

Pinto Bean Tillage and Placement of Fertilizer Research at the NDSU Carrington Research Extension Center

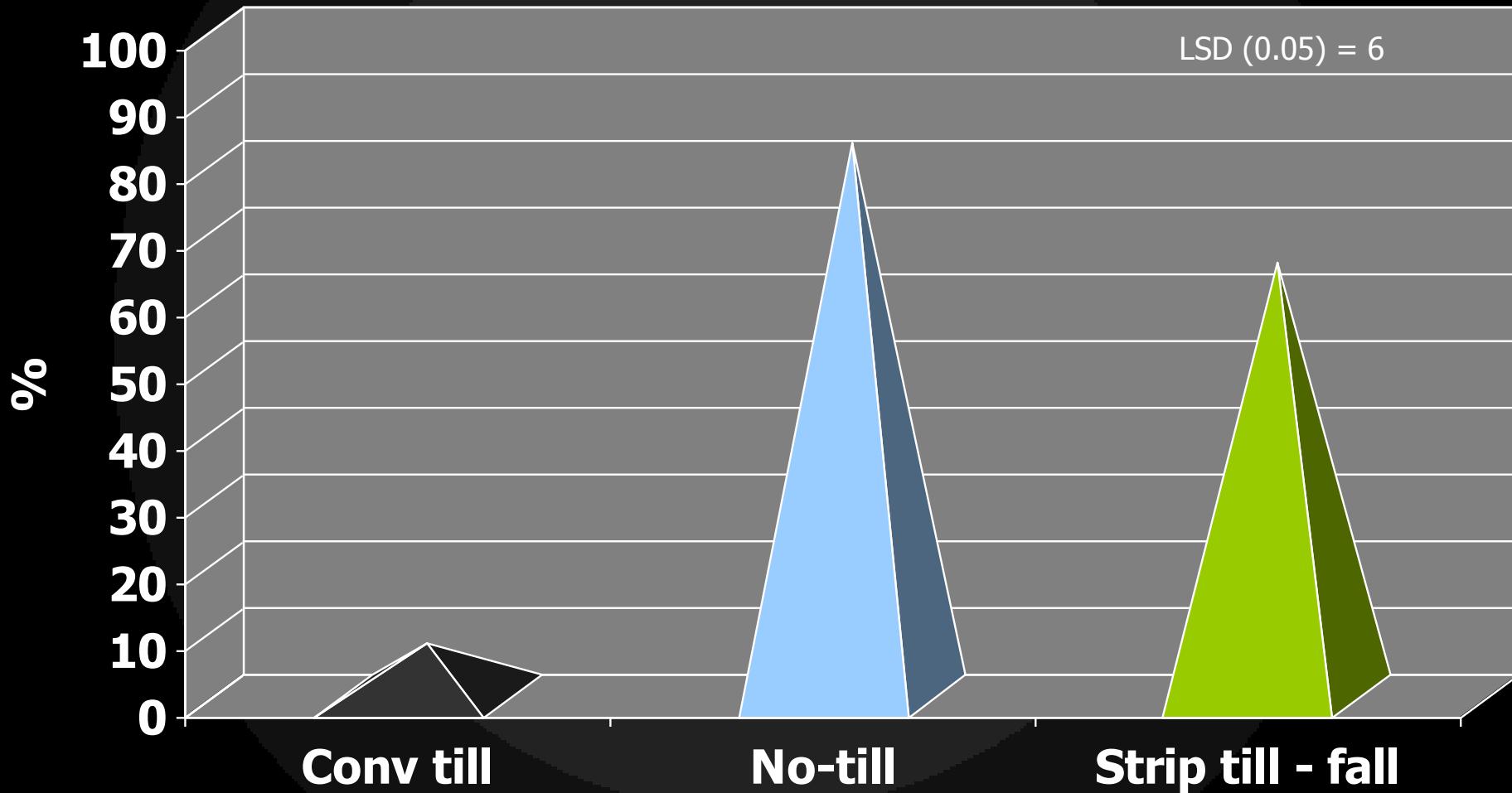
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Dry bean

