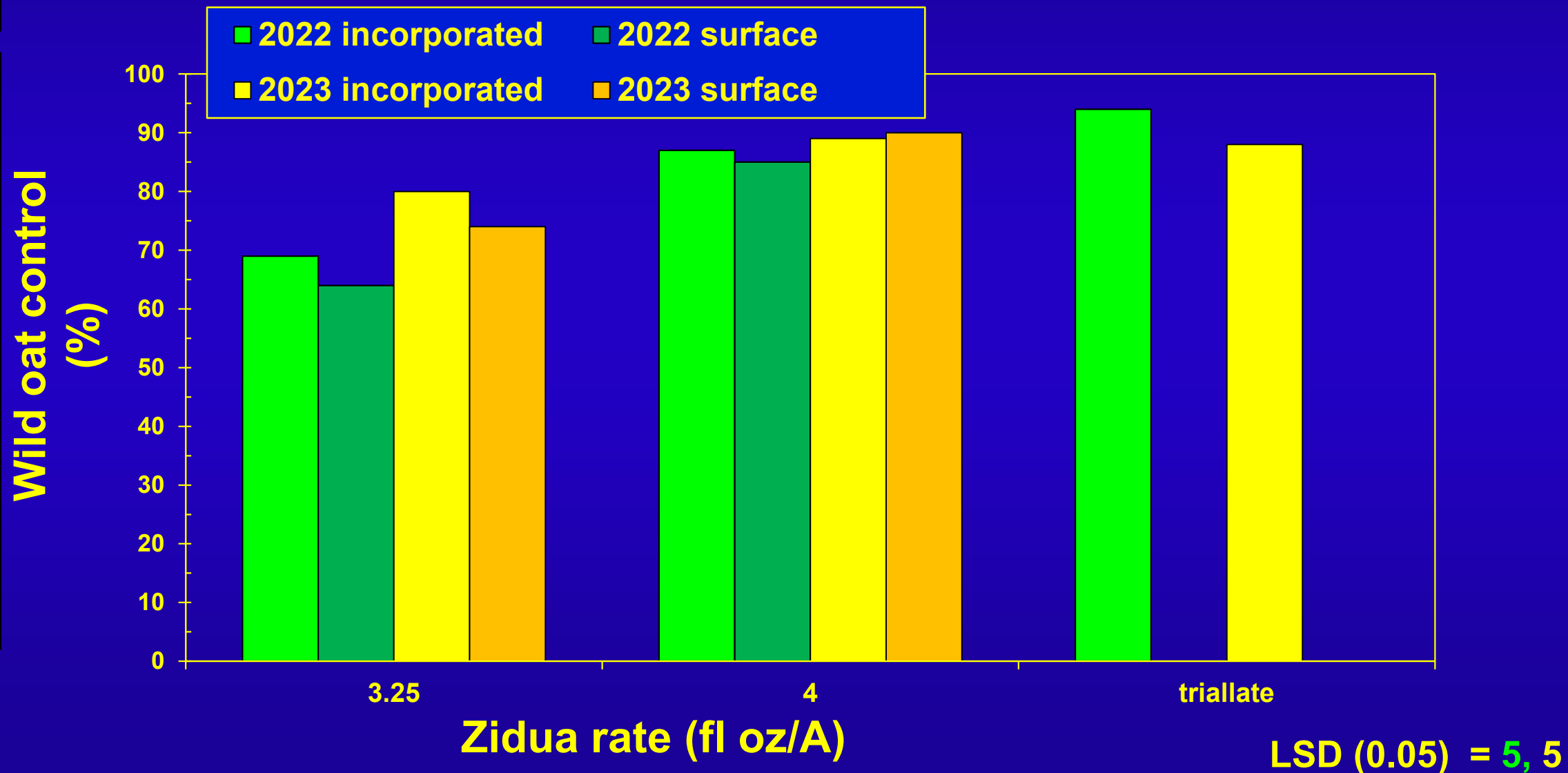


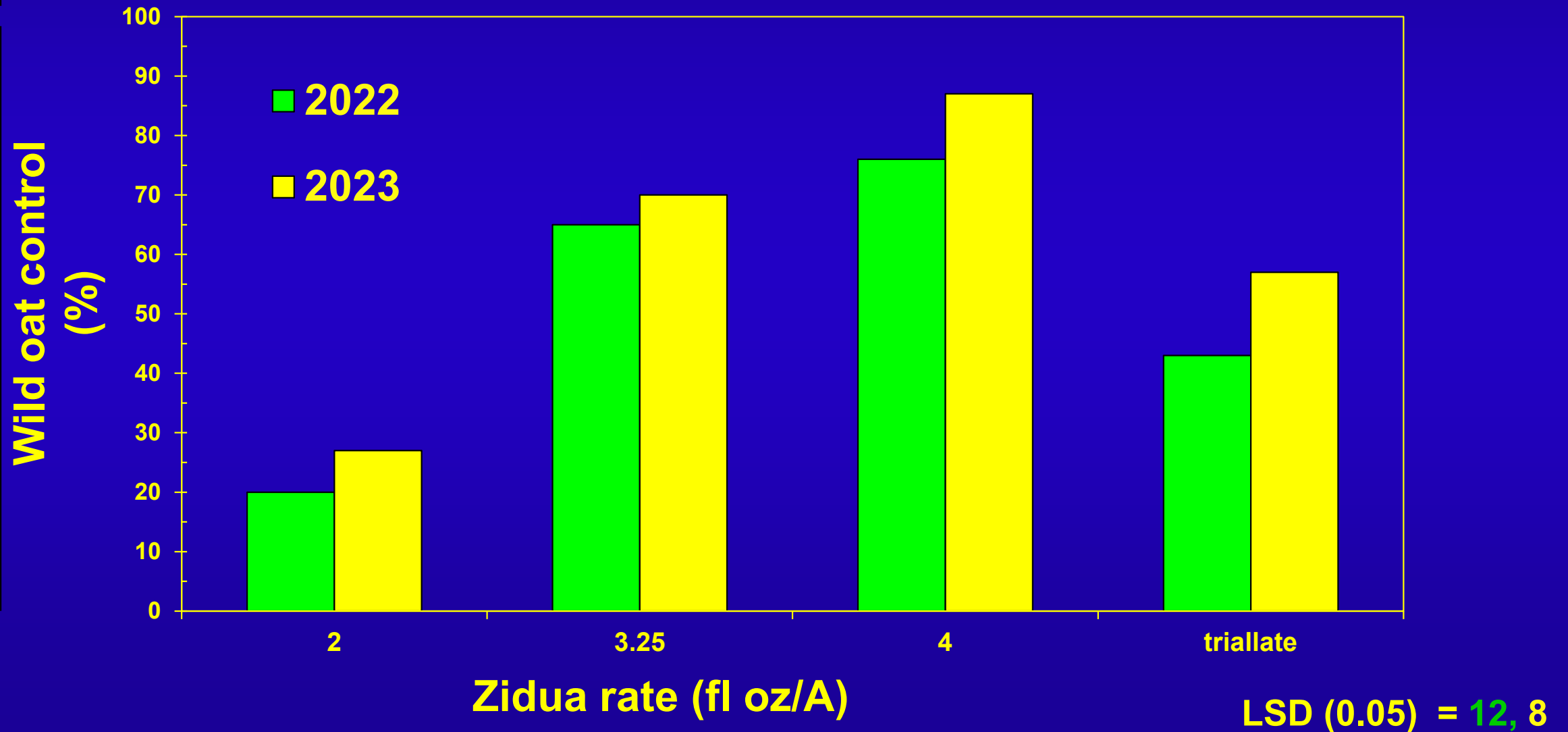
How did Zidua do on wild oat in 2023?



