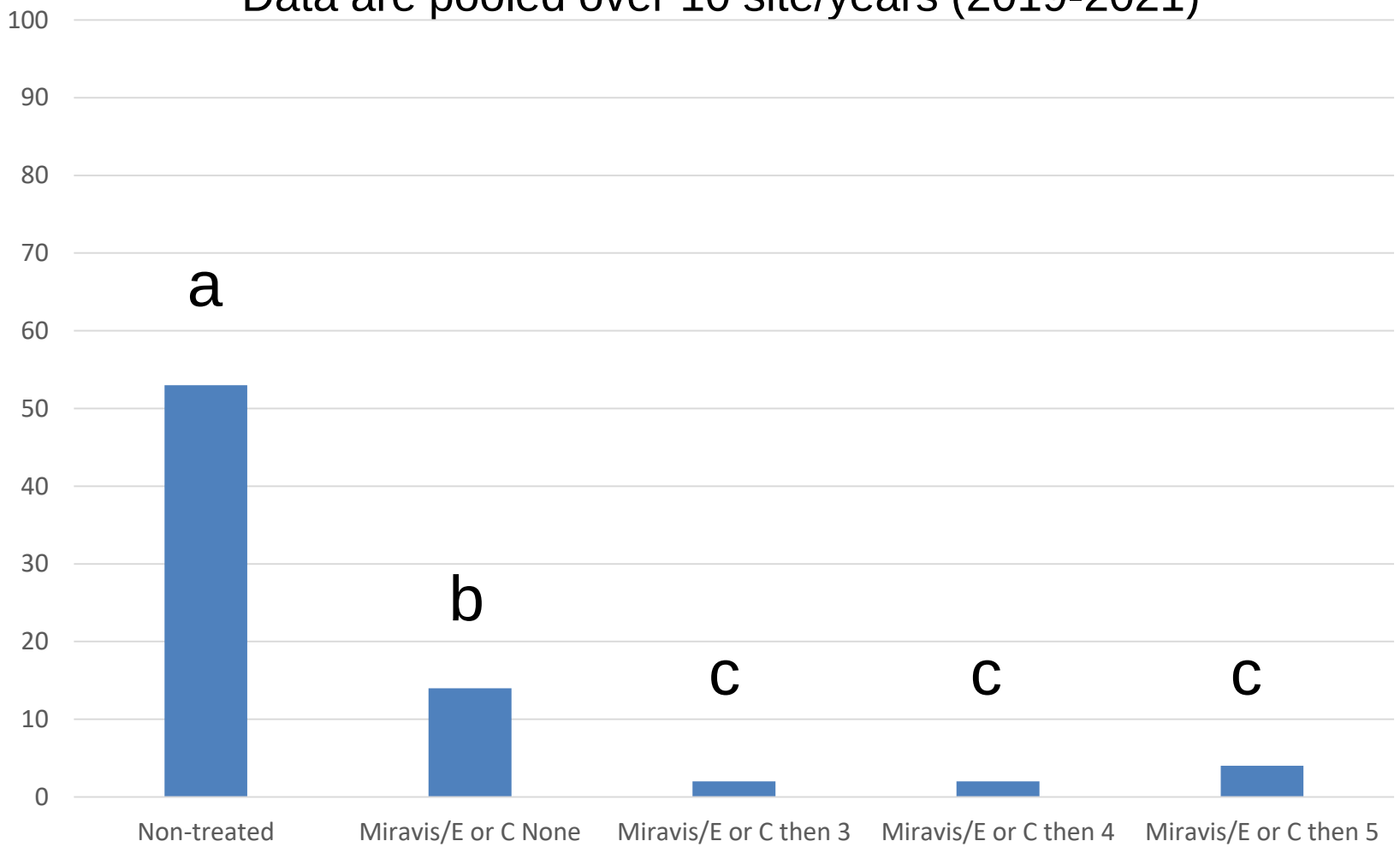
Miravis plus Elatus or Convoy Applied at Spray 2

- Non-treated
- No follow up after spray 2
- Follow up 3 weeks after spray 2
- Follow up 4 weeks after spray 2
- Follow up 5 weeks after spray 2

Study 1 Results

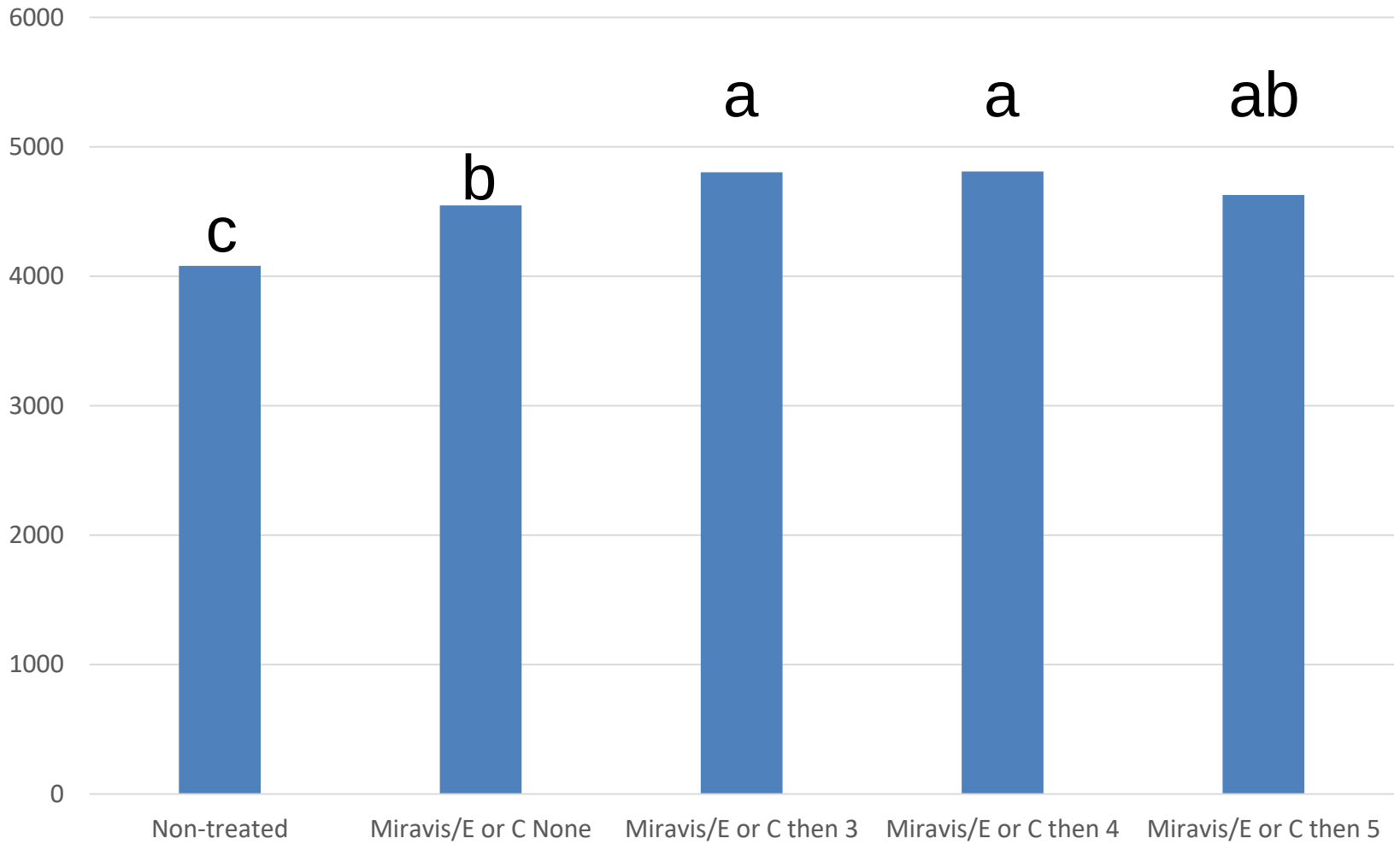
Canopy Defoliation (percent of leaves fallen) at Digging with Bailey or Bailey II Based on the Interval of Follow up After Miravis plus Elatus or Convoy. Study 1.

