


# Missouri Rice Research and Merchandising Council

## 2017 Missouri Variety Trial Data

|  | Yield (bu/A)     |         |                |           |             |            |              | Lodging (%) |                  |         |                |           |             | Shattering (%) |              |                  |      |                |           |             |            |              |
|--|------------------|---------|----------------|-----------|-------------|------------|--------------|-------------|------------------|---------|----------------|-----------|-------------|----------------|--------------|------------------|------|----------------|-----------|-------------|------------|--------------|
|  | Glennonville, MO |         | Neelyville, MO | Rives, MO | Canalou, MO | Naylor, MO | Vanduser, MO | AVG         | Glennonville, MO |         | Neelyville, MO | Rives, MO | Canalou, MO | Naylor, MO     | Vanduser, MO | Glennonville, MO |      | Neelyville, MO | Rives, MO | Canalou, MO | Naylor, MO | Vanduser, MO |
|  |                  |         |                |           |             |            |              |             |                  |         |                |           |             |                |              |                  |      |                |           |             |            |              |
|  | Variety          | Early   | Late           |           |             |            |              |             | Early            | Late    |                |           |             |                |              | Early            | Late |                |           |             |            |              |
| Caffey   | 193.5 b-f        | 228 bcd | 159 cd         | 176 cd    | 158 c-h     | 162 d-g    | 159 abc      | 176         | 0 c              | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 3 d         | 0 -        | 0 g          |
| CL 111   | 162.2 fgh        | 175 gh  | 136 gh         | 112 j     | 116 ij      | 142 h      | 121 gh       | 138         | 73 a             | 8 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 40 ab       | 0 -        | 0 g          |
| CL 151   | 186.5 b-g        | 205 def | 167 c          | 139 hi    | 134 g-j     | 166 d-g    | 143 b-g      | 163         | 58 ab            | 30 bc   | 0 -            | 0 -       | 0 -         | 0 -            | 13 d         | 0 -              | 0 -  | 0 -            | 0 -       | 30 abc      | 0 -        | 0 g          |
| CL 153   | 163.2 fgh        | 181 fgh | 144 fg         | 152 fg    | 128 hij     | 150 gh     | 136 c-g      | 151         | 18 c             | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 33 abc      | 0 -        | 0 g          |
| CL 163   | 162.2 fgh        | 174 gh  | 131 h          | 138 hi    | 129 hij     | 107 i      | 144 b-g      | 141         | 0 c              | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 23 bcd      | 0 -        | 0 g          |
| CL 172   | 130.2 i          | 160 h   | 150 def        | 158 efg   | 111 j       | 148 gh     | 130 efg      | 141         | 0 c              | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 3 d         | 0 -        | 0 g          |
| CL 272   | 179.1 d-h        | 196 efg | 153 def        | 149 gh    | 139 e-j     | 157 e-h    | 157 a-d      | 162         | 7.5 c            | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 8 cd        | 0 -        | 0 g          |
| Diamond  | 193.1 b-f        | 222 cde | 159 cd         | 165 de    | 176 a-d     | 175 d      | 162 ab       | 179         | 0 c              | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 3 d          | 0 -              | 0 -  | 0 -            | 0 -       | 10 cd       | 0 -        | 0 g          |
| Jazzman  | 150.1 hi         | 174 gh  | 112 i          | 130 i     | 142 d-j     | 142 h      | 126 fgh      | 140         | 0 c              | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 15 cd       | 0 -        | 0 g          |
| Jupiter  | 218.8 b          | 233 bc  | 154 def        | 178 c     | 162 c-h     | 173 de     | 155 a-e      | 182         | 15 c             | 5 d     | 0 -            | 0 -       | 5 -         | 0 -            | 43 c         | 0 -              | 0 -  | 0 -            | 0 -       | 8 cd        | 0 -        | 0 g          |
| LaKast   | 201.3 b-e        | 218 cde | 155 de         | 153 efg   | 142 d-j     | 177 d      | 150 a-f      | 171         | 10 c             | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 33 abc      | 0 -        | 10 ef        |
| Mermentau  | 179.5 d-h        | 170 gh  | 145 efg        | 147 gh    | 154 c-h     | 156 fgh    | 139 b-g      | 156         | 10 c             | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 8 cd        | 0 -        | 0 g          |
| MM17   | 198.6 b-e        | 212 cde | 153 def        | 165 de    | 170 b-f     | 148 gh     | 155 a-e      | 172         | 0 c              | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 3 d         | 0 -        | 0 g          |
| Roy J  | 190.5 b-f        | 227 bcd | 151 def        | 154 efg   | 156 c-h     | 176 d      | 162 ab       | 174         | 0 c              | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 10 cd       | 0 -        | 0 g          |
| Titan  | 213.8 bc         | 221 cde | 144 fg         | 164 def   | 169 b-g     | 172 def    | 151 a-f      | 176         | 15 c             | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 5 d          | 0 -              | 0 -  | 0 -            | 0 -       | 13 cd       | 0 -        | 0 g          |
| Wells  | 173.8 e-h        | 203 def | 139 gh         | 139 hi    | 149 c-i     | 165 d-g    | 142 b-g      | 159         | 0 c              | 0 d     | 0 -            | 0 -       | 0 -         | 0 -            | 0 d          | 0 -              | 0 -  | 0 -            | 0 -       | 23 bcd      | 0 -        | 0 g          |
| Clearfield CLXL745   | 219.4 b          | 249 b   | 188 b          | 152 fg    | 137 f-j     | 220 ab     | 108 h        | 182         | 55 ab            | 25 bcd  | 0 -            | 0 -       | 0 -         | 0 -            | 58 bc        | 0 -              | 0 -  | 0 -            | 0 -       | 50 a        | 0 -        | 33 b         |
| Clearfield Gemini 214  | 211.4 bcd        | 180 fgh | 181 b          | 214 a     | 162 c-h     | 211 bc     | 132 d-g      | 185         | 30 bc            | 68 a    | 0 -            | 0 -       | 0 -         | 0 -            | 53 c         | 0 -              | 0 -  | 0 -            | 0 -       | 43 ab       | 0 -        | 20 c         |
| Clearfield RT7311  | 253.7 a          | 273 a   | 204 a          | 198 b     | 201 a       | 224 ab     | 120 gh       | 211         | 5 c              | 10 cd   | 0 -            | 0 -       | 0 -         | 0 -            | 90 a         | 0 -              | 0 -  | 0 -            | 0 -       | 25 bcd      | 0 -        | 8 f          |
| Clearfield RT7812CL  | 201.9 b-e        | 226 bcd | 187 b          | 223 a     | 197 ab      | 228 a      | 147 b-f      | 201         | 20 c             | 33 b    | 0 -            | 0 -       | 0 -         | 0 -            | 83 a         | 0 -              | 0 -  | 0 -            | 0 -       | 28 a-d      | 0 -        | 13 de        |
| Clearfield XL729   | 204.8 b-e        | 226 bcd | 166 c          | 192 b     | 151 c-h     | 201 c      | 134 c-g      | 182         | 38 bc            | 13 bcd  | 0 -            | 0 -       | 0 -         | 0 -            | 18 d         | 0 -              | 0 -  | 0 -            | 0 -       | 40 ab       | 0 -        | 38 a         |
| XP 753   | 256.6 a          | 282 a   | 185 b          | 200 b     | 183 abc     | 228 a      | 136 c-g      | 210         | 7.5 c            | 15 bcd  | 0 -            | 0 -       | 0 -         | 0 -            | 63 bc        | 0 -              | 0 -  | 0 -            | 0 -       | 23 bcd      | 0 -        | 15 d         |
| XP 760   | 184.1 c-g        | 196 efg | 200 a          | 213 a     | 173 a-e     | 229 a      | 131 efg      | 189         | 50 ab            | 65 a    | 0 -            | 0 -       | 0 -         | 0 -            | 75 ab        | 0 -              | 0 -  | 0 -            | 0 -       | 33 abc      | 0 -        | 20 c         |
| LSD P=.10  | 19.78            | 16.99   | 10.62          | 12.39     | 20.40       | 11.25      | 14.71        |             | 20.62            | 14.86   | .              | .         | 2.88        | .              | 15.53        | .                | .    | .              | .         | 14.36       | .          | 4.00         |
| Standard Deviation   | 14.02            | 12.04   | 9.01           | 10.51     | 14.46       | 7.97       | 10.42        |             | 14.62            | 10.54   | 0              | 0         | 2.04        | 0              | 11.01        | 0                | 0    | 0              | 0         | 10.18       | 0          | 2.83         |
| CV   | 7.34             | 5.77    | 5.67           | 6.36      | 9.45        | 4.56       | 7.33         |             | 83.55            | 93.65   | 0              | 0         | 979.8       | 0              | 52.58        | 0                | 0    | 0              | 0         | 46.52       | 0          | 43.88        |
| Bartlett's X2  | 32.307           | 26.647  | 32.165         | 36.601    | 28.186      | 28.893     | 24.502       |             | 21.788           | 11.225  | 0              | 0         | 0           | 0              | 28.564       | 0                | 0    | 0              | 0         | 25.804      | 0          | 1.337        |
| P(Bartlett's X2)   | 0.094            | 0.271   | 0.097          | 0.036*    | 0.209       | 0.184      | 0.376        |             | 0.113            | 0.261   | .              | .         | .           | .              | 0.001*       | .                | .    | .              | .         | 0.31        | .          | 0.931        |
| Skewness   | 0.3426           | 0.4101  | 0.3692         | 0.381     | 0.009       | 0.2468     | -0.337       |             | 1.1856*          | 1.9496* | .              | .         | 9.798*      | .              | 1.1648*      | .                | .    | .              | .         | 0.49        | .          | 1.7218*      |
| Kurtosis   | 0.0256           | -0.2297 | 0.3539         | 0.1304    | 0.2797      | -0.5213    | -0.4885      |             | 0.1236           | 2.7897* | .              | .         | 96.0*       | .              | -0.2943      | .                | .    | .              | .         | -0.8379     | .          | 2.0057*      |
| Replicate F  | 0.268            | 5.015   | 9.196          | 16.125    | 7.867       | 1.602      | 5.582        |             | 0.156            | 1.326   | 0              | 0         | 1           | 0              | 0.857        | 0                | 0    | 0              | 0         | 12.405      | 0          | 1.902        |
| Replicate Prob(F)  | 0.8485           | 0.0033  | 0.0001         | 0.0001    | 0.0001      | 0.1971     | 0.0017       |             | 0.9255           | 0.2729  | 1              | 1         | 0.3982      | 1              | 0.4679       | 1                | 1    | 1              | 1         | 0.0001      | 1          | 0.1373       |
| Treatment F  | 18.471           | 28.331  | 24.784         | 29.632    | 10.51       | 67.415     | 8.786        |             | 8.654            | 13.926  | 0              | 0         | 1           | 0              | 31.975       | 0                | 0    | 0              | 0         | 7.583       | 0          | 60.609       |
| Treatment Prob(F)  | 0.0001           | 0.0001  | 0.0001         | 0.0001    | 0.0001      | 0.0001     | 0.0001       |             | 0.0001           | 0.0001  | 1              | 1         | 0.4773      | 1              | 0.0001       | 1                | 1    | 1              | 1         | 0.0001      | 1          | 0.0001       |