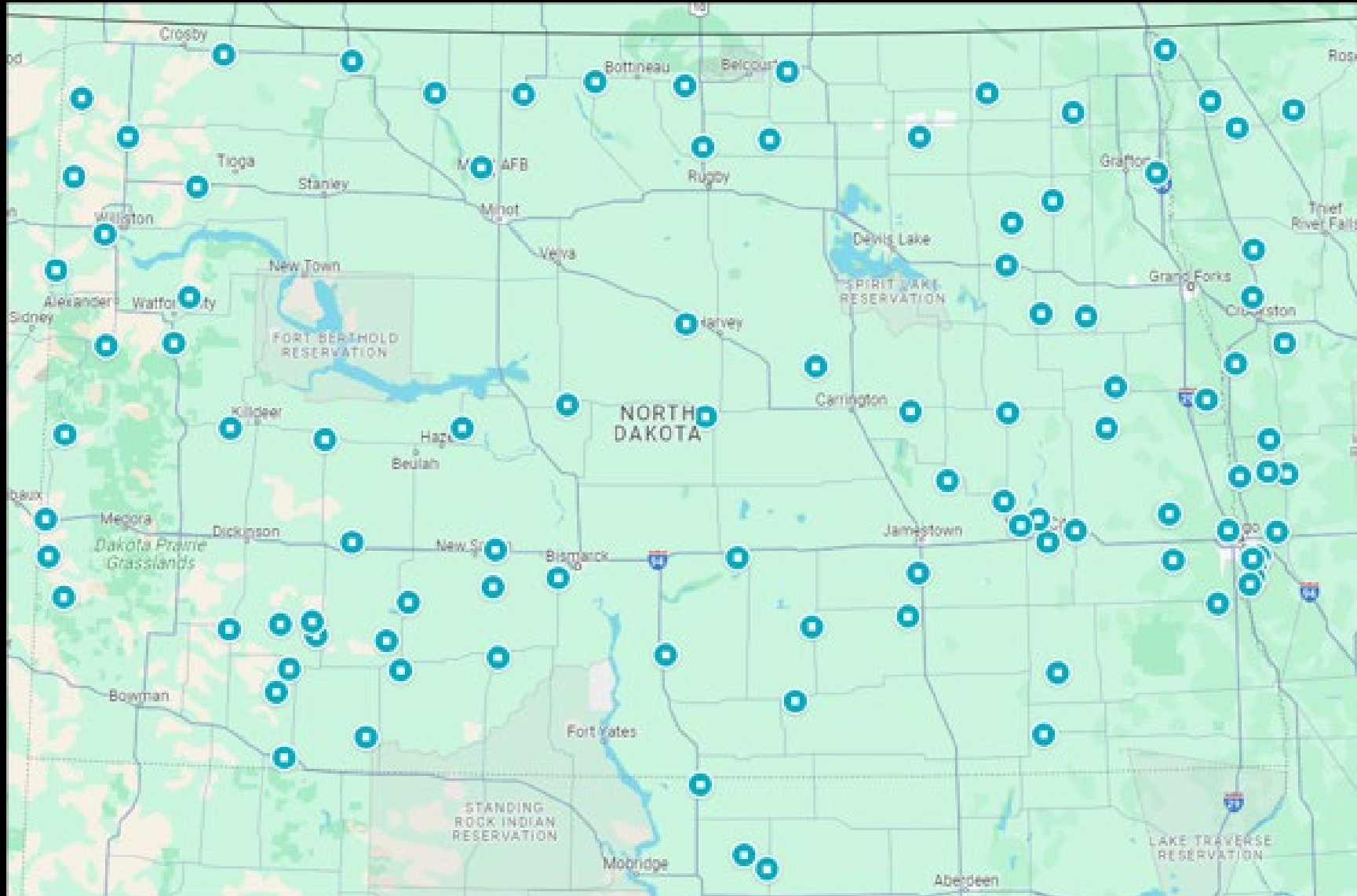
Fall Zidua on Conventional Till near Fargo



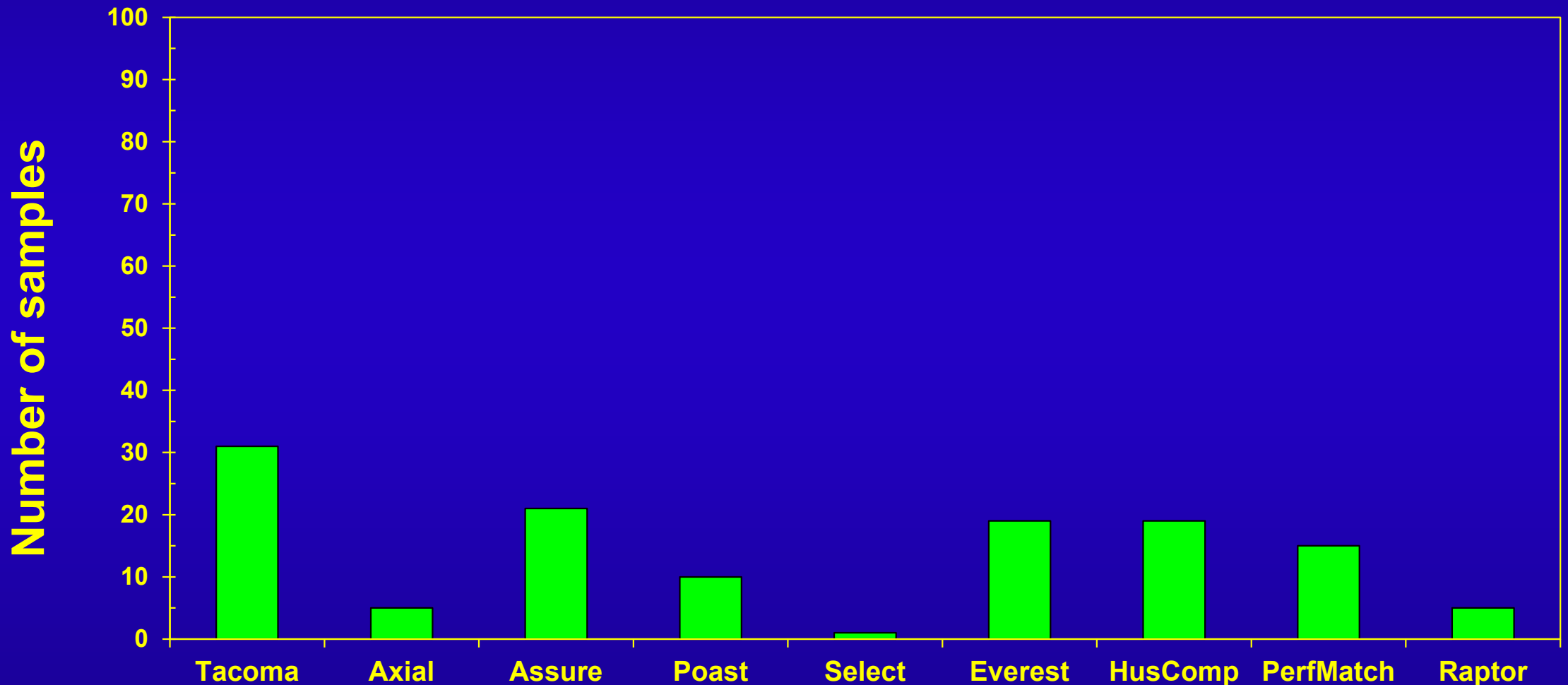
Fall Zidua on Minimum Till near Valley City