Data are pooled over 10 site/years (2019-2021)



Peanut Yield (lbs/acre) with Bailey or Bailey II Based on the Interval of Follow up After Miravis plus Elatus or Convoy. Study 1.

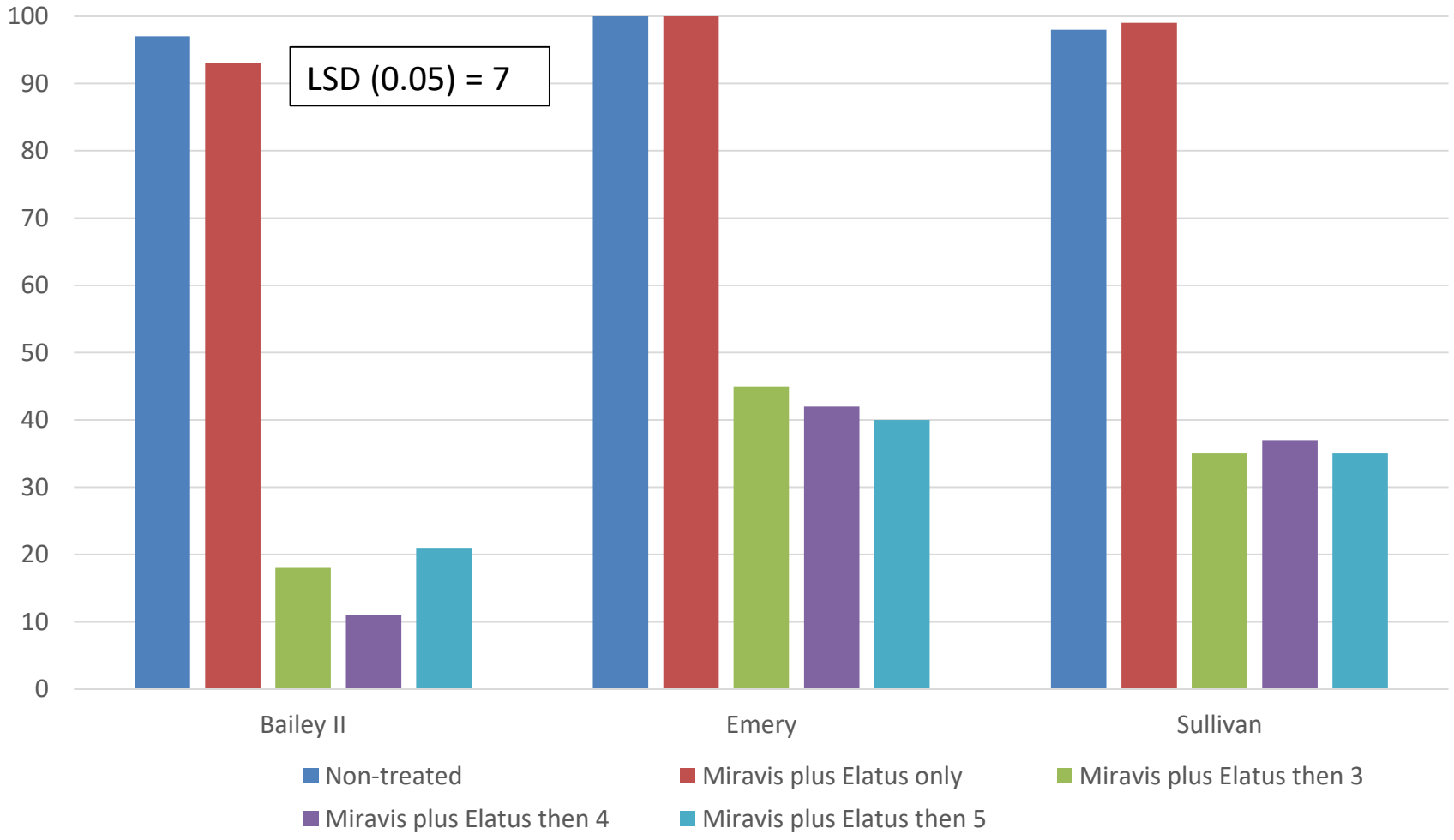
Data are pooled over 10 site/years (2019-2021)



