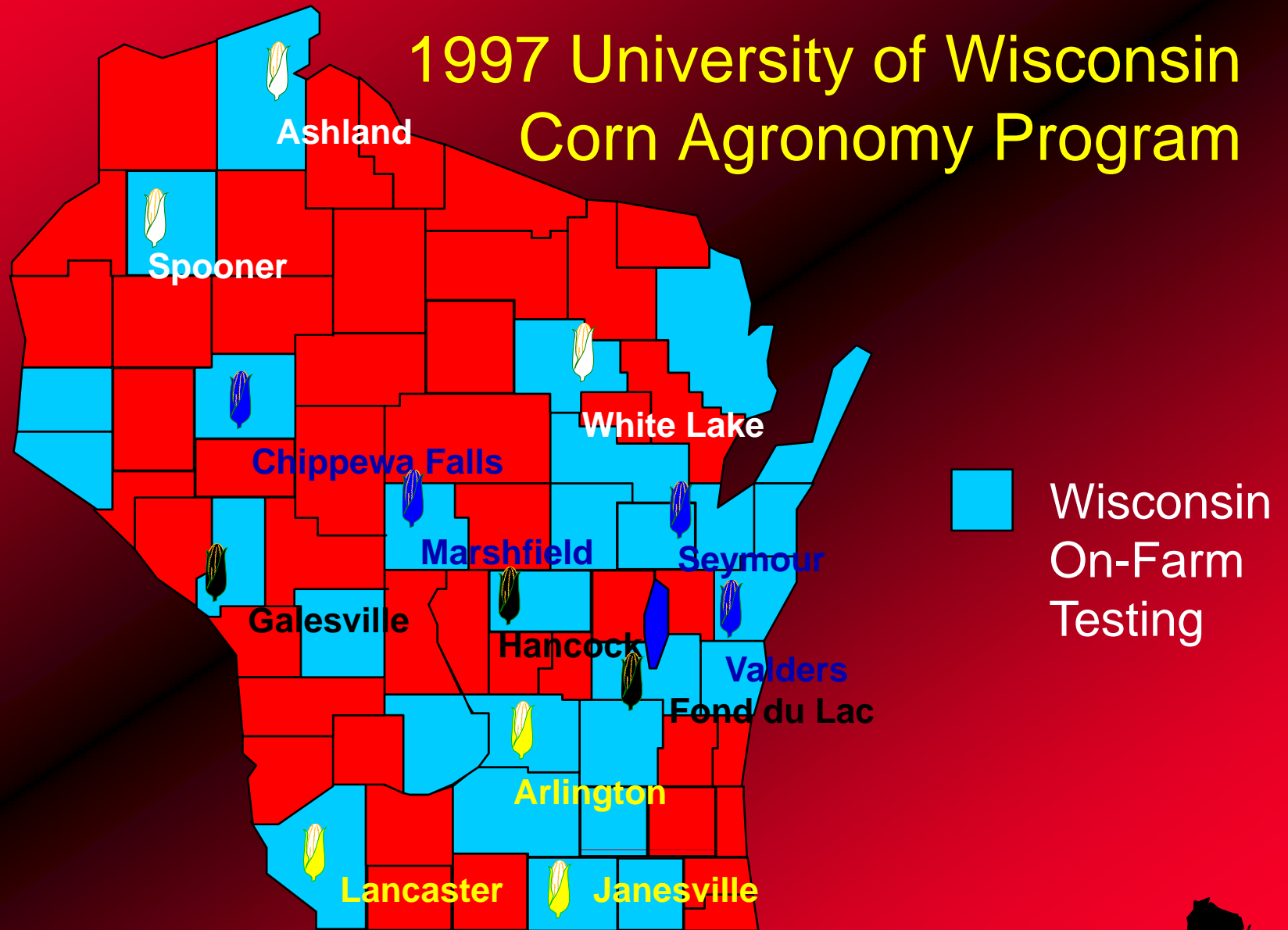


# 1998 Seed Dealer Update Meetings

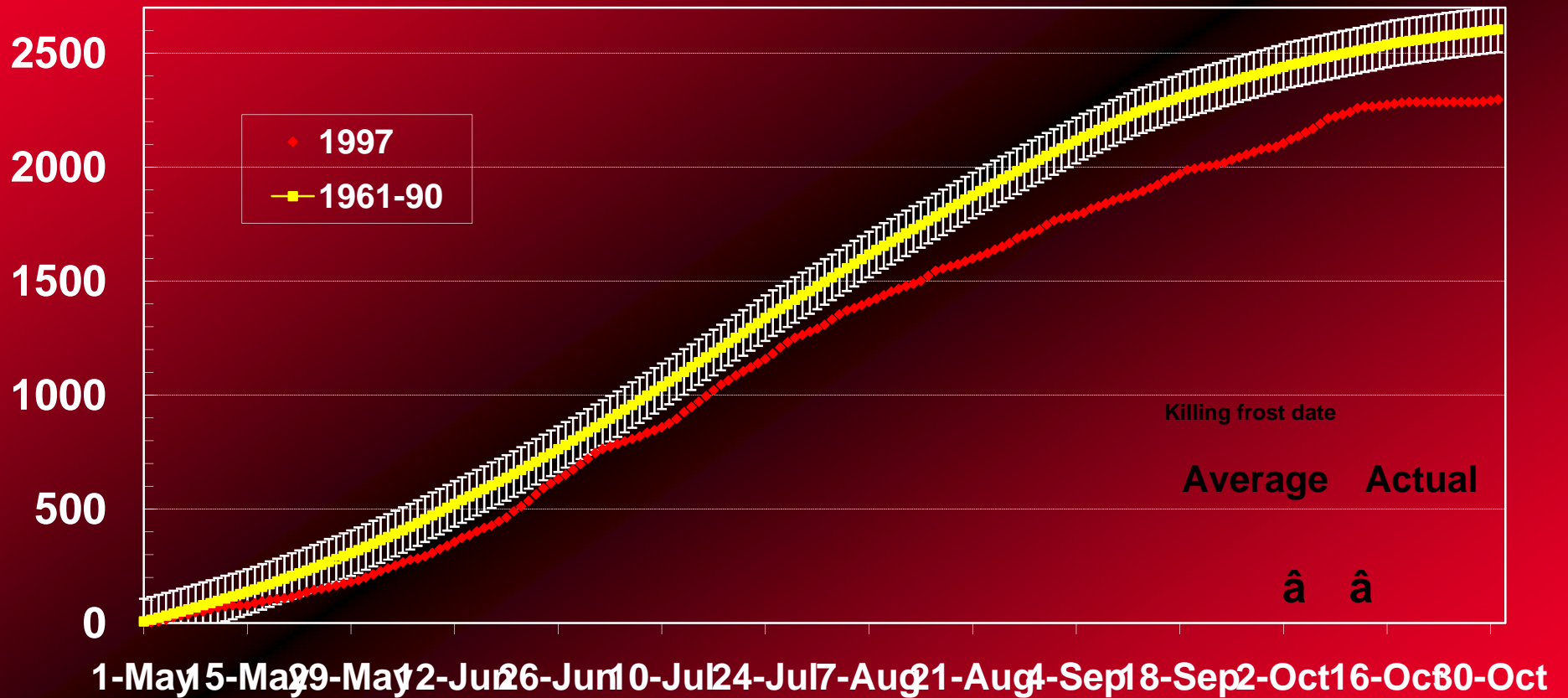
**Joe Lauer, *Corn Agronomist***



# 1997 University of Wisconsin Corn Agronomy Program



# GDU Accumulation during 1997 at Arlington, WI. GDU bars around 1961-90 average occur 4 of 5 years



# 1997 Wisconsin Corn Hybrid Performance Trial Summary

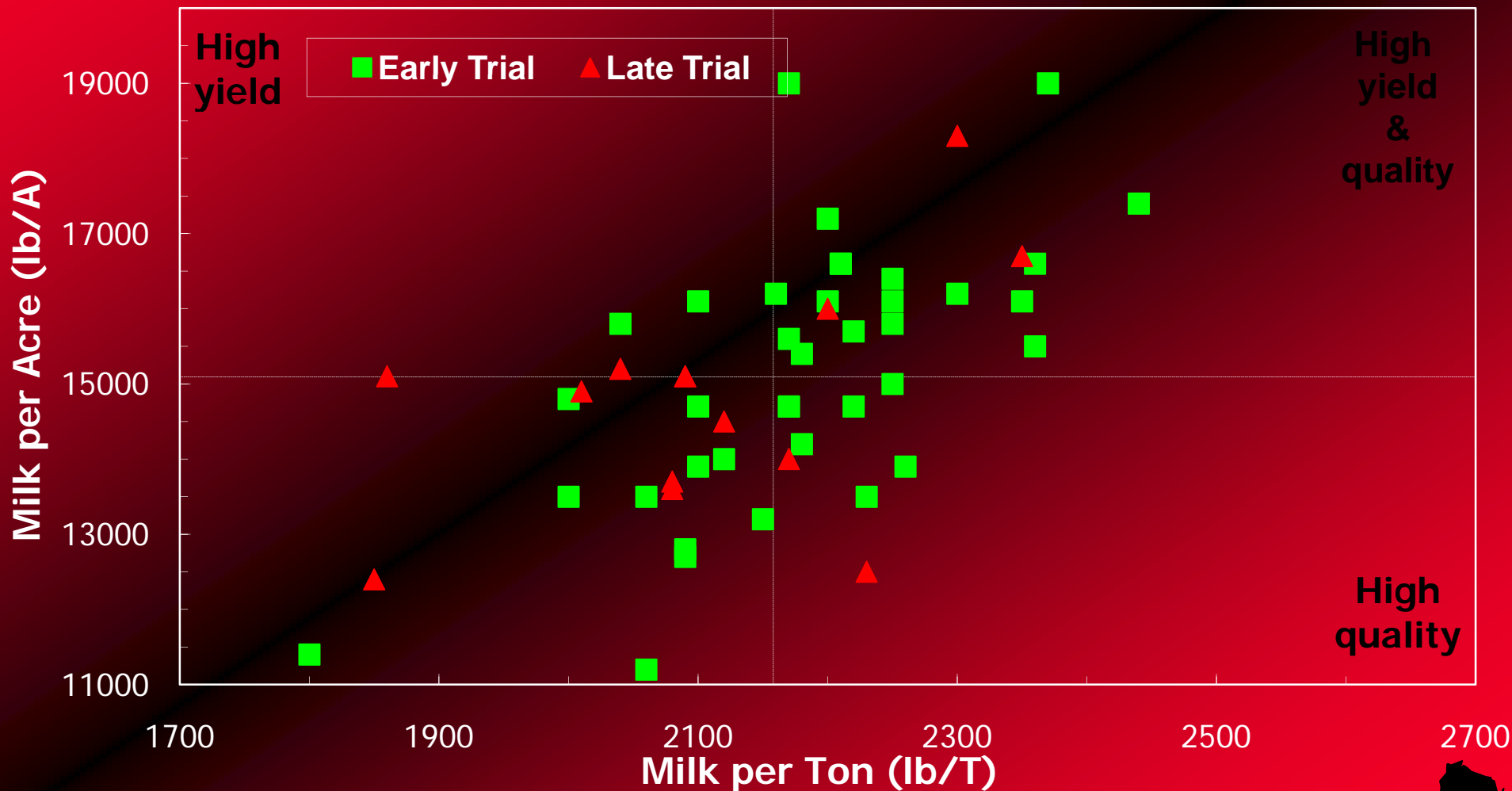
Location	1997		1996		1987-96	
	N	Yield	N	Yield	N	Yield
Arlington	202	170	208	174	166	176
Janesville	202	179	208	162	166	169
<b>Lancaster</b>	202	<b>185</b>	208	<b>154</b>	166	<b>154</b>
<b>Fond du Lac</b>	178	<b>176</b>	183	<b>136</b>	150	<b>149</b>
Galesville	178	157	183	123	150	154
Hancock	178	174	183	176	150	177
Chippewa Falls	151	164	160	162	109	153
<b>Marshfield</b>	151	<b>165</b>	160	---	93	<b>123</b>
Seymour	151	---	160	130	101	142
Valders	151	147	160	145	109	137
<b>Ashland</b>	22	<b>140</b>	16	<b>146</b>	12	<b>125</b>
<b>Spooner</b>	206	<b>149</b>	195	<b>127</b>	177	<b>118</b>
<b>White Lake</b>	68	<b>101</b>	65	<b>47</b>	63	<b>87</b>

Note: Seymour average includes Waupaca, 1987 and New London 1988-1992.