Nondirected State Survey of Wild Oat

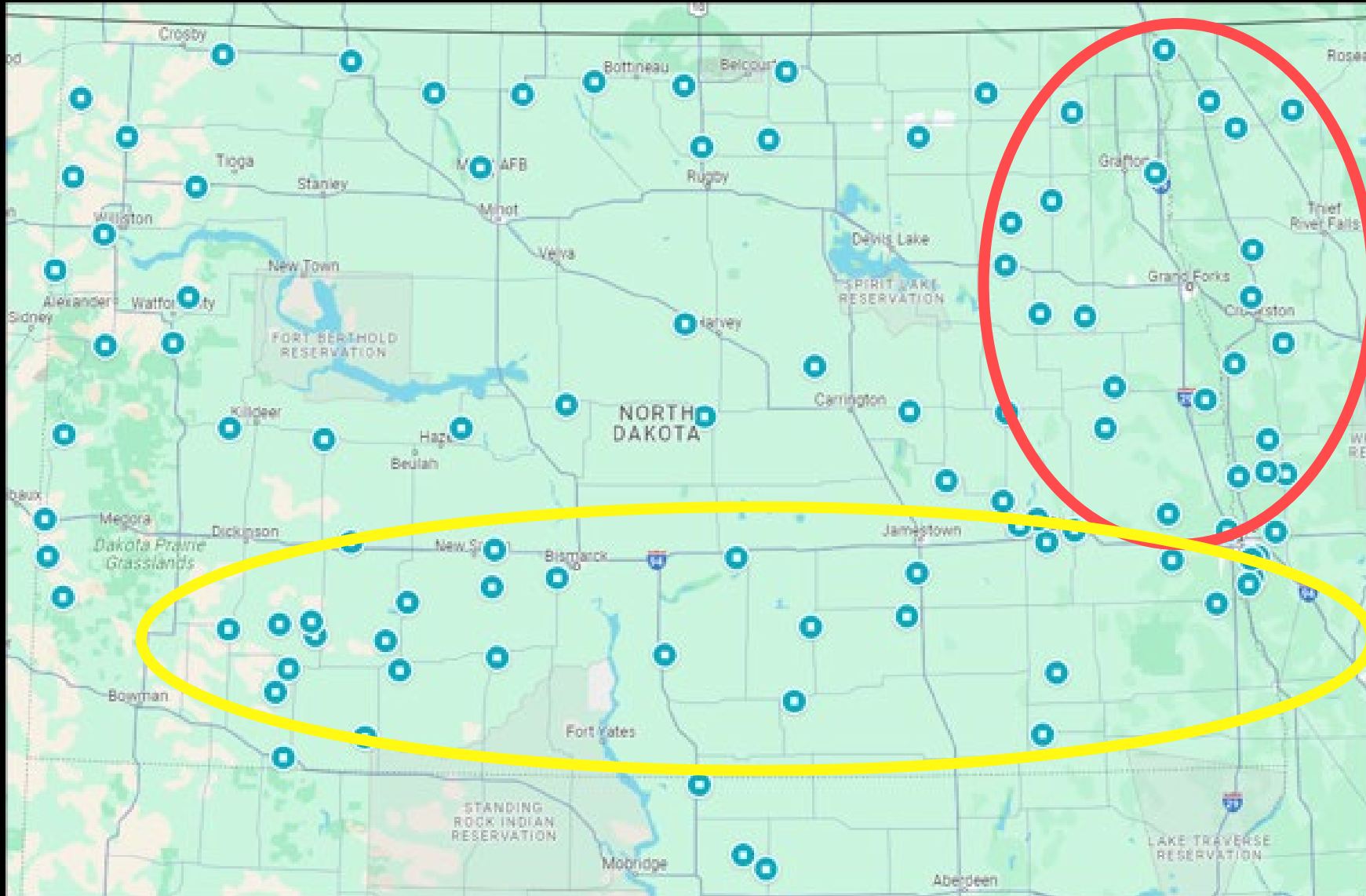


Wild Oat Samples with Resistance to Herbicides



98 Samples evaluated

Nondirected State Survey of Wild Oat



**1/2 samples R to
Groups 1 & 2**

**1/5 samples R to
Group 1**

Four Weeks After POST Application



Check Axial Disc Puma SelM Everest Varro PowerFlex Raptor Matrix PowerMax



Submitted Wild Oat Samples

High occurrence of resistance to Tacoma and Axial
Select, or your favorite clethodim

About $\frac{1}{2}$ of samples had some survivors

2 samples did not express symptoms

$\frac{1}{3}$ of samples had broad Group 1 & 2 resistance



Submitted Green Foxtail Samples

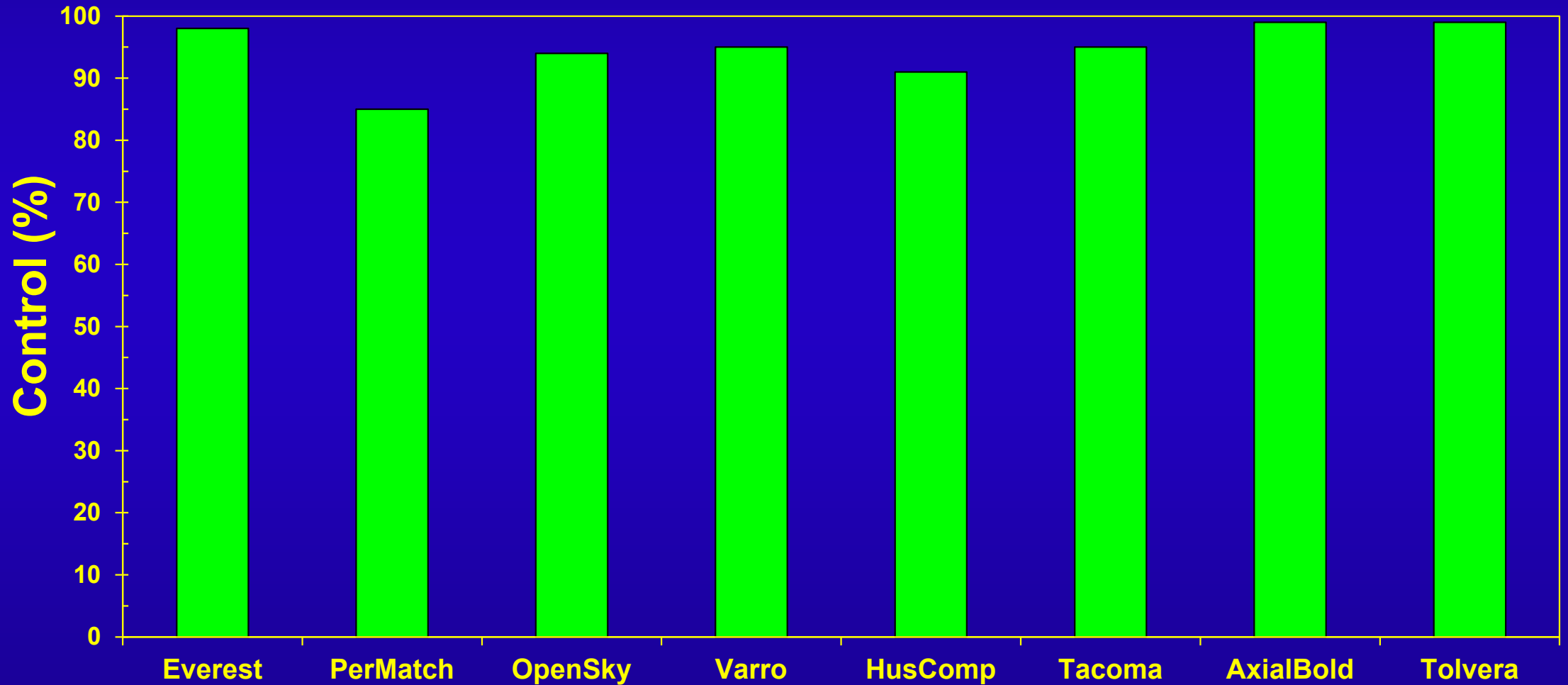
Nearly all with strong resistance to Tacoma and Axial Select, or your favorite clethodim

