

Developing Agronomic Recommendations for Oklahoma: starting from scratch

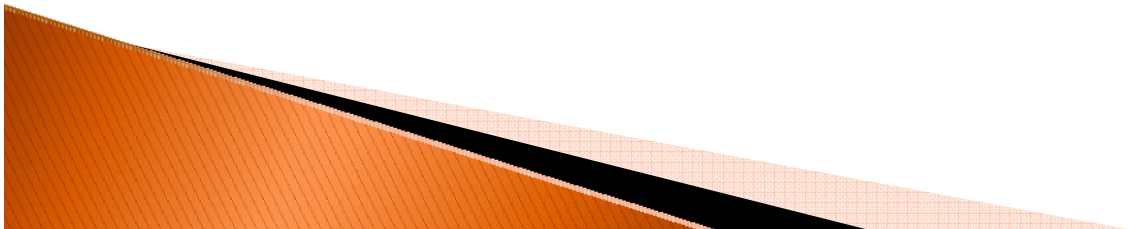


Chad Godsey, Cropping Systems Specialist
31st National Sunflower Association Research Forum
Fargo, ND



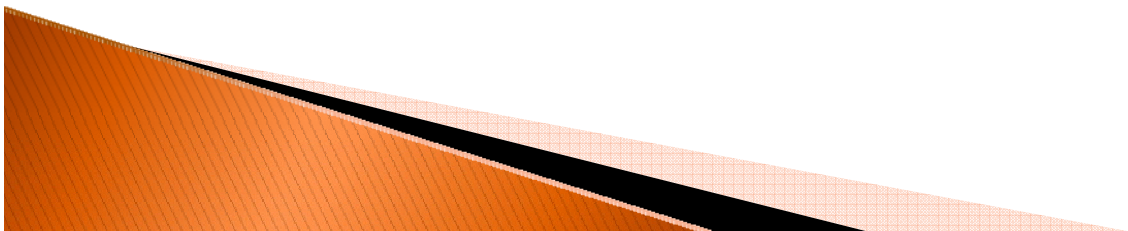
Outline

- ▶ Performance Trials
- ▶ Plant Population