Means followed by same letter or symbol do not significantly differ (P=.10, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

\* Adjusted means

# Missouri Rice Research and Merchandising Council

## 2017 Evaluating Dicamba Drift in Rice



| Treatment          | Yield (bu/A)     |   |          |   |                  |     |        |     |            |   |          |   |
|--------------------|------------------|---|----------|---|------------------|-----|--------|-----|------------|---|----------|---|
|                    | Glennonville, MO |   |          |   | Portageville, MO |     |        |     | Lonoke, AR |   |          |   |
|                    | Inbred           |   | Hybrid   |   | Inbred           |     | Hybrid |     | Inbred     |   | Hybrid   |   |
| Untreated Check    | 166.7            | - | 227.1    | a | 93               | b-e | 152.7  | a-e | 129.5      | a | 242.4    | a |
| 1/10x, AP          | 181              | - | 210.4    | a | 110.9            | a-e | 153.4  | a-e | 124.6      | a | 231.5    | a |
| 1/2x, AP           | 183.7            | - | 209.9    | a | 105.1            | a-e | 155.7  | a-d | 130.8      | a | 239.4    | a |
| 1x, AP             | 162.9            | - | 163      | b | 98.3             | a-e | 146.2  | a-e | -          | - | -        | - |
| 1/10x, 3-4 LF      | 177.8            | - | 226.5    | a | 109.1            | a-e | 122.6  | a-e | 134.8      | a | 250.6    | a |
| 1/2x, 3-4 LF       | 185.6            | - | 230.8    | a | 110.9            | a-e | 145    | a-e | 125.3      | a | 232.7    | a |
| 1x, 3-4 LF         | 186.4            | - | 227.3    | a | 102.1            | a-e | 123.6  | a-e | -          | - | -        | - |
| 1/10x, Post Fld    | 159              | - | 223.9    | a | 106.5            | a-e | 137.2  | a-e | 137        | a | 233.6    | a |
| 1/2x, Post Fld     | 196.5            | - | 236.6    | a | 105.4            | a-e | 158.6  | a-d | 118.3      | a | 227.5    | a |
| 1x, Post Fld       | 164.2            | - | 230.3    | a | 105.7            | a-e | 148    | a-e | -          | - | -        | - |
| 1/10x, PI          | -                | - | -        | - | 95.7             | a-e | 143    | a-e | 135.7      | a | 221.2    | a |
| 1/2x, PI           | -                | - | -        | - | 103.8            | a-e | 165.9  | abc | 128.6      | a | 229.3    | a |
| 1x, PI             | -                | - | -        | - | 80.8             | b-e | 142.6  | a-e | -          | - | -        | - |
| 1/10x, PI + 14d    | 178.6            | - | 222.3    | a | 96.4             | a-e | 201.2  | a   | 120.8      | a | 227.8    | a |
| 1/2x, PI + 14d     | 186              | - | 227.1    | a | 74.9             | b-e | 142.4  | a-e | 122.9      | a | 235.9    | a |
| 1x, PI + 14d       | 187              | - | 234.5    | a | 68.4             | cde | 152.8  | a-e | -          | - | -        | - |
| 1/10x, boot        | 179.9            | - | 230.3    | a | 73.4             | cde | 184.1  | ab  | 109.3      | a | 231.8    | a |
| 1/2x, boot         | 166              | - | 219.4    | a | 54.5             | de  | 99.8   | a-e | 114.3      | a | 228.1    | a |
| 1x, boot           | 174.2            | - | 229.1    | a | 45.6             | e   | 79.4   | b-e | -          | - | -        | - |
| 1/10x, flowering   | -                | - | -        | - | 82.2             | b-e | 157    | a-d | 97.8       | a | 231.7    | a |
| 1/2x, flowering    | -                | - | -        | - | 64.9             | cde | 121    | a-e | 68.3       | b | 160.9    | b |
| 1x, flowering      | -                | - | -        | - | 55.9             | cde | 115.5  | a-e | -          | - | -        | - |
| LSD P=.05          | 25.68            |   | 18.63    |   | 54.65            |     |        |     | 22.62      |   | 23.42    |   |
| Standard Deviation | 18.18            |   | 13.14    |   | 39.06            |     |        |     | 15.85      |   | 16.41    |   |
| CV                 | 10.17            |   | 5.93     |   | 33.81            |     |        |     | 13.22      |   | 7.19     |   |
| Bartlett's X2      | 47.595           |   | 30.153   |   | 64.679           |     |        |     | 14.998     |   | 16.716   |   |
| P(Bartlett's X2)   | 0.001*           |   | 0.089    |   | 0.018*           |     |        |     | 0.378      |   | 0.272    |   |
| Skewness           | -0.4068          |   | -1.9335* |   | 0.9461*          |     |        |     | -0.7906*   |   | -1.5071* |   |
| Kurtosis           | 1.2264*          |   | 5.9777*  |   | 1.3819*          |     |        |     | 0.4902     |   | 2.7499*  |   |
| Replicate F        | 5.438            |   | 7.484    |   | 2.058            |     |        |     | 0.119      |   | 0.976    |   |
| Replicate Prob(F)  | 0.0022           |   | 0.0003   |   | 0.109            |     |        |     | 0.9482     |   | 0.4132   |   |
| Treatment F        | 1.244            |   | 4.948    |   | 3.418            |     |        |     | 5.009      |   | 5.889    |   |
| Treatment Prob(F)  | 0.2486           |   | 0.0001   |   | 0.0001           |     |        |     | 0.0001     |   | 0.0001   |   |