About $\frac{1}{2}$ of samples control as low as 80%

Group 2 wheat herbicides largely effective

$\frac{1}{4}$ of samples with low resistance to Raptor

Yellow Foxtail control in Wheat

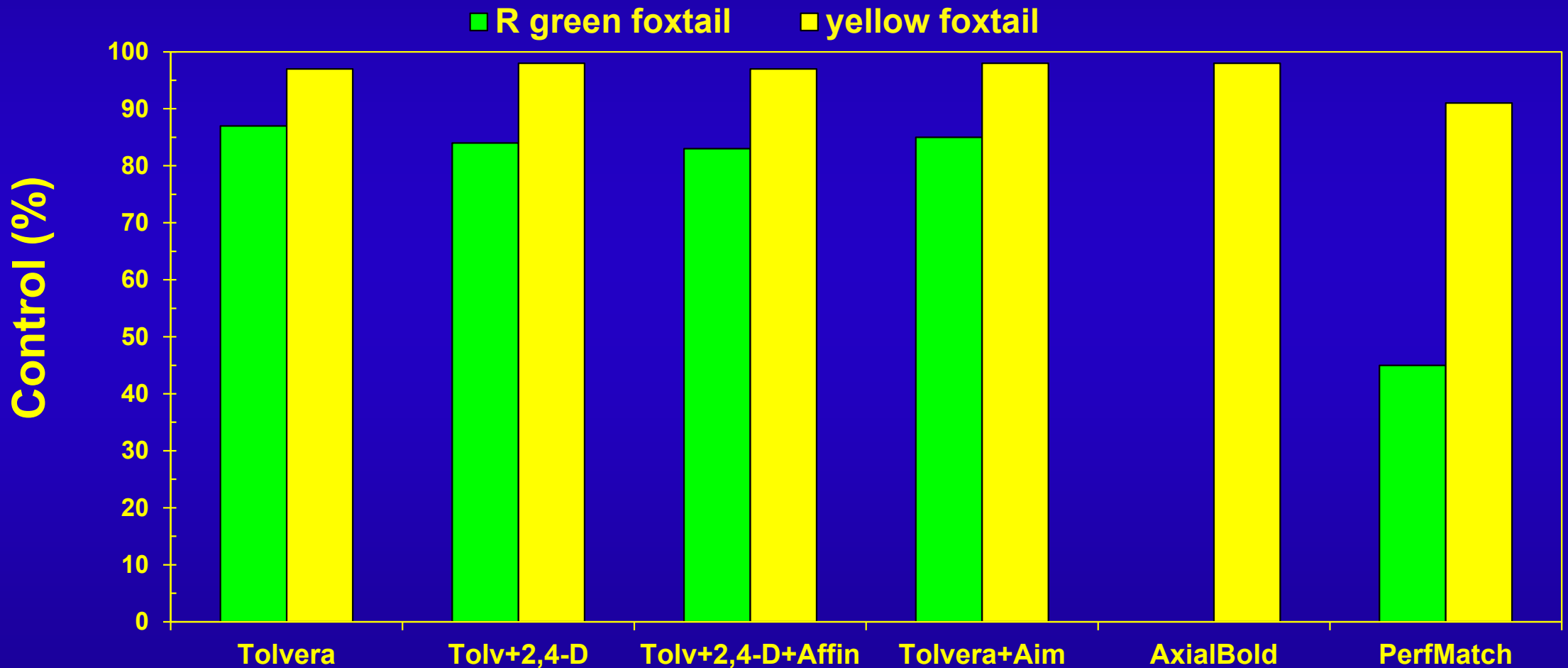


LSD (0.05) = 3

GF-5036

- Spring 2024 launch
- Active ingredients/formulation:
 - tolpyralate + bromoxynil
 - HPPD (group 27) + PSII Inhibitor (group 6)
 - EC formulation
- Use rate of 11.0 – 14.7 fl oz/A
- Labeled POST emergence for wheat (spring, winter, durum) and barley
- Key product features:
 - Dual MOA broadleaf and foxtail herbicide
 - control of herbicide-resistant weeds including kochia and waterhemp
 - Excellent crop rotation flexibility