- ▶ Planting Date

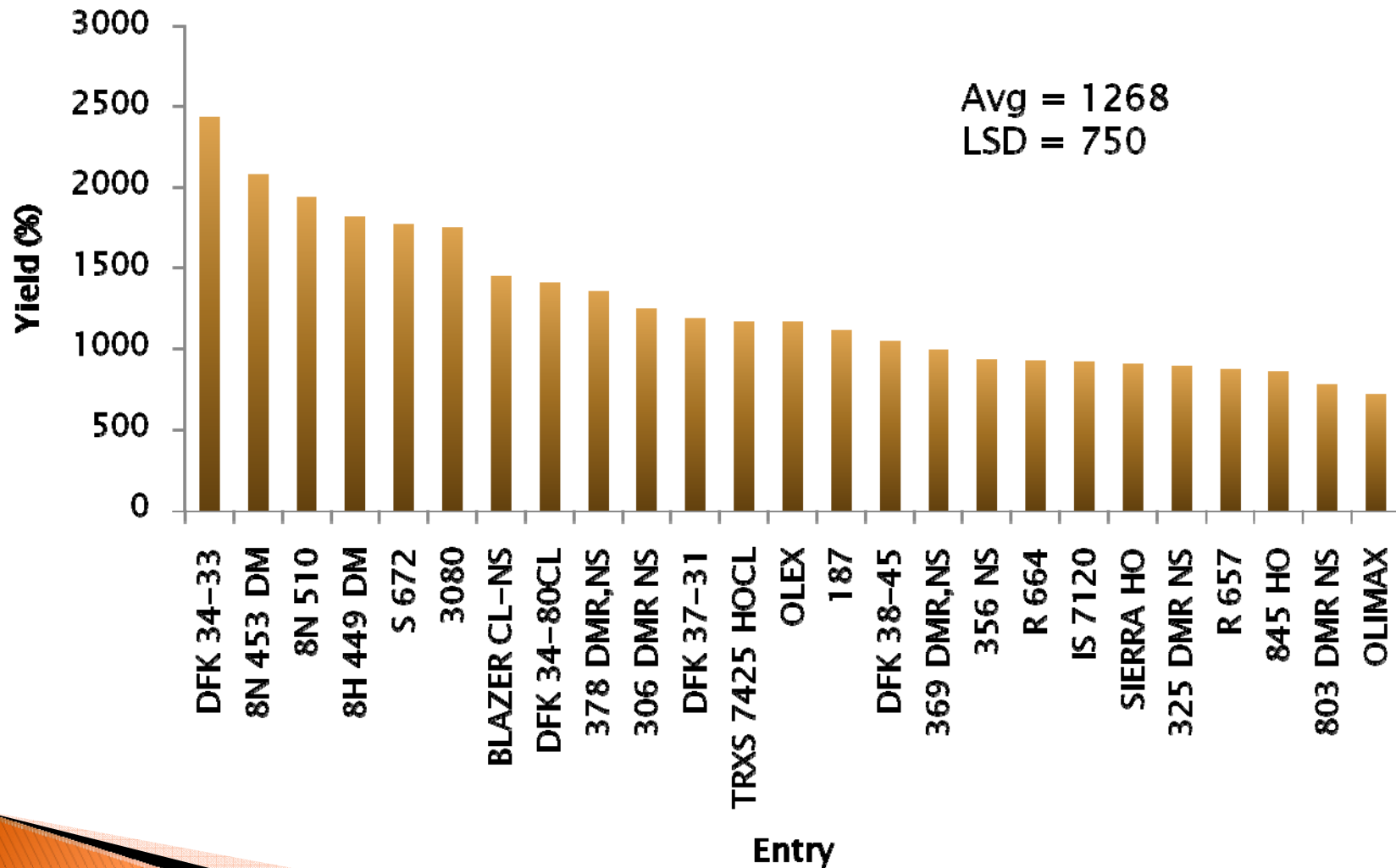


Planting

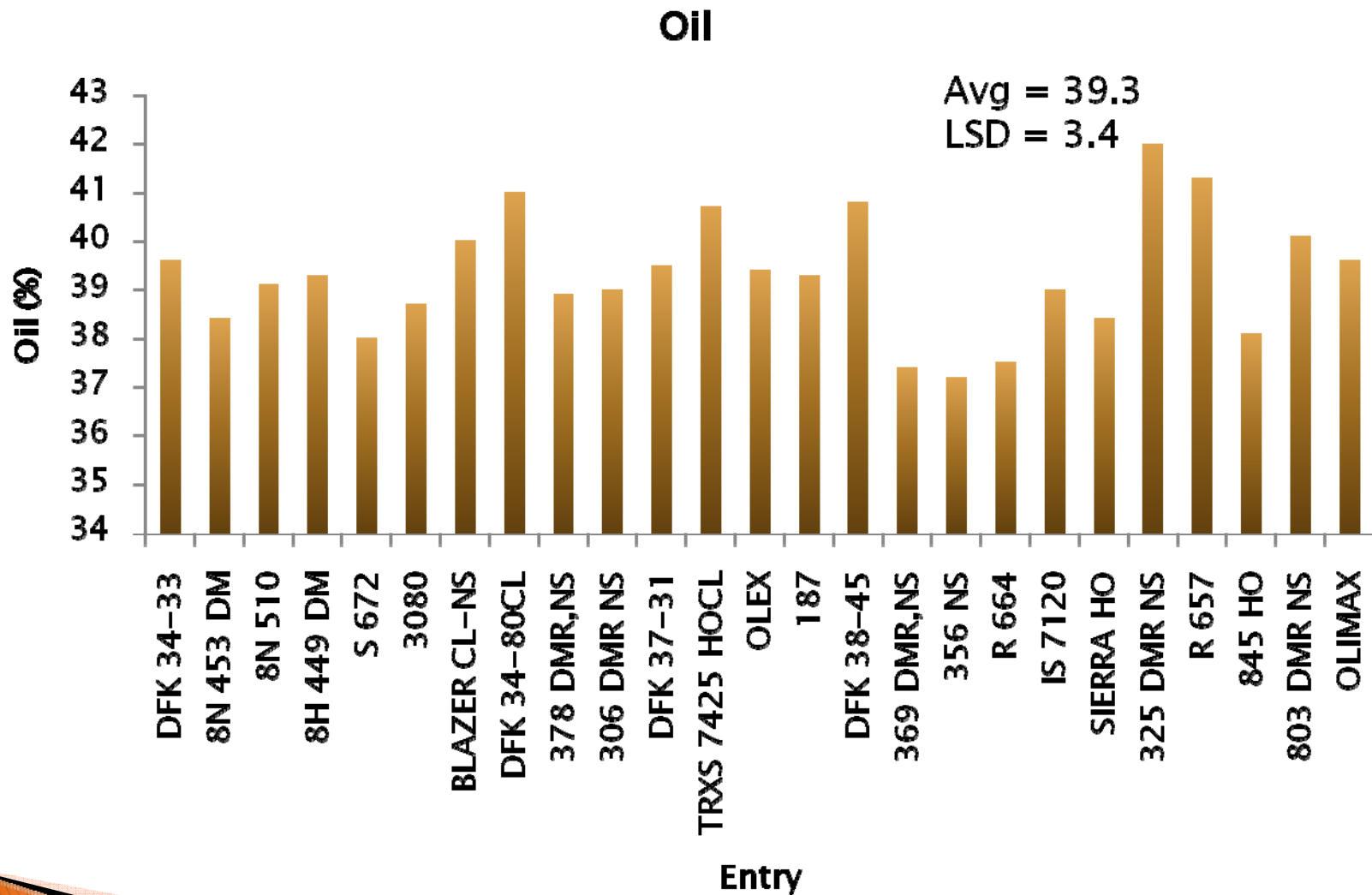
- ▶ In-state market
- ▶ Date
 - Wide window April to July
 - Early or late planting has best chance to avoid head moth flights
- ▶ Soil temperature
 - Germinate at 50°F
 - Ideal would be around 55–60°F