White Lake average includes Antigo, 1987  
Lauer, 1997



# Corn hybrid silage yield and quality in the south central production zone of Wisconsin.

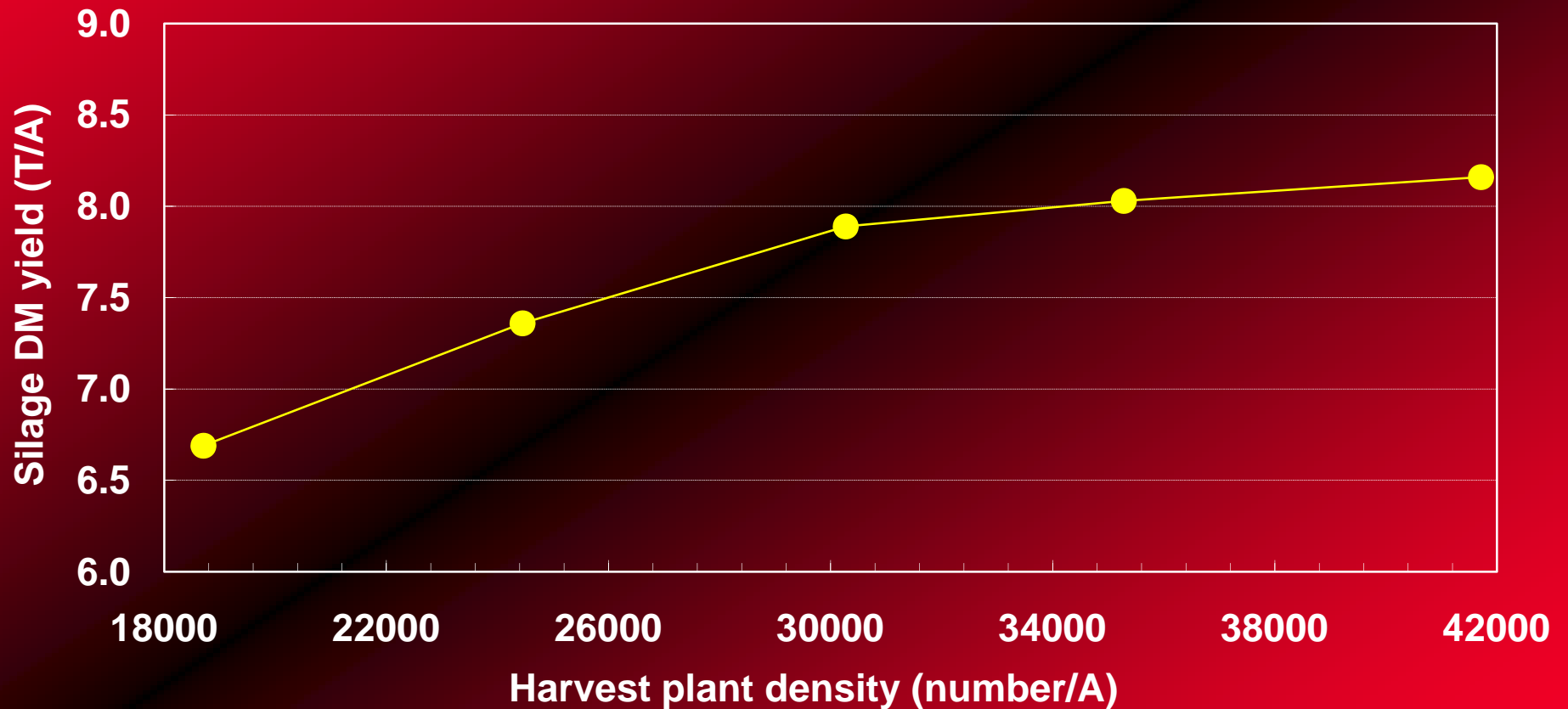


# Materials and Methods

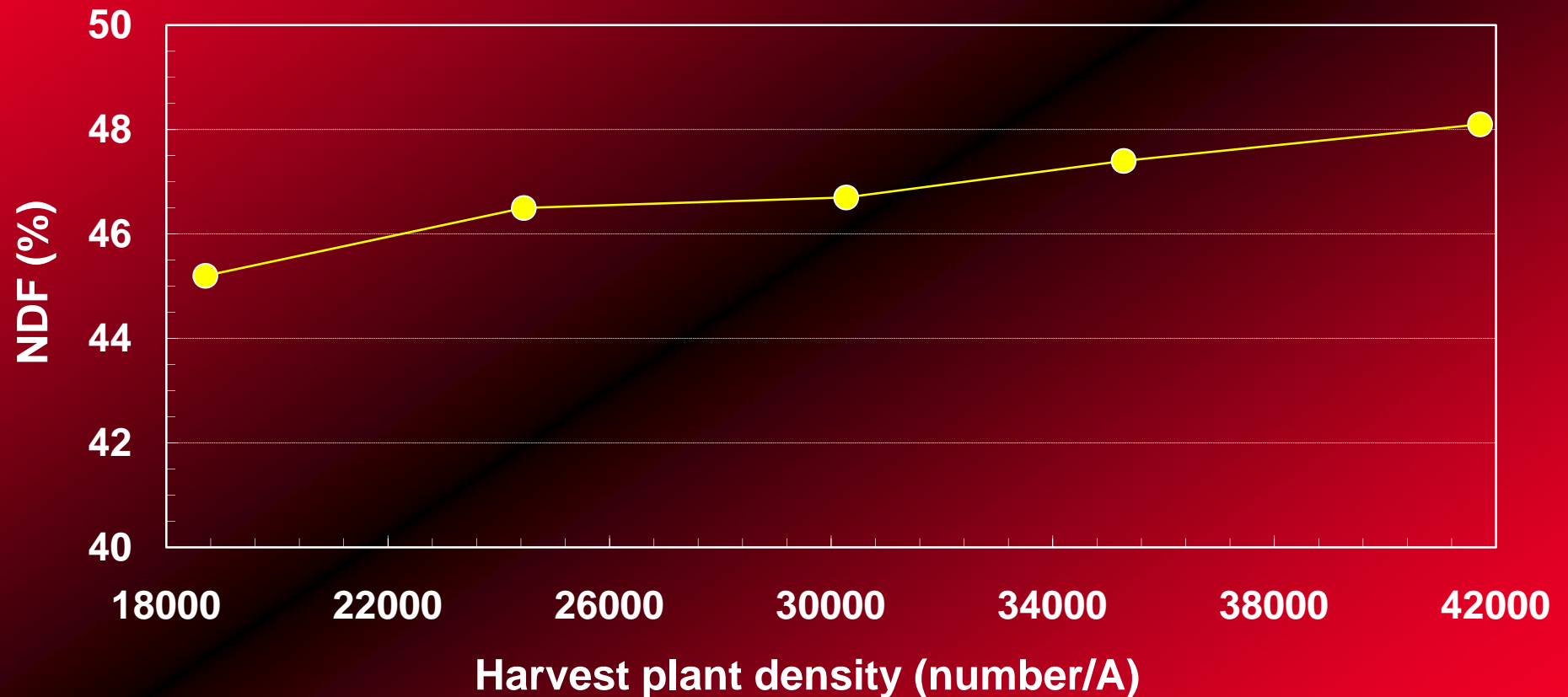
- Plant density (plants/acre)  
18000, 24000, 30000,  
36000, and 42000
- Corn hybrids selected for  
similar maturity, silage yield,  
and grain yield.
- Hybrids differed for silage  
quality traits