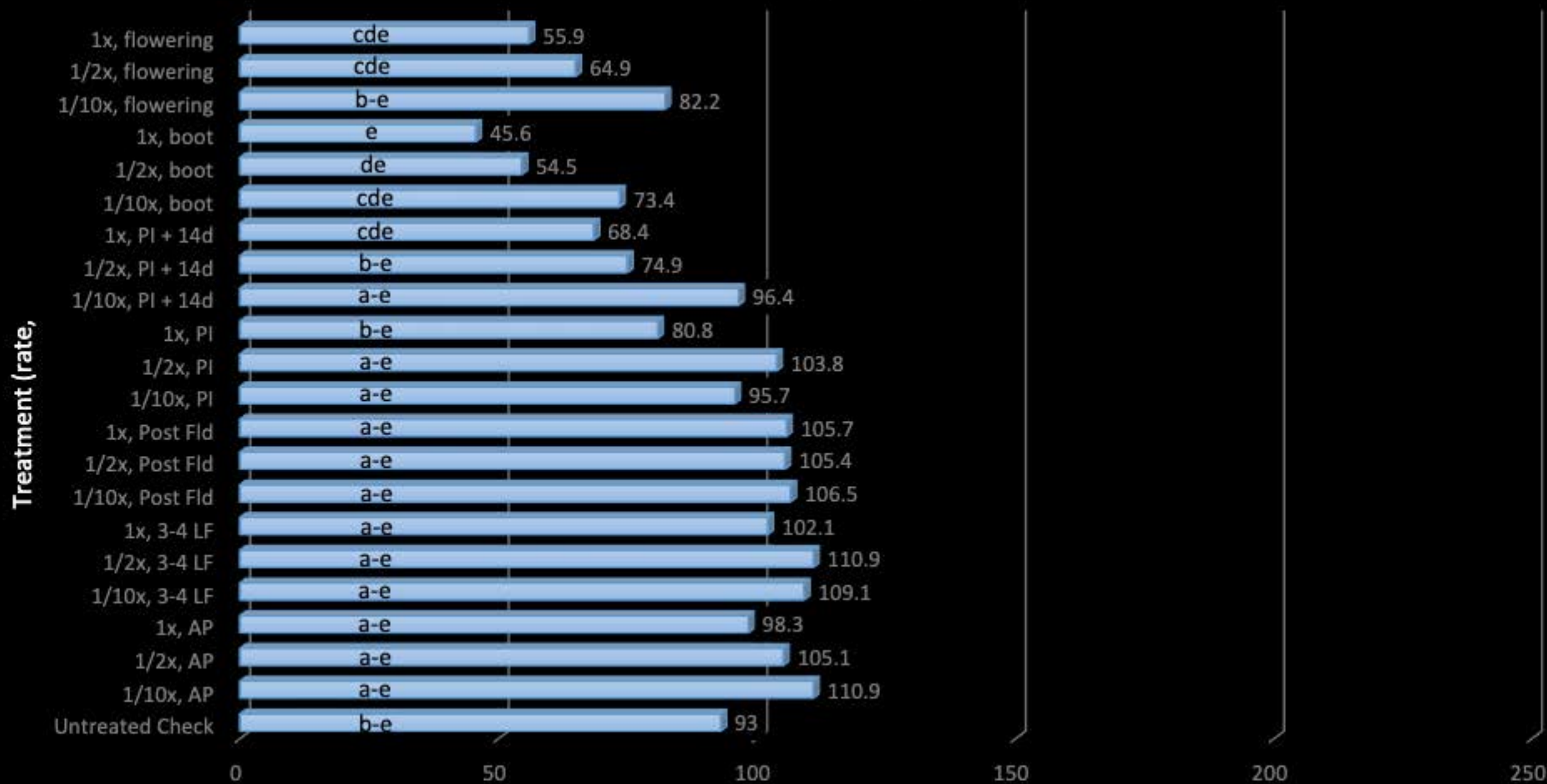
Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

\* Adjusted means



## 2017 Evaluating Dicamba Drift in Rice Inbred - Portageville, MO

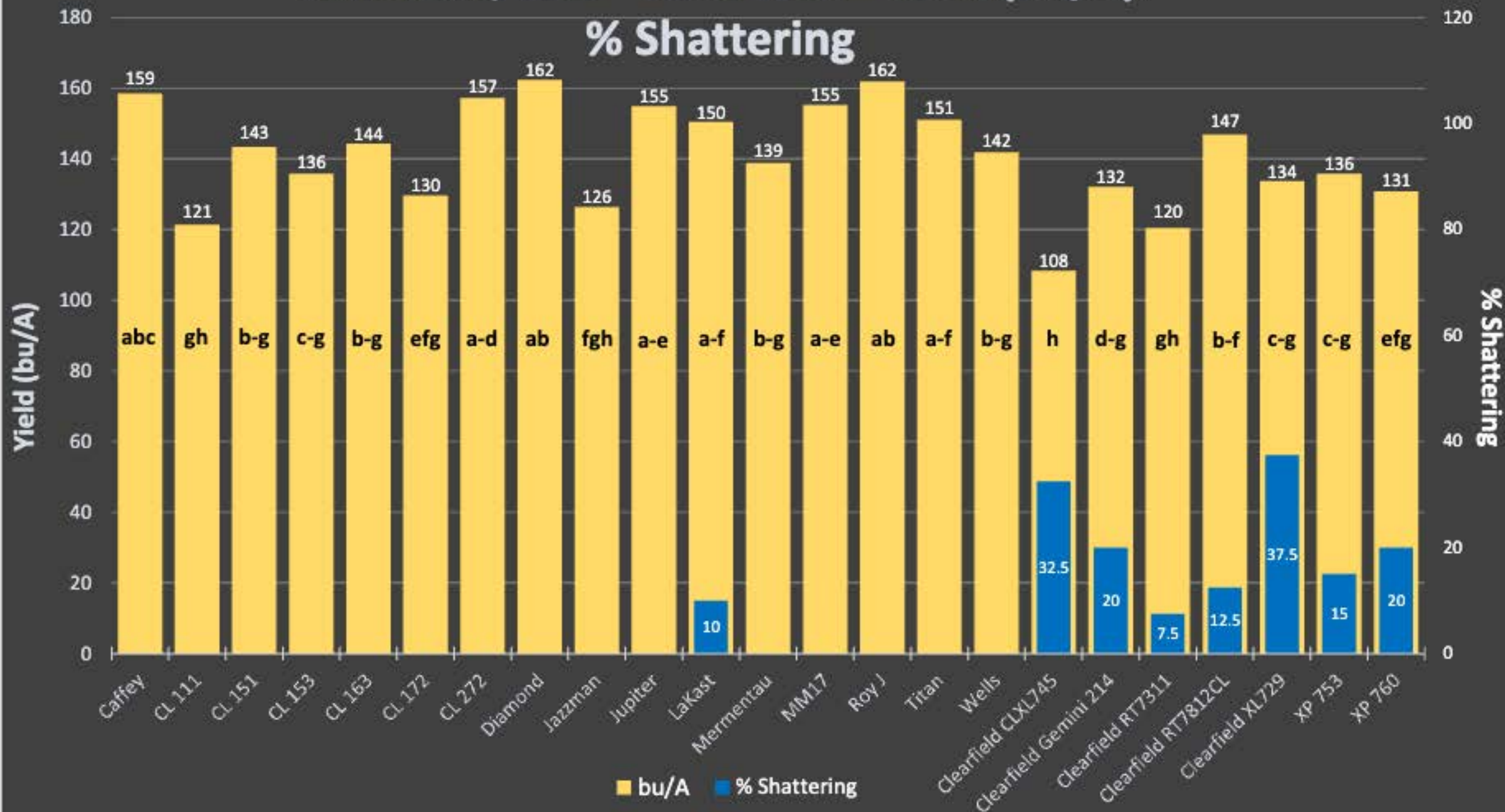


\*Means with same letter or symbol do not significantly differ  
(P=.05, Student-Newman-Keuls)