Study 2 Results

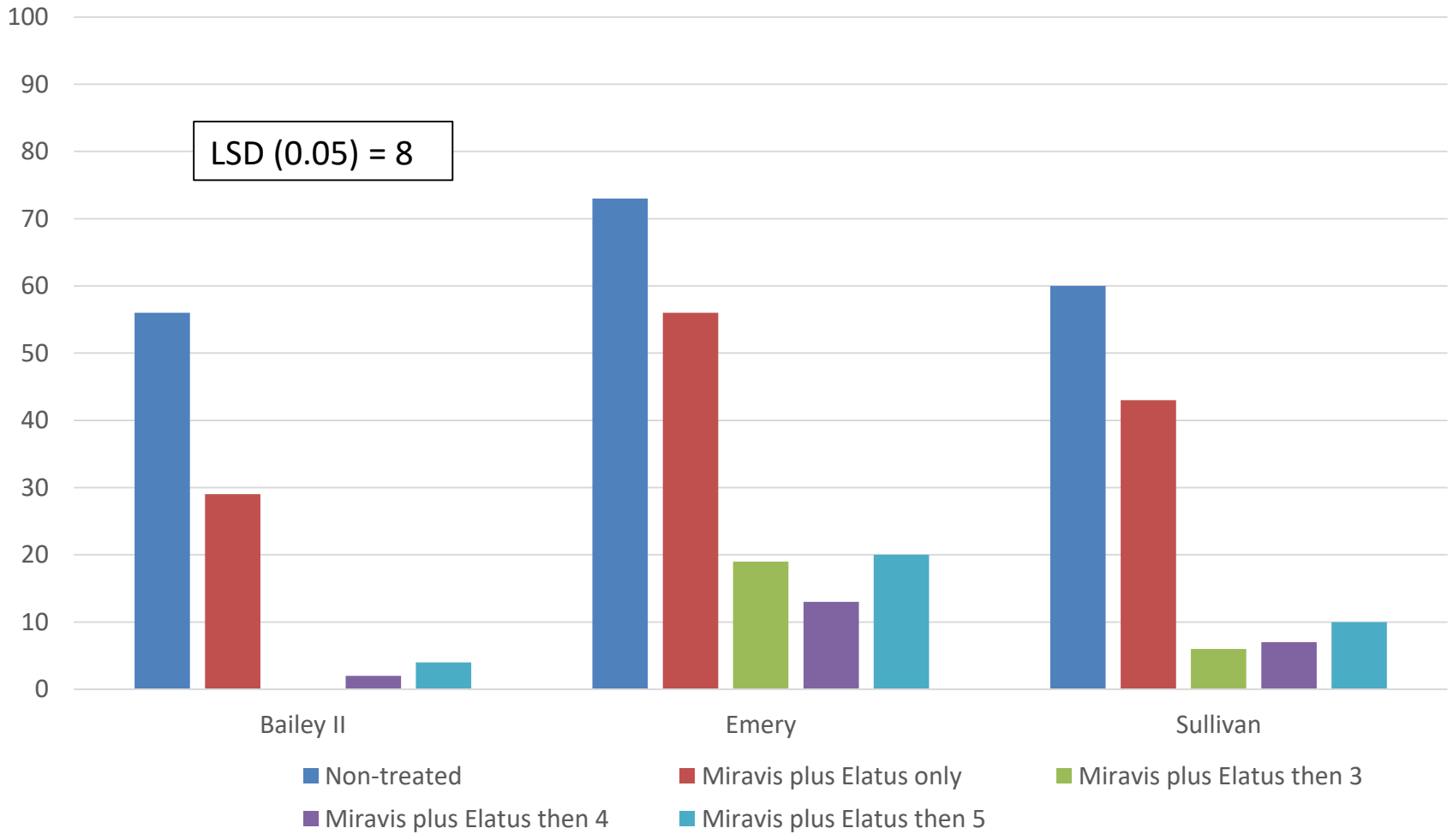
Leaf Spot Incidence (Percent of Leaves with Lesions) at Harvest

Data are pooled over three locations in 2021



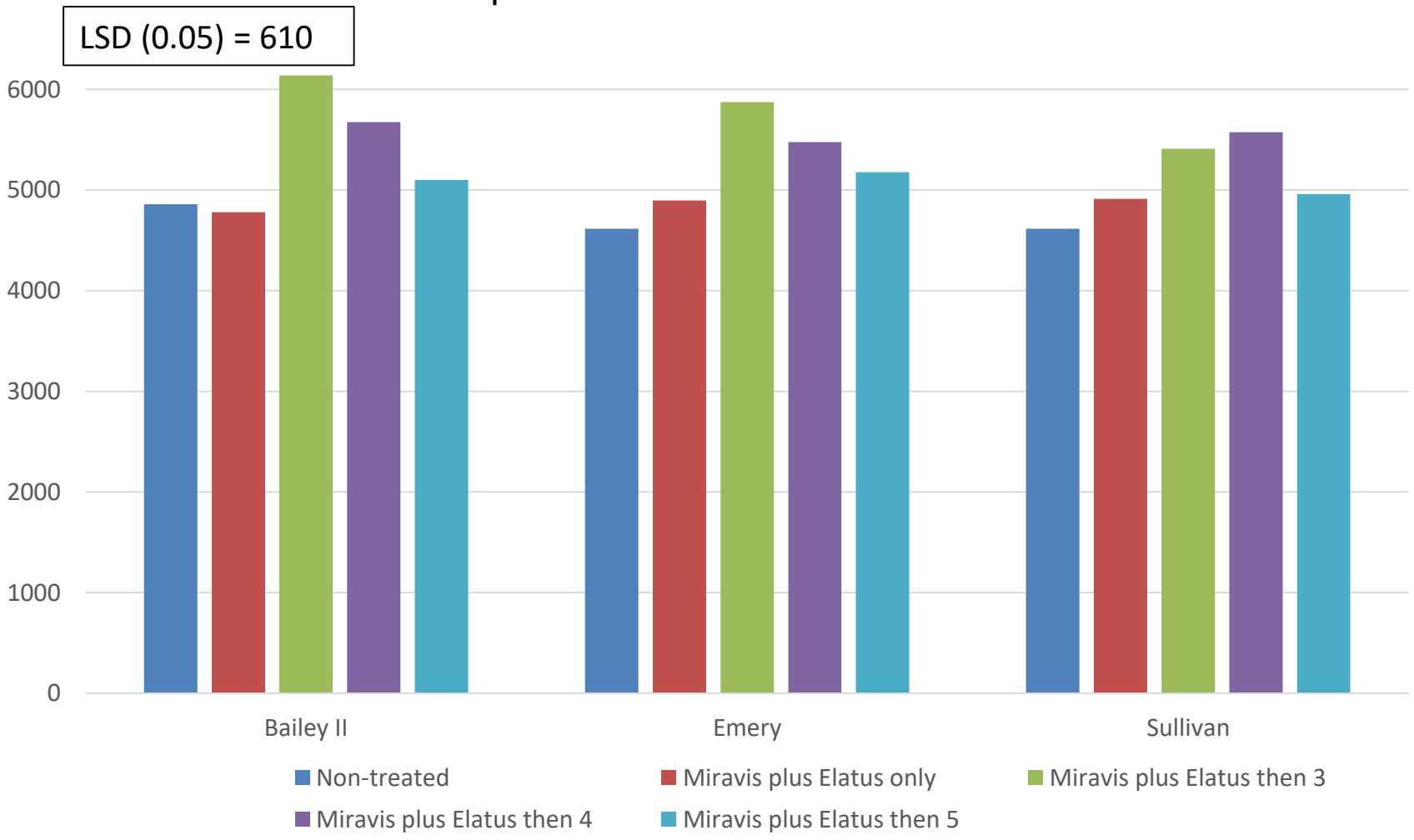
Canopy Defoliation (Percent of Leaves Fallen) at Harvest

Data are pooled over three locations in 2021



Peanut Yield (lbs/acre)