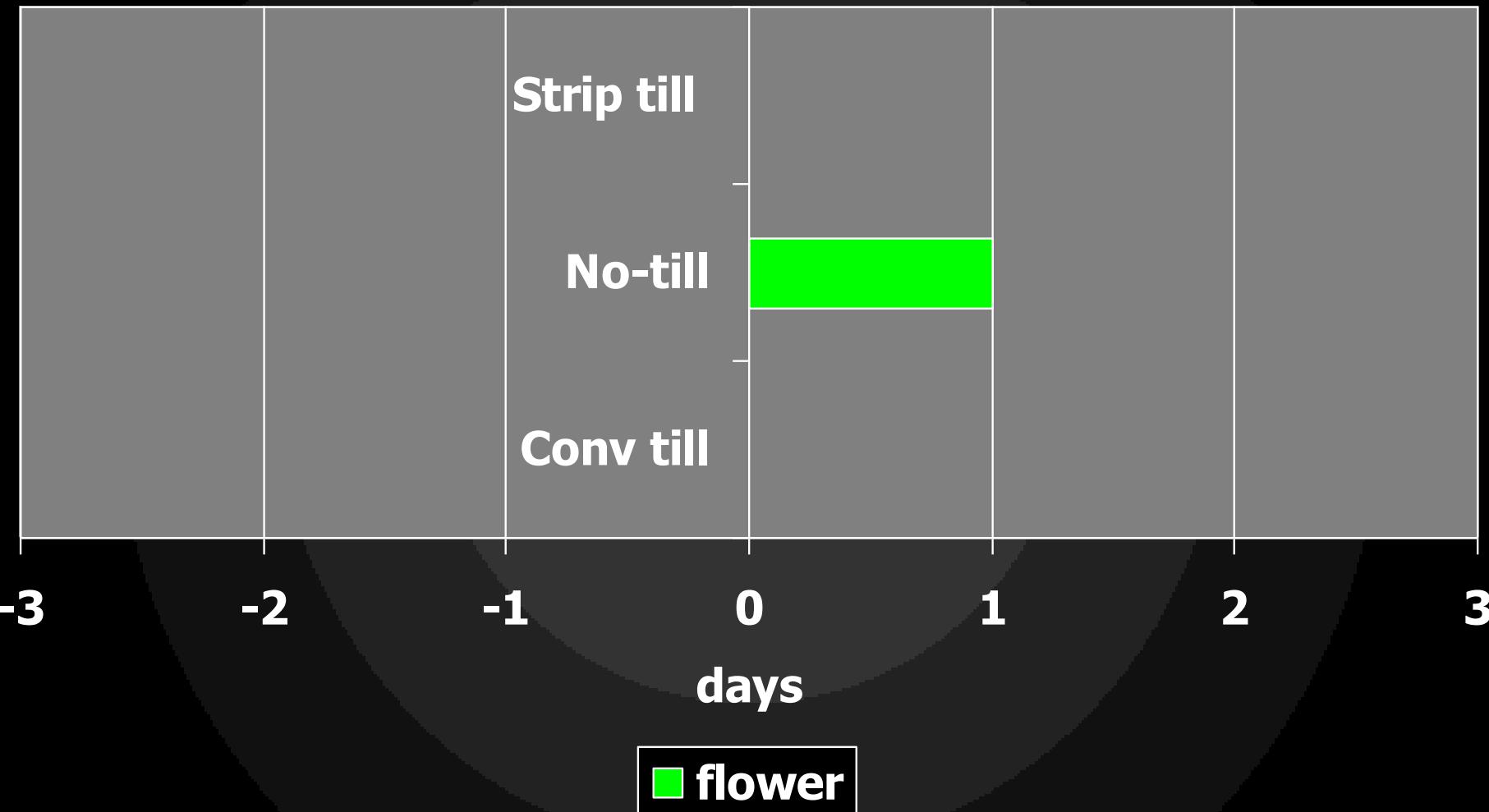


Wheat residue levels among tillage systems in dry bean, Carrington, 2009*.