# Relationship between corn silage yield and plant density between 1994 and 1996.

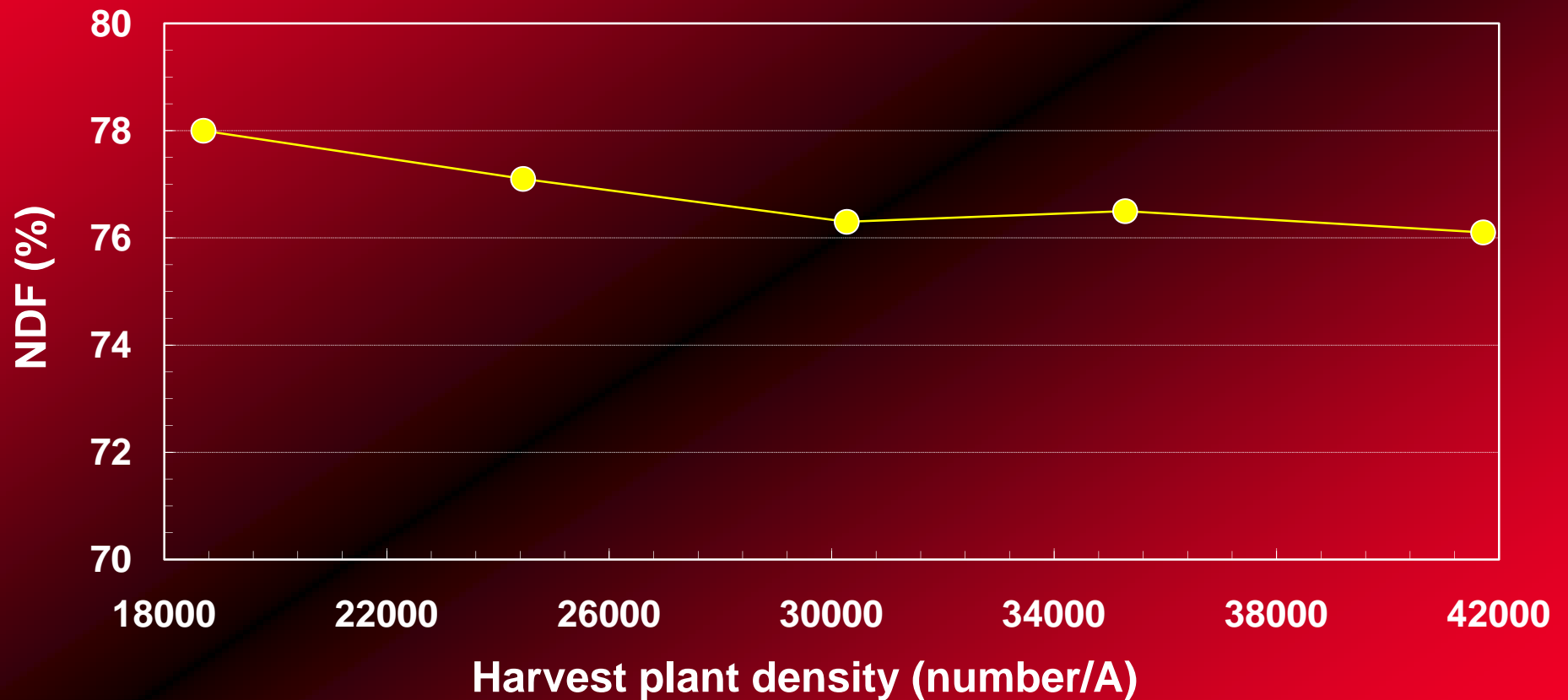


## Relationship between corn silage neutral detergent fiber (NDF) and plant density between 1994 and 1996.

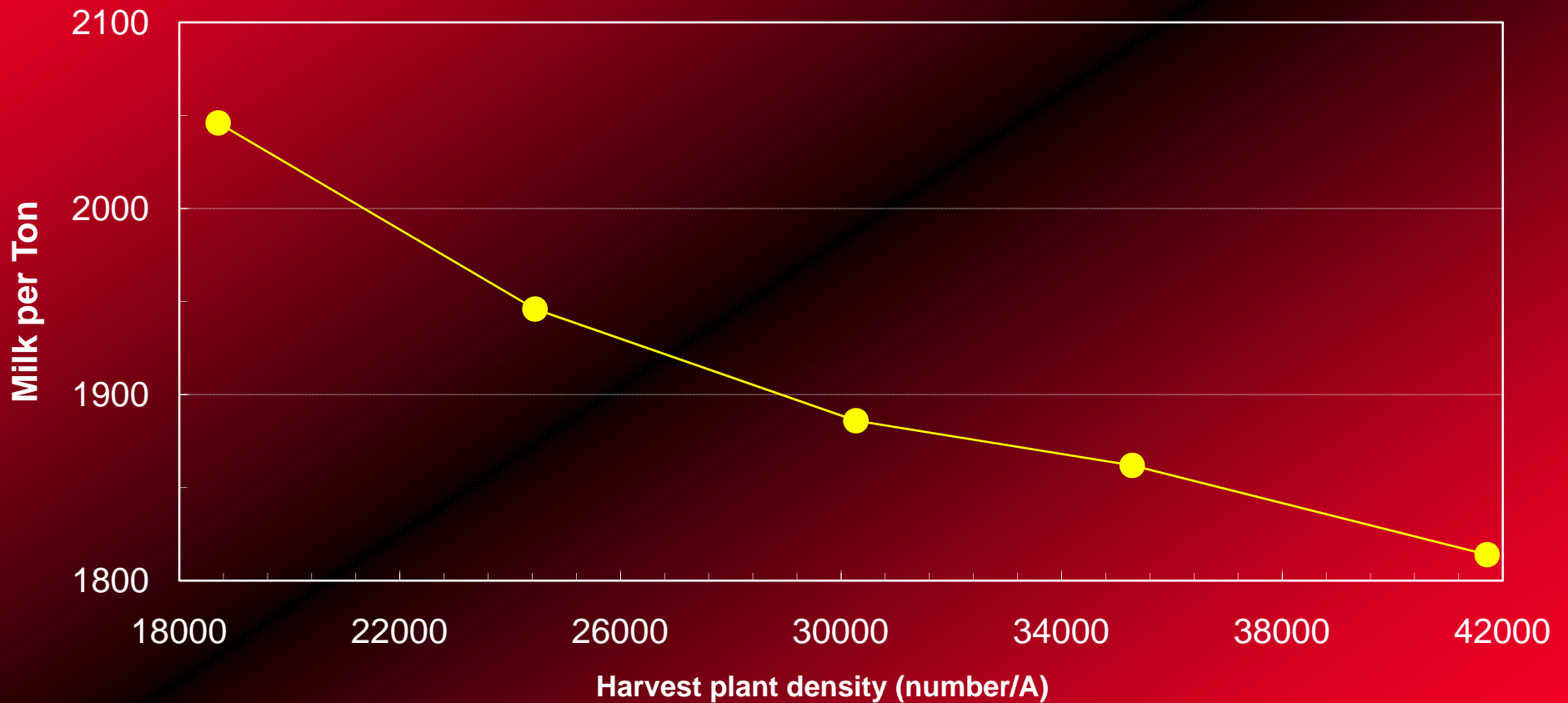




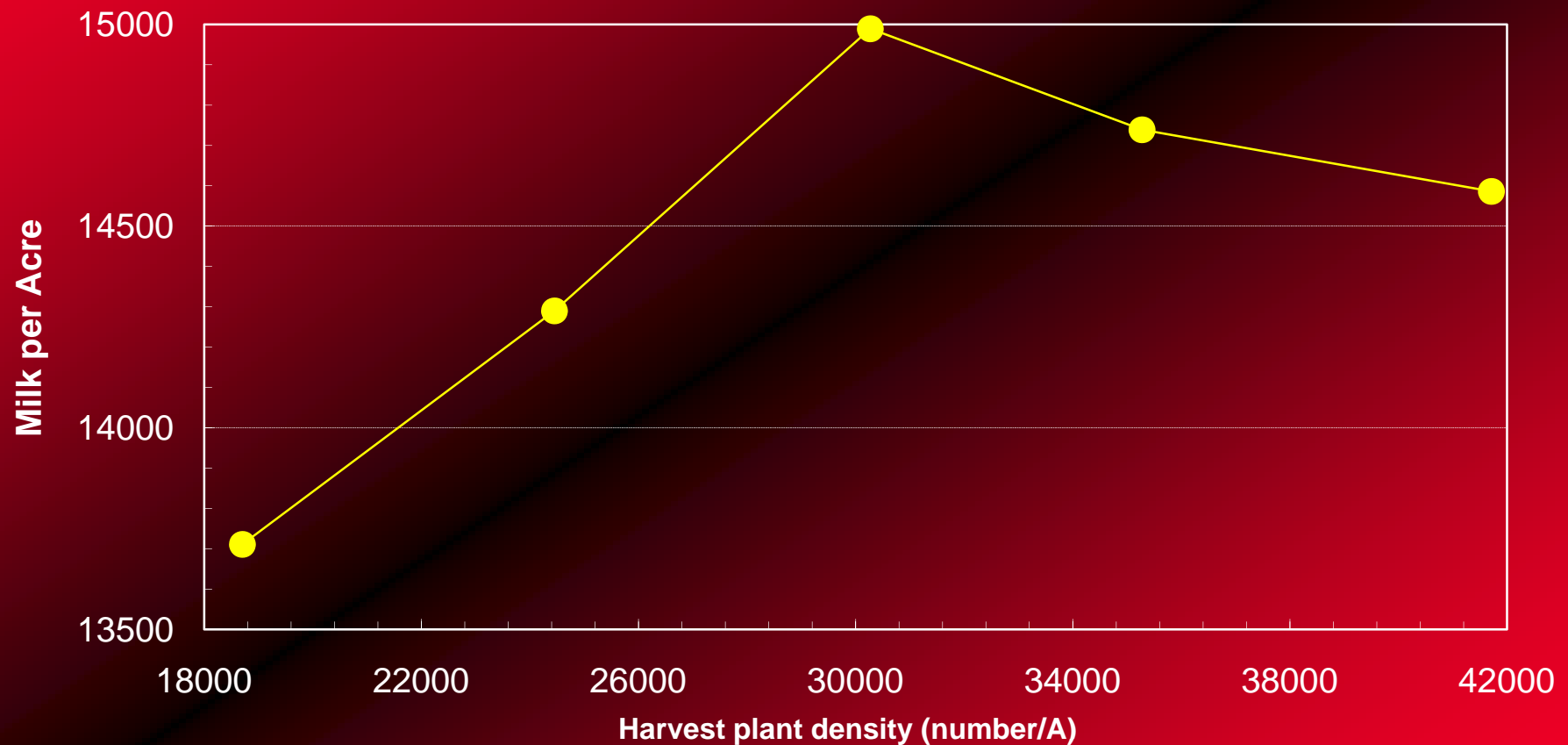
## Relationship between corn silage *in vitro* digestibility (IVD) and plant density between 1994 and 1996.