Data are pooled over three locations in 2021

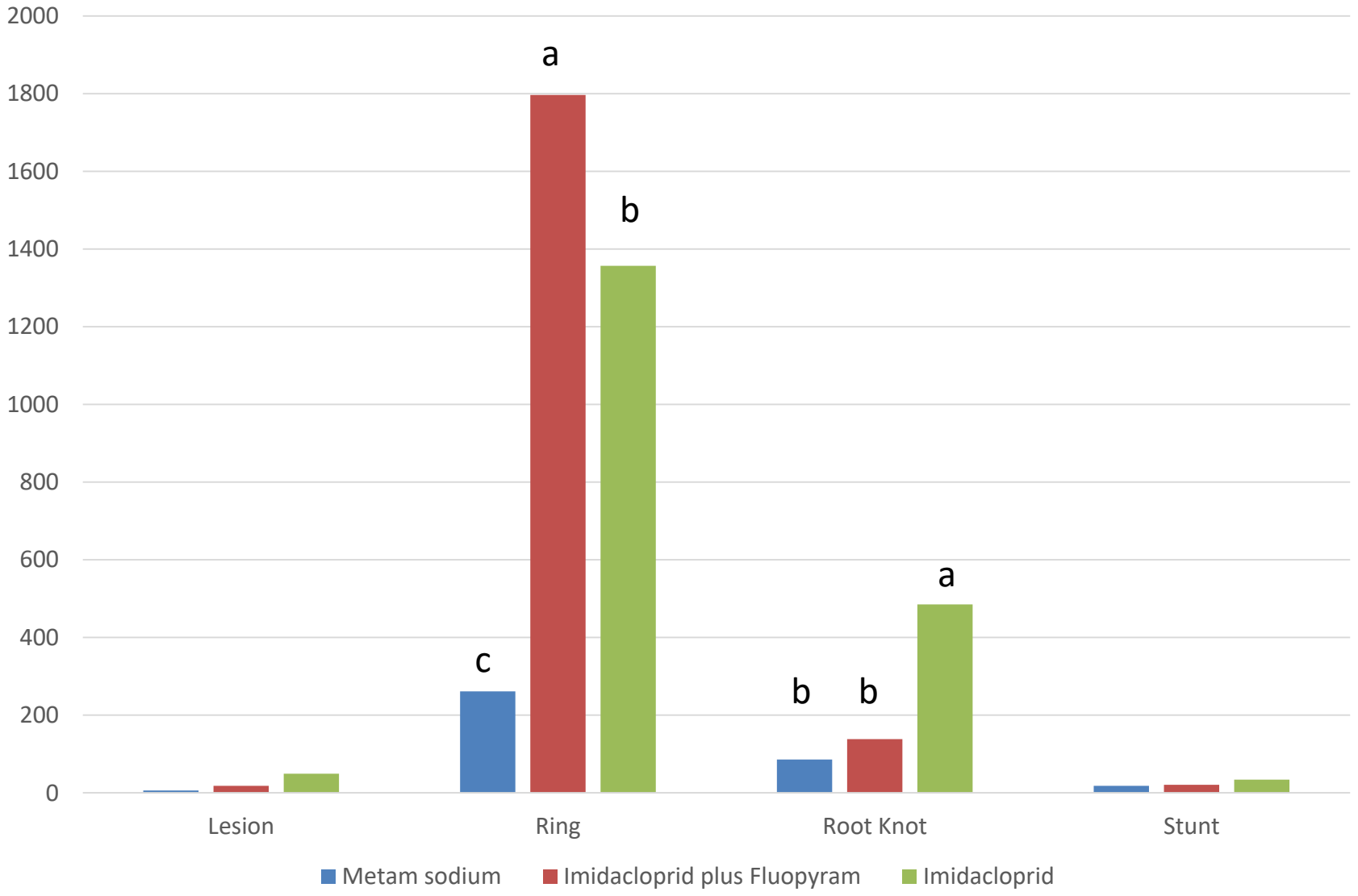


Summary

- Follow up at 3 and 4 weeks after Spray 2 (Miravis plus Elatus/Convoy) more effective than no follow up or follow up 5 weeks after Spray 2 (generally)
- Assume Elatus or Convoy was adequate on stem rot during critical time in NC (gaps based on timing of follow up with tebuconazole or azoxystrobin likely not a contributing factor to yield)
- Recommendations on follow up timing (generally and for these varieties)
- Concern over lesions at end of the season
- Financial competitiveness if follow up interval needs to be 3 weeks

Managing Nematodes

Nematode (Number per sample) Response to Chemicals
Data are pooled over rotations and varieties



