

Trial Info.



- Planted: May 10, 2024
- Inoculated: July 10, 2024
- Harvested: September 27, 2024
- Location: Meadows Twp, Wilkin County, MN
- Variety: ACH 290 (CR+)
 - CLS Rating = 2.36

- Objective: Evaluate the yield and quality response (if any) of applying differing fungicide tank mixtures.

Treatment List:



MDFC 1:

(Proline as first triazole)

1. Manzate (7/10/24)
2. Proline + NIS + Manzate (7/18/24)
3. AgriTin + Manzate (8/13/24)
4. Provysol + Manzate (8/29/24)

MDFC 2:

(Provysol as first triazole)

1. Manzate (7/10/24)
2. Provysol+ Manzate (7/18/24)
3. AgriTin + Manzate (8/13/24)
4. Proline + NIS + Manzate (8/29/24)

Badge:

(Badge as the tank mix partner)

1. Badge (7/10/24)
2. Proline + NIS + Badge (7/18/24)
3. AgriTin + Badge (8/13/24)
4. Provysol + Badge (8/29/24)

ET-F:

(ET-F as the tank mix partner)

1. ET-F (7/10/24)
2. Proline + NIS + ET-F (7/18/24)
3. AgriTin + ET-F (8/13/24)
4. Provysol + ET-F (8/29/24)

Treatment List:



PREV-AM:

(PREV-AM in each application)

1. Manzate + PREV-AM (7/10/24)
2. Proline + NIS + Manzate + PREV-AM (7/18/24)
3. AgriTin + Manzate + PREV-AM (8/13/24)
4. Provysol + Manzate + PREV-AM (8/29/24)

Tins:

(EBDC @ row closure, tins only)

1. Manzate (7/10/24)
2. AgriTin + Manzate (7/18/24)
3. AgriTin + Manzate (8/13/24)
4. AgriTin + Manzate (8/29/24)

Triazoles:

(EBDC @ row closure, triazoles only)

1. Manzate (7/10/24)
2. Proline + NIS + Manzate (7/18/24)
3. Propulse + Manzate (8/13/24)
4. Provysol + Manzate (8/29/24)

Headline 1:

(Headline @ row closure, then MDFC recommended program)

1. Headline (7/10/24)
2. Proline + NIS + Manzate (7/18/24)
3. AgriTin + Manzate (8/13/24)
4. Provysol + Manzate (8/29/24)

Treatment List:



Headline 2:

(Headline as first triazole)

1. Manzate (7/10/24)
2. Headline+ Manzate (7/18/24)
3. AgriTin + Manzate (8/13/24)
4. Provysol + Manzate (8/29/24)

CN:

(CN in all applications)

1. Manzate + CN (7/10/24)
2. Proline + NIS + Manzate + CN (7/18/24)
3. AgriTin + Manzate + CN (8/13/24)
4. Provysol + Manzate + CN (8/29/24)

OG:

(OG in all applications)

1. Manzate + OG (7/10/24)
2. Proline + NIS + Manzate + OG (7/18/24)
3. AgriTin + Manzate + OG (8/13/24)
4. Provysol + Manzate + OG (8/29/24)

Untreated Check:

(no fungicide applications)



<i>Applications</i>				
<i>Date:</i>	Jul-10-2024	Jul-18-2024	Aug-13-2024	Aug-29-2024
<i>Start Time:</i>	10:50 AM	11:28 AM	9:30 AM	7:10 PM
<i>End Time:</i>	11:20 AM	11:57 AM	10:05 AM	7:35 PM
<i>Application Method:</i>	Spray	Spray	Spray	Spray
<i>Application Timing:</i>	Preventative	Fixed Interval	Fixed Interval	Fixed Interval
<i>Application Placement:</i>	Foliar	Foliar	Foliar	Foliar
<i>Temperature (F):</i>	78	73	67	71
<i>Humidity (%):</i>	61	60	74	63
<i>Wind Velocity (MPH):</i>	6	5	3	4
<i>Wind Direction:</i>	NNE	SSW	SE	WNW