Foxtail Control



LSD (0.05) = 4, 2

Axial XL



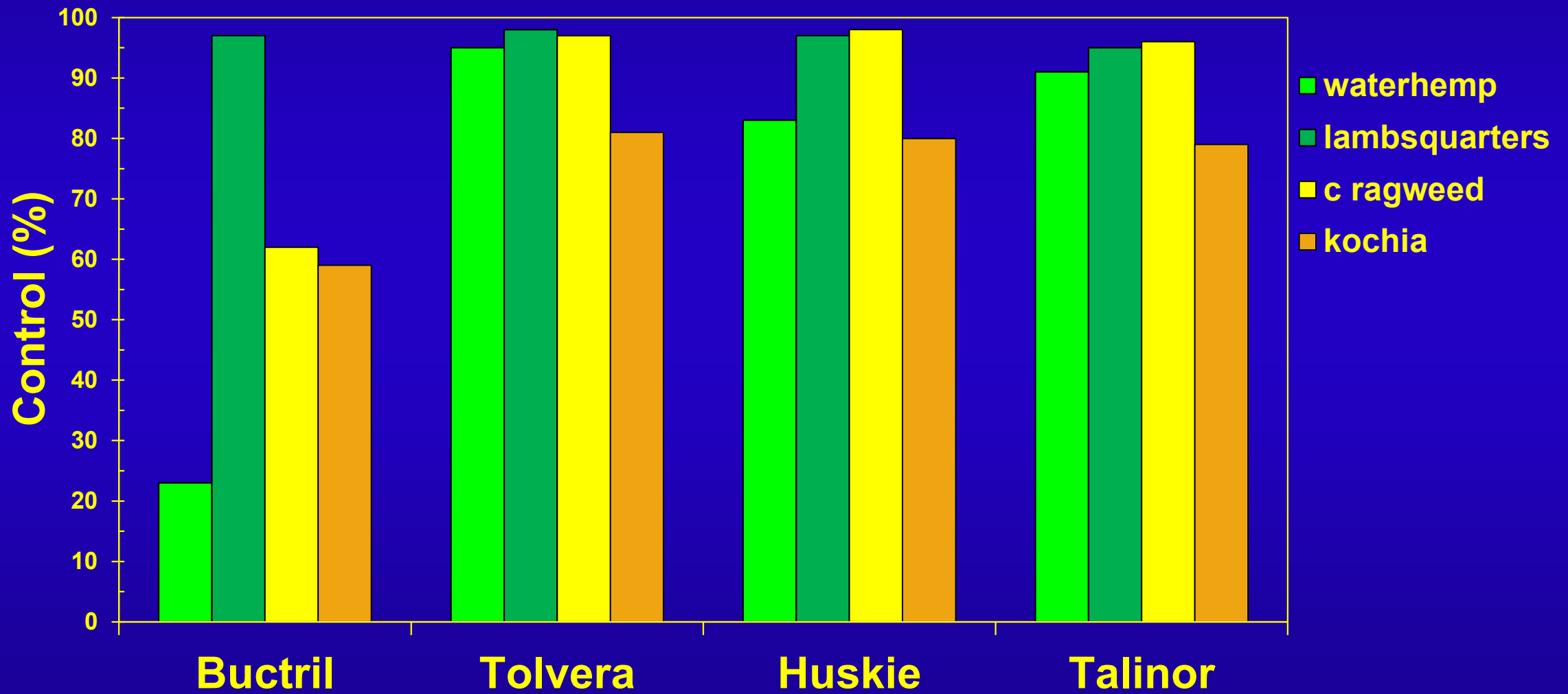
Perfect Match



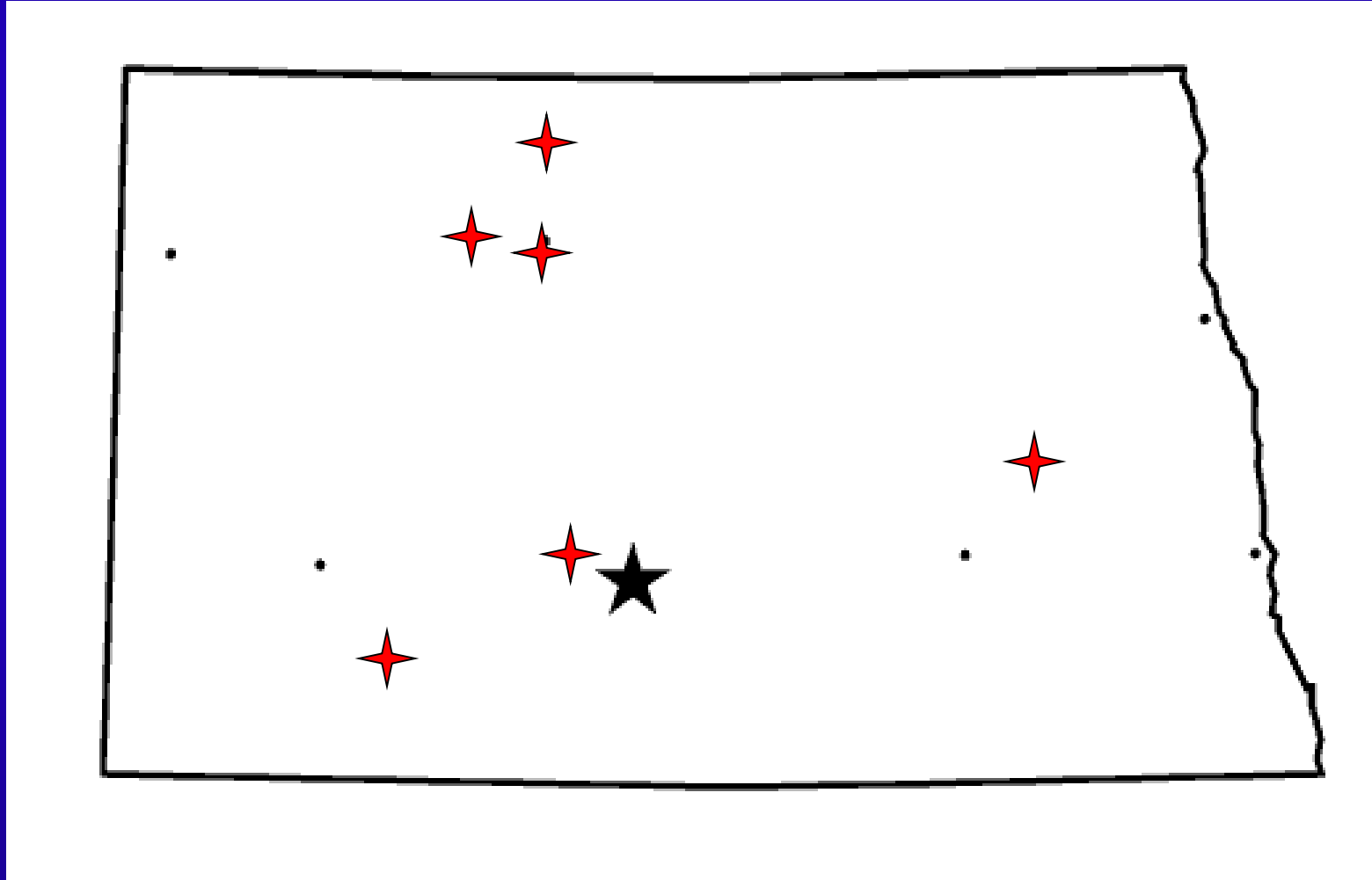
Tolvera+2,4-D



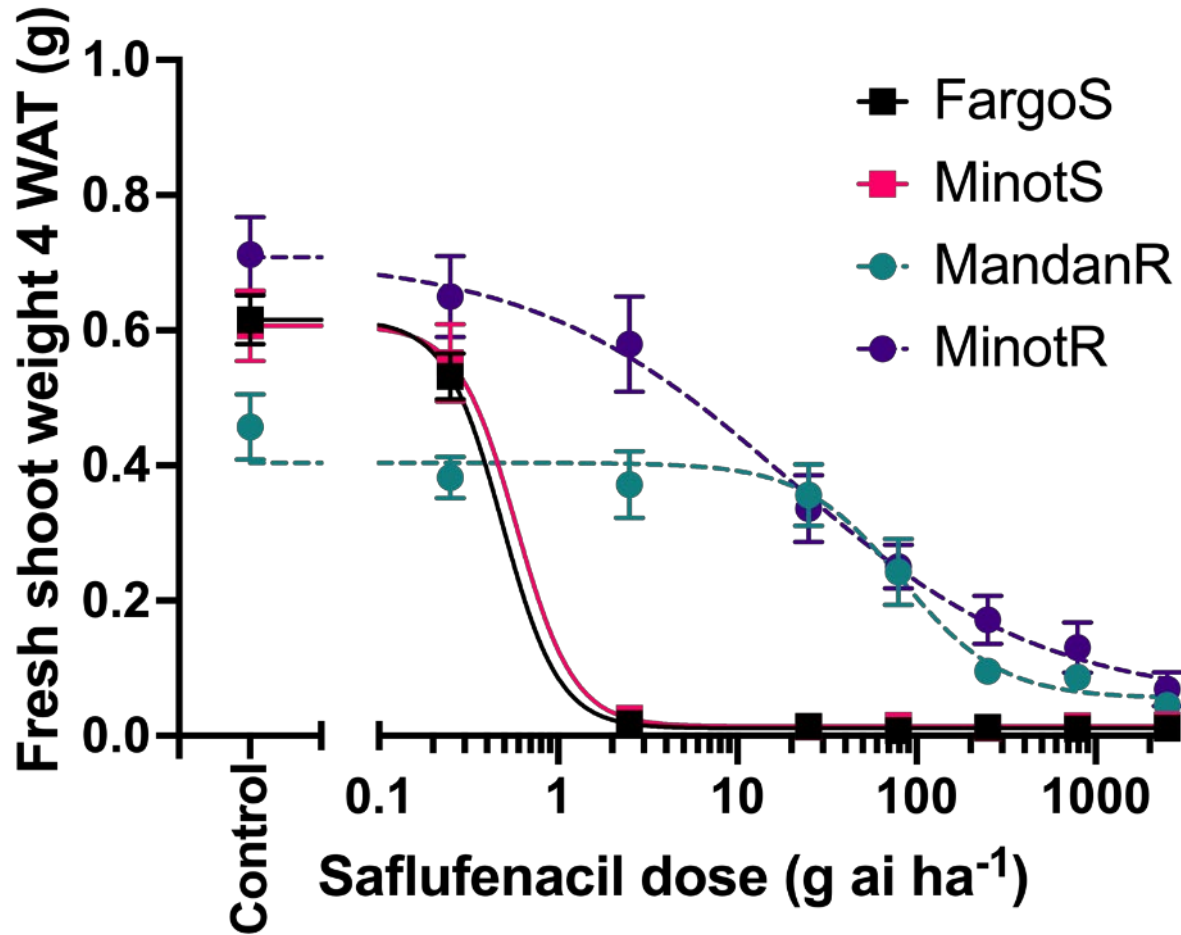
Broadleaf Control with Group 27 Premixes



