

Decades of Yield Progress Maturity Groups V, VI, and VIII

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**In cooperation with Southern Public
Breeders/Monsanto/Pioneer/Syngenta**

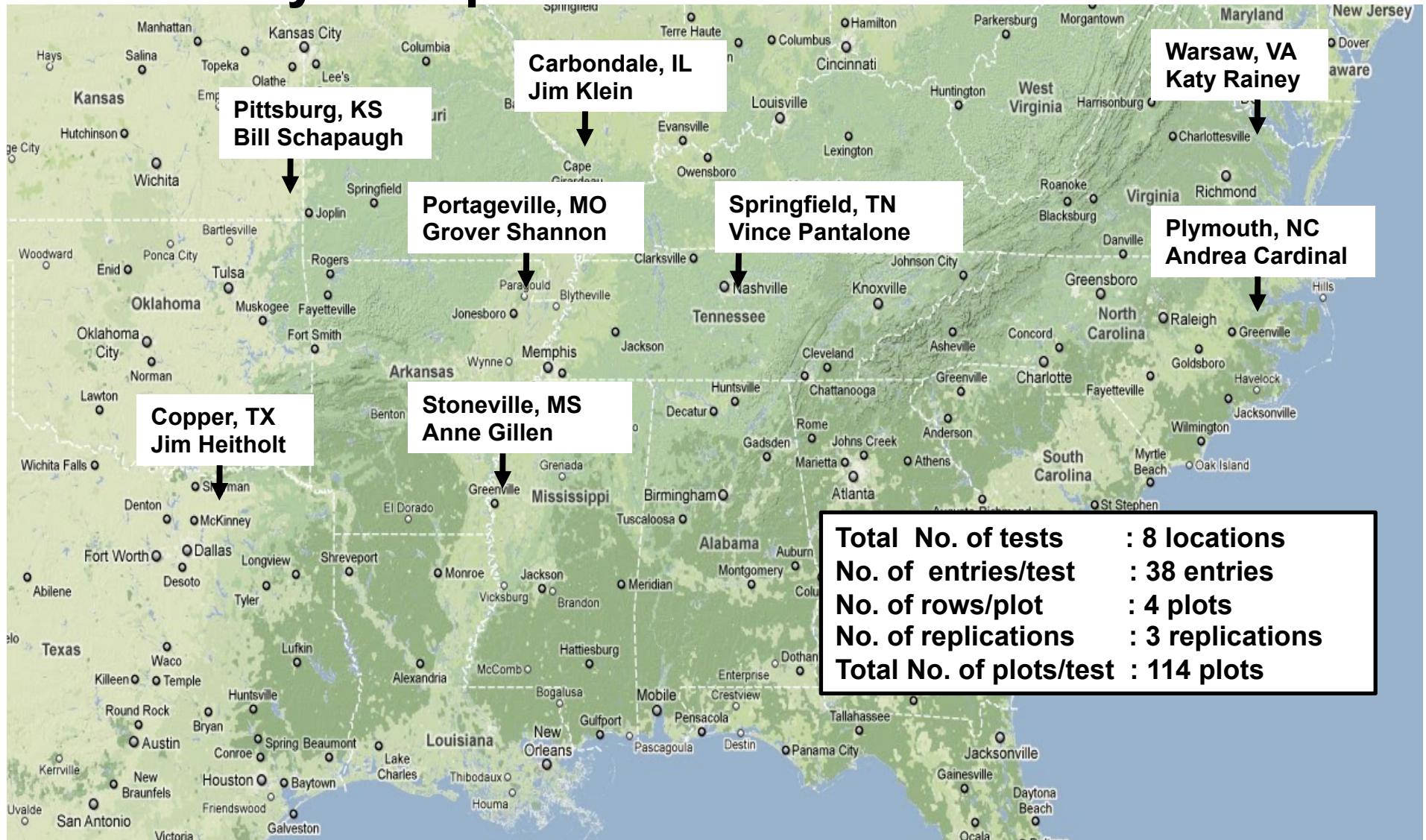
Previous MG V-VIII Studies

- **Boerma, 1979 (Crop Sci. 19:611-613)**
 - MG VI = 0.15 bu/a/yr
 - MG VII = 0.27 bu/a/yr
 - MG VIII = 0.22 bu/a/yr
- **Salado-Navarro, Sinclair, Hinson, 1993 (Crop Sci. 33:1204-1209)**
 - MG VI = no significant gain
 - MG VII = 0.24 bu/a/yr
 - MG VIII = 0.28 bu/a/yr