CLS Rating Scale



Category 1
1-5 spots/leaf
0.1% severity



Category 2
6-12 spots/leaf
0.35% severity



Category 3
13-25 spots/leaf
0.75% severity



Category 4
26-50 spots/leaf
1.5% severity



Category 5
51-75 spots/leaf
2.5% severity



Category 6
3% severity
PROVEN ECONOMIC DAMAGE



Category 7
6% severity



Category 8
12% severity



Category 9
25% severity



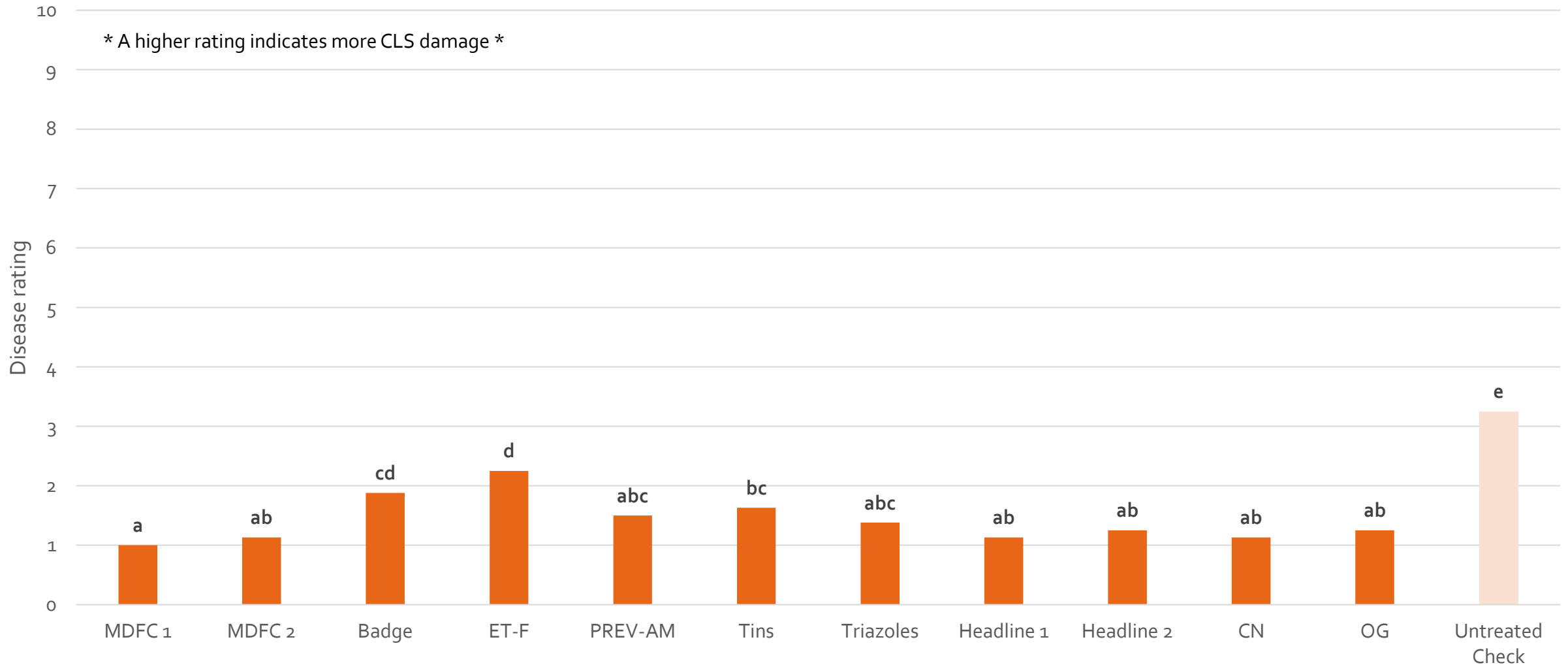
Category 10
50% severity

CLS Fungicide Program

LSD (p=0.10): 0.52
CV: 27.71



CLS Rating – August 7, 2024



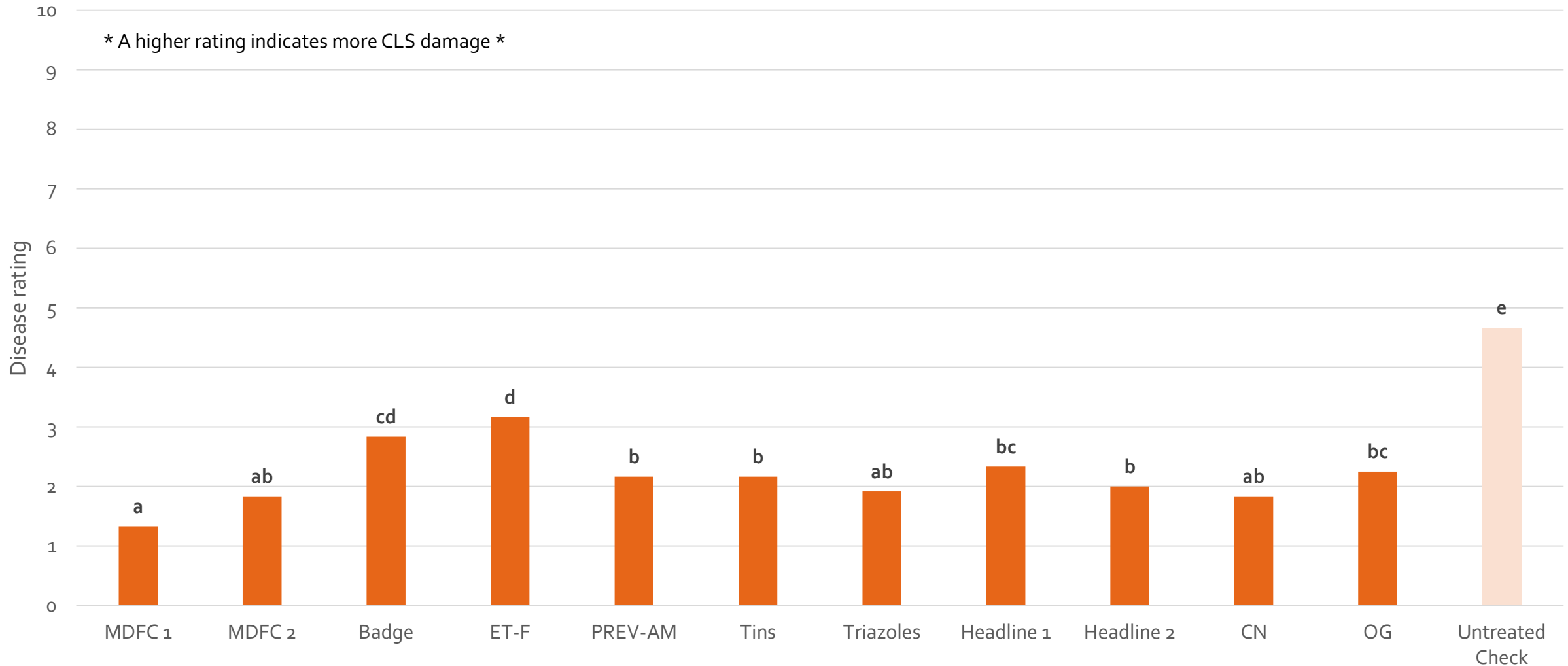
Treatments with the same letter are not statistically different

CLS Fungicide Program

LSD (p=0.10): 0.65
CV: 22.80



CLS Rating – August 13, 2024



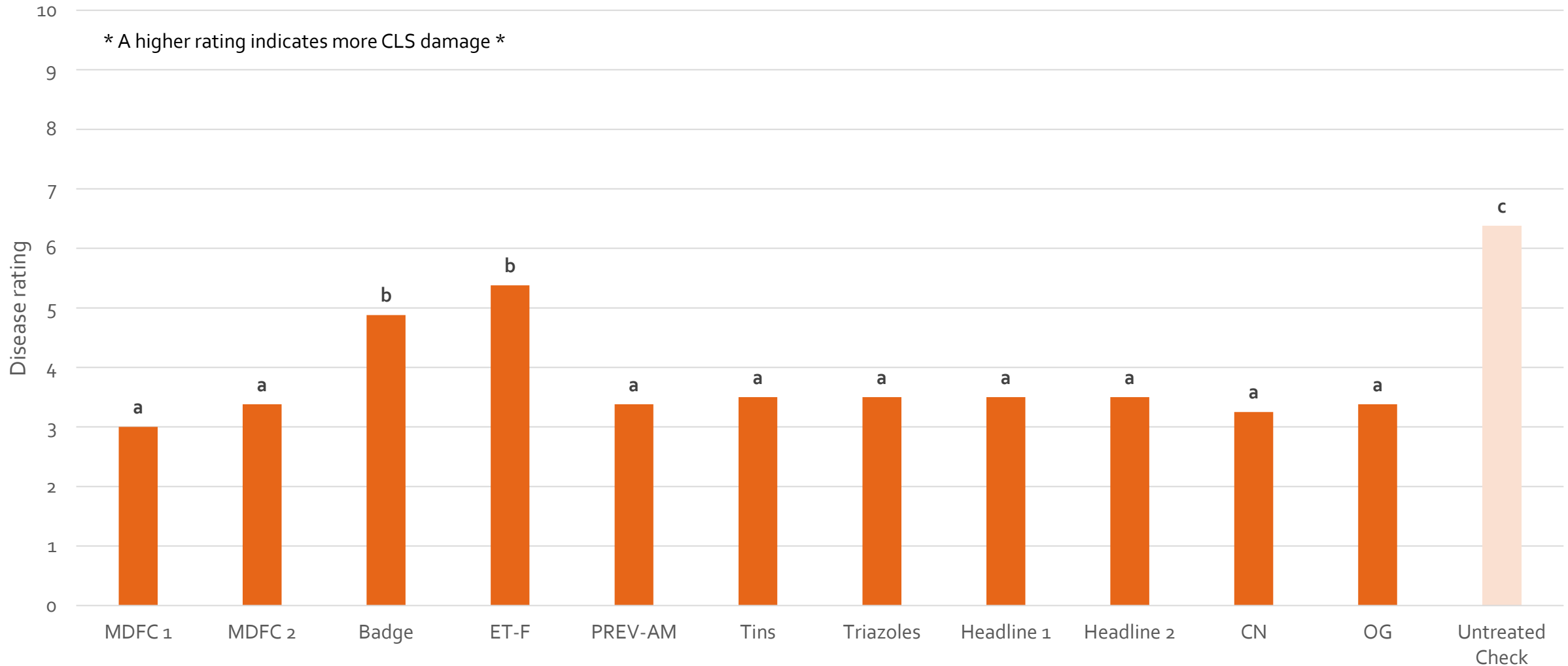
Treatments with the same letter are not statistically different