Yield (bu/A)

# Vanduser, MO - Yield Trial - Yield (bu/A),

## % Shattering



Planted: 23-MAY-2017

Harvest: 26-OCT-2017

Nitrogen: 120 units @ flood

County: Scott County

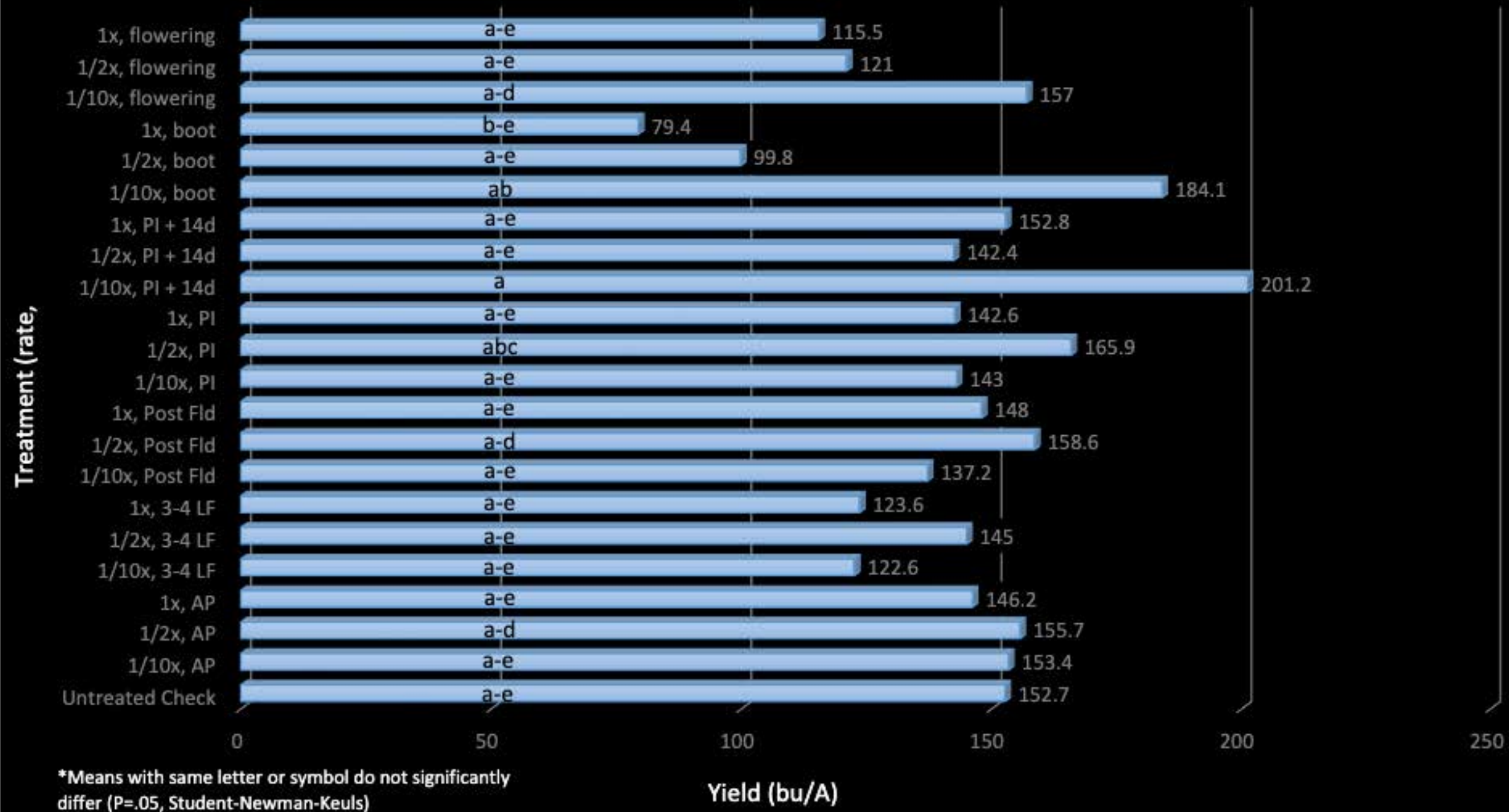
Soil Type: Silty Clay

Latitude: 36.92866

Longitude: -89.76068

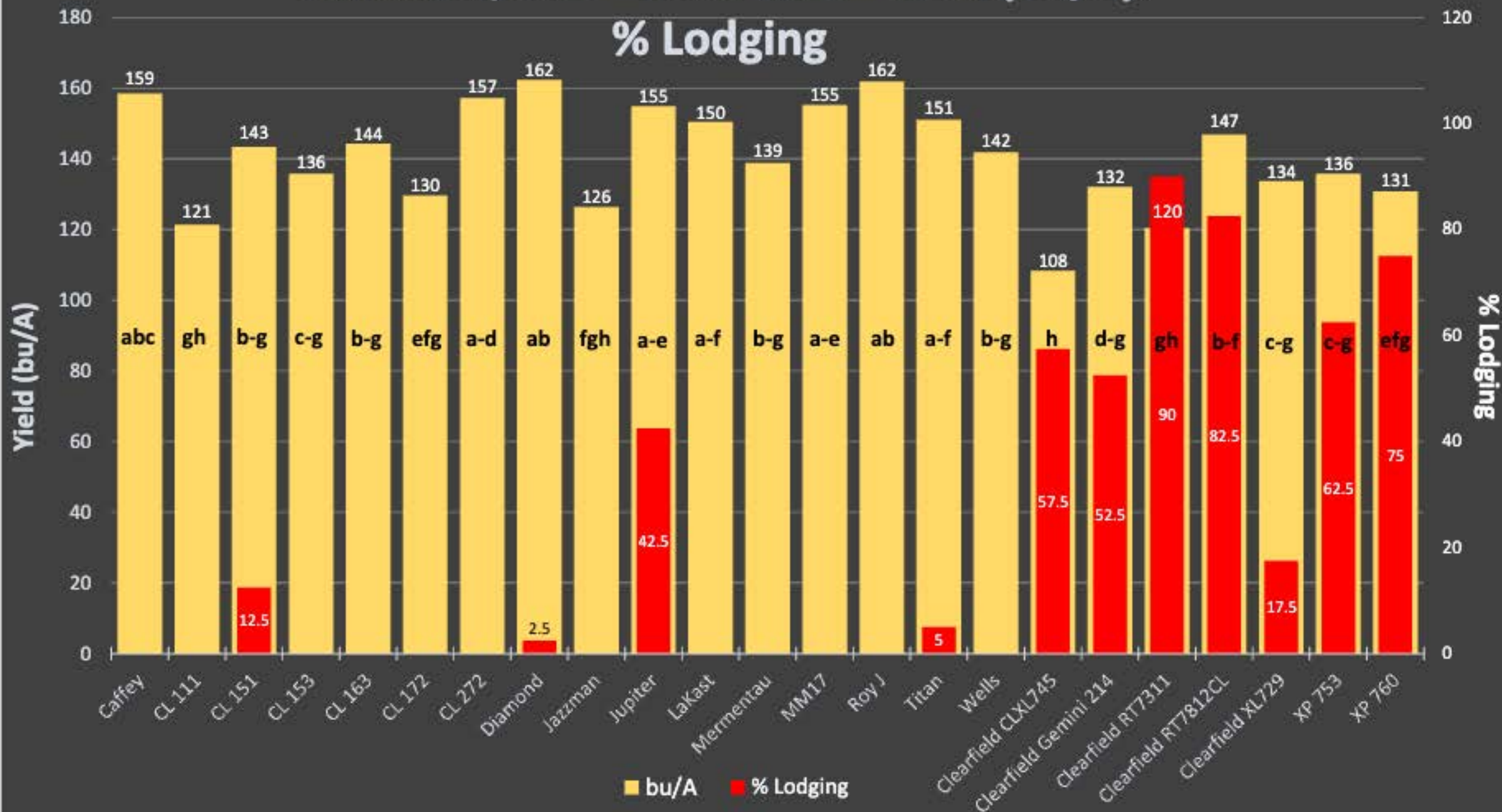
\* Means with same letter are not statistically different