Maturity Group V Cultivars

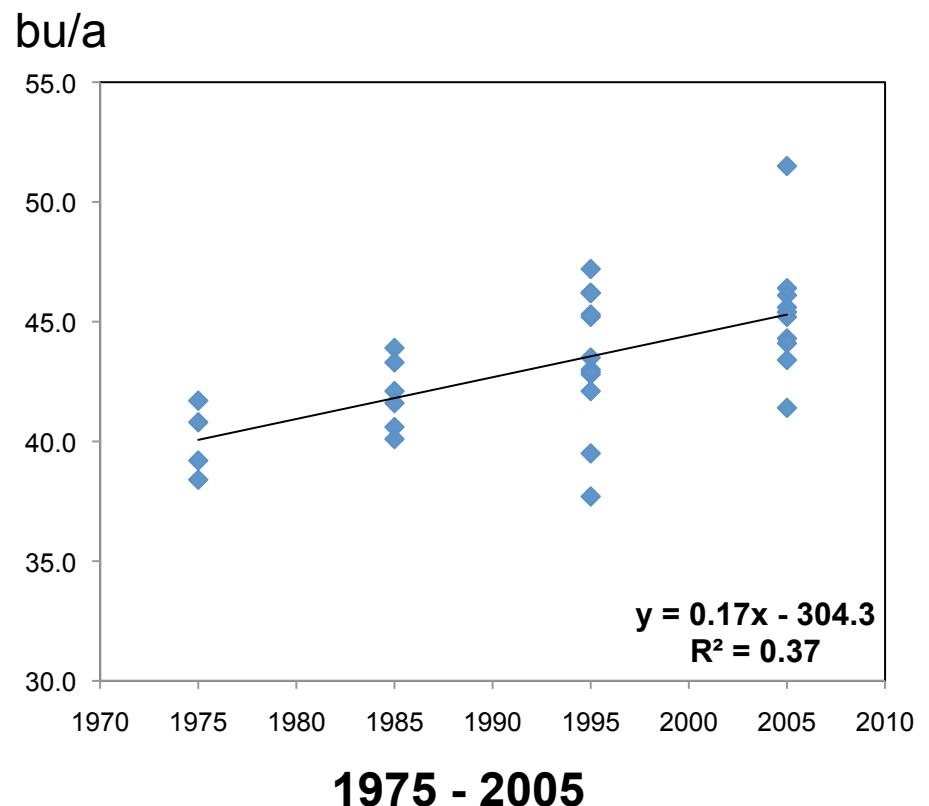
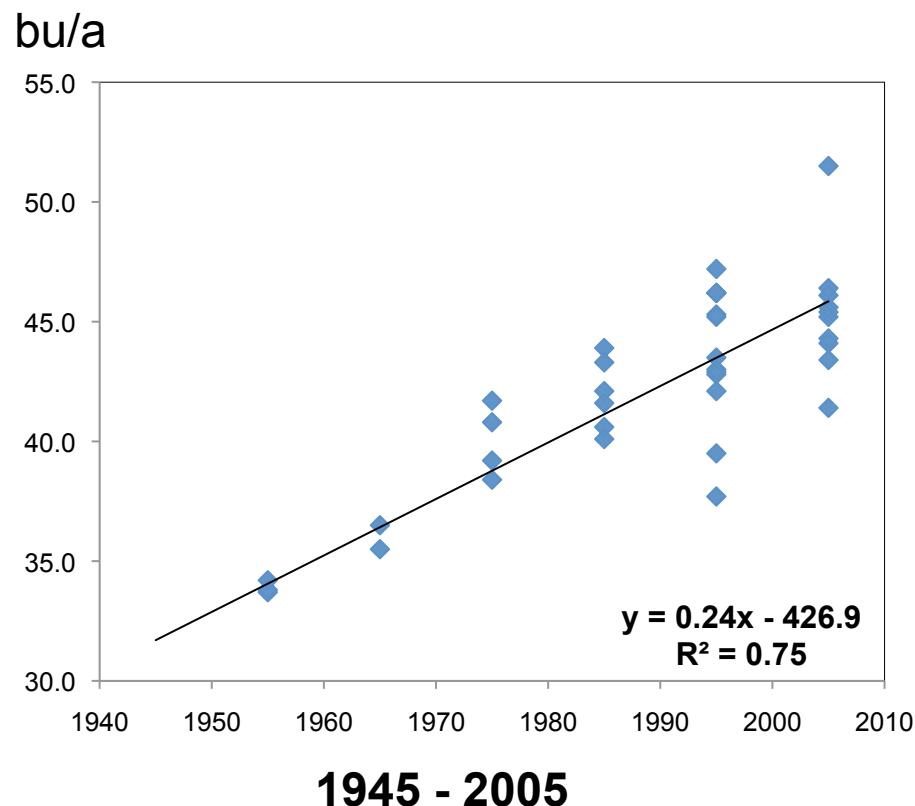
Decade	Cultivars		
	Public	Commercial	Total
1935	-	-	-
1945	S100	-	1
1955	Dorman, Hill	-	2
1965	Dare, York	-	2
1975	Essex, Forrest	2	4
1985	Hutcheson	5	6
1995	Holladay, Clifford, Graham	10	13
2005	5601T, Jake, Osage	7	10
Total	14	24	38