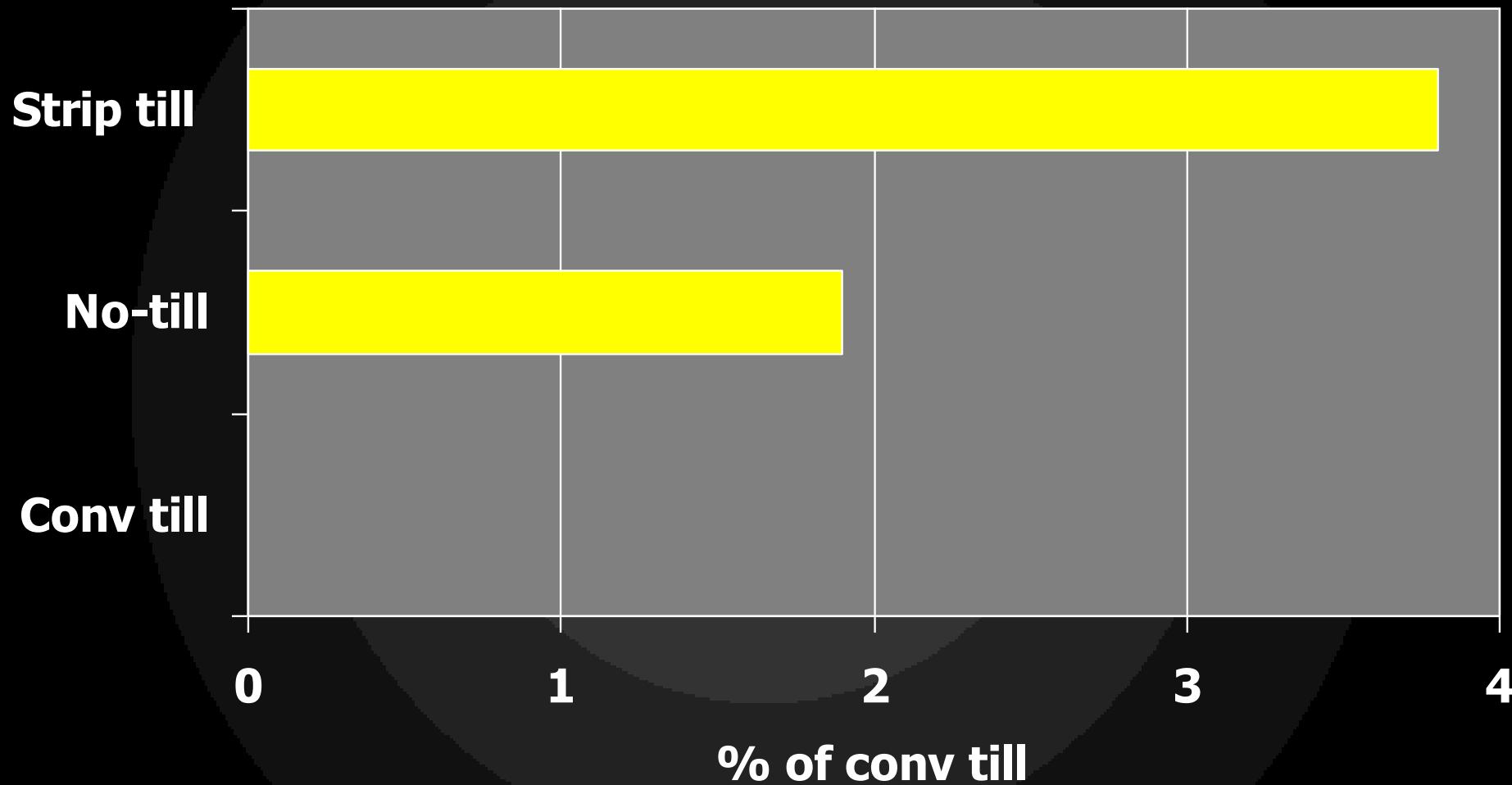
*Taken after bean planting using line-transect method.

Pinto bean plant development differences among tillage systems, Carrington, 2007 and 2009*.