## 2017 Evaluating Dicamba Drift in Rice Hybrid - Portageville, MO



# Vanduser, MO - Yield Trial - Yield (bu/A),

## % Lodging



Planted: 23-MAY-2017

Harvest: 26-OCT-2017

Nitrogen: 120 units @ flood

County: Scott County

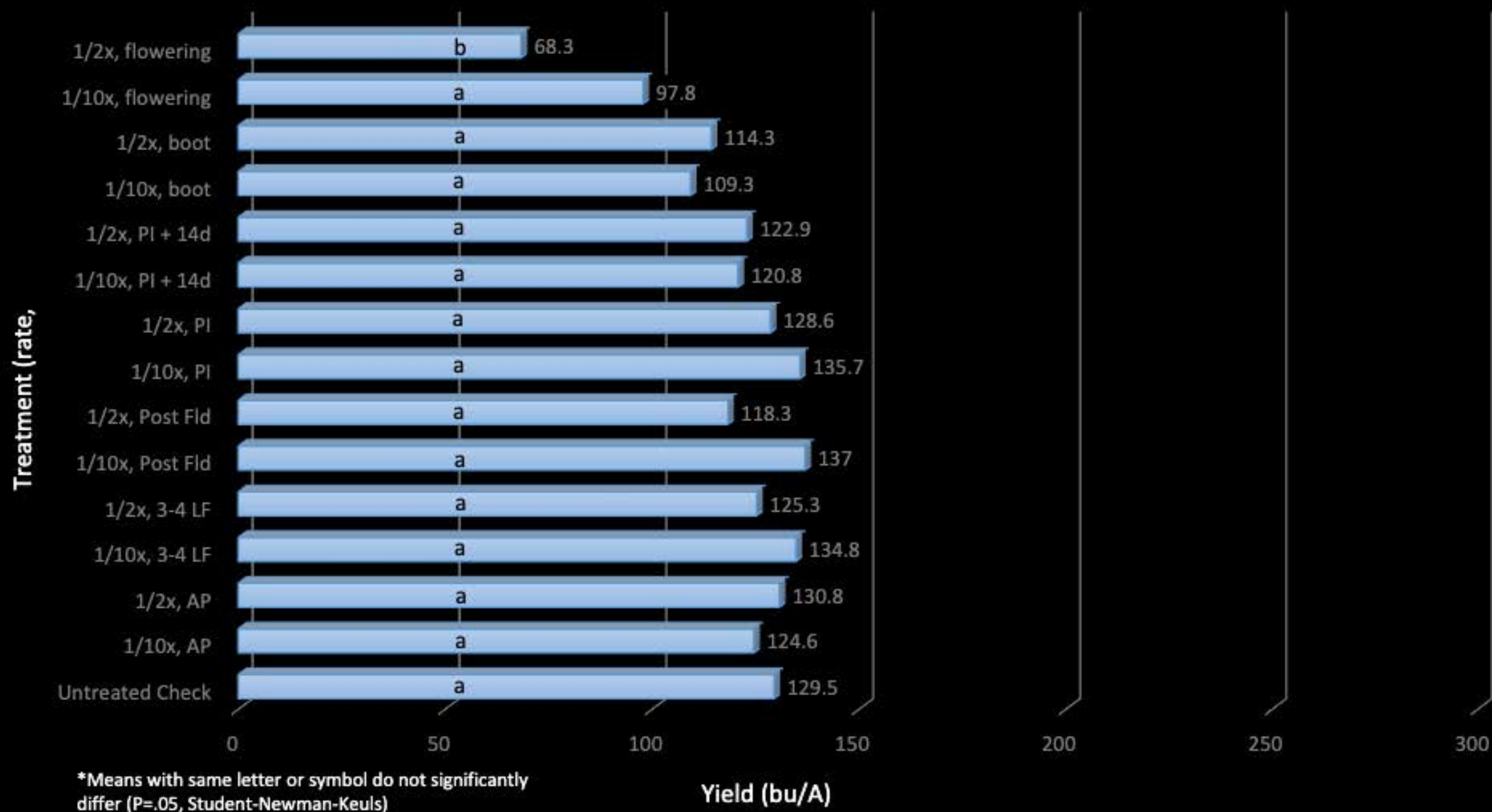
Soil Type: Silty Clay

Latitude: 36.92866

Longitude: -89.76068

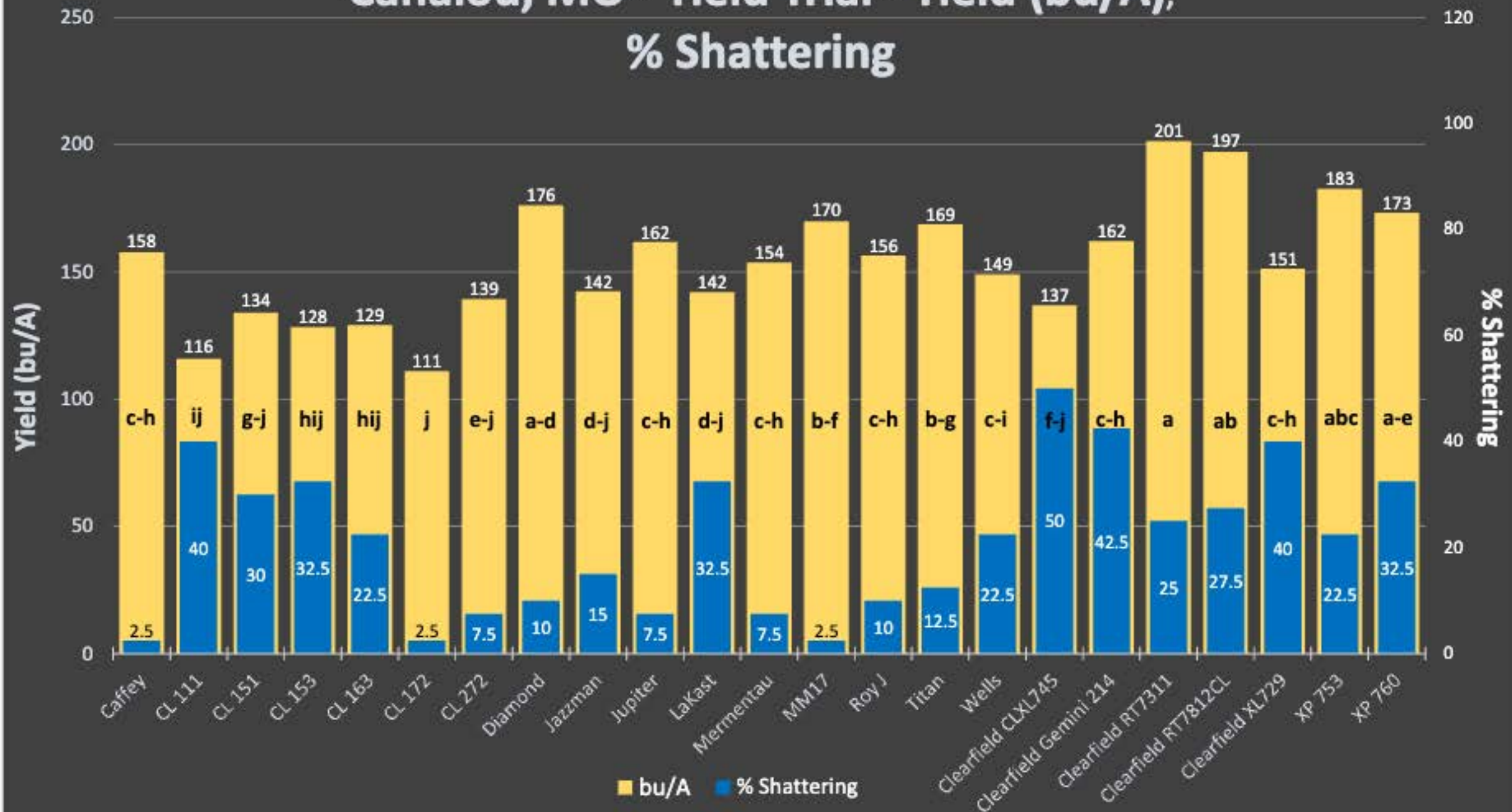
\* Means with same letter are not statistically different