Kochia is now a Survivor of PPO Herbicides



Group 14-resistant kochia



Courtesy of Dr. Quincy Law

Saflufenacil rate:
g a.i. ha⁻¹
Relation to 1 oz product A⁻¹ field rate

14 days after treatment

Mandan-R

Minot-S

0
0x

0.25
0.01x

2.5
0.1x

25
1x

79
3.16x

250
10x

790
31.6x

2500
100x

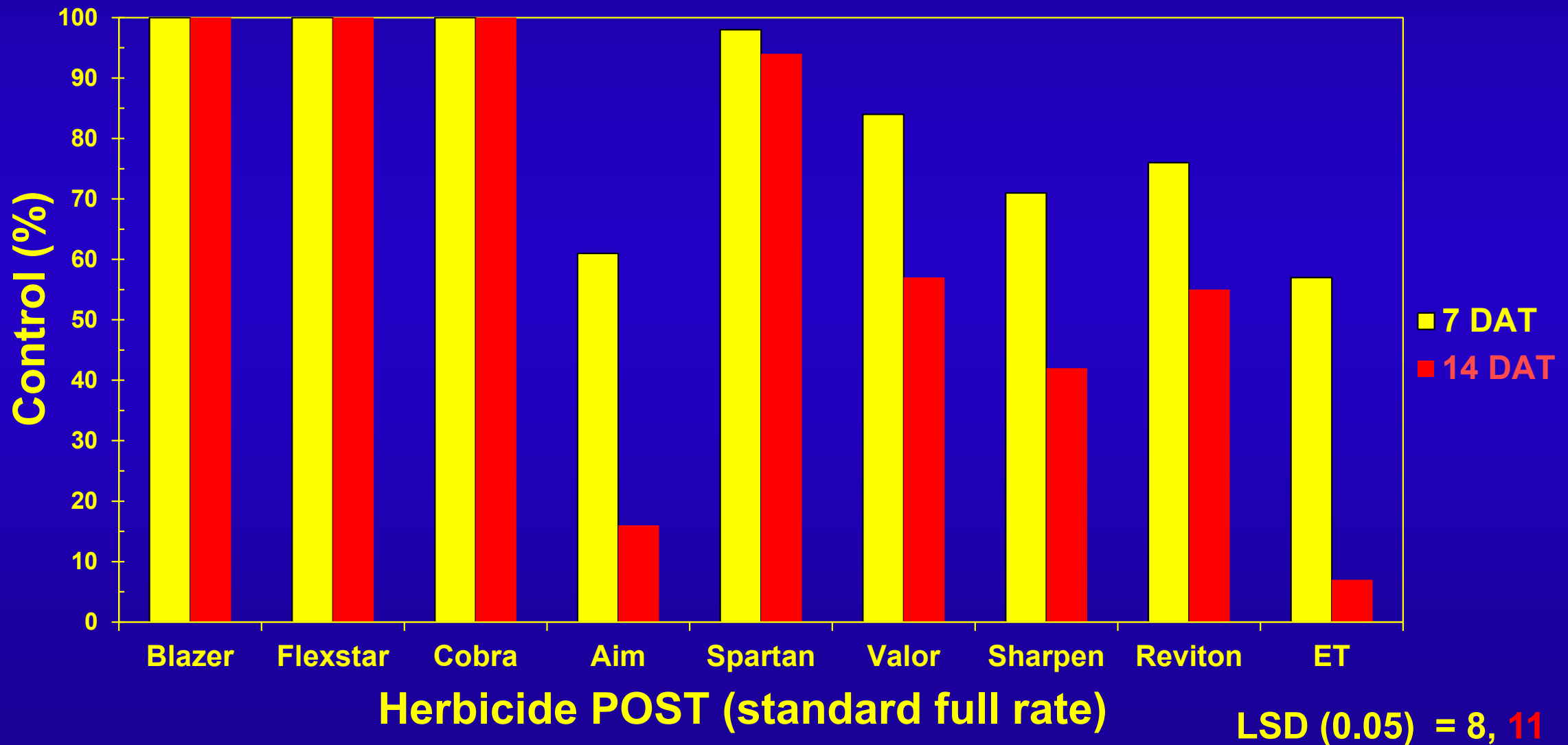
Courtesy of Dr. Quincy Law

Survivors of 100x Saflufenacil



Courtesy of Dr. Quincy Law

Kochia Collection from Minot, ND



Minot Kochia

Spartan POST



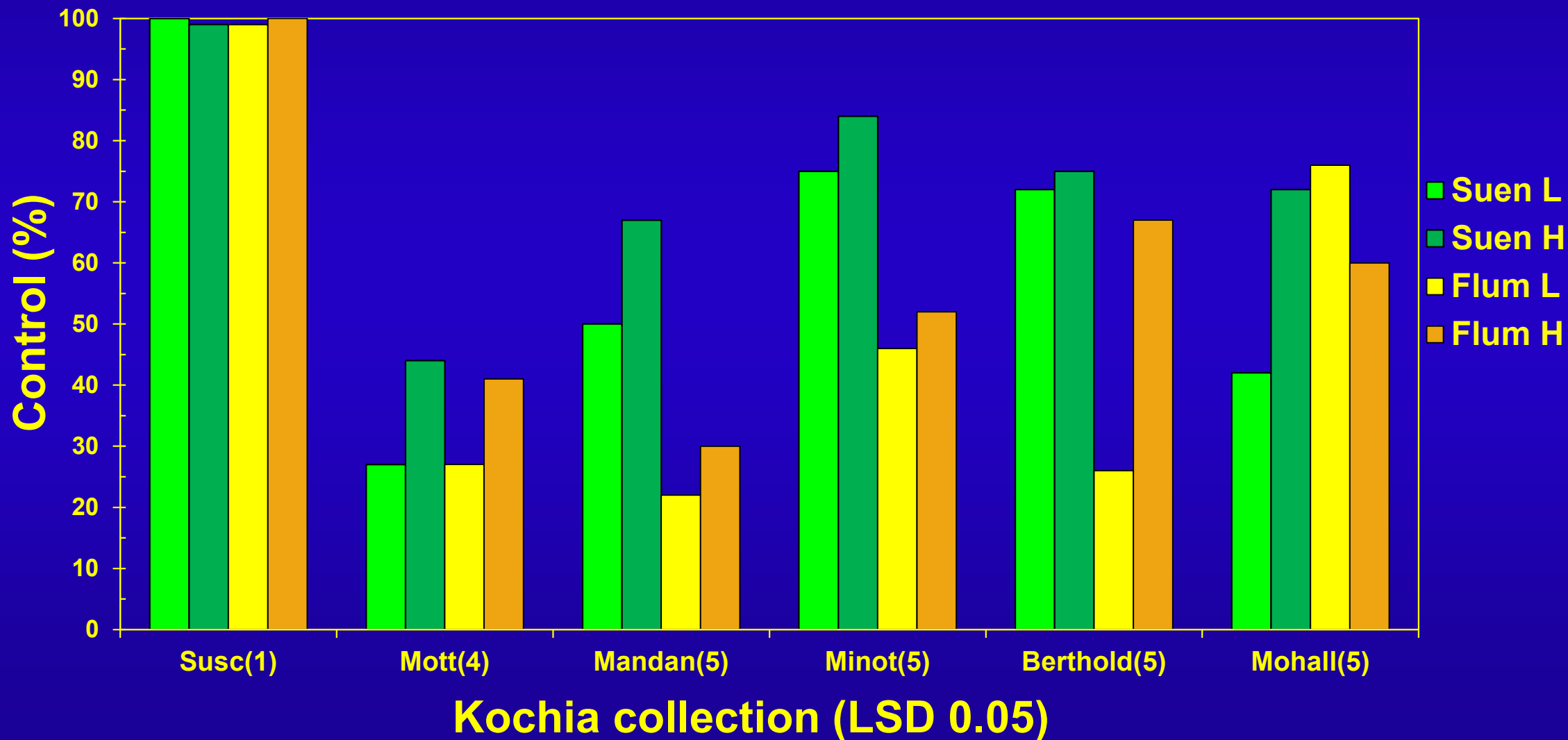