Weed Science

- Resistance management
- Residual herbicides with Contact herbicides

Contact and Residual Herbicides

Gramoxone (3.0 lb) 8 oz or Storm plus Gramoxone 16 oz plus 8 oz

Dual Magnum 16 oz

Warrant 48 oz

Outlook 13 oz

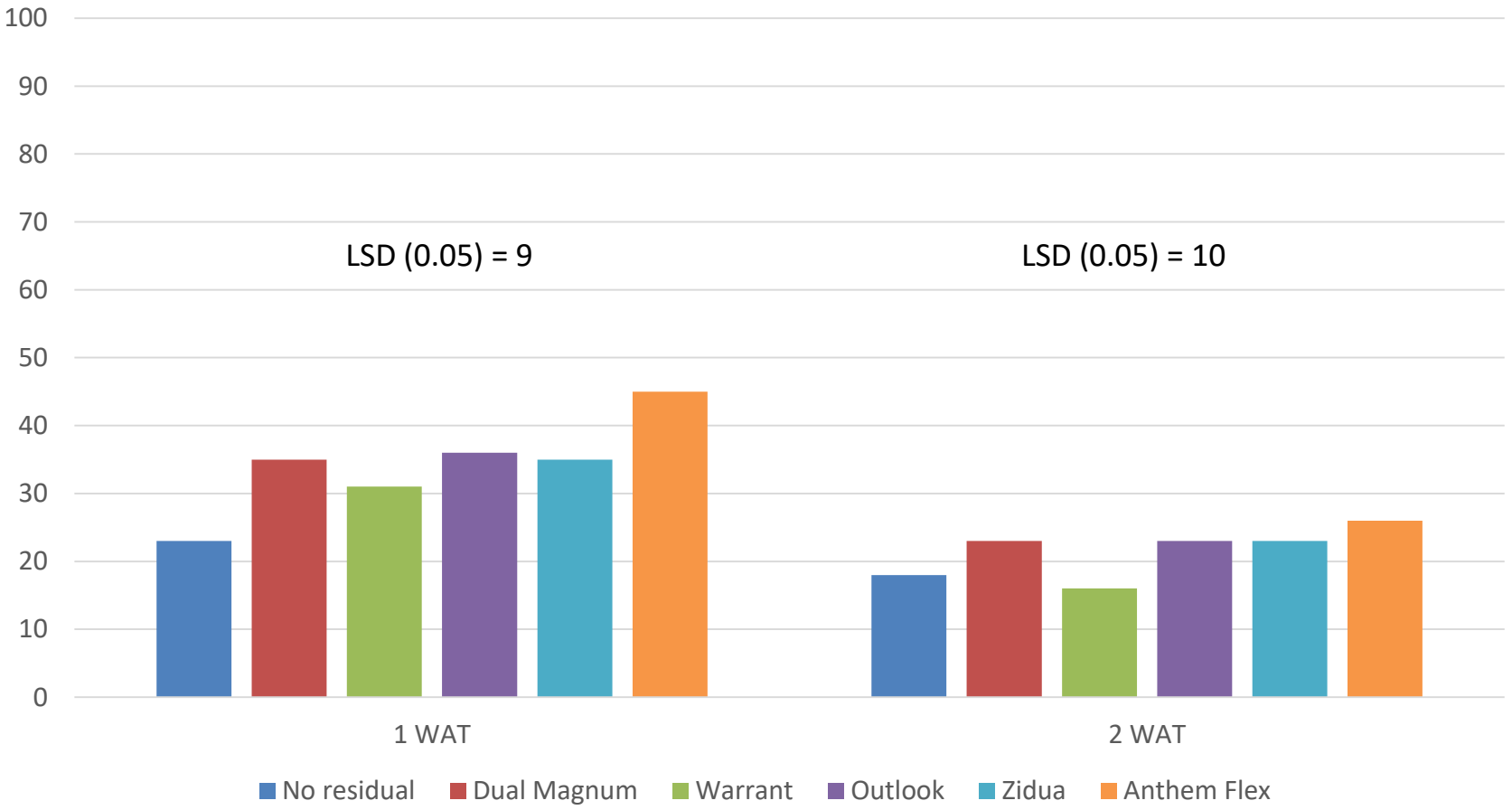
Zidua 2.5 oz

Anthem Flex 2.7

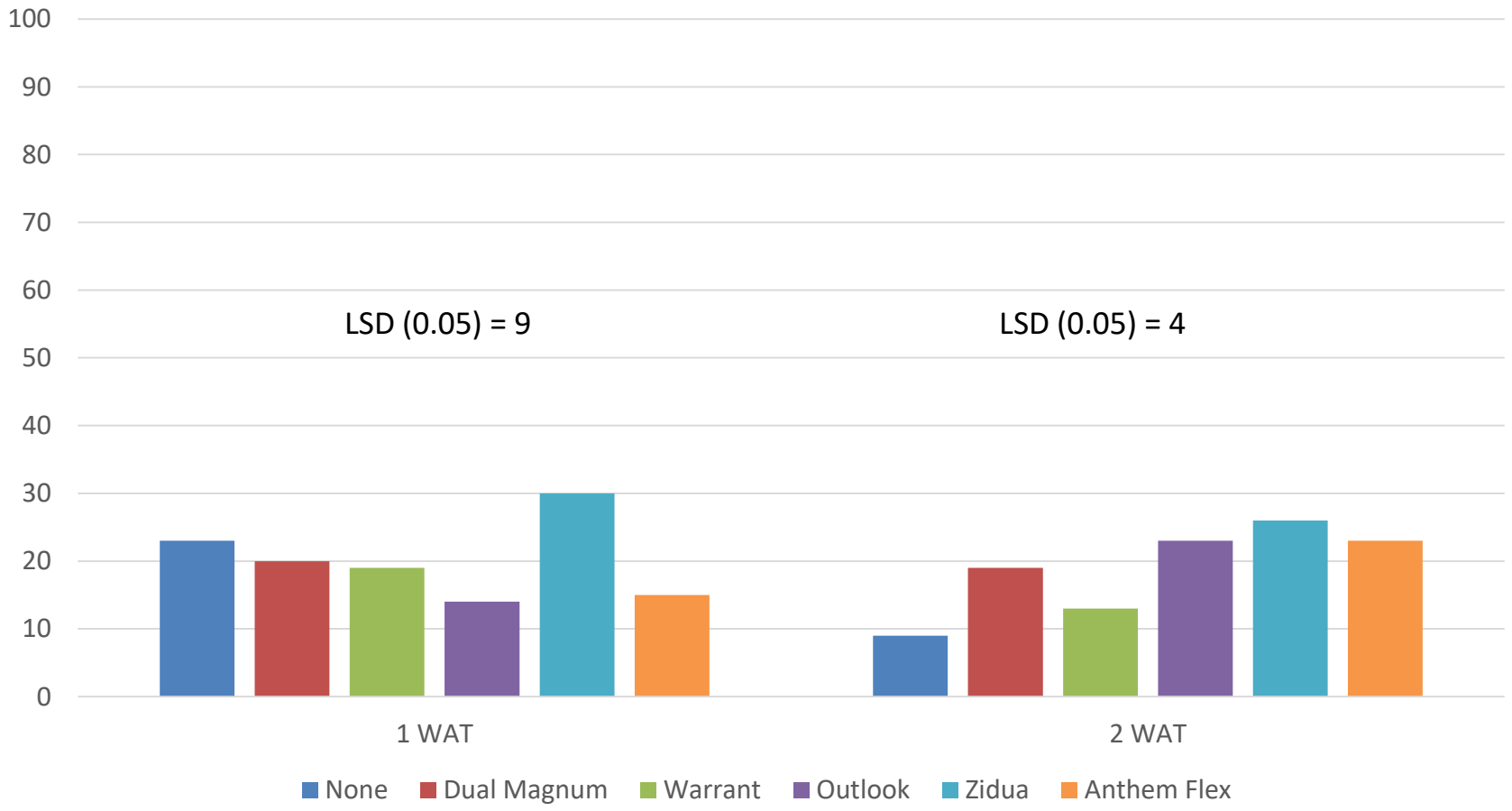
Nonionic surfactant (1 pint/100 gallons)