## 2017 Evaluating Dicamba Drift in Rice Inbred - Lonoke, AR





## Canalou, MO - Yield Trial - Yield (bu/A), % Shattering



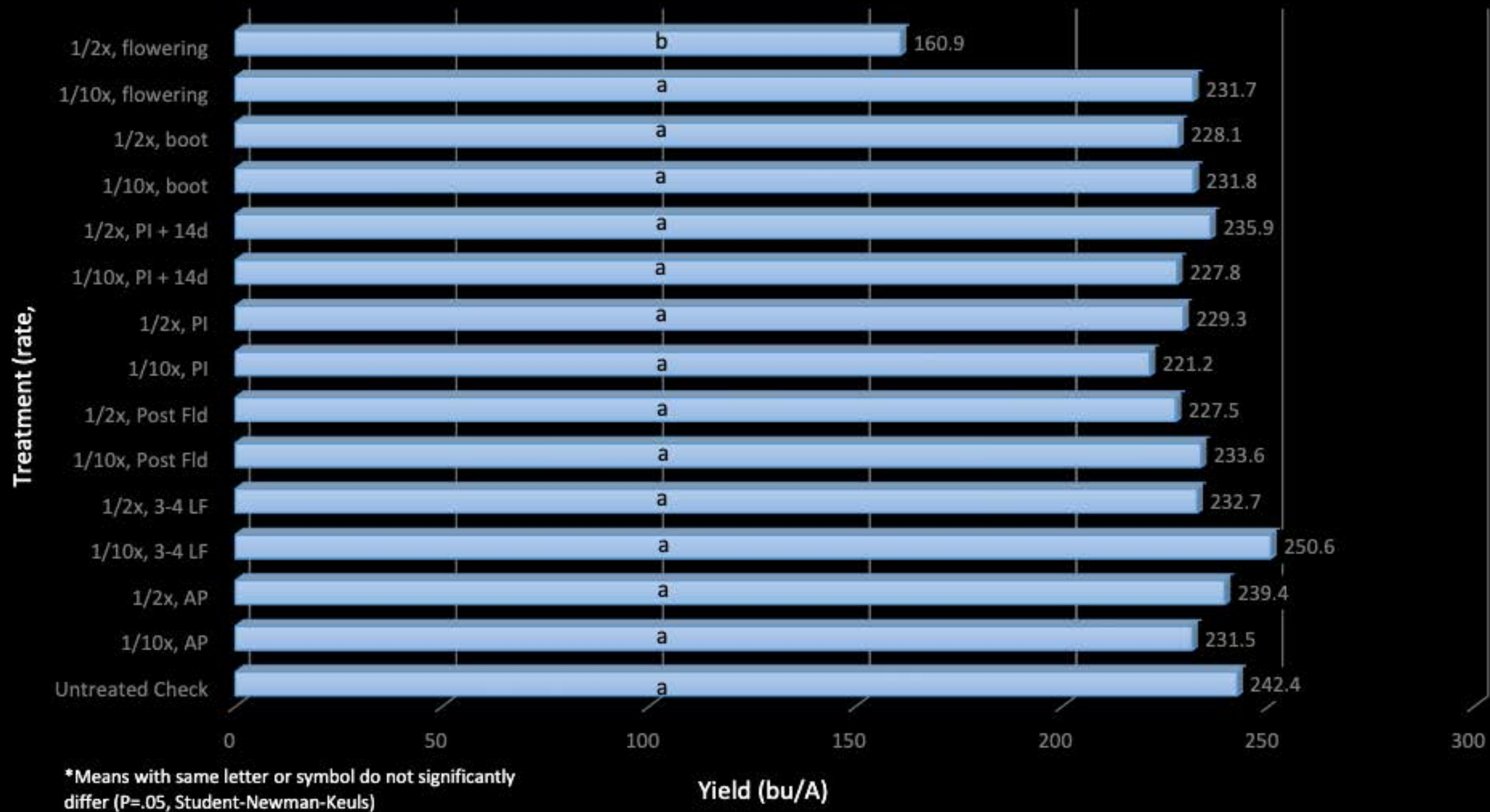
Planted: 11-MAY-2017  
 Harvest: 26-OCT-2017  
 Nitrogen: 150 units @ flood

County: New Madrid  
 Soil Type: Silty Clay

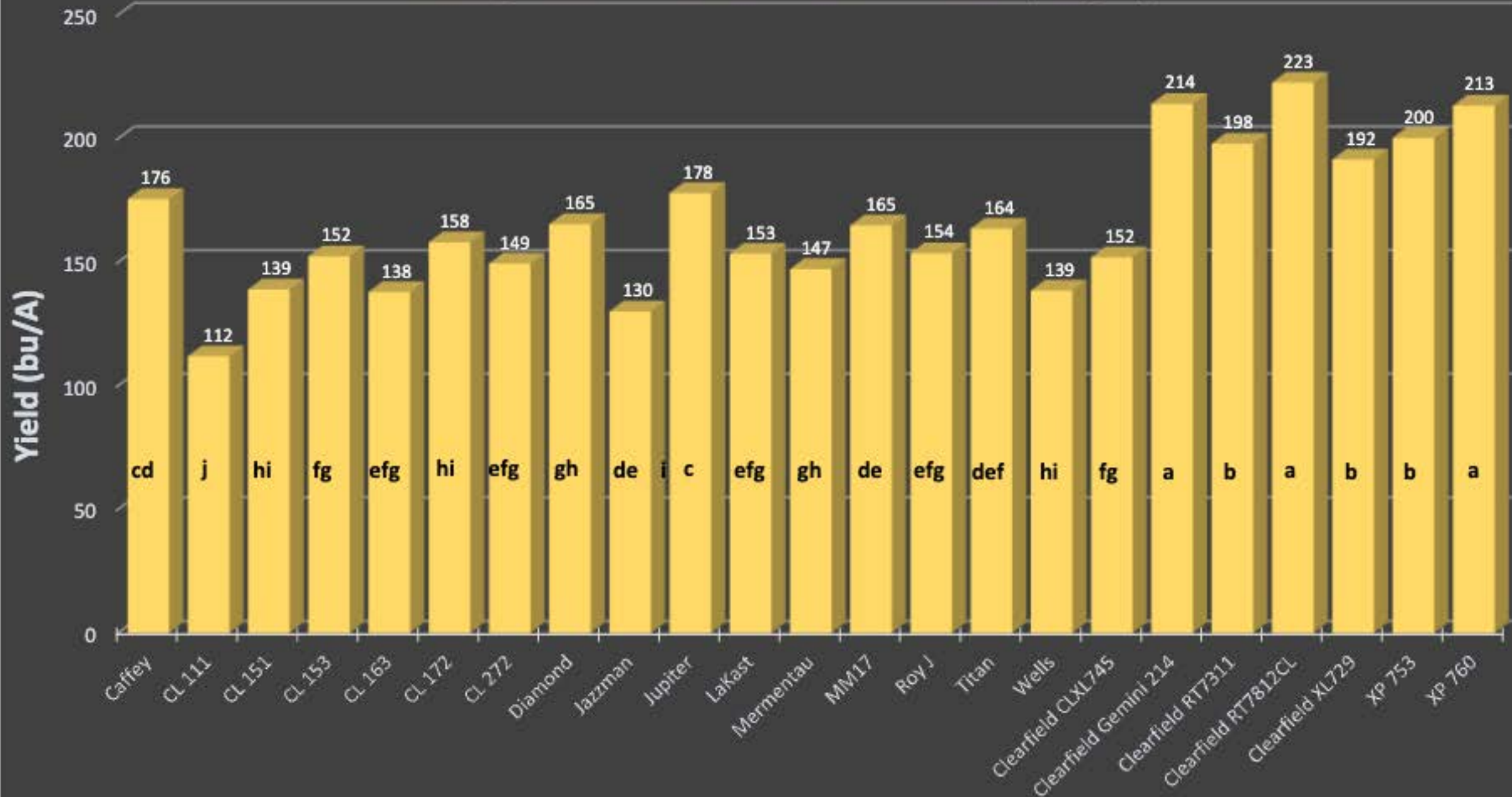
Latitude: 36.80445  
 Longitude: -89.68471