CLS Fungicide Program

LSD (p=0.10): 0.64
CV: 13.61



CLS Rating – August 20, 2024



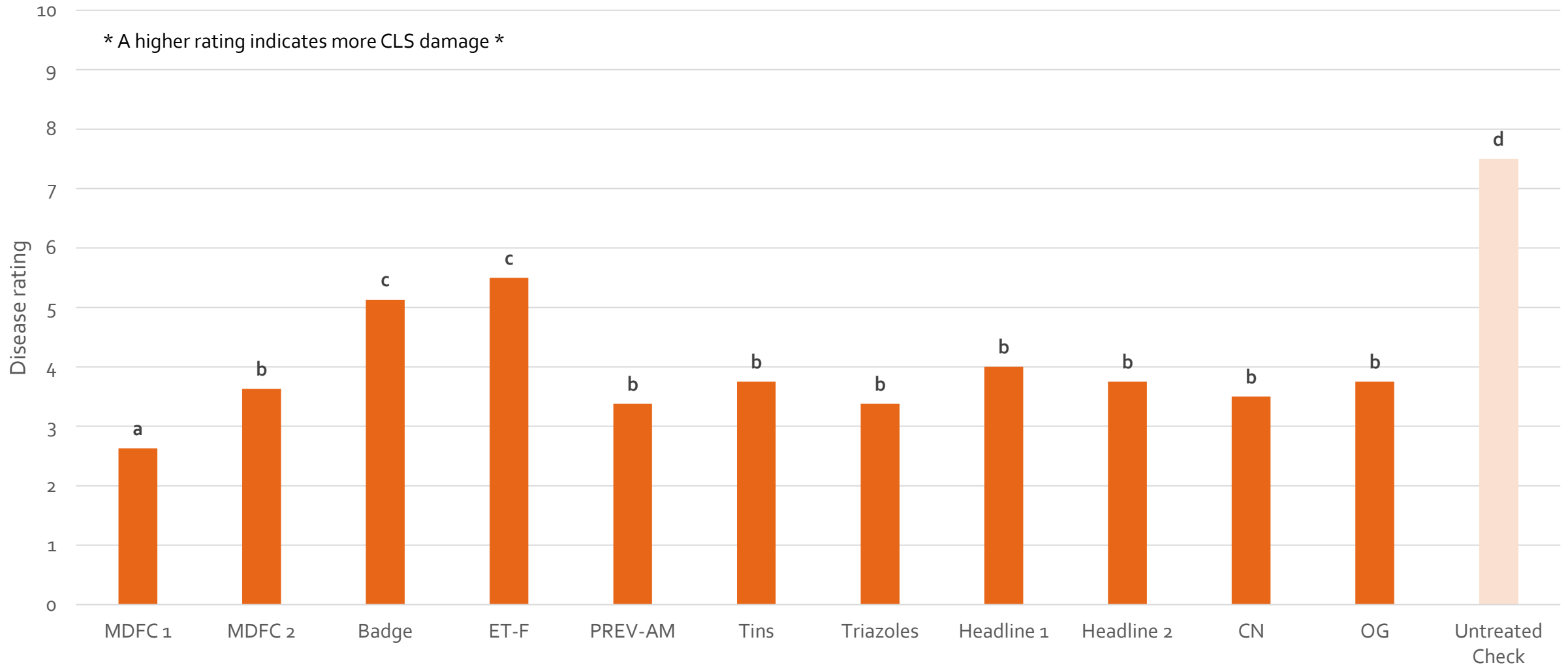
Treatments with the same letter are not statistically different

CLS Fungicide Program

LSD (p=0.10): 0.74
CV: 14.88



CLS Rating – August 23, 2024



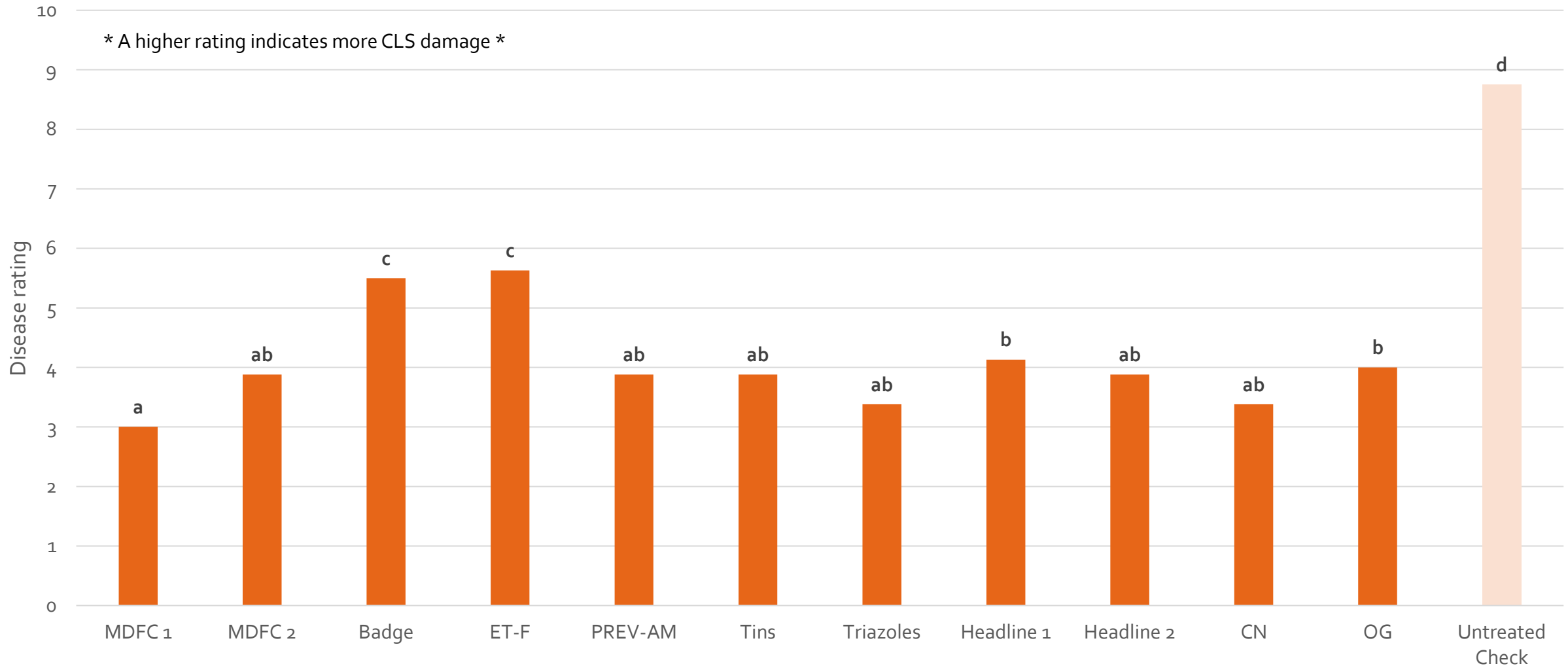
Treatments with the same letter are not statistically different