Sharpen



Aim



Pre-emergence Kochia Control with High Rate





Bonfield

Manden

Mahall

Matt

2015 Susceptible

Minot

SEANS

Susceptible Z

Flum 3oz

Flum 1.5oz

Suen 4oz

Suen 2oz

Check

100-1

100-2

100-3

100-4

100-5

100-6

100-7

100-8

100-9

100-10

100-11

100-12

100-13

100-14

100-15

100-16

100-17

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100-22

100-23

100-24

100-25

100-26

100-27

100-28

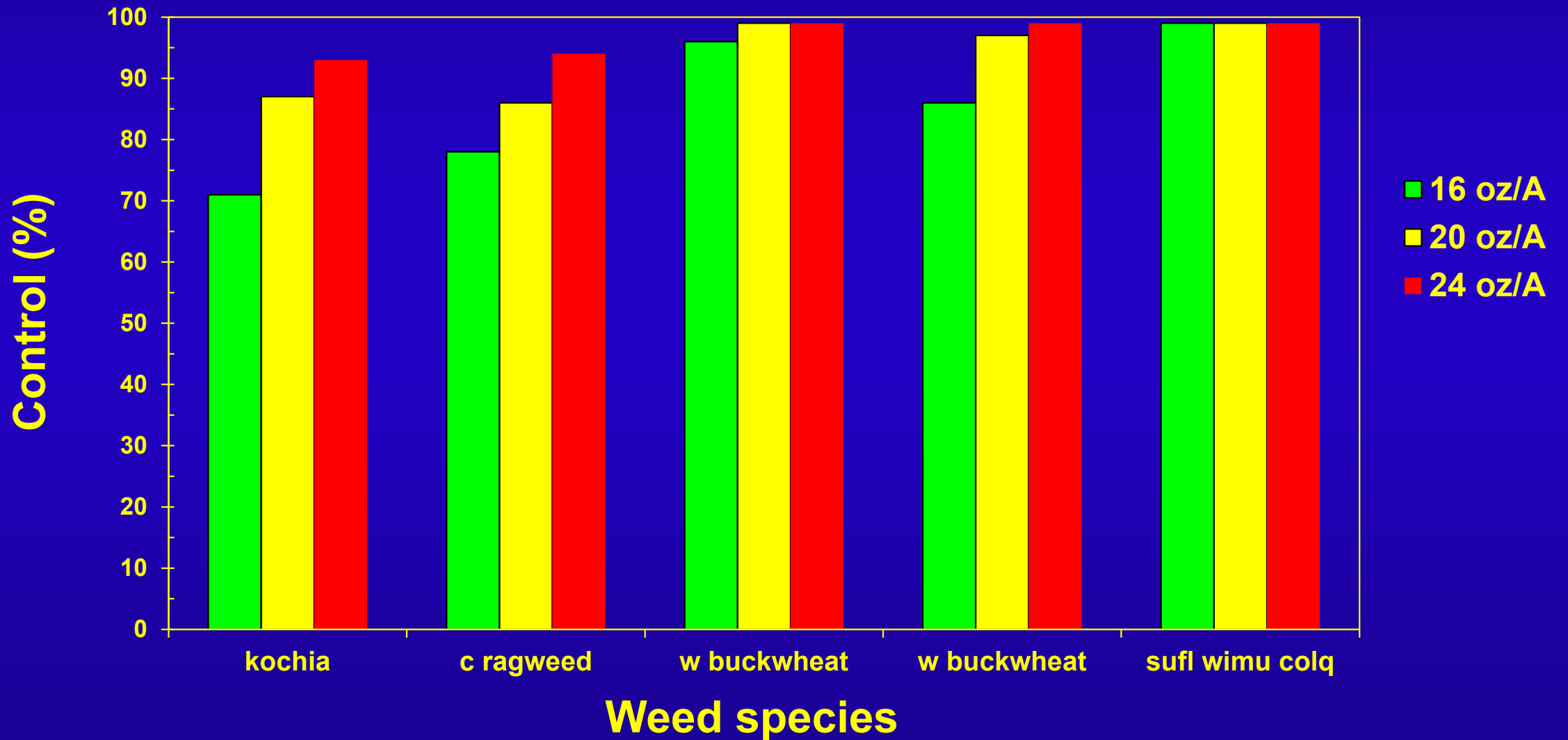
100-29

100-30

100-31

100-32

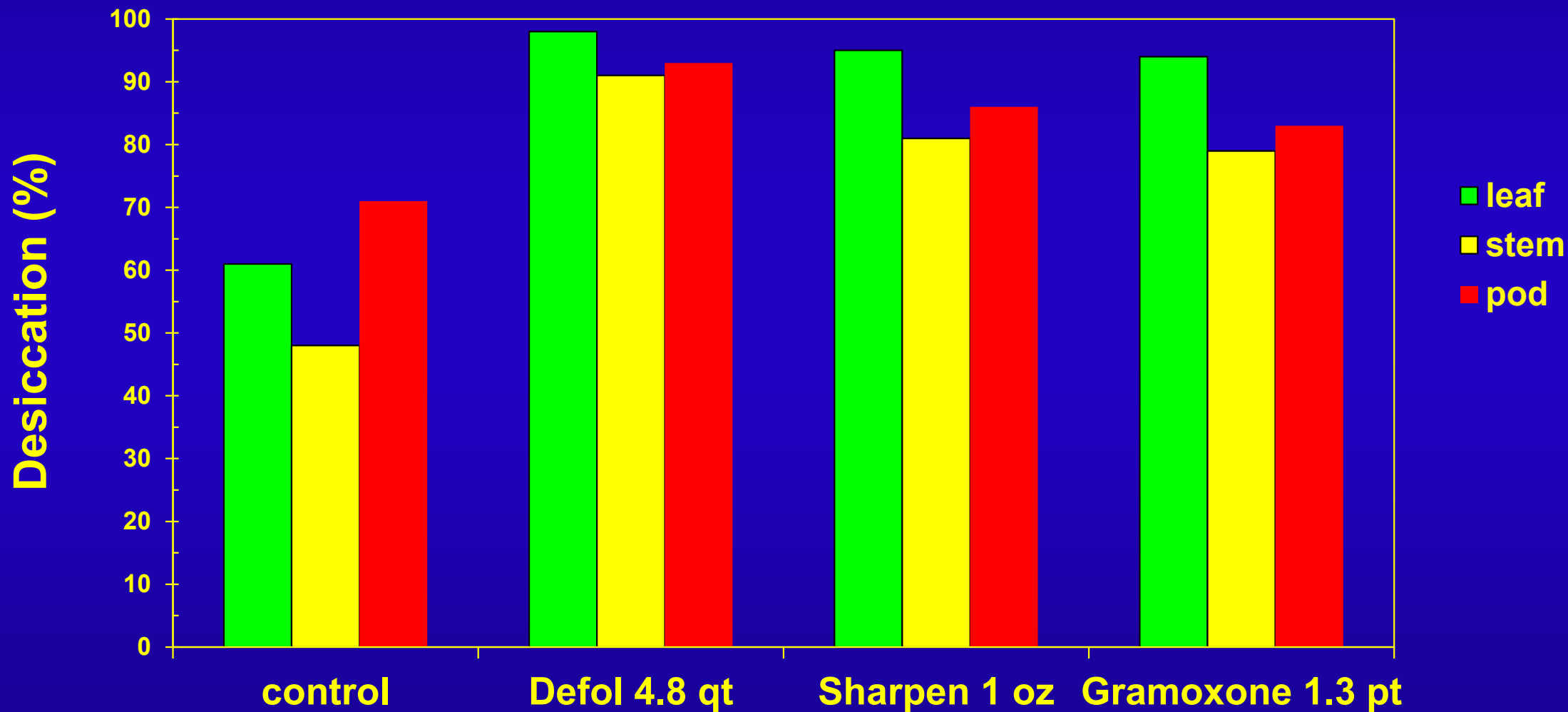