Maturity Group V: Collaborators and Locations



Yield vs. Year of Release

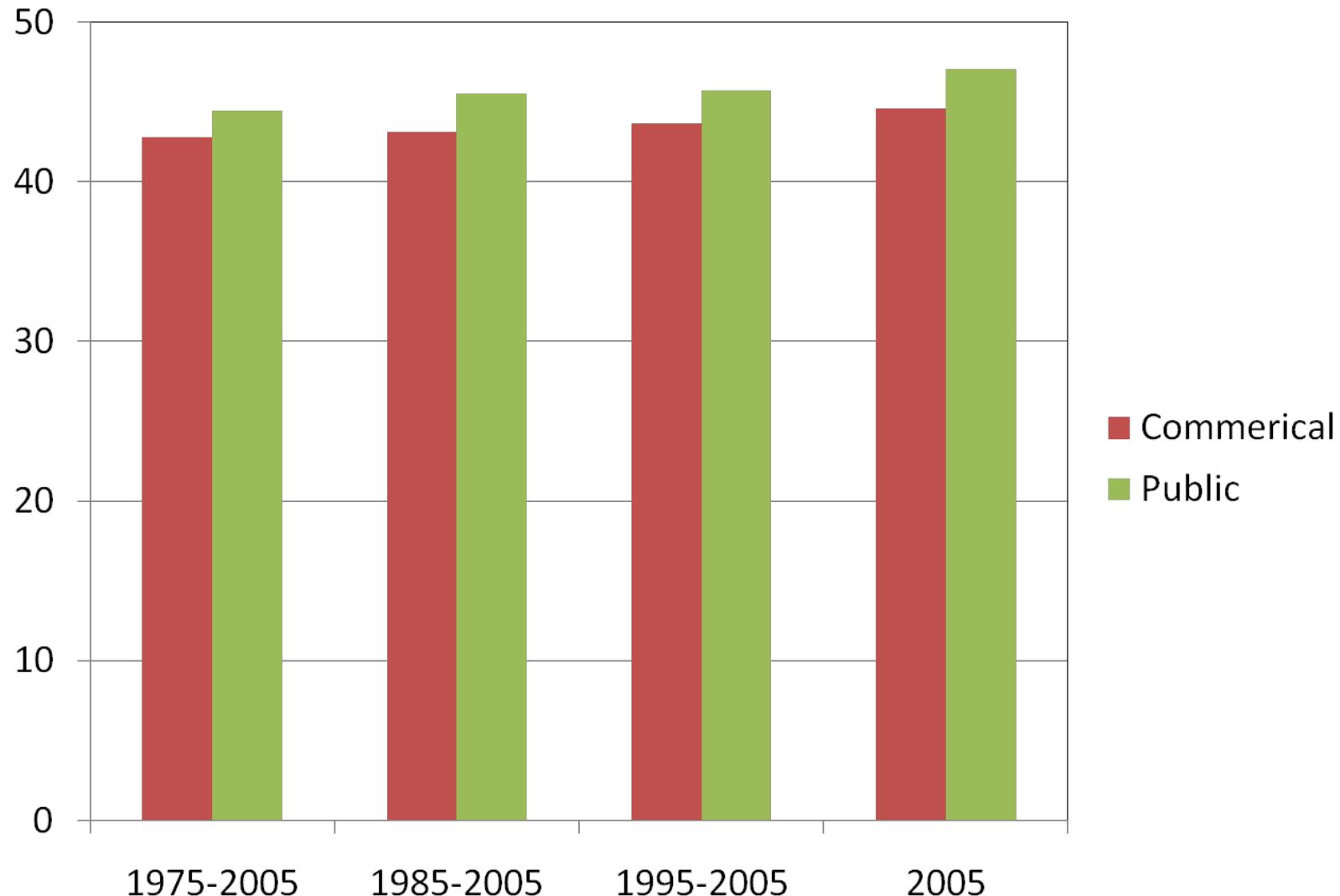
Maturity Group V



Commercial vs. Public (1975-2005)