CLS Fungicide Program

LSD (p=0.10): 0.92
CV: 17.41



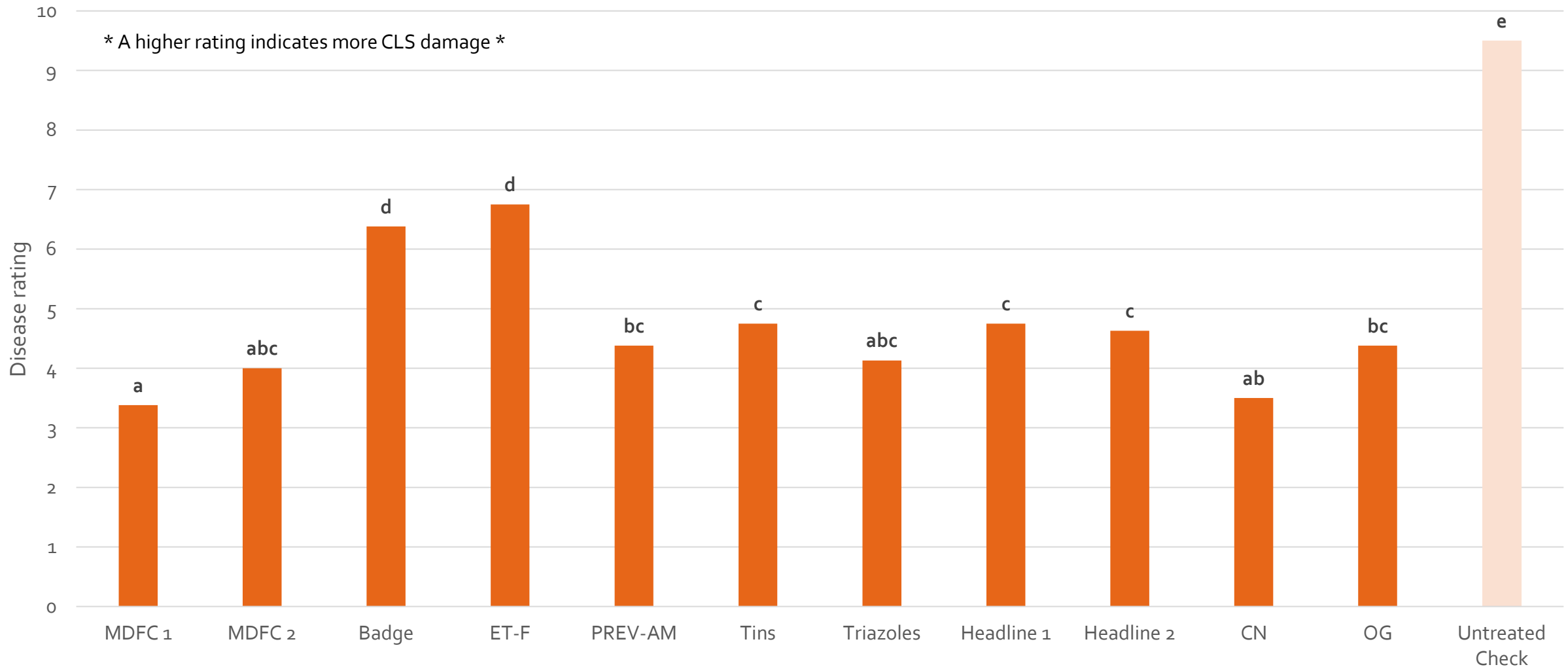
CLS Rating – August 27, 2024



Treatments with the same letter are not statistically different

CLS Fungicide Program

CLS Rating – September 3, 2024



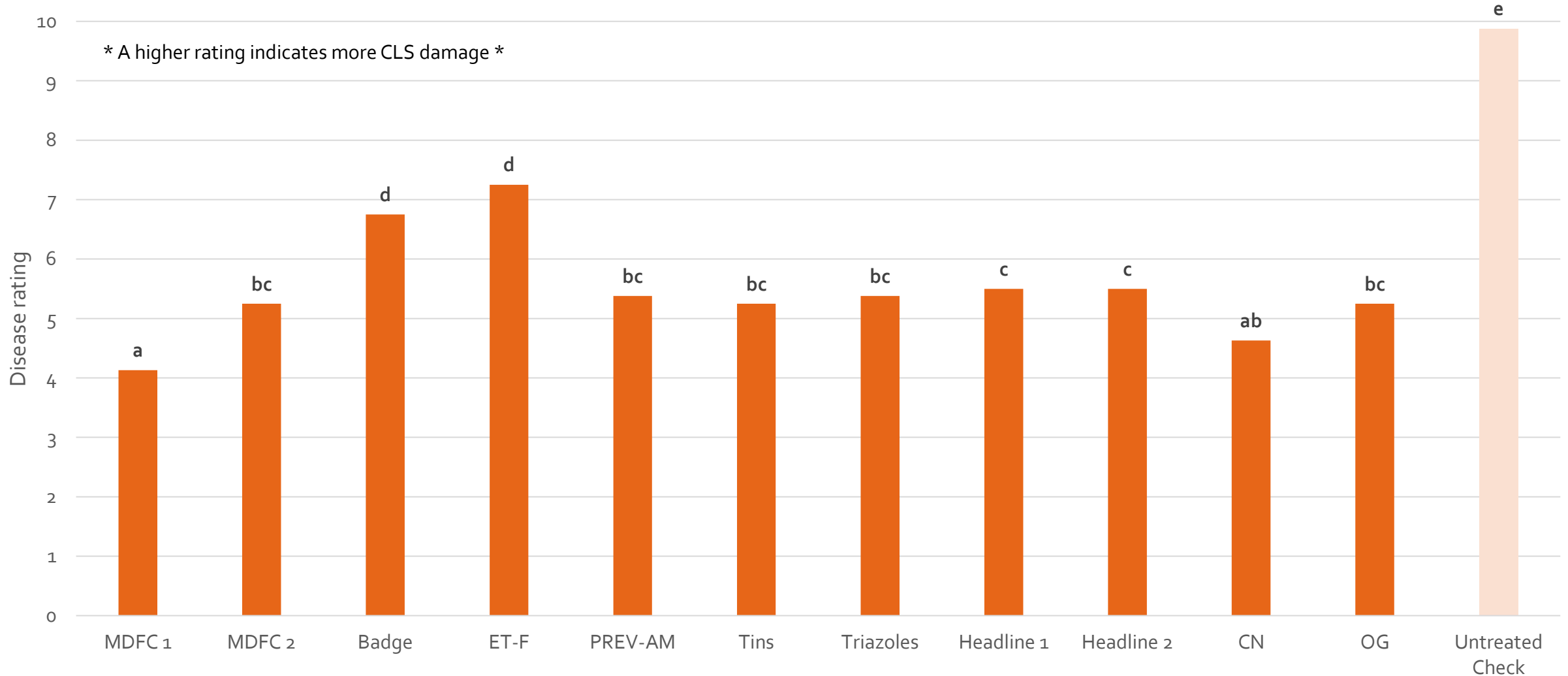
Treatments with the same letter are not statistically different