*\*Means with same letter are not statistically different*

## 2017 Evaluating Dicamba Drift in Rice Hybrid - Lonoke, AR



## Rives, MO - Yield Trial - Yield (bu/A)



**Planted:** 13-APR -2017

**Harvest:** 21-SEP-2017

**Nitrogen:** 120 units @ flood

**County:** Dunklin

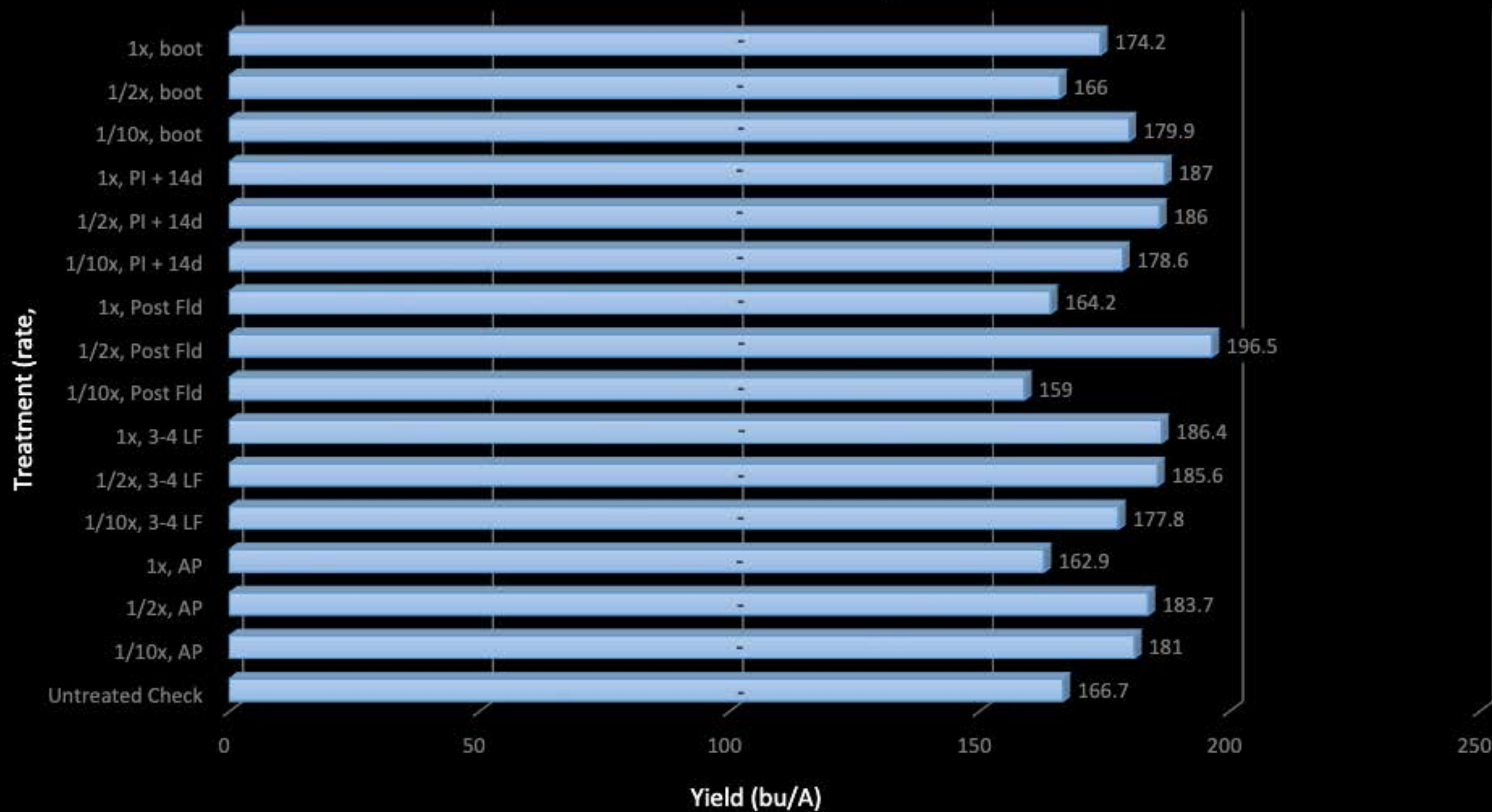
**Soil Type:** Silty Clay

**Latitude:** 36.04488

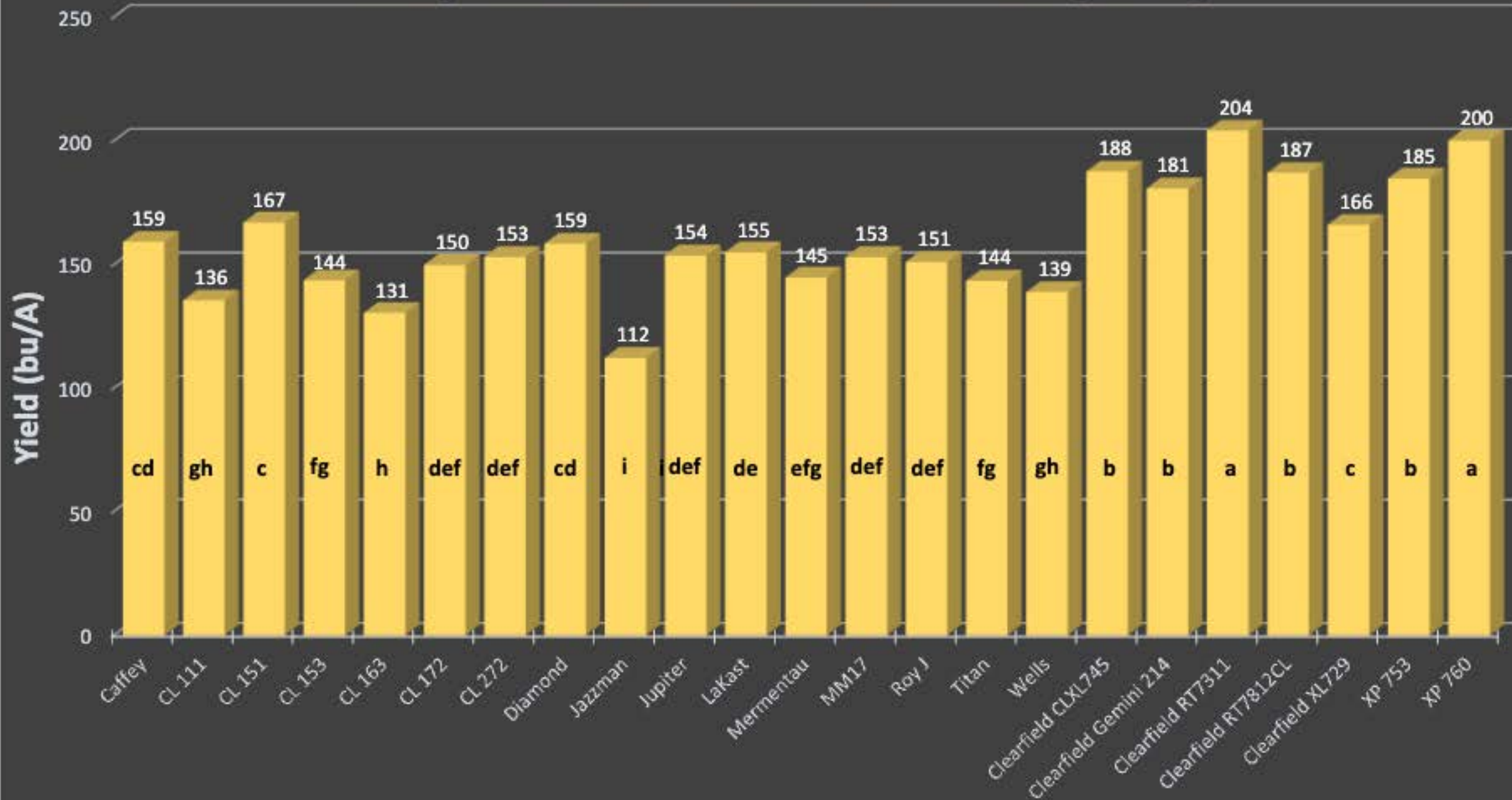
**Longitude:** -90.03392

*\* Means with same letter are not statistically different*

## 2017 Evaluating Dicamba Drift in Rice Inbred - Glennonville, MO



## Neelyville, MO - Yield Trial - Yield (bu/A)



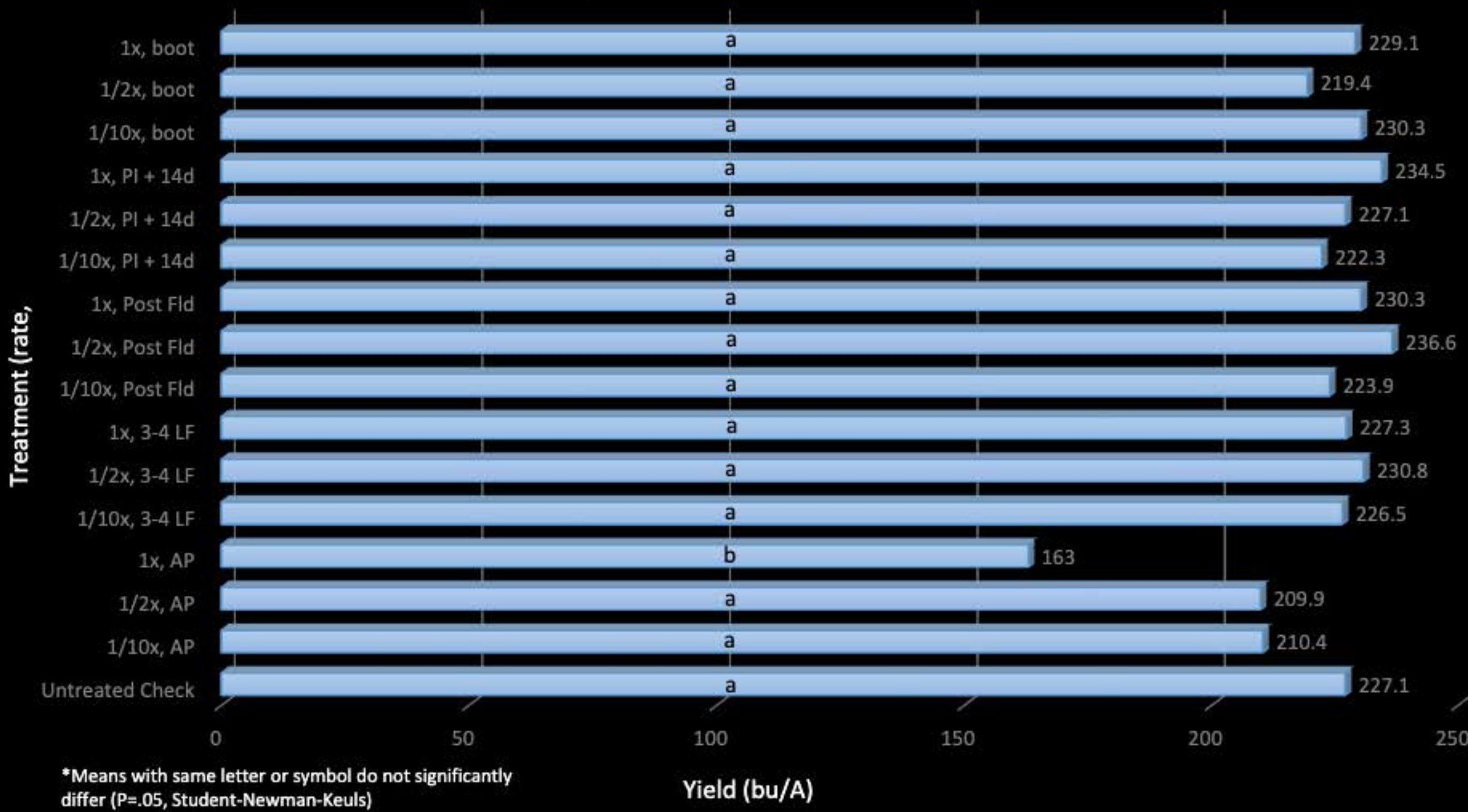