Weed Control with Maestro EXT



Desiccation of Dry Bean 7 DAT



Dry Bean Plant Component Estimates

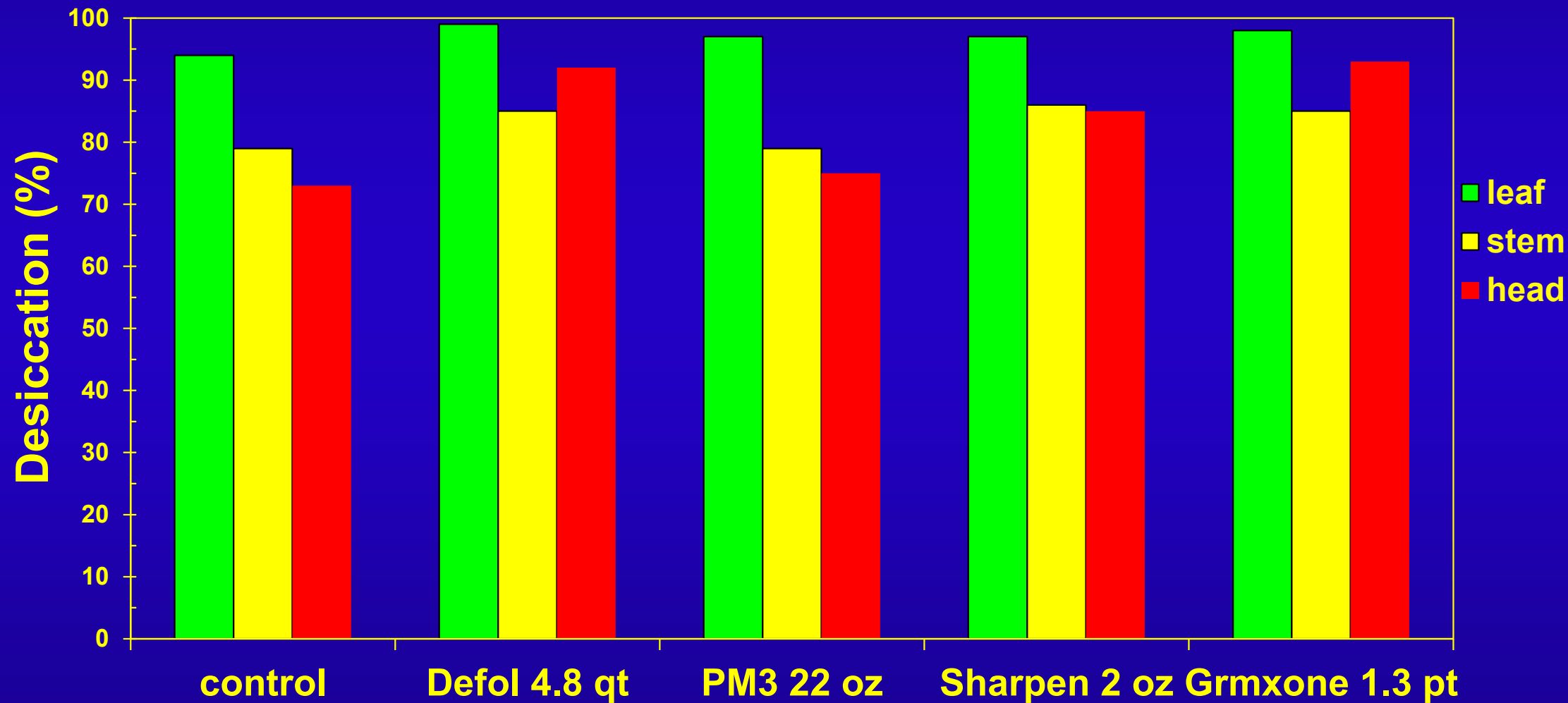


LSD (0.05) = 6, 9, 6

Sunflower at Desiccation Timing

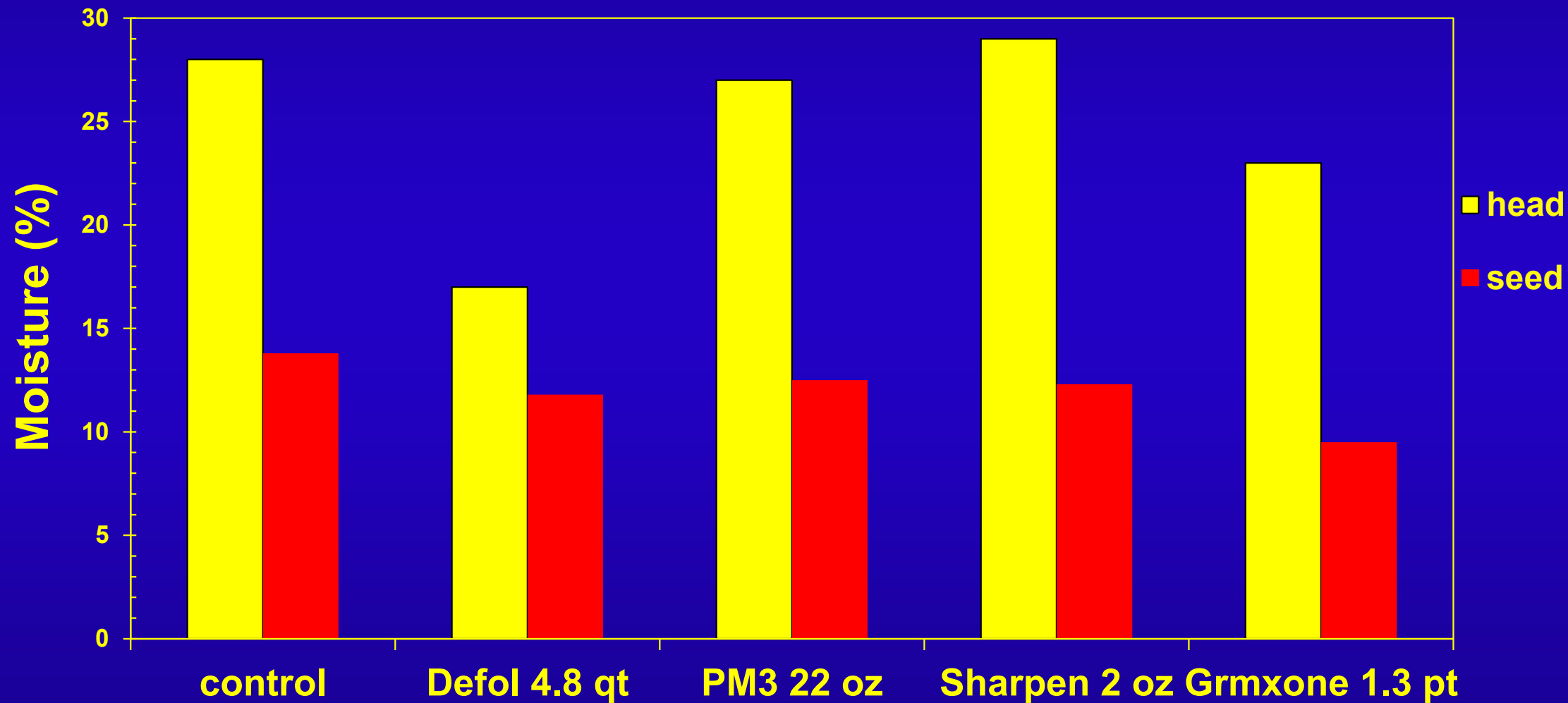


Sunflower Plant Component Estimates



LSD (0.05) = 3, 6, 7

Sunflower Harvest Moisture Values

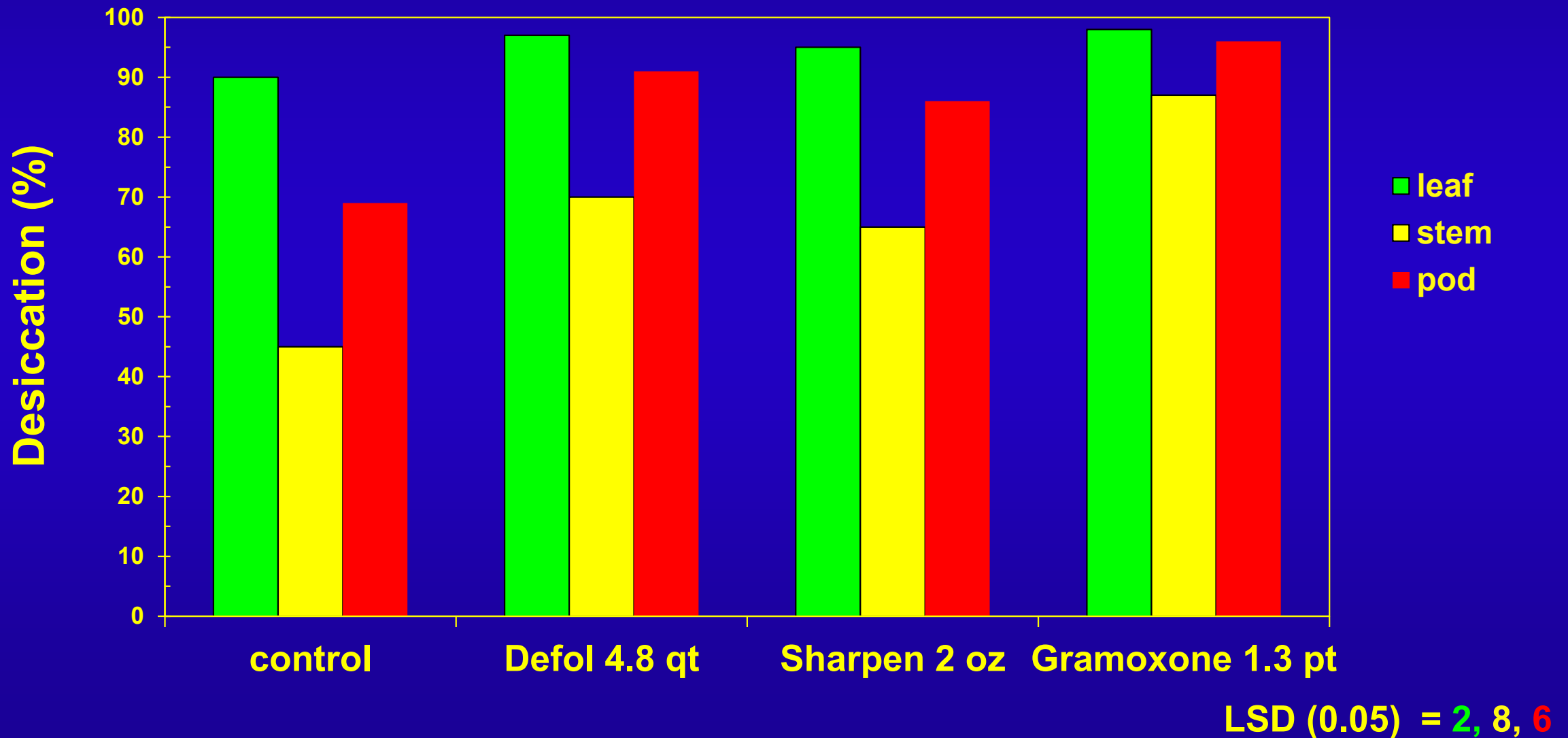


LSD (0.05) = 12, 3

Canola at Desiccation Timing



Canola Plant Component Estimates



1.2 pt Reglone + GlyLoad + Drift-Fiant