CLS Fungicide Program



LSD (p=0.10): 0.77
CV: 10.95

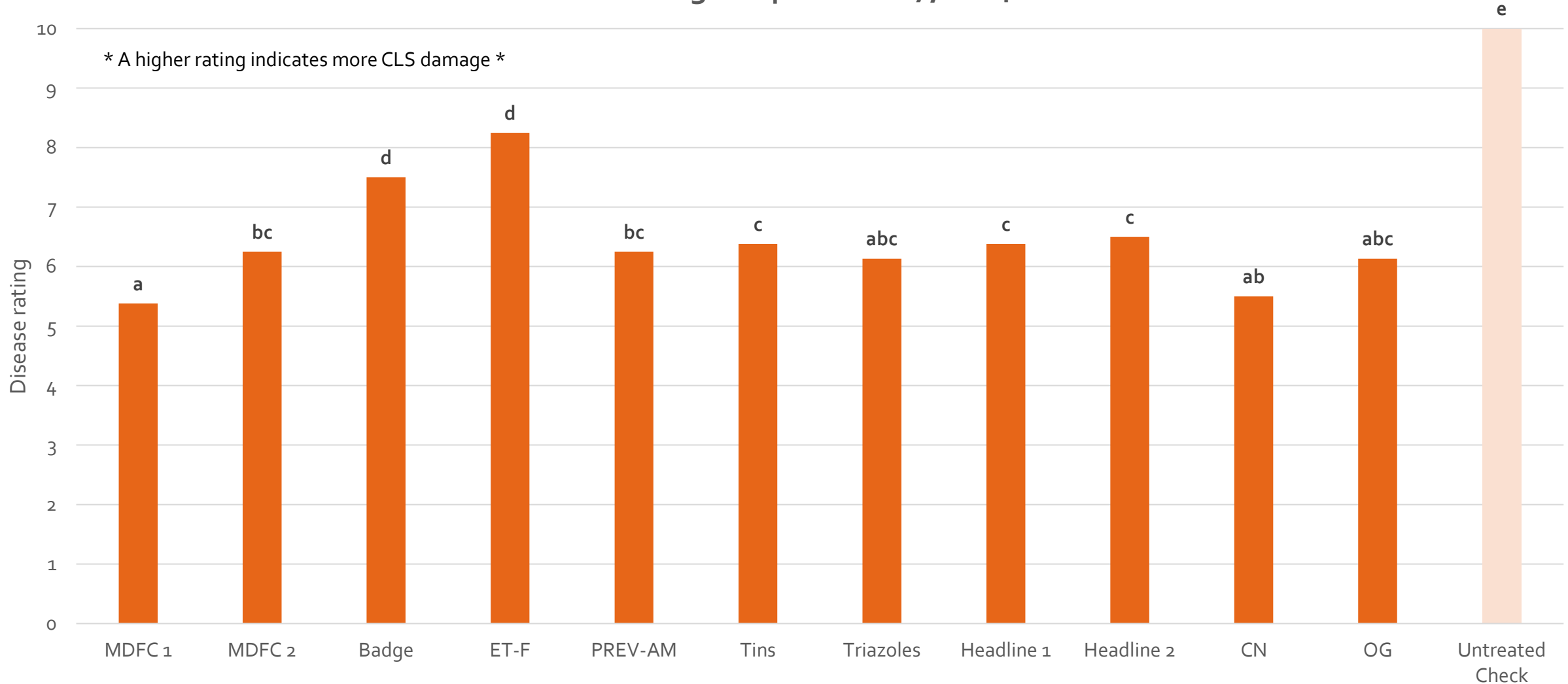
CLS Rating – September 10, 2024



Treatments with the same letter are not statistically different

CLS Fungicide Program

CLS Rating – September 17, 2024

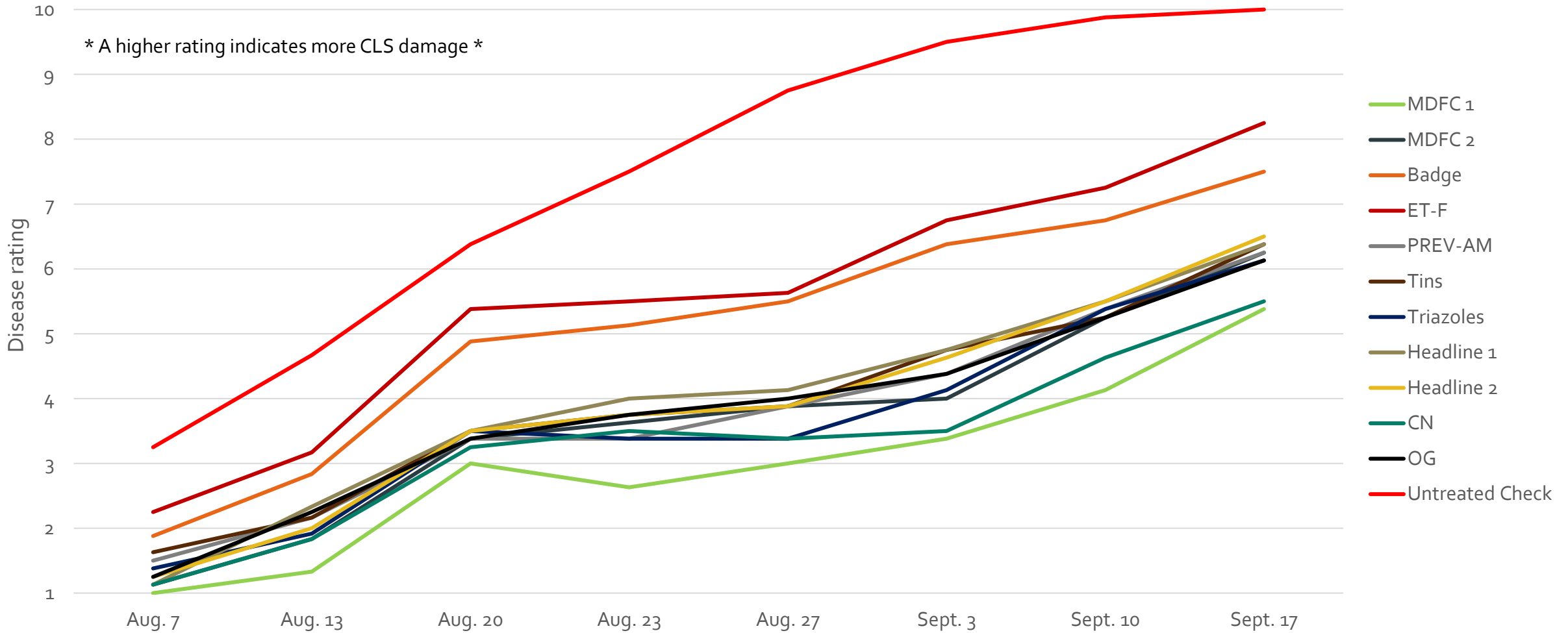