Maturity Group V

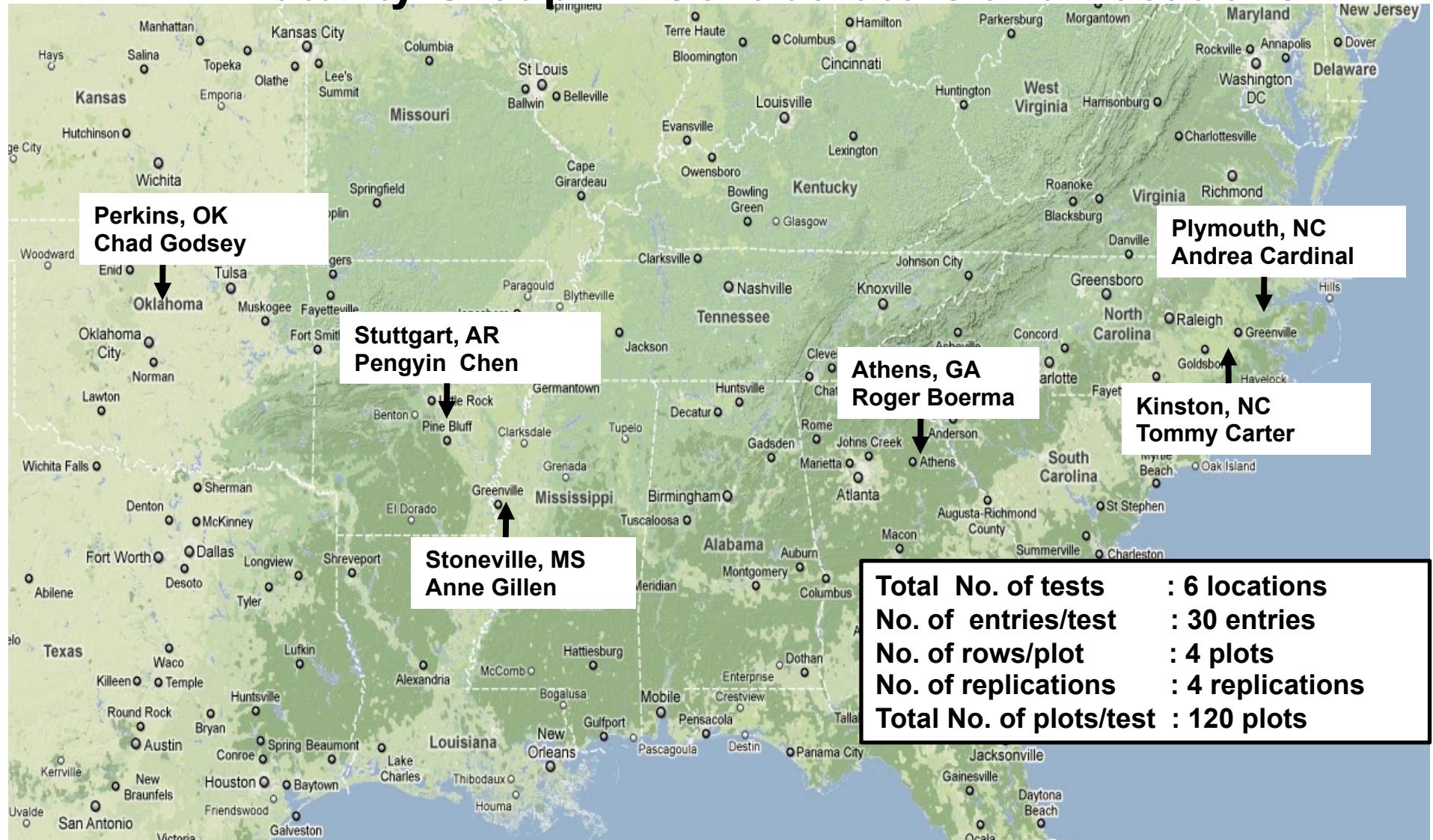
bu/a



Maturity Group VI Cultivars

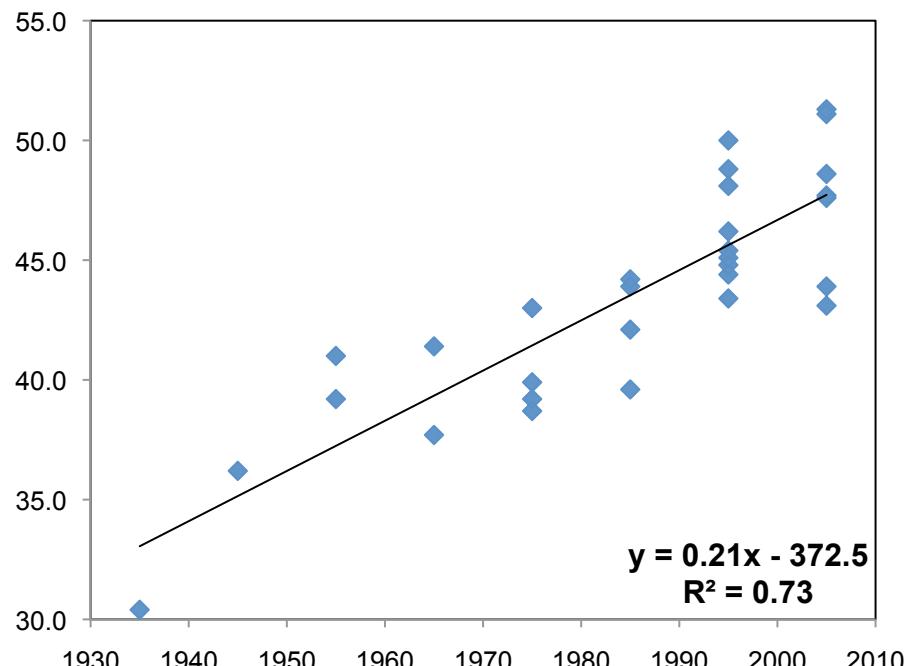
Decade	Soybean Cultivars		
	Public	Commercial	Total
1935	Arksoy	-	-
1945	Ogden	-	1
1955	Lee, Hood	-	2
1965	Davis, Pickett	-	2
1975	Tracy, Centennial	2	4
1985	Young, Leflore	2	6
1995	Brim, Dillon, Boggs	6	13
2005	Musen, NC Roy	5	10
Total	15	15	30