Stillwater 2008 Performance Trial

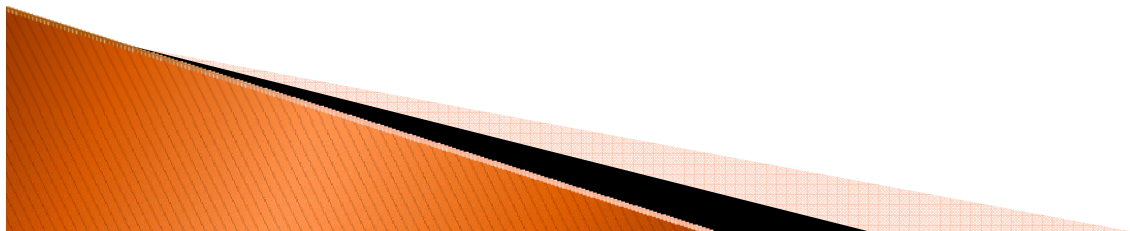


Stillwater 2008 Performance Trial



Effect of planting date on sunflower grain yield at Stillwater, OK 2008.

Hybrid	Planting Date					
	15-Apr	28-Apr	20-May	4-Jun	25-Jun	16-Jul
	----- lb ac ⁻¹ -----					
s672 (short/med-full season)	1569	963	869	341	716	1533
820HO (Tall/early season)	1367	1328	675	348	908	1362
R859HOCL (Tall/full season)	1703	1168	735	341	1029	1080
Harvest Date	1-Sep	18-Sep	1-Oct	1-Oct	1-Oct	5-Nov