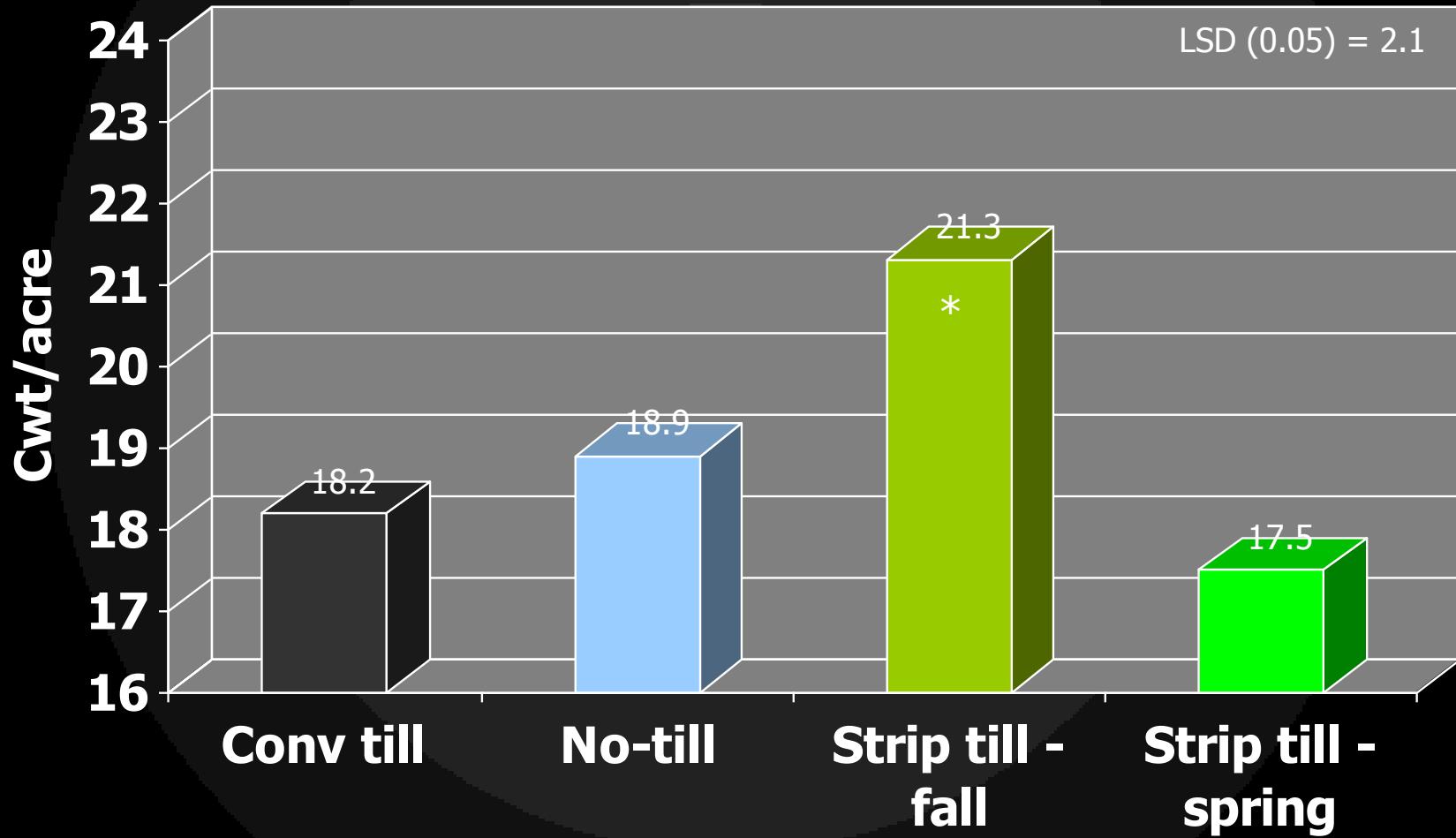
*Statistically significant (LSD=0.05): none either year.

Pinto bean plant stand differences among tillage systems, Carrington, 2007-09*.