Maturity Group VI: Collaborators and Locations



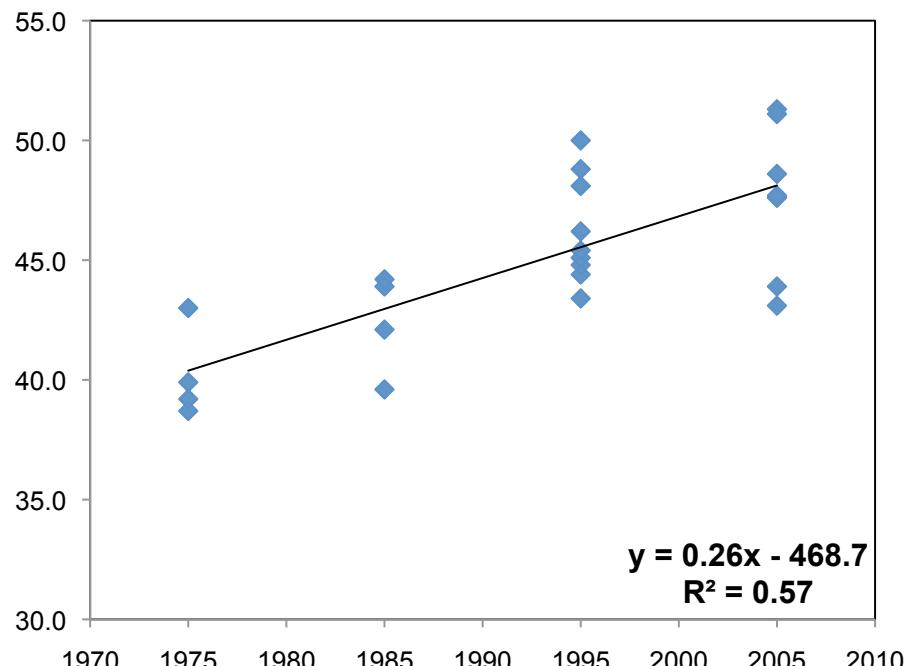
Yield vs. Year of Release Maturity Group VI