Planted: 14-APR -2017  
 Harvest: 11-SEP-2017  
 Nitrogen: 150 units @ flood

County: Butler  
 Soil Type: Silt Loam

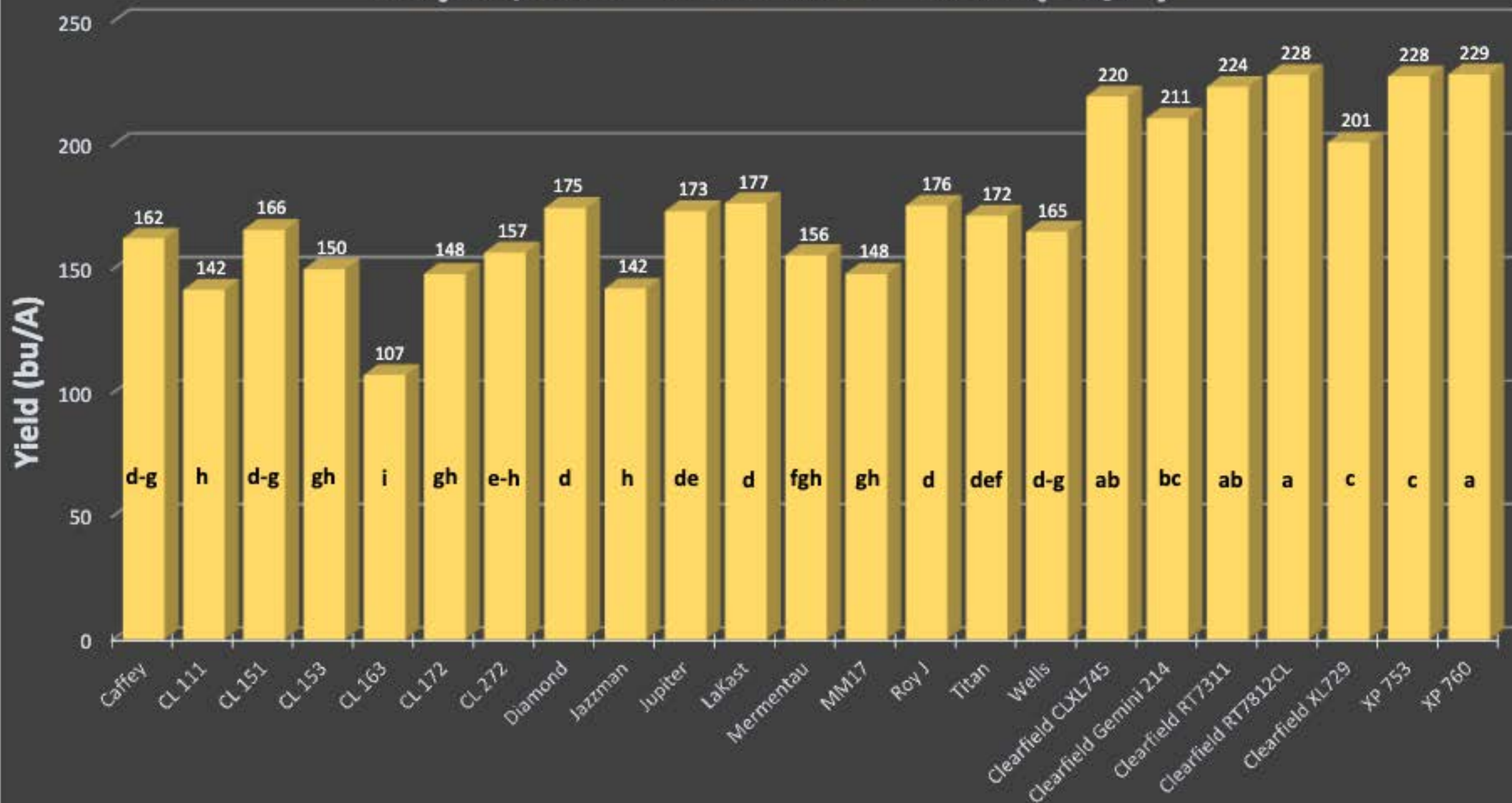
Latitude: 36.60580  
 Longitude: -90.48914

*\*Means with same letter are not statistically different*

## 2017 Evaluating Dicamba Drift in Rice Hybrid - Glennonville, MO



## Naylor, MO - Yield Trial - Yield (bu/A)



**Planted:** 14-APR-2017

**Harvest:** 26-SEP-2017

**Nitrogen:** 120 units @ flood / 30 units @ mid-season

**County:** Butler

**Soil Type:** Sandy Loam

**Latitude:** 36.51731

**Longitude:** -90.57669

*\* Means with same letter are not statistically different*