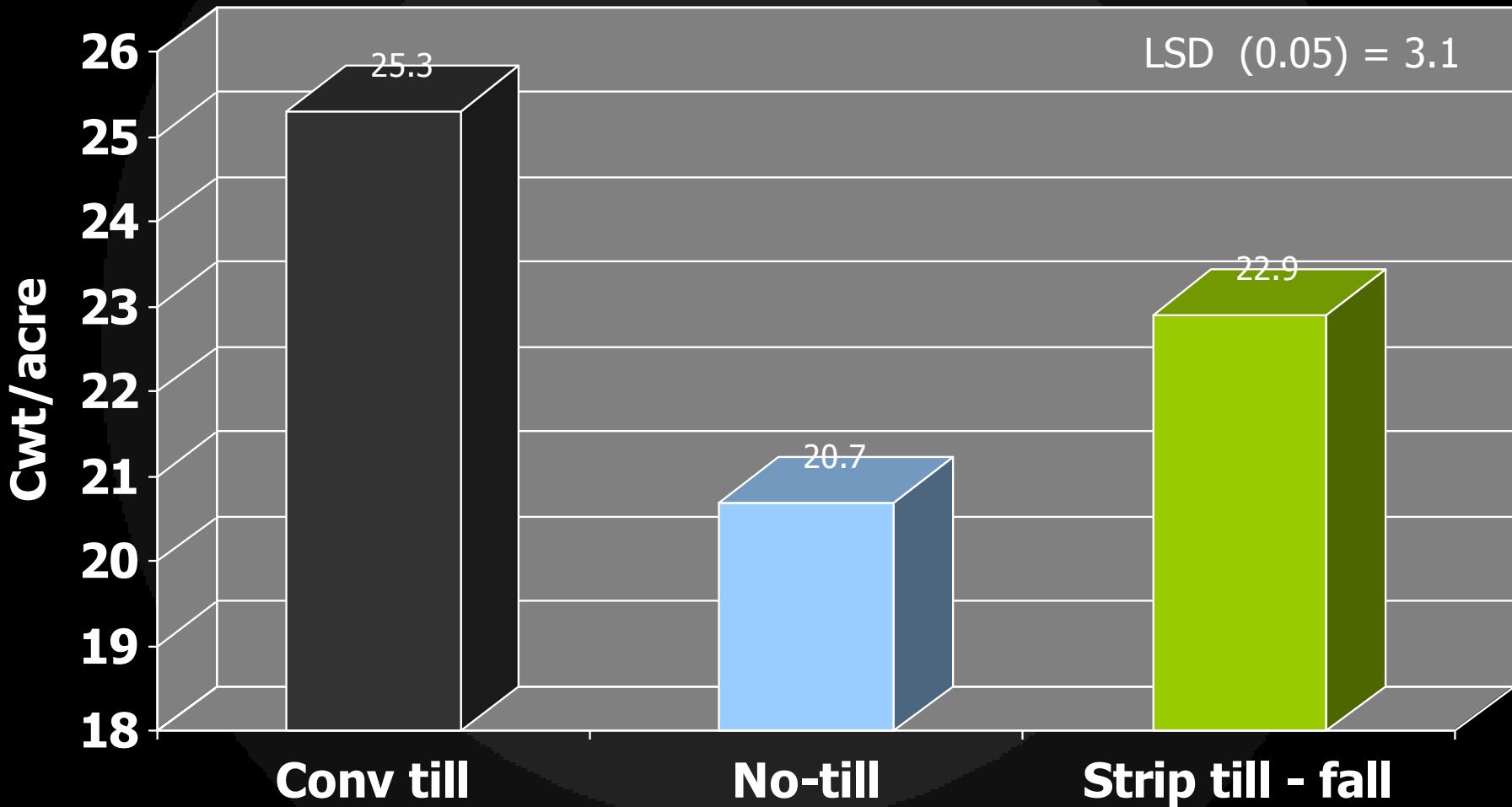
*Statistically significant (LSD=0.05): 2009.

Pinto bean yield among tillage systems, Carrington, 2007*.