bu/a



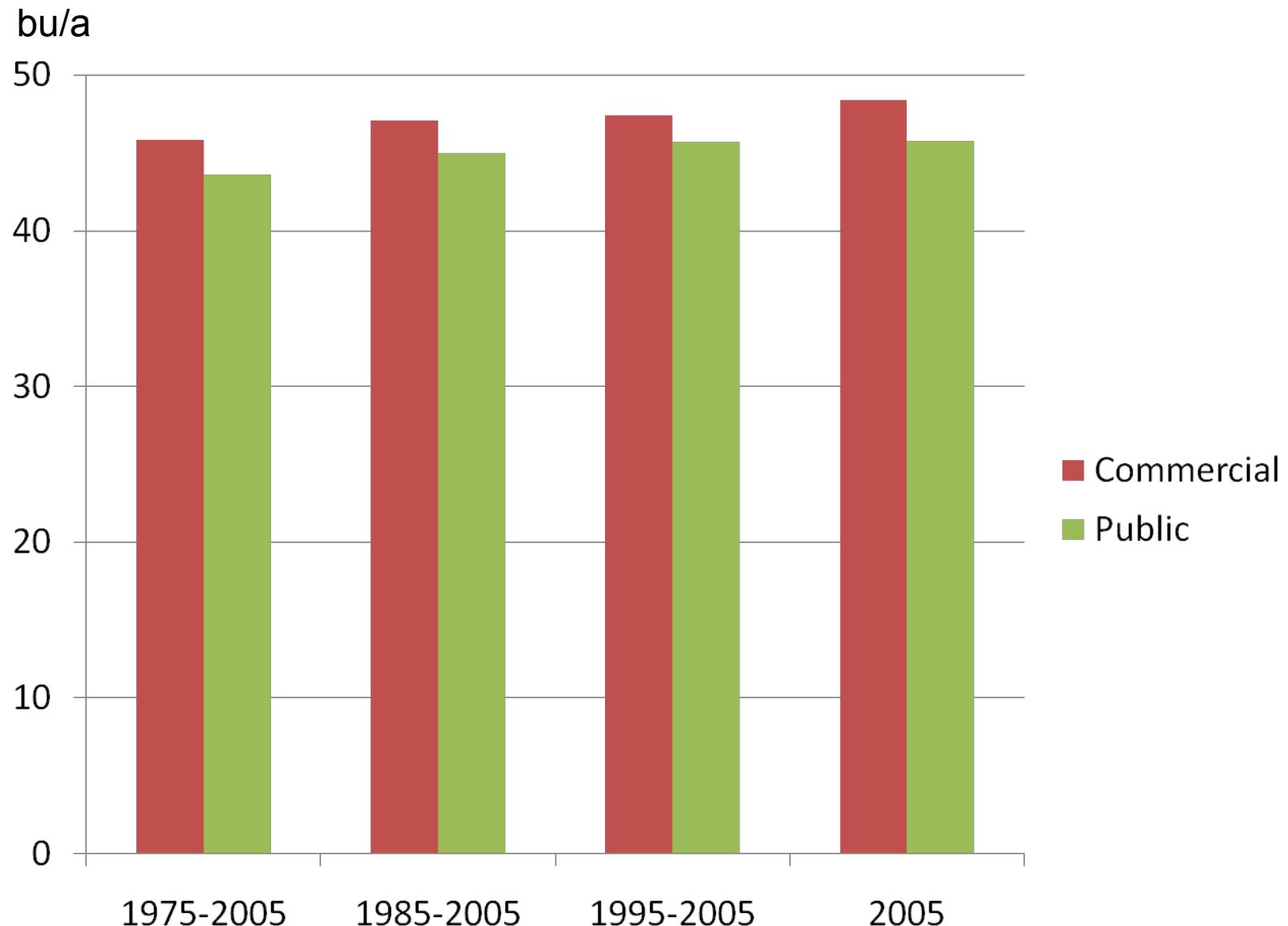
1935 - 2005

bu/a



1975 - 2005

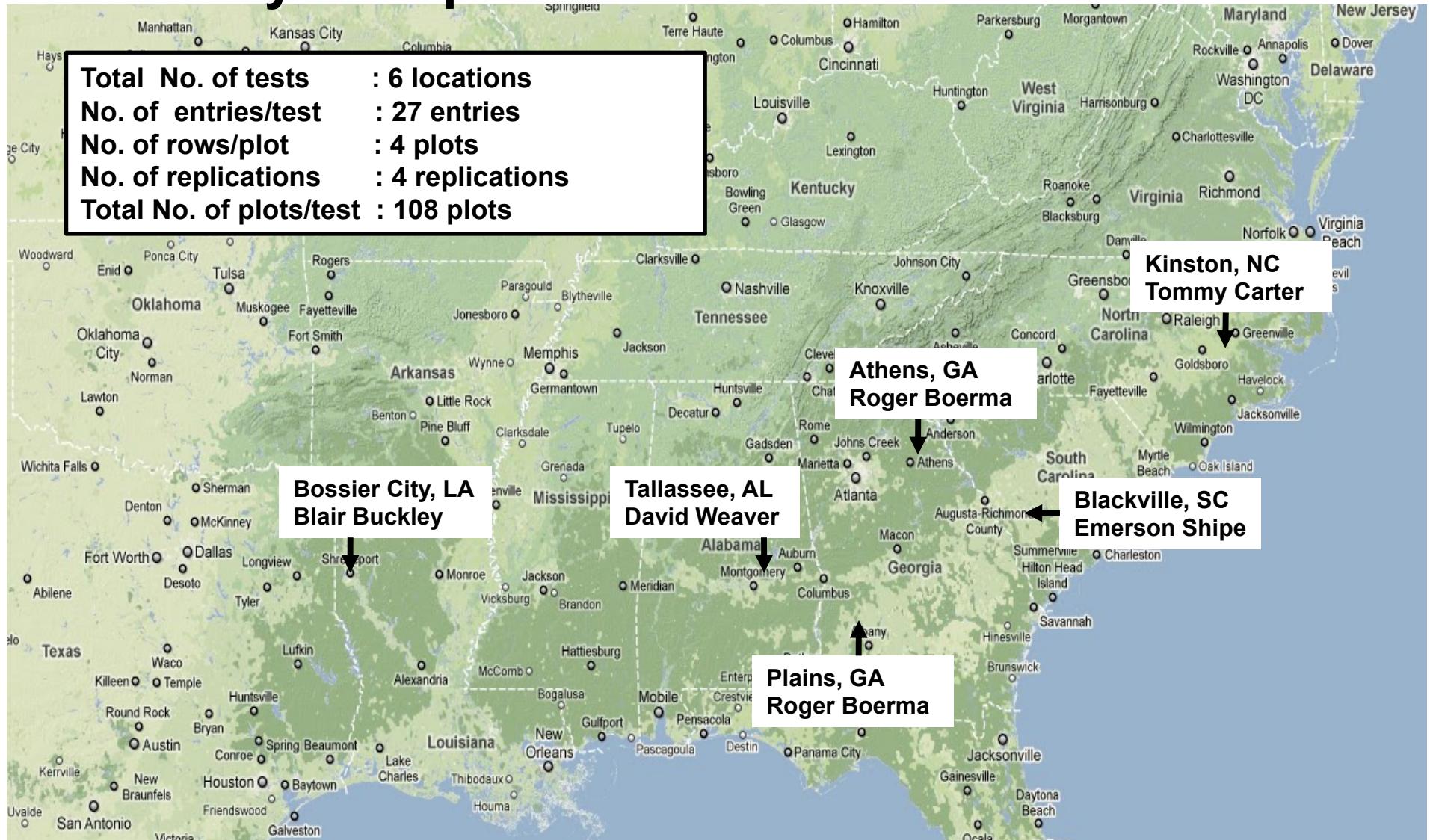
Commercial vs. Public (1975-2005) Maturity Group VI