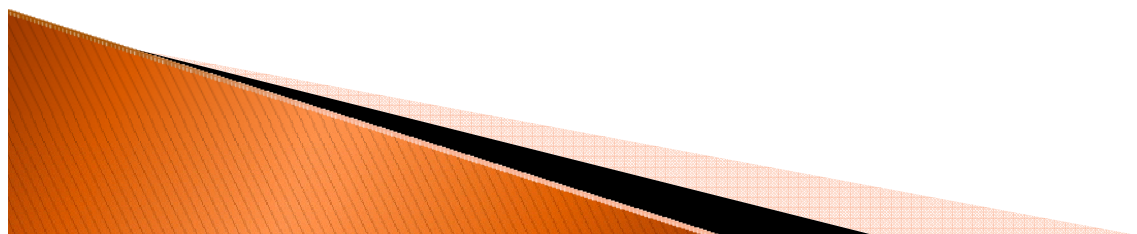
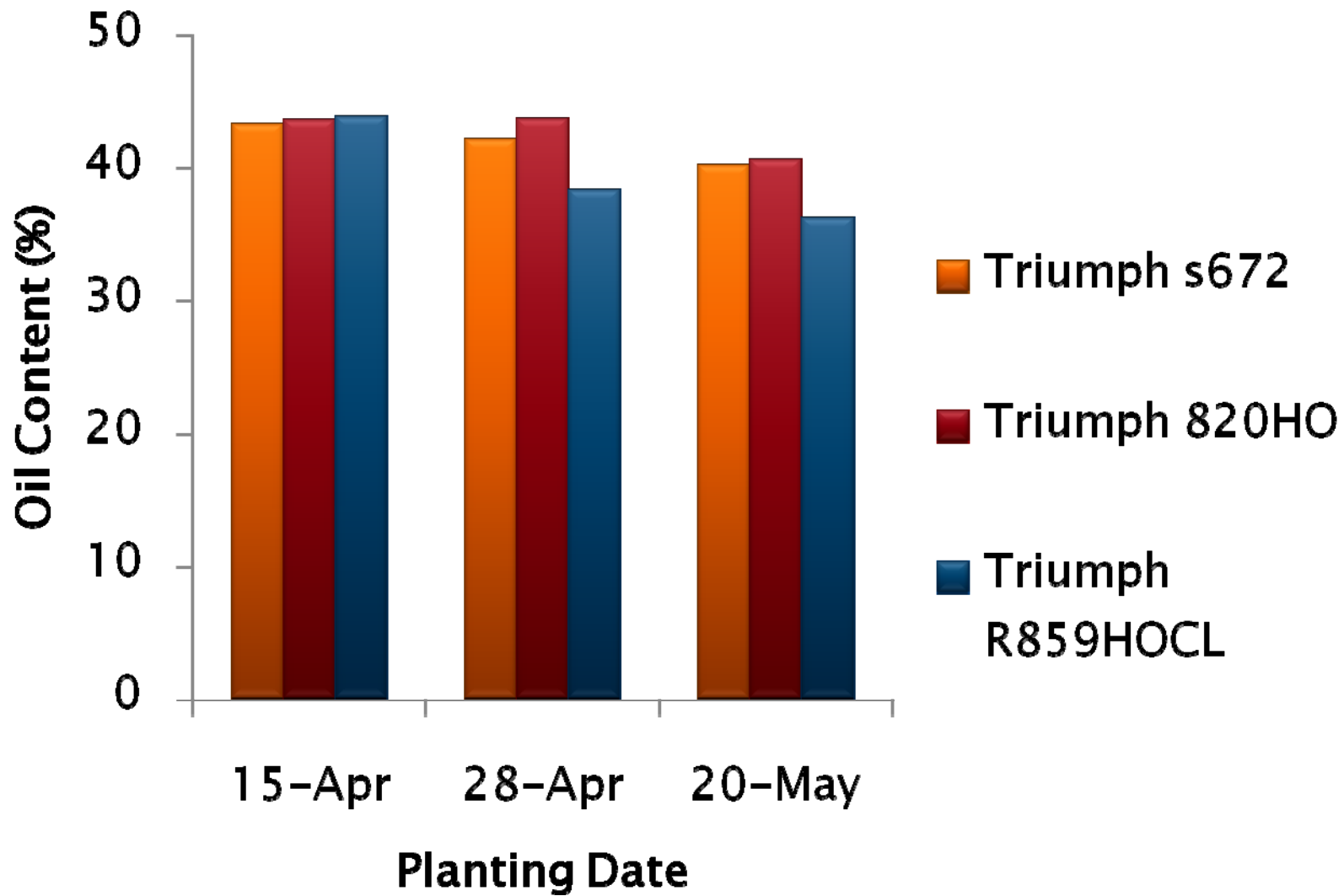


Sunflower oil content and yield averaged across hybrids at Stillwater, OK in 2008.