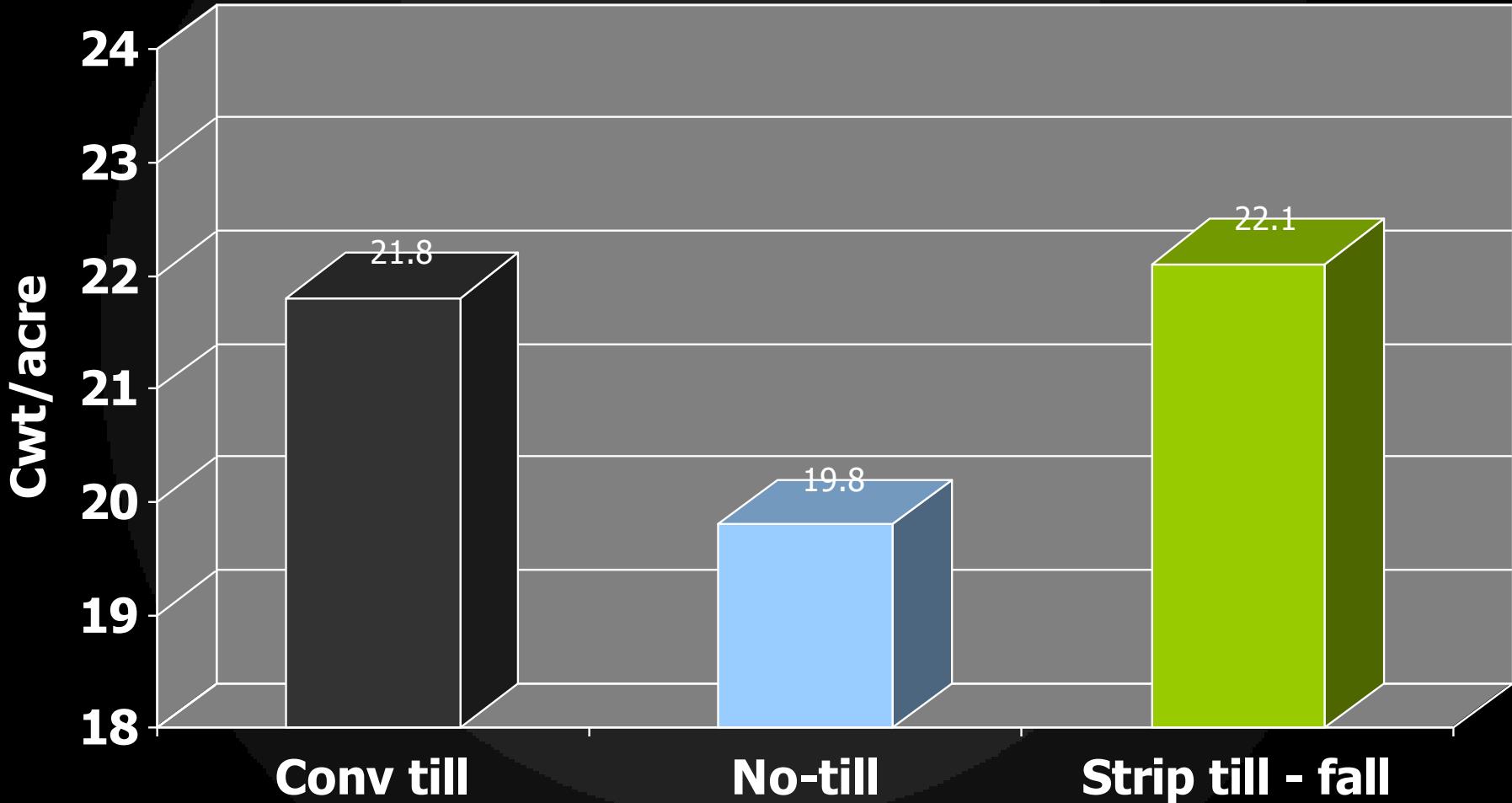
*Strip till: fall=Oct 16, spring=Apr 23; 'Maverick' planted June 18.

Pinto bean yield among tillage systems, Carrington, 2009*.



*Strip till=Oct 31; 'Lariat' planted May 22.

Pinto bean yield among tillage systems, Carrington, 2007 and 2009.