*Clethodim at 16 oz applied across all plots in early August

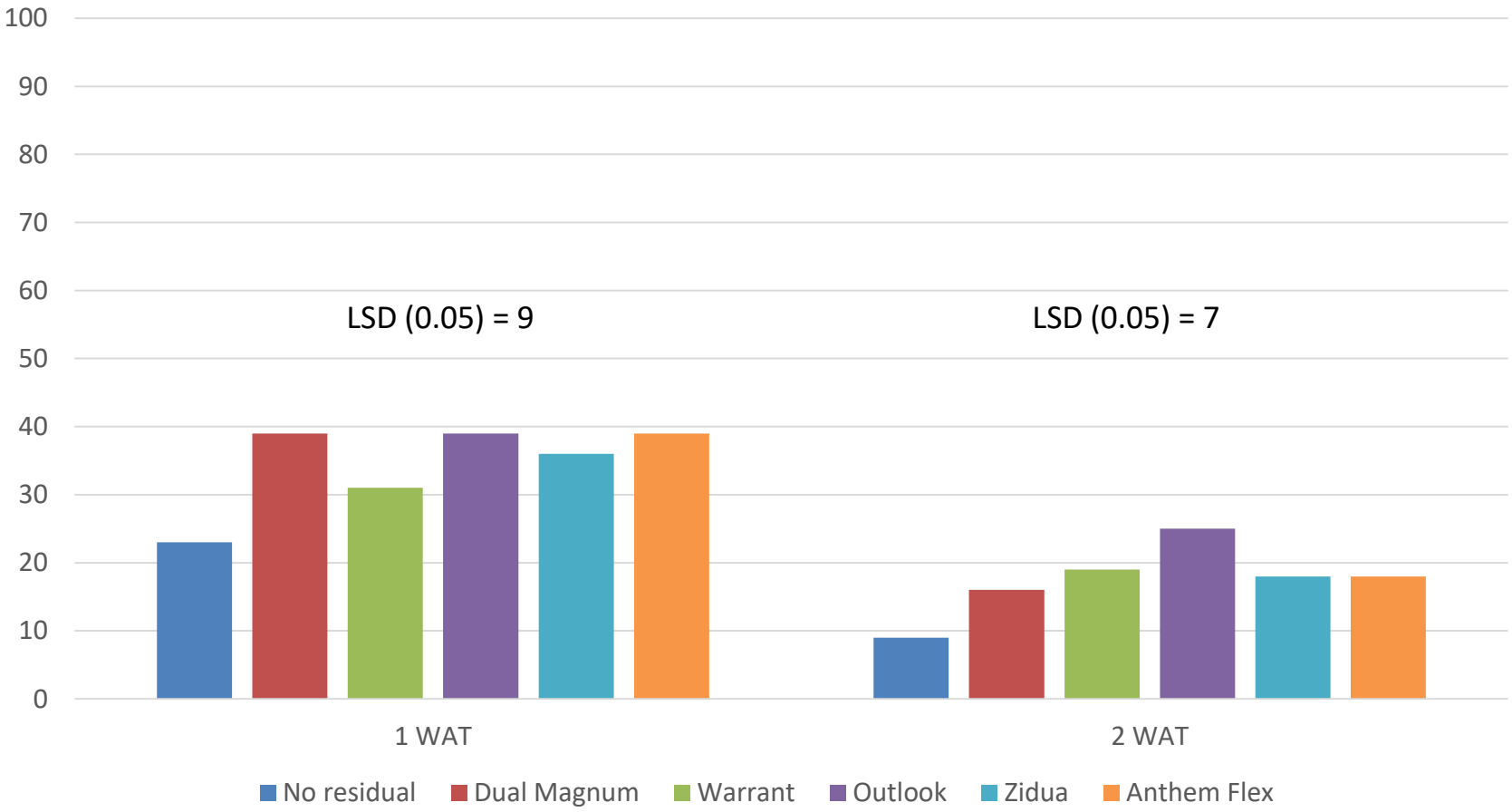
Peanut response (percent injury) at Rocky Mount with Gramoxone plus Basagran plus nonionic surfactant alone or with residual herbicides



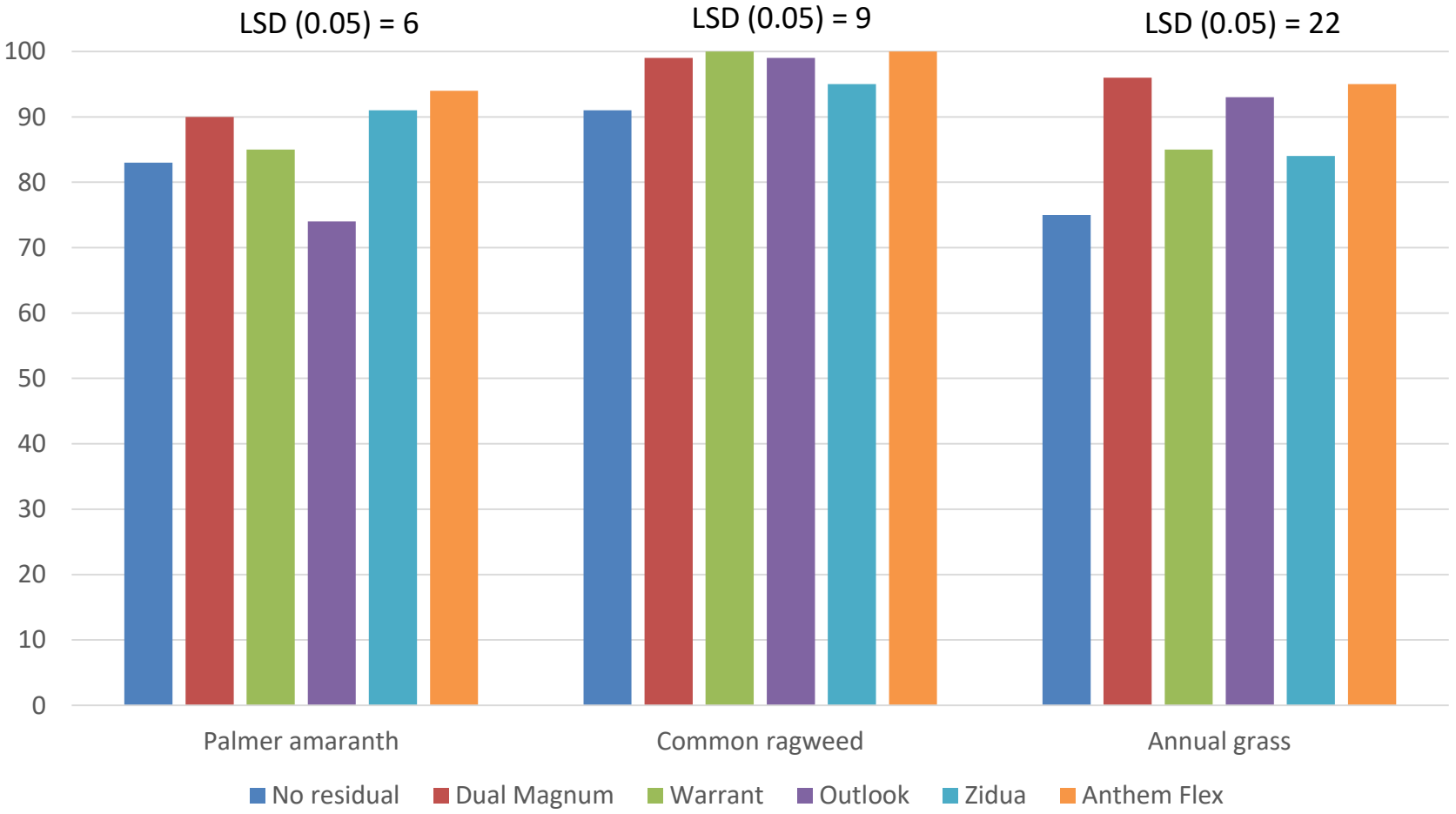
Peanut response (percent injury) at Lewiston-Woodville with Gramoxone plus Basagran plus nonionic surfactant alone or with residual herbicides