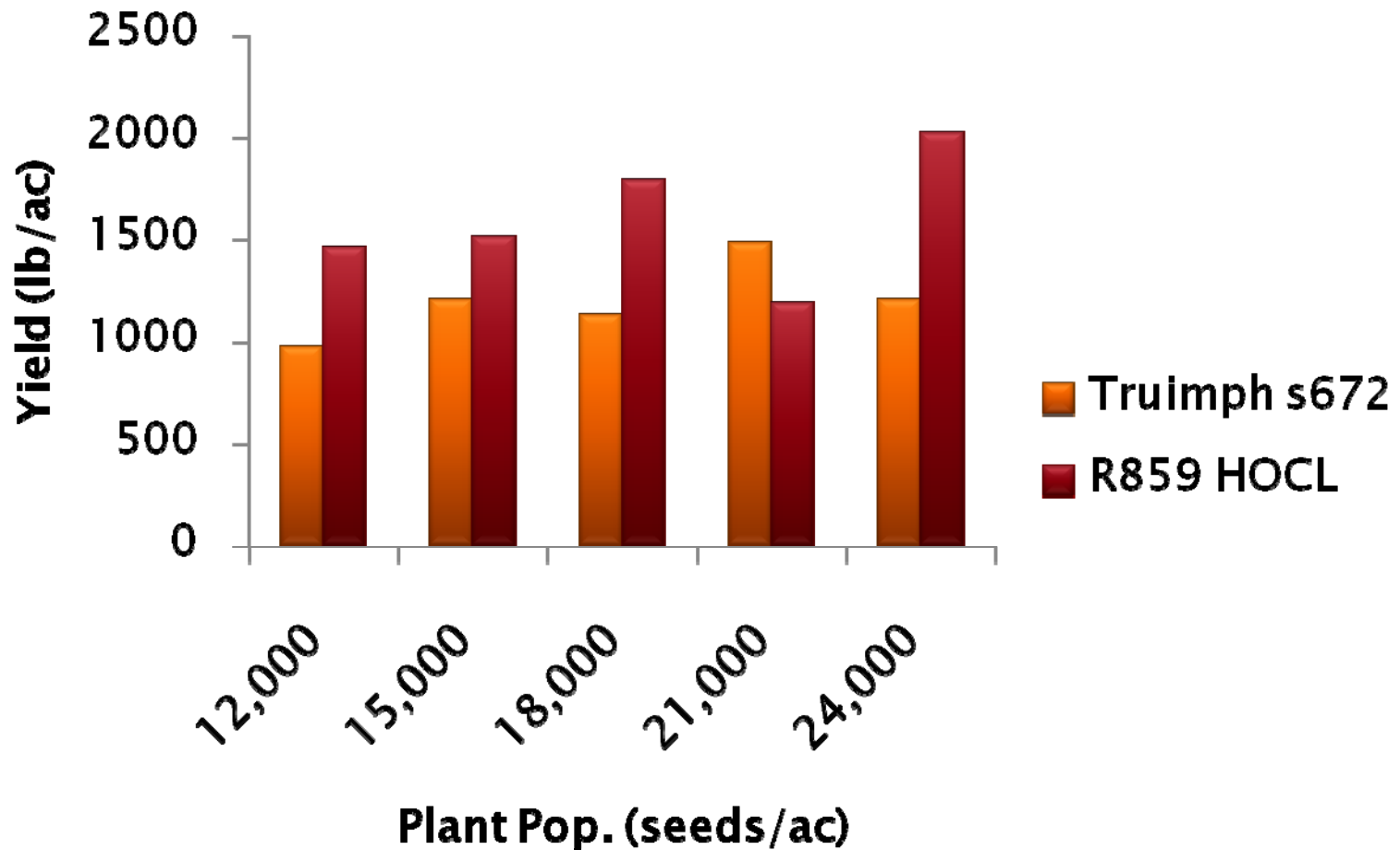
Planting Date	Oil	Grain Yield
	--- % ---	-- lb acre ⁻¹ --
15-Apr	43.6a	1546a
28-Apr	41.4b	1152c
20-May	39.0c	759e
4-Jun	na†	343f
25-Jun	na	884d
16-Jul	na	1325b

† Samples for oil content were not collected.