CREC Research Summary: Pinto bean yield with strip-till compared to other tillage systems

- 2 site-yr average:
 - similar to conventional till
 - 10% (2.3 bags/A) > no-till



Carrington, 2009

Spring P soil analysis: 9 ppm

Fertilizer placement treatments :

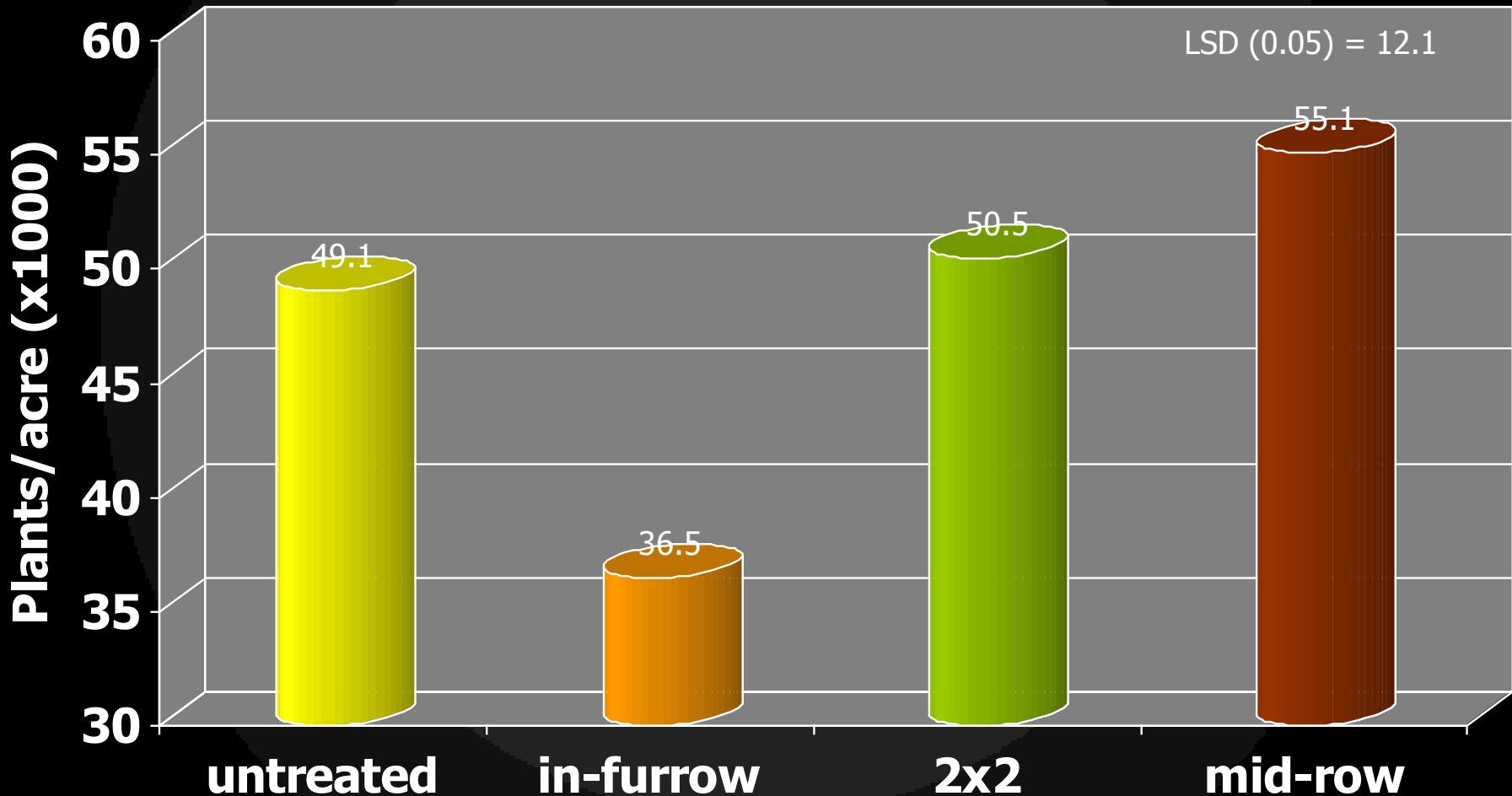
1. untreated check (ST)
2. spring mid-row band (ST)
3. spring in-furrow (ST)
4. spring 2x2 band (ST, conv till, NT)