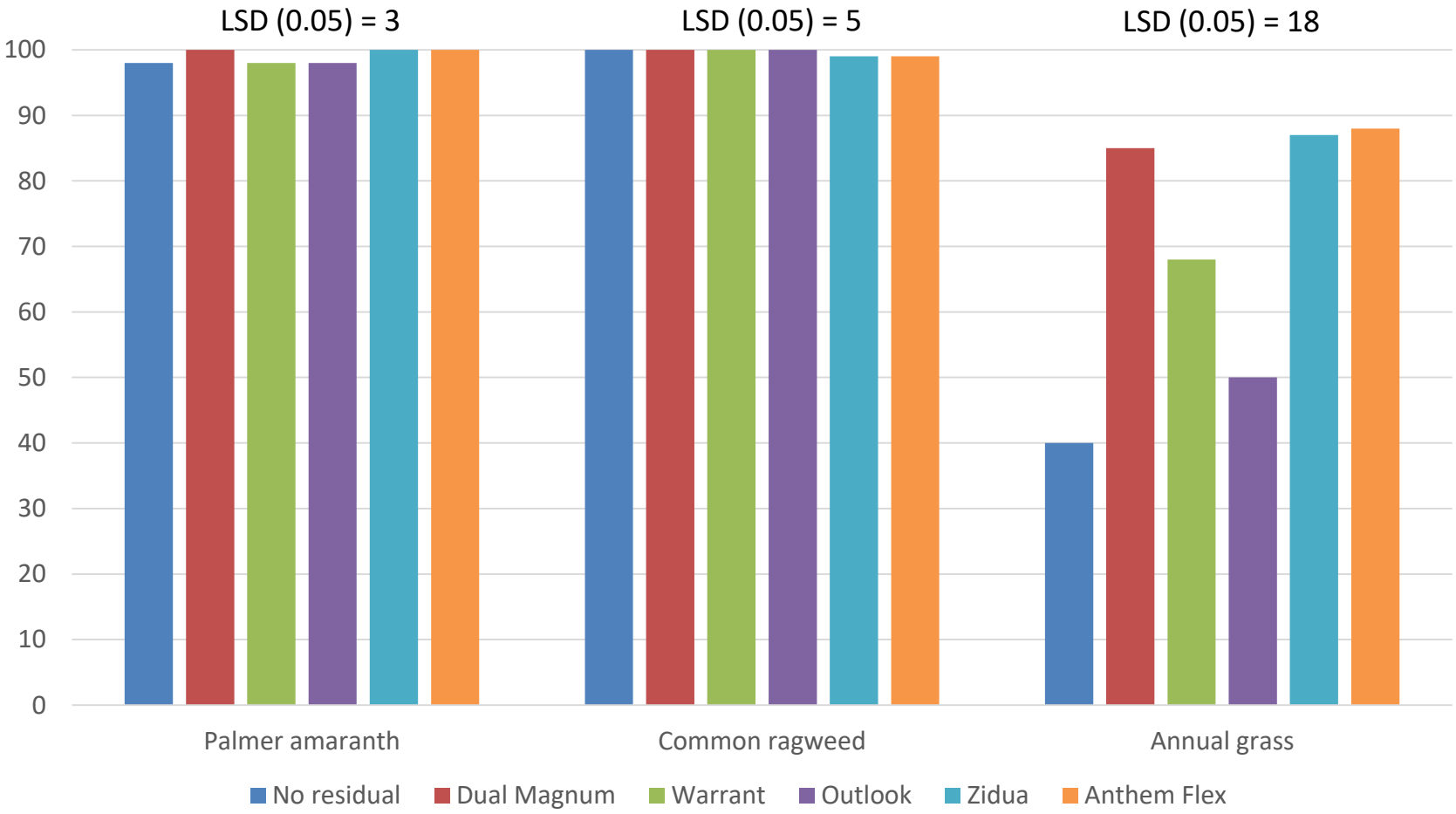
Peanut response (percent injury) at Rocky Mount with Gramoxone plus Storm plus nonionic surfactant alone or with residual herbicides



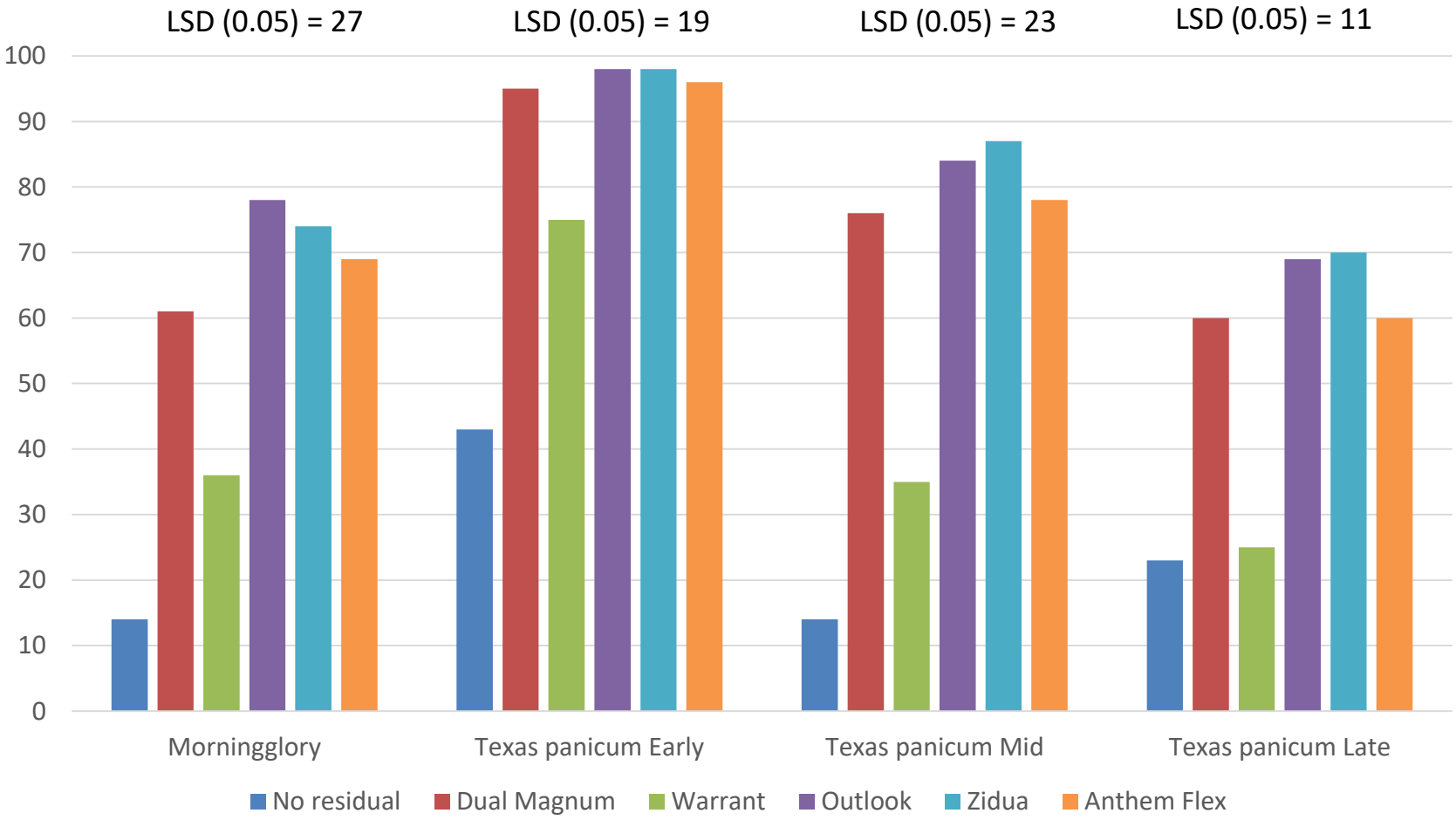
Palmer amaranth, common ragweed, and annual grass control (percent) in August at Rocky Mount with Gramoxone plus Basagran plus nonionic surfactant alone or with residual herbicides