Treatments with the same letter are not statistically different

CLS Fungicide Program



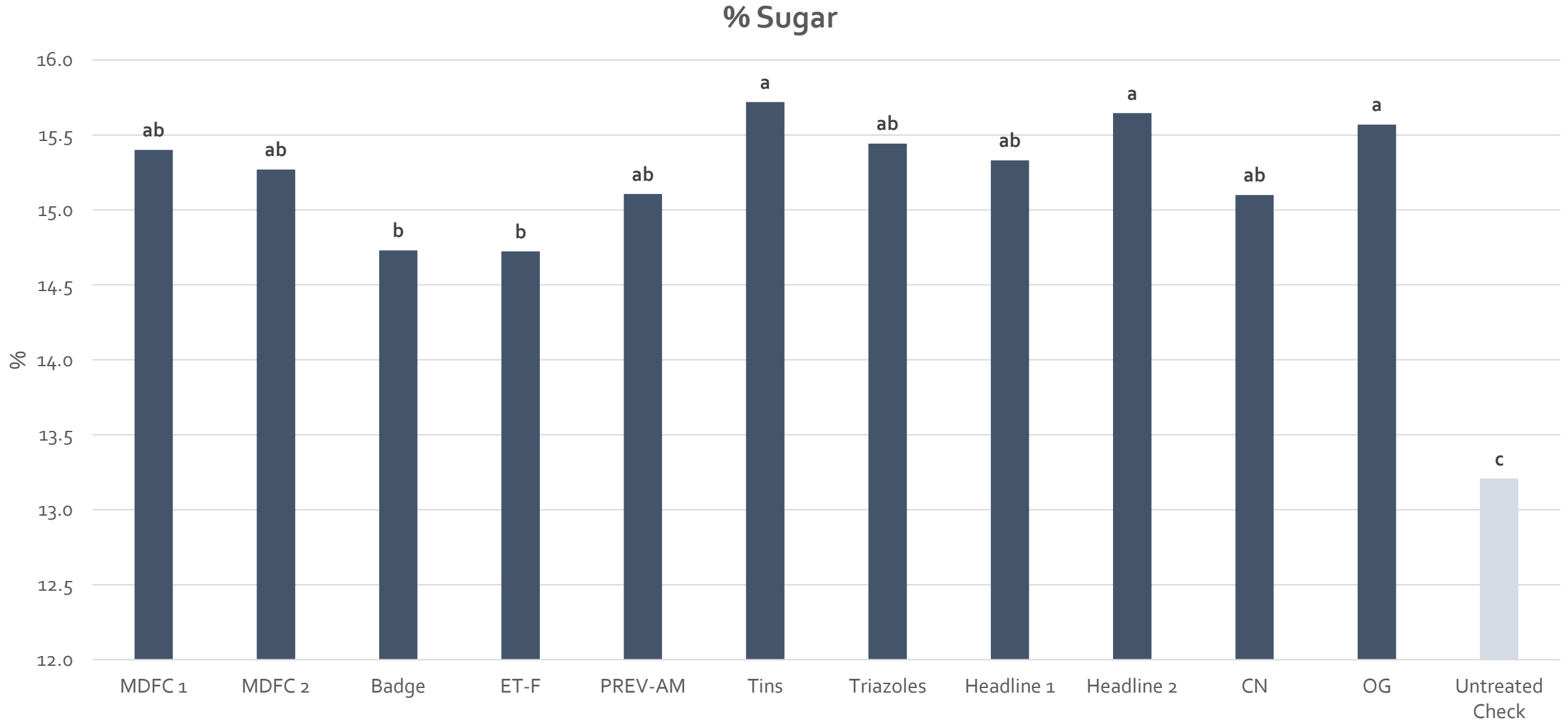
CLS Rating – Season-long



CLS Fungicide Program



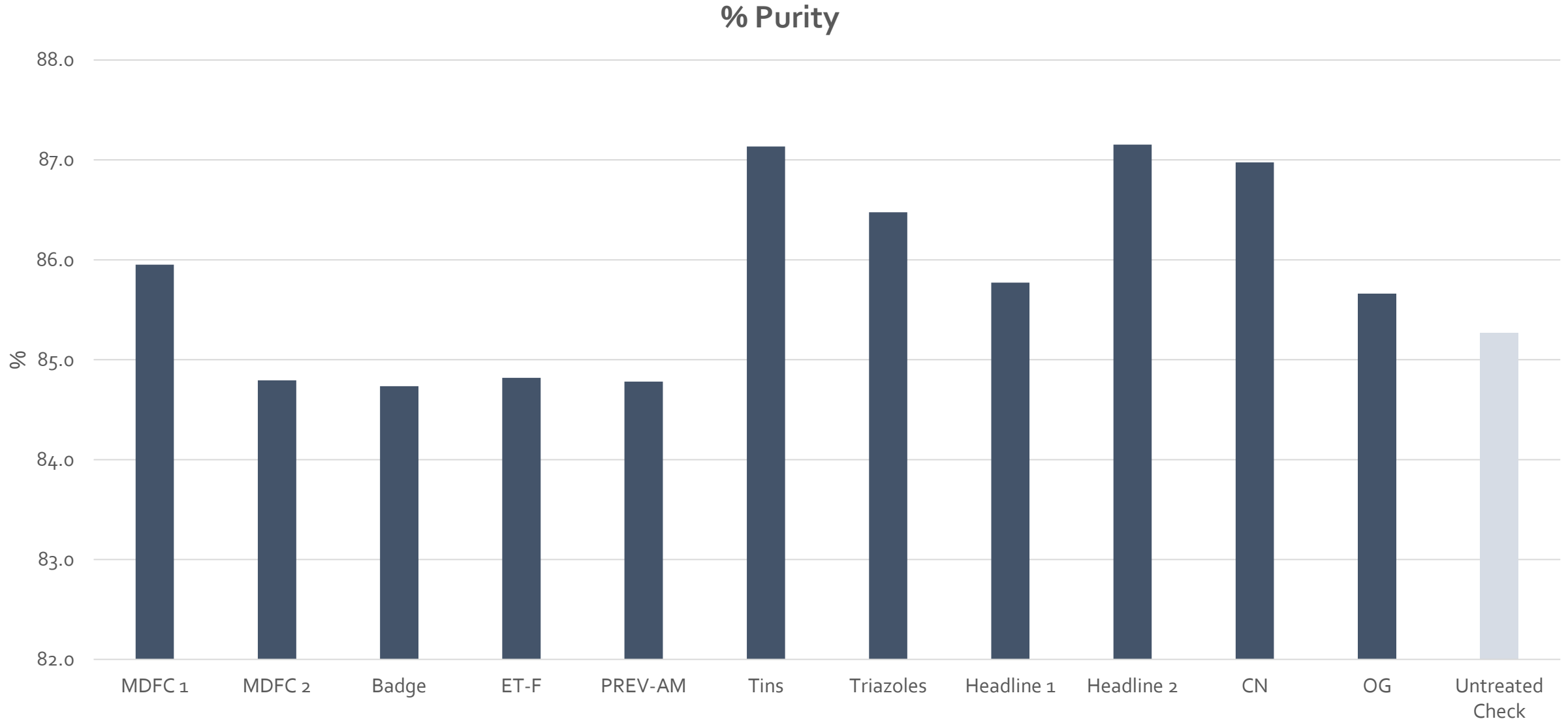
LSD (p=0.10): 0.73
CV: 4.07