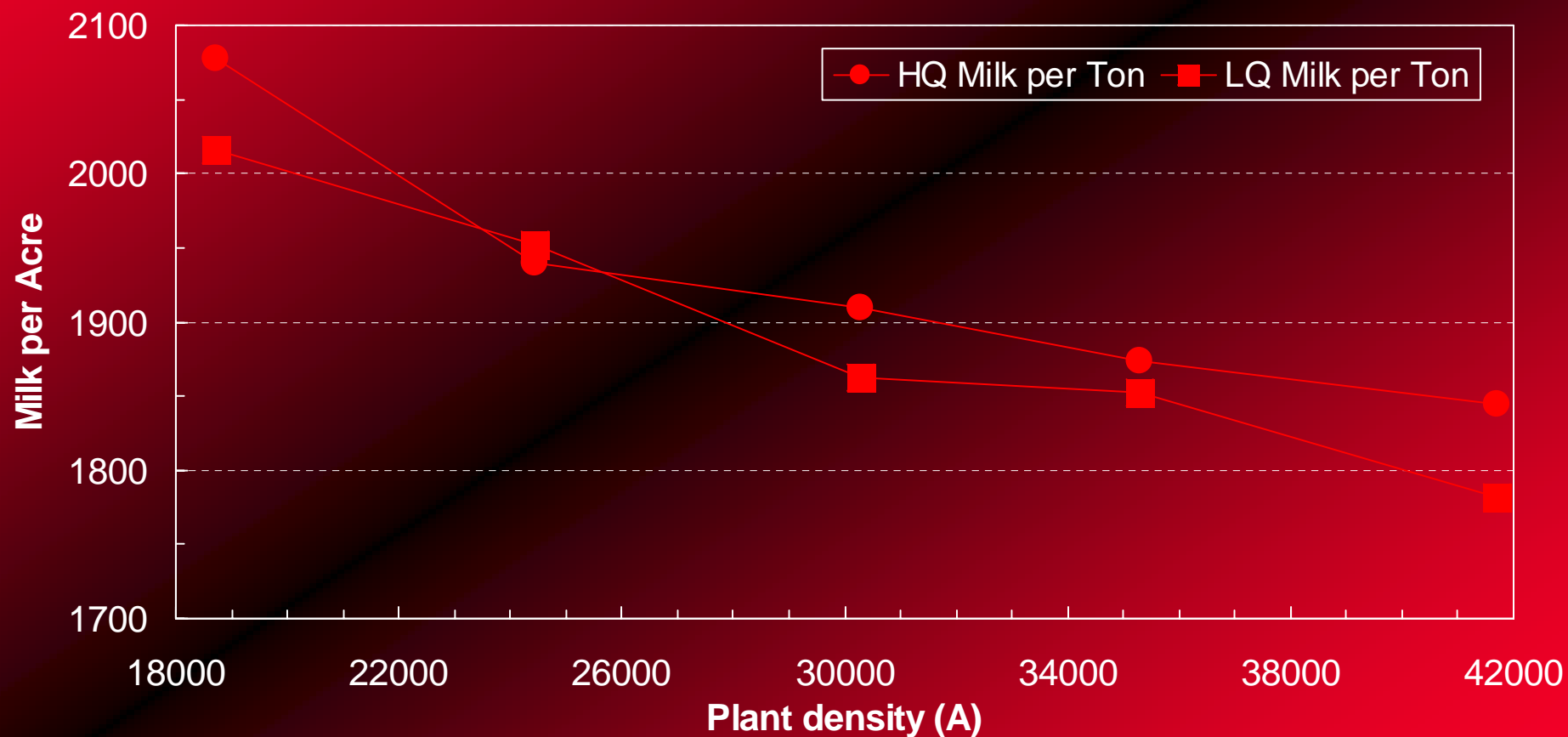
## Relationship between corn silage Milk per ton and plant density between 1994 and 1996.



## Relationship between corn silage Milk per acre and plant density between 1994 and 1996.



## Corn silage hybrid relationship between Milk per ton and plant density between 1994 and 1996 in Wisconsin.



## Conclusions

- Silage yield continued to increase with increasing plant density.
- Corn silage quality (Milk per Ton) is best at low plant density.
- An economic (Milk per Acre) trade-off exists for plant density.
  - ☞ As plant density increases, silage yield increases, but quality (Milk per Ton) decreases. Thus, Milk per Acre is maximized at 30,000 plants/A.
- Plant density affected hybrid silage quality similarly.
- Should plant density recommendations change moving from south to north in Wisconsin?
  - ☞ Optimum corn silage plant density recommendations are similar to corn grain plant densities within Wisconsin.
  - ☞ For corn grain, a slight advantage exists for increasing plant densities moving from south to north in Wisconsin.



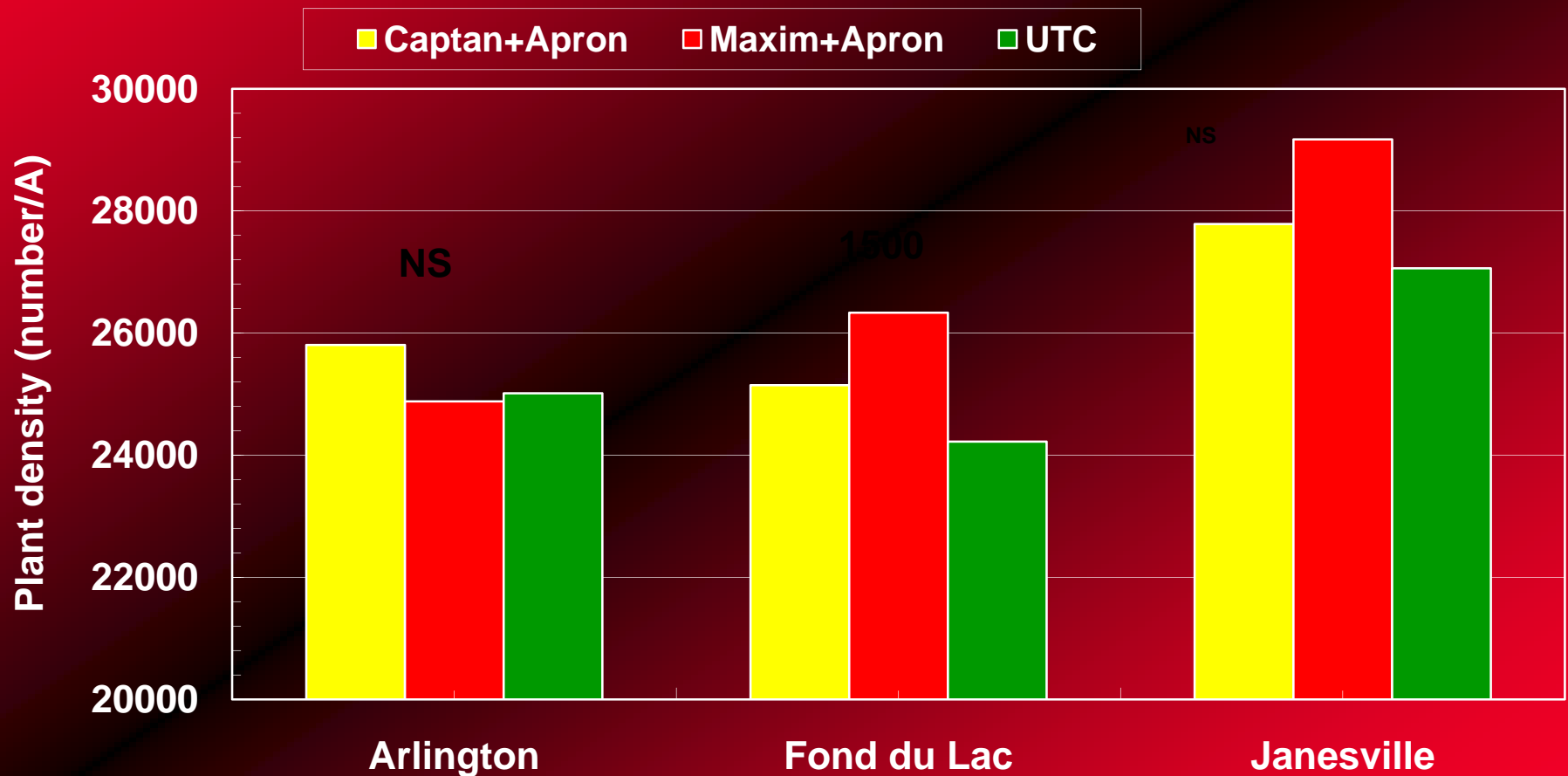
## Efficacy of Corn Seed Treatments

Disease	Captan	Maxim	Apron
Rhizoctonia	G	G	P
Fusarium	G	E	P
Pythium	P	P	E
Helminthosporium	G	G	P
Penicillium	G	G	P
Aspergillus	G	G	P