Maturity Group VII Cultivars

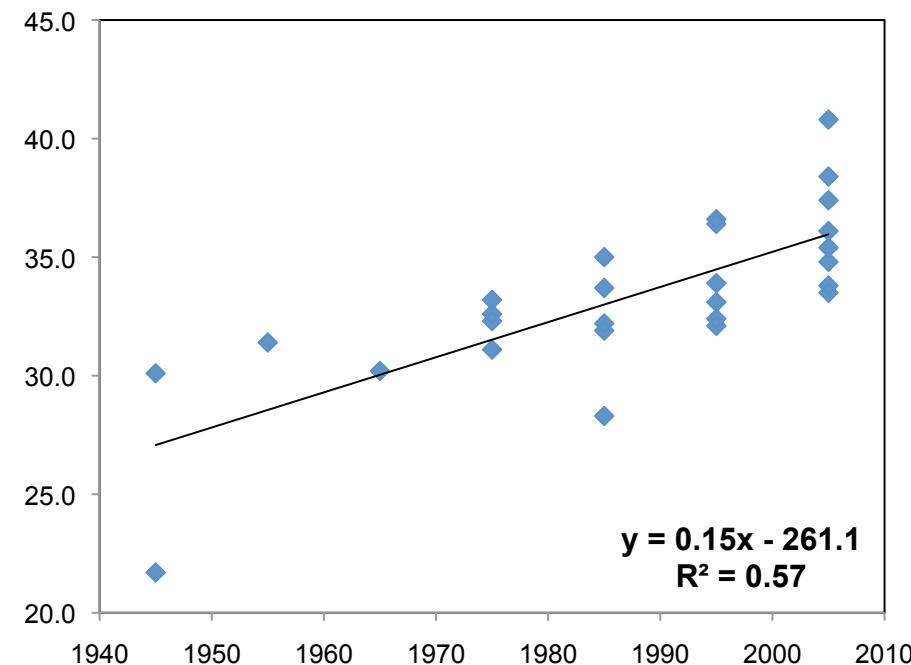
Decade	Soybean Cultivars		
	Public	Commercial	Total
1935	-	-	-
1945	CNS, Roanoke	-	1
1955	Jackson	-	2
1965	Bragg	-	2
1975	Ransom, GaSoy17, Braxton	1	4
1985	Thomas, Stonewall	3	6
1995	Hagood, Cook, Benning	3	13
2005	NC Raleigh, Woodruff, N7002	5	10
Total	15	12	27

Maturity Group VII: Collaborators and Locations



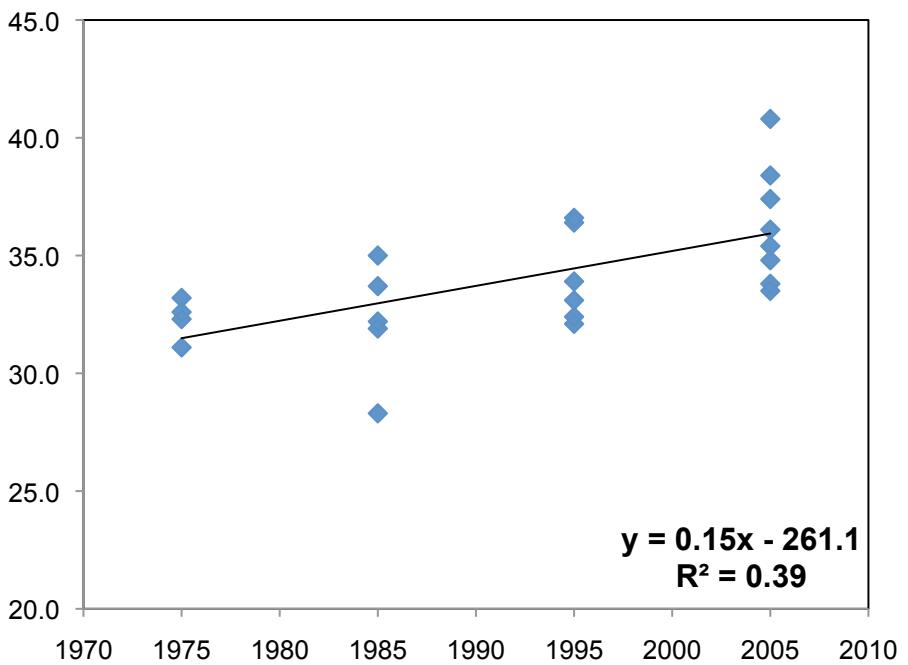
Yield vs. Year of Release Maturity Group VII