Treatments with the same letter are not statistically different

CLS Fungicide Program

LSD (p=0.10): NS
CV: 2.32

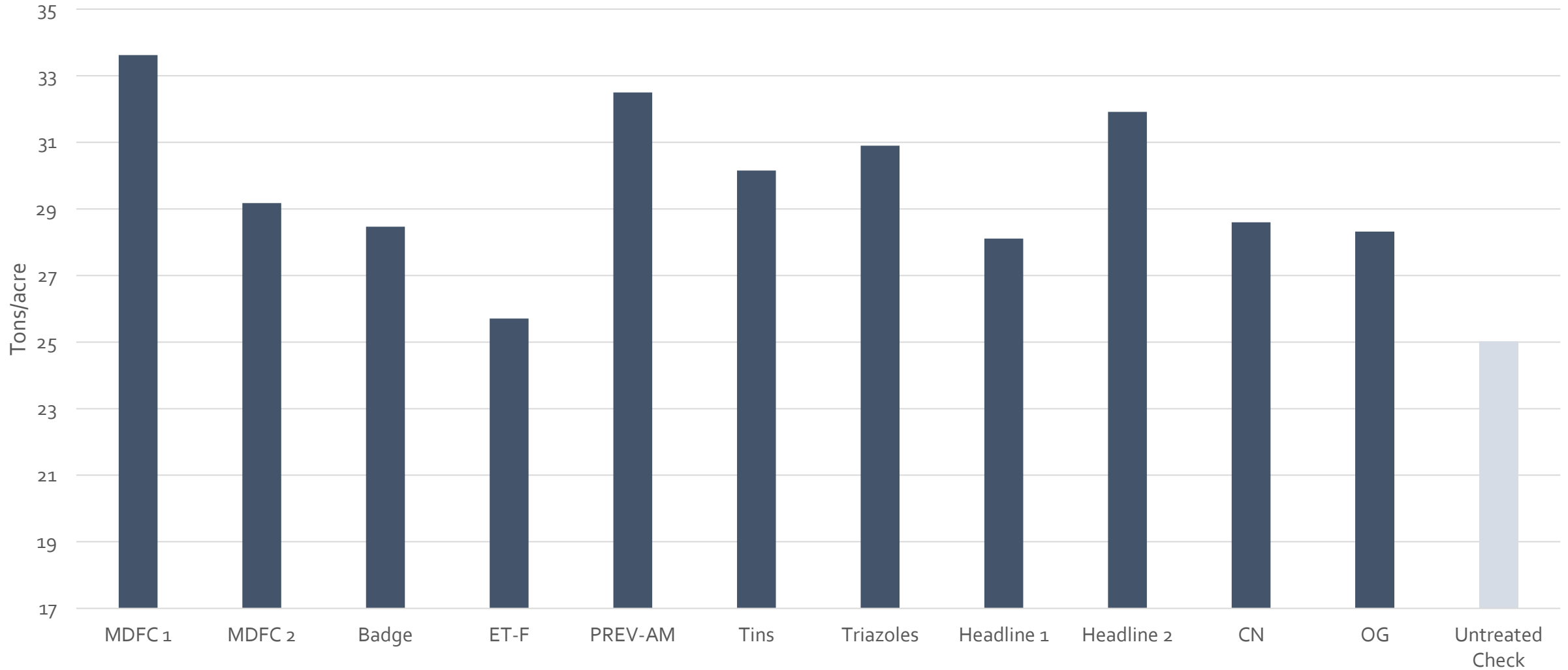


CLS Fungicide Program

LSD (p=0.10): NS
CV: 13.71



Root Yield

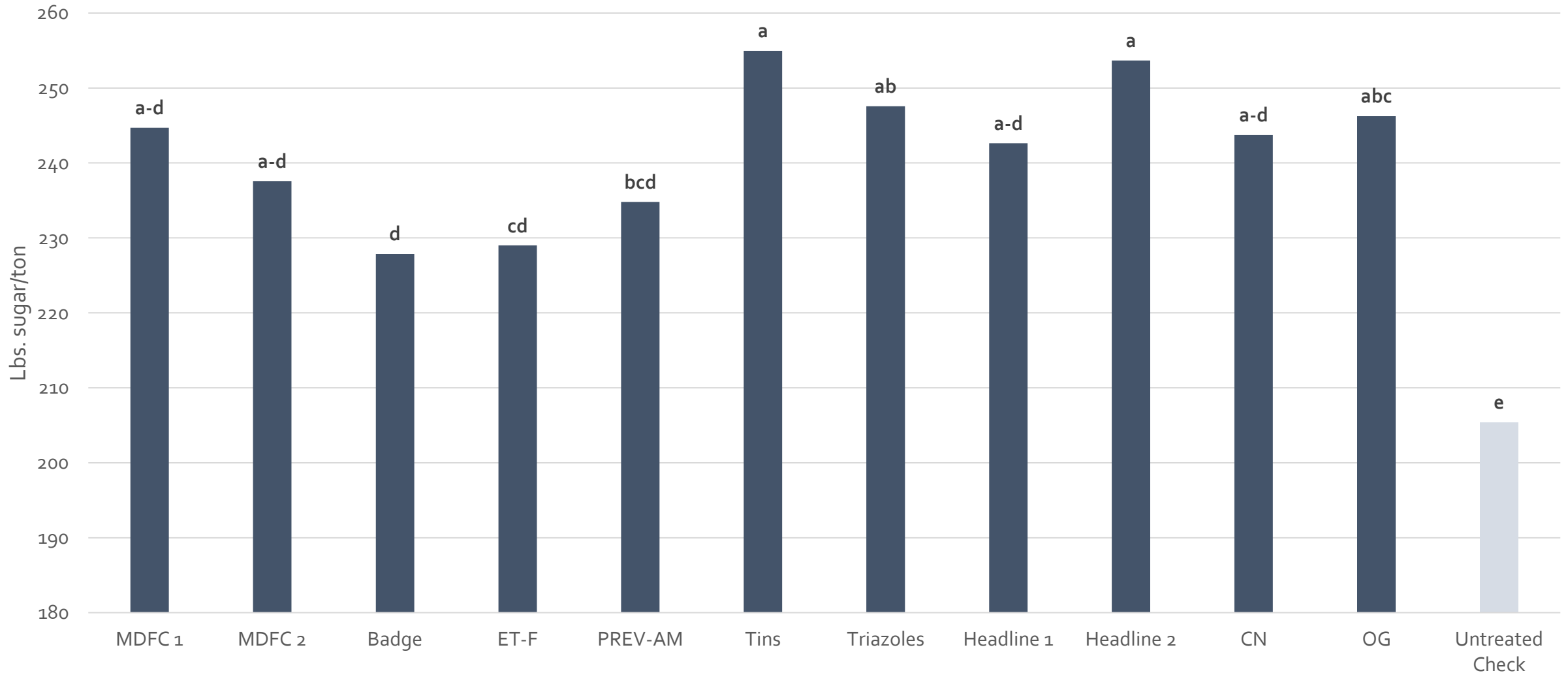


CLS Fungicide Program

LSD (p=0.10): 18.16
CV: 6.35