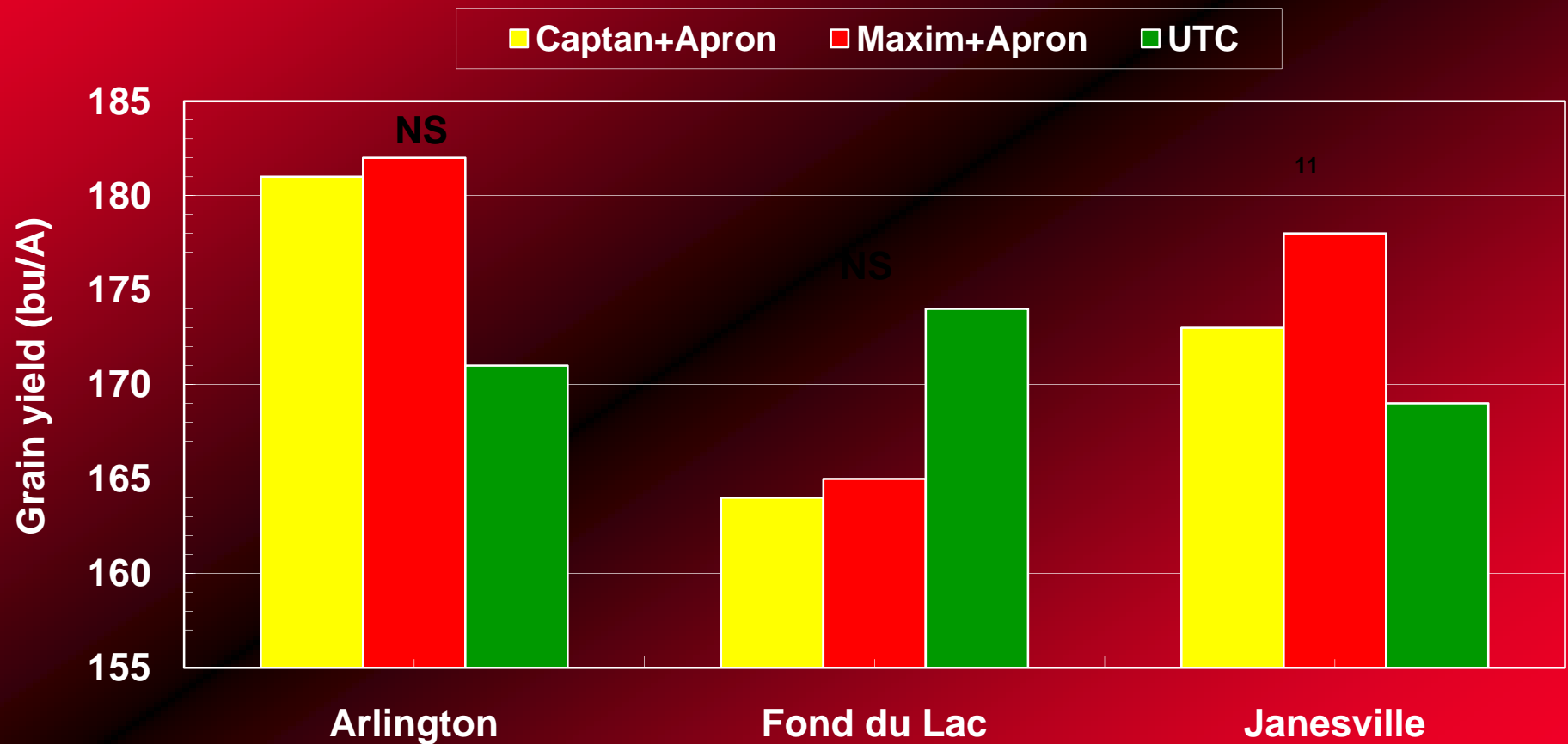
*derived from Pedersen, U. of Illinois*



# Corn seed treatment plant density response in Wisconsin.

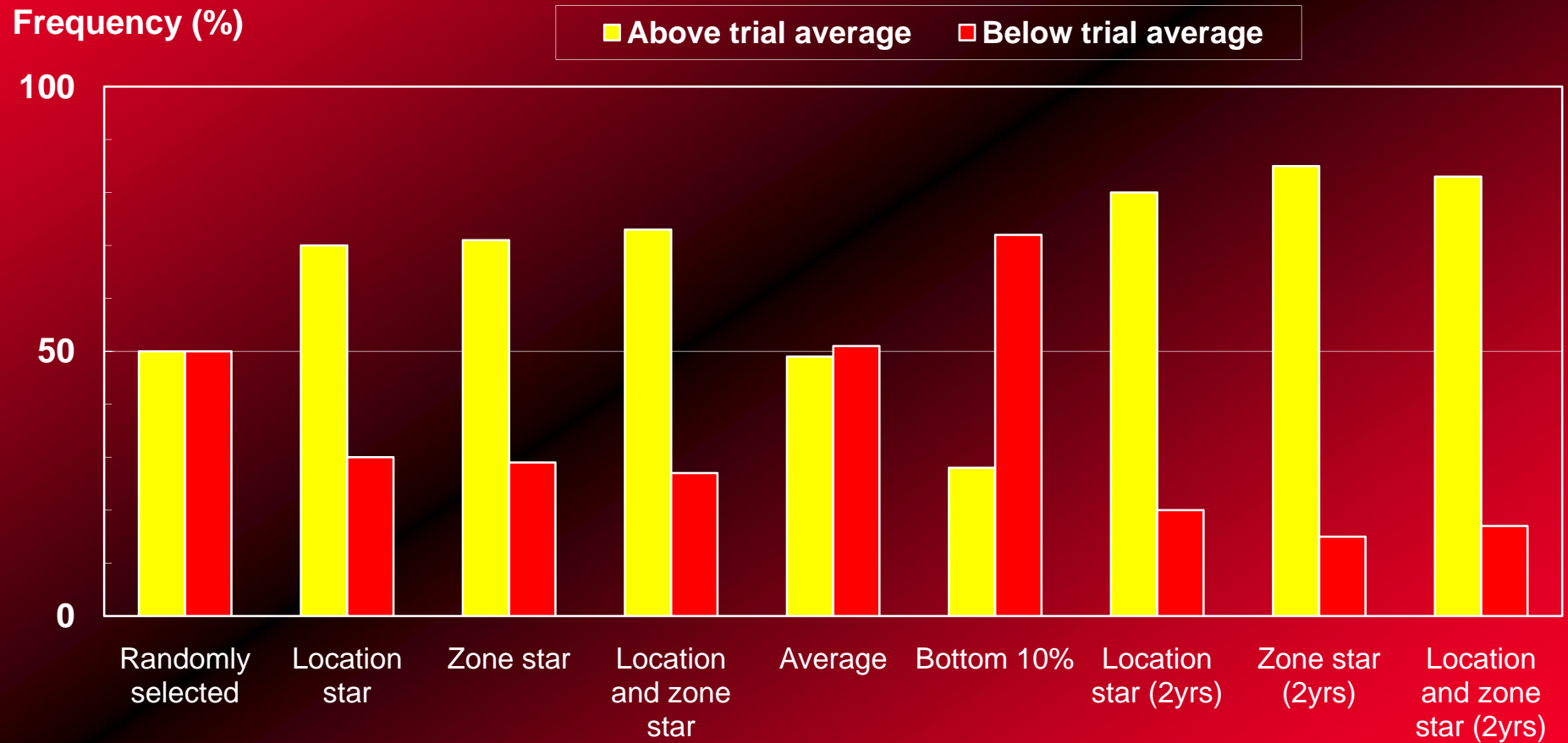


# Corn seed treatment yield response in Wisconsin.





# How good are you at picking top corn hybrids?



# Hybrid selection should be based on:

- Multi-environment averages
