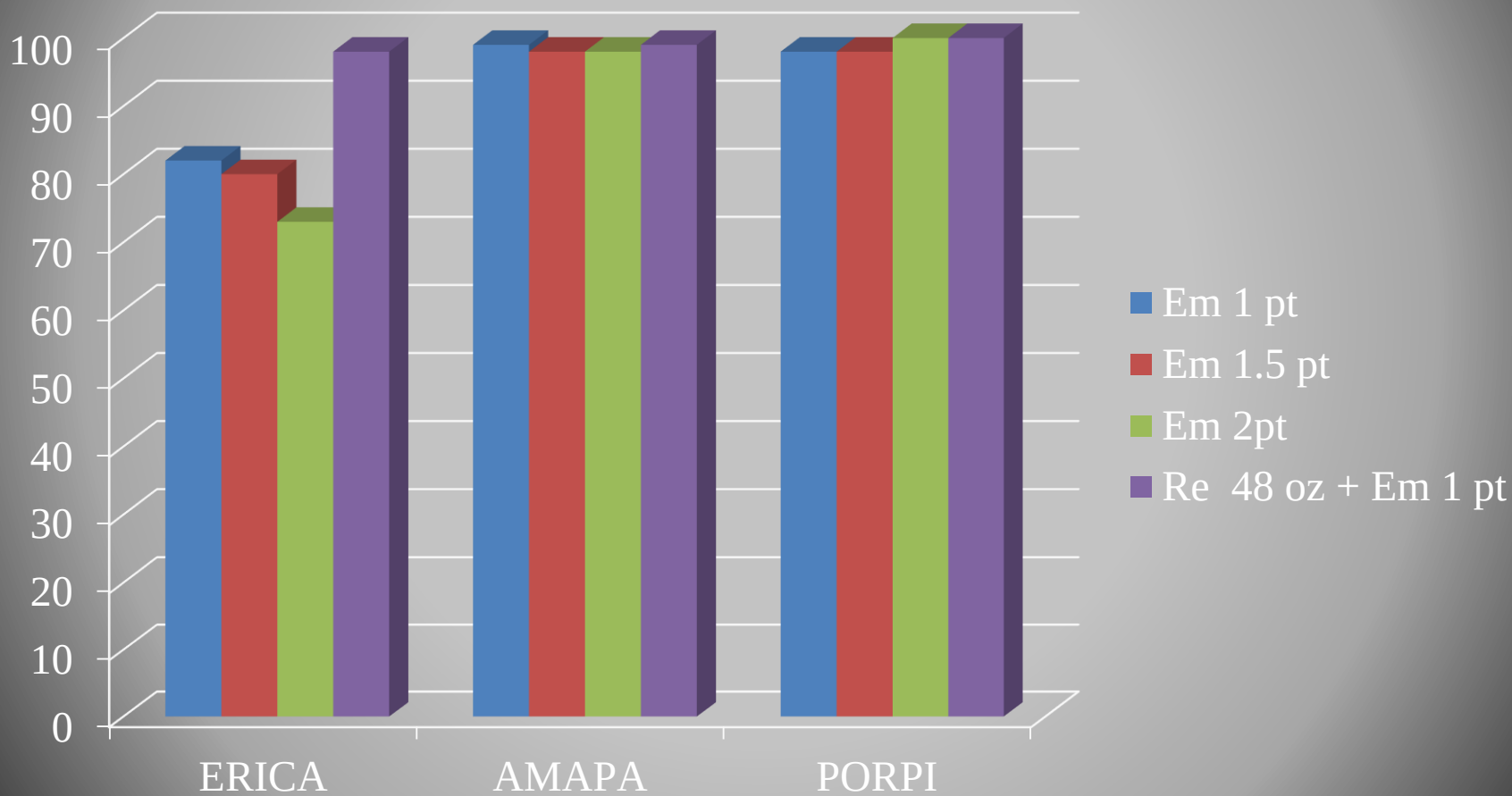
Aug 29



Paraquat was used for non-selective POST weed control

Summer Weed Control with Embed

7 DAT



Paraquat was used for non-selective POST weed control

Savannah Talk

- Pindar GT Herbicide Programs
- Embed Herbicide
 - 2, 4-D choline