Recoverable Sugar per Ton



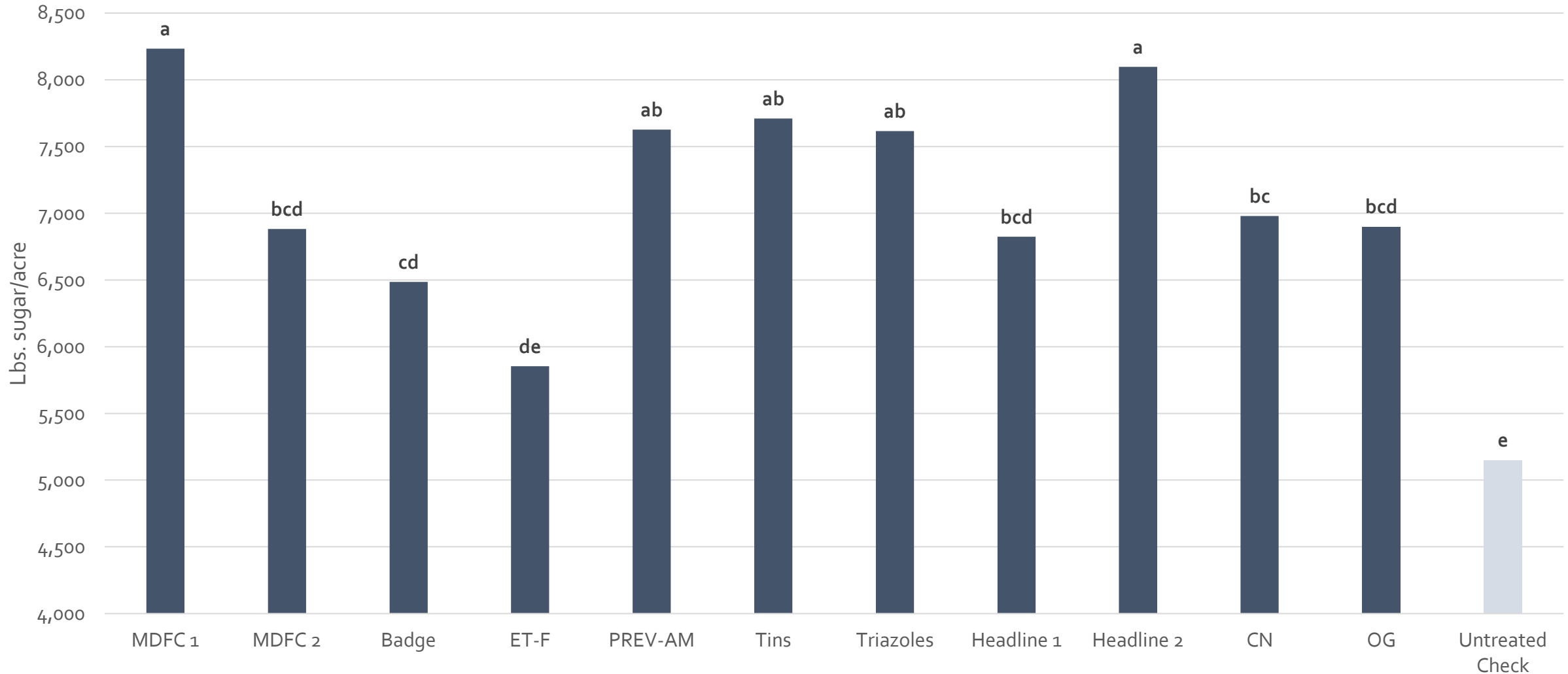
Treatments with the same letter are not statistically different

CLS Fungicide Program

LSD (p=0.10): 1,068
CV: 12.93



Recoverable Sugar per Acre



Treatments with the same letter are not statistically different