bu/a



1945 - 2005

bu/a

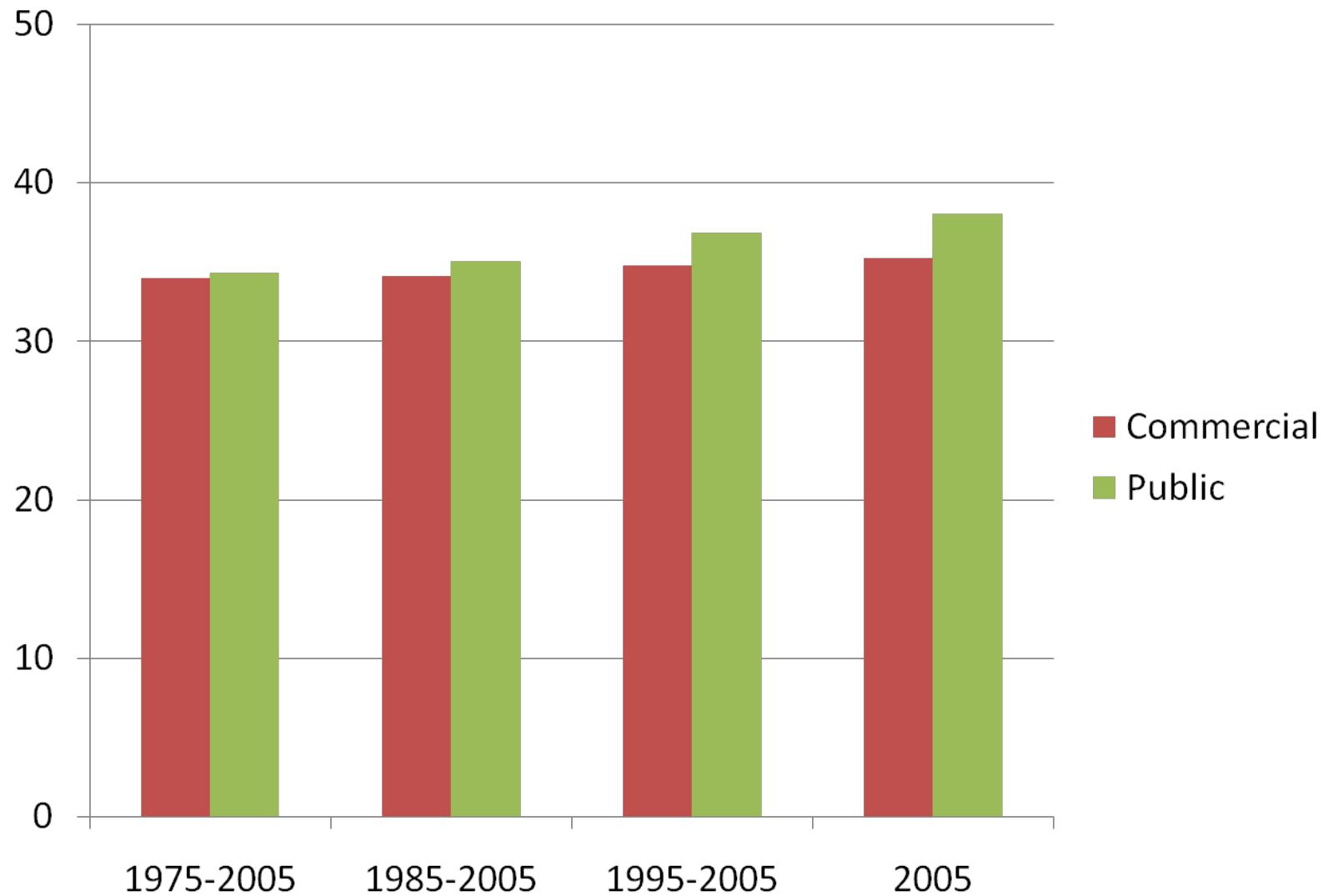


1975 - 2005

Commercial vs. Public (1975-2005)

Maturity Group VII

bu/a



Summary

- **Soybean breeders (public and commercial) continue to make genetic gain in seed yield**
- **The rate of gain does not appear to have increased in MG V, VI, and VIII since the enactment of Plant Variety Protection Act**
- **Public-sector varieties were greater in seed yield in MG V and VII and commercial-sector varieties in MG VI, but public cultivars lack desired transgenic herbicide tolerance**
- **We need a second year of data especially in MG VII**