- Consistency



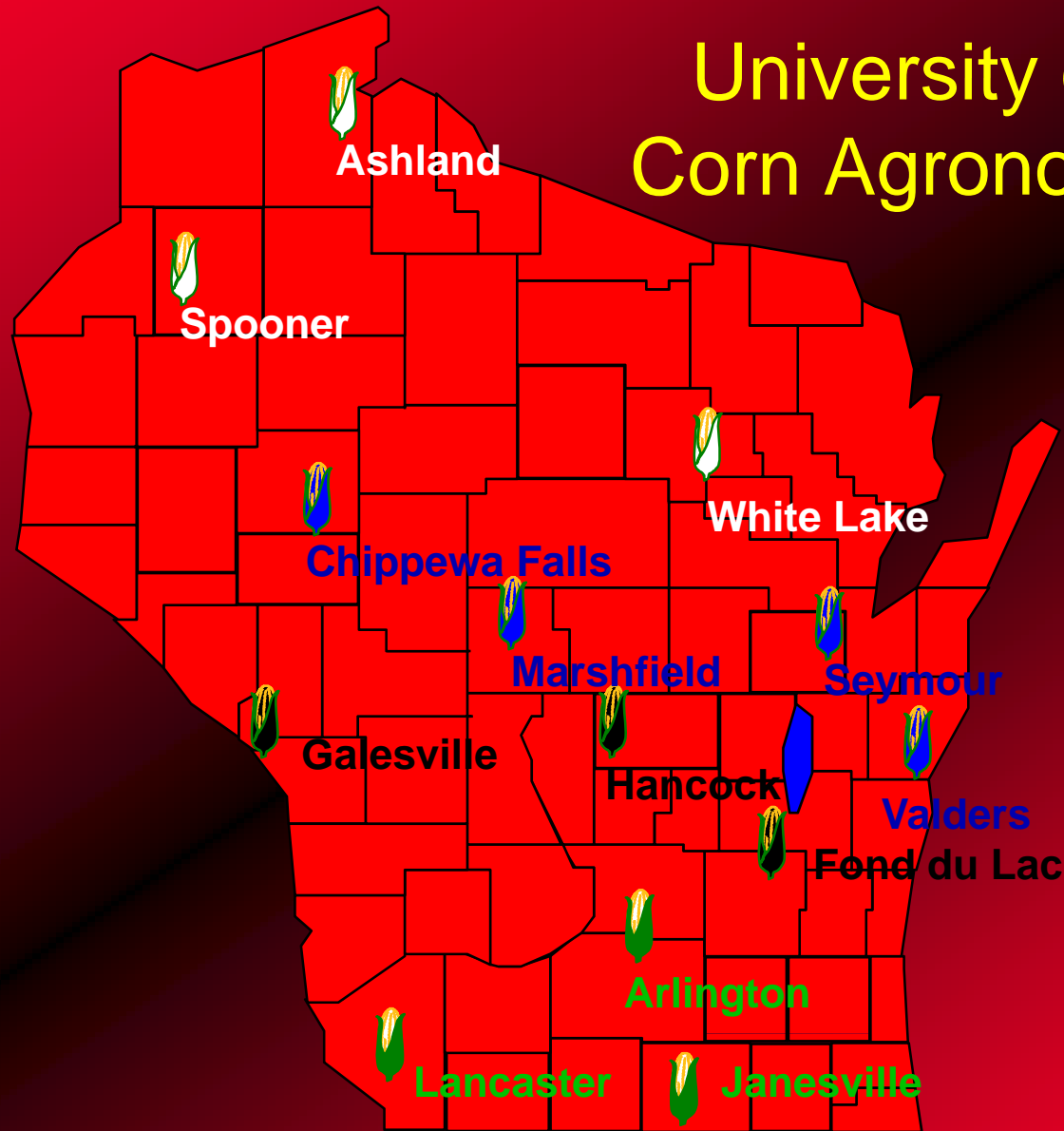
# SELECT 97

A program for  
choosing crop varieties

<http://corn.agronomy.wisc.edu>



# University of Wisconsin Corn Agronomy Program



Lauer, 1997

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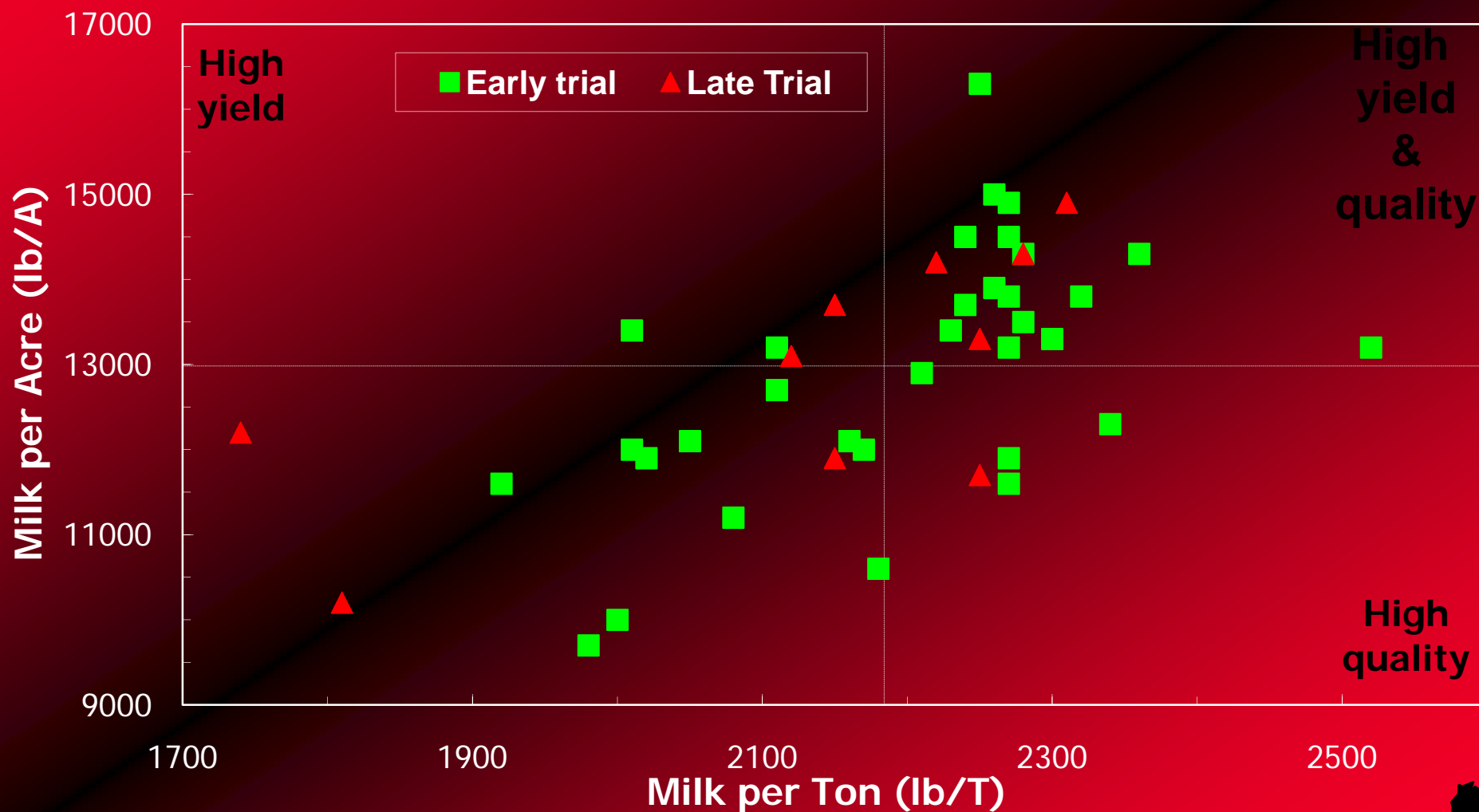