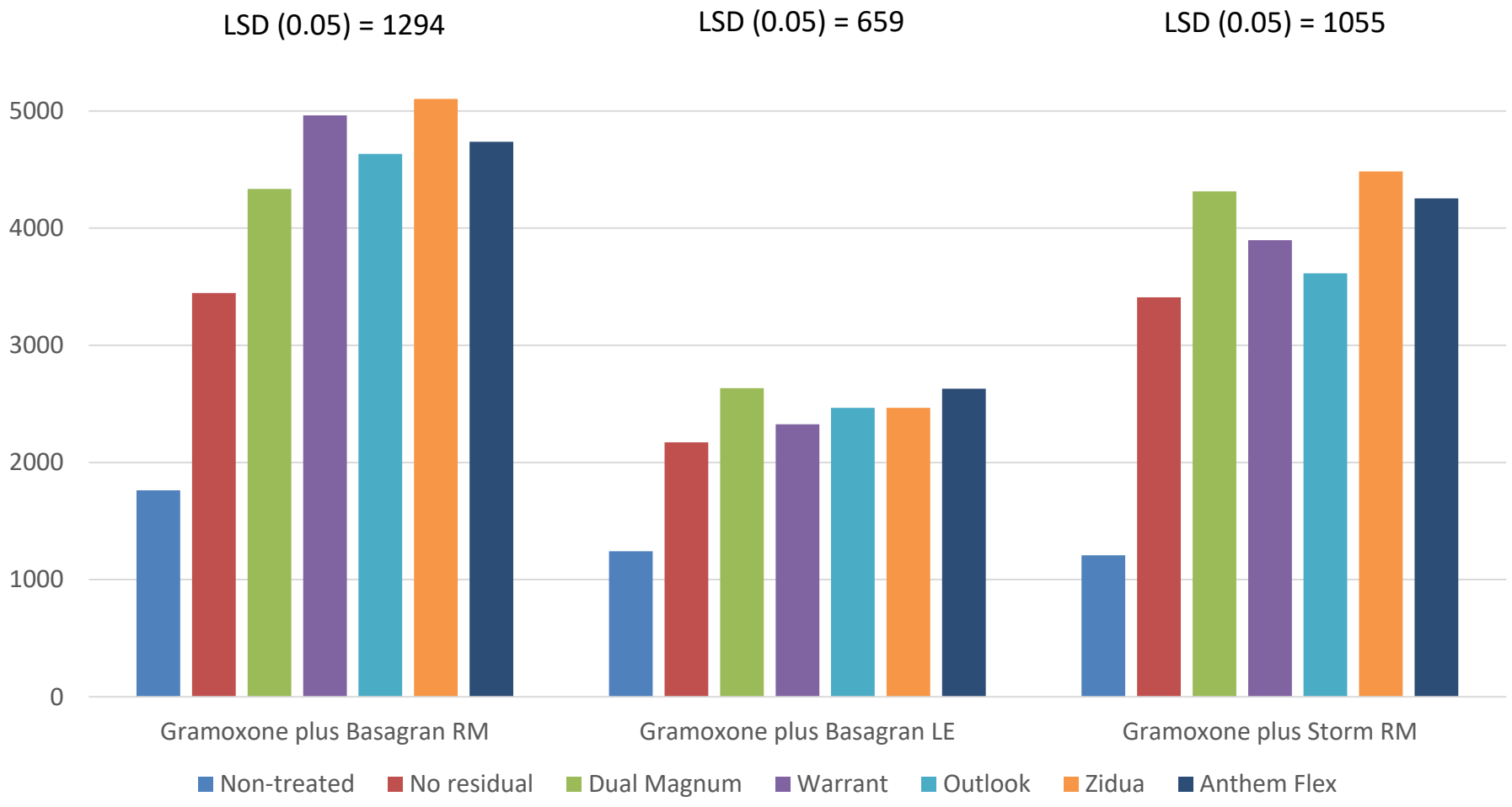
Palmer amaranth, common ragweed, and annual grass control (percent) in August at Rocky Mount with Gramoxone plus Storm plus nonionic surfactant alone or with residual herbicides



Morningglory and Texas panicum control (percent) at Lewiston-Woodville with Gramoxone plus Basagran plus nonionic surfactant alone or with residual herbicides



Peanut yield (lbs/acre) with contact and residual herbicides



Images from Lewiston with a focus on Texas panicum control Mid and Late

Non-treated control

Gramoxone @ 8 oz/acre
Basagran @ 8 oz/acre
NIS @ 1 pint/100 gal

Gramoxone @ 8 oz/acre
Basagran @ 8 oz/acre
Dual Magnum @ 16 oz/acre
NIS @ 1 pint/100 gal

Gramoxone @ 8 oz/acre
Basagran @ 8 oz/acre
Warrant @ 48 oz/acre
NIS @ 1 pint/100 gal

Gramoxone @ 8 oz/acre
Basagran @ 8 oz/acre
Outlook @ 13 oz/acre
NIS @ 1 pint/100 gal

Gramoxone @ 8 oz/acre
Basagran @ 8 oz/acre
Zidua @ 2.5 oz/acre
NIS @ 1 pint/100 gal

Gramoxone @ 8 oz/acre
Basagran @ 8 oz/acre
Anthem Flex @ 2.7 oz/acre
NIS @ 1 pint/100 gal