6 gpa 10-34-0

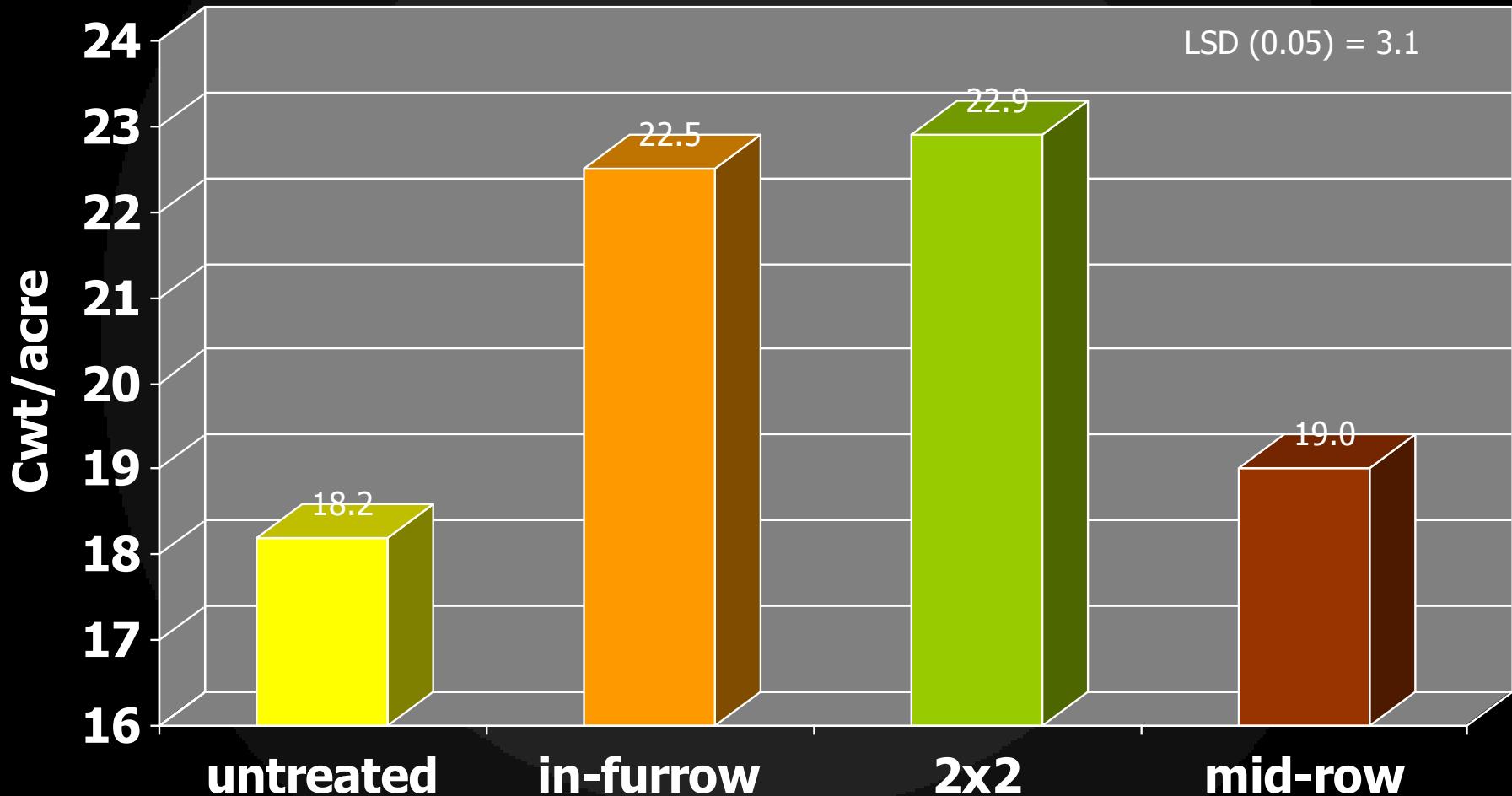
in-furrow 10-34-0 placement in strip till
during planting

Strip till pinto bean stand among fertilizer placement options, Carrington, 2009*.



*Strip till=Oct 31, 2008; 'Lariat' planted May 22; 6 gal/A 10-34-0; Stand counts taken June 10.

Strip till pinto bean yield among fertilizer placement options, Carrington, 2009*.



*Strip till=Oct 31, 2008; 'Lariat' planted May 22; 6 gal/A 10-34-0.