## Top 10 corn hybrid yields in the northern production zone of Wisconsin during 1997.

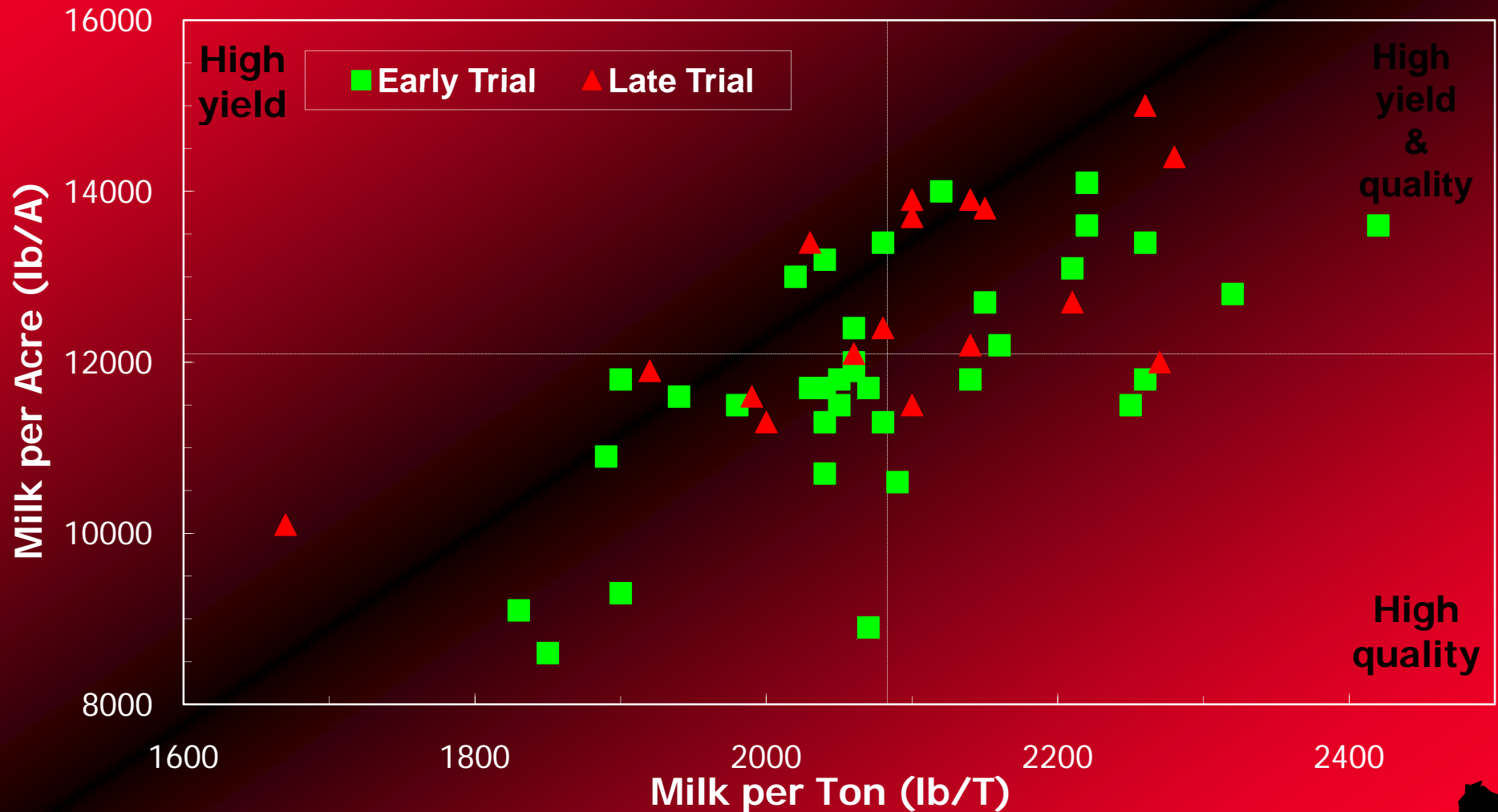
Hybrid	Yield (bu/a)	Moisture (%)
Dekalb DK385B	158	30
Dairyland Stealth1289	158	31
Dahlco 360	155	30
Carhart's Blue Top CX92A	154	25
NK Brand NX2105	150	27
Brown's 2267	150	30
Mycogen Seeds 2110	148	25
Dahlco 5902	147	31
Kaltenberg K2501	145	28
Dekalb DK365	145	28



# Corn hybrid silage yield and quality in the southern production zone of Wisconsin.



# Corn hybrid silage yield and quality in the north central production zone of Wisconsin.

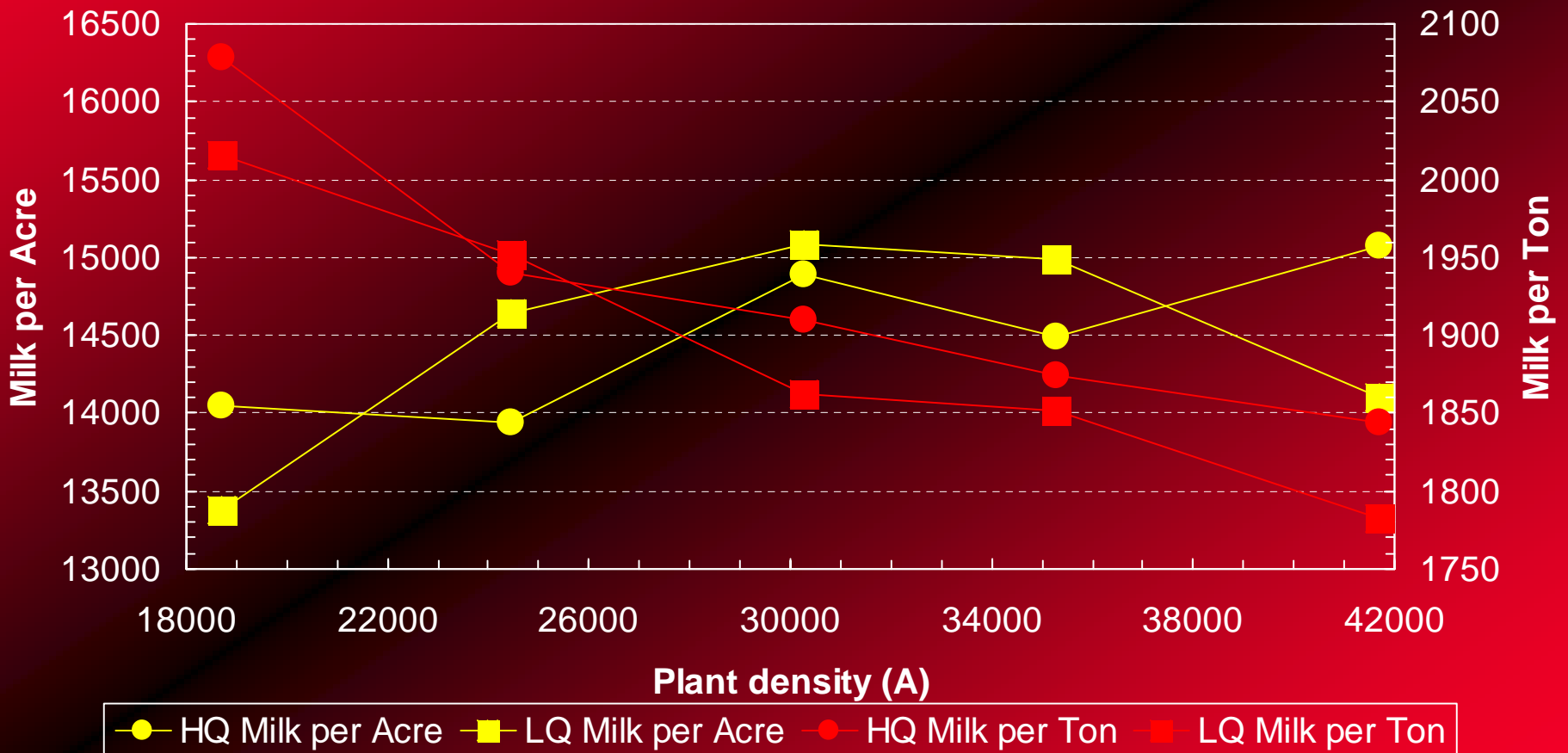


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# Relationship between corn silage Milk per Acre, Milk per Ton, and plant density between 1994 and 1996 in Wisconsin.





# Corn silage hybrid relationship between Milk per acre and plant density between 1994 and 1996 in Wisconsin.