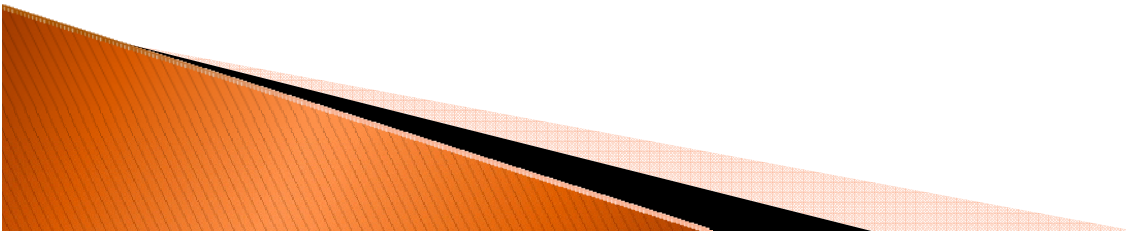
Stillwater Plant Population – 2008



Effect of plant population on sunflower grain yield. Hybrid s672 is characterized as a short stature medium to full season hybrid and R859 HOCL is characterized as tall full season hybrid. Plots were planted July 3, 2008.

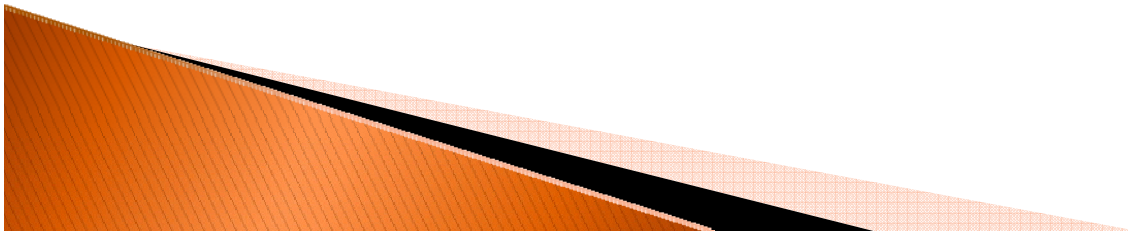
Oklahoma Sunflower

- ▶ Sunflower yields
 - Dryland yields 800 – 1800 lb/ac
- ▶ Where do they fit?
 - Double crop
 - Planting window excellent
 - diversity



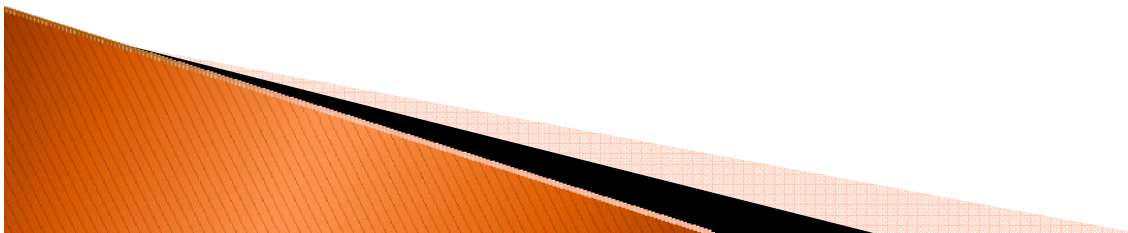
Biggest Issues

- ▶ Stand Establishment
 - Especially double crop
- ▶ Pest Management
- ▶ Can we get back to wheat?



Summary

- ▶ With the in-state market sunflower appears to be a viable rotational crop or double-crop
- ▶ Good interest and yields the first year.
- ▶ Stand establishment will be the key.



Thank you

Chad Godsey

405-744-3389

chad.godsey@okstate.edu

