

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)

SummitAgro 1:

(REGEV as the first triazole)

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

SummitAgro 2:

(REGEV as the second triazole)

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

Treatment List:



Vive 1:

(Phobos as the first triazole)

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

Vive 2:

(Phobos as the second triazole)

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

BASF 1:

(Headline + EBDC @ row closure, then MDFC recommended program)

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

BASF 2:

(Headline as second triazole)

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

Treatment List:



BASF 3:

(Headline + EBDC @ row closure, Provysol as first triazole, Veltyma as second triazole)

1. Headline + Manzate (7/10/24)
2. Provysol + Manzate (7/18/24)
3. AgriTin + Manzate (8/13/24)
4. Veltyma + Manzate (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	12:12 PM	9:30 AM	7:45 PM
<i>End Time:</i>	11:20 AM	12:37 PM	10:05 AM	8:00 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	74	67	68
<i>Humidity (%):</i>	61	57	74	68
<i>Wind Velocity (MPH):</i>	6	5	3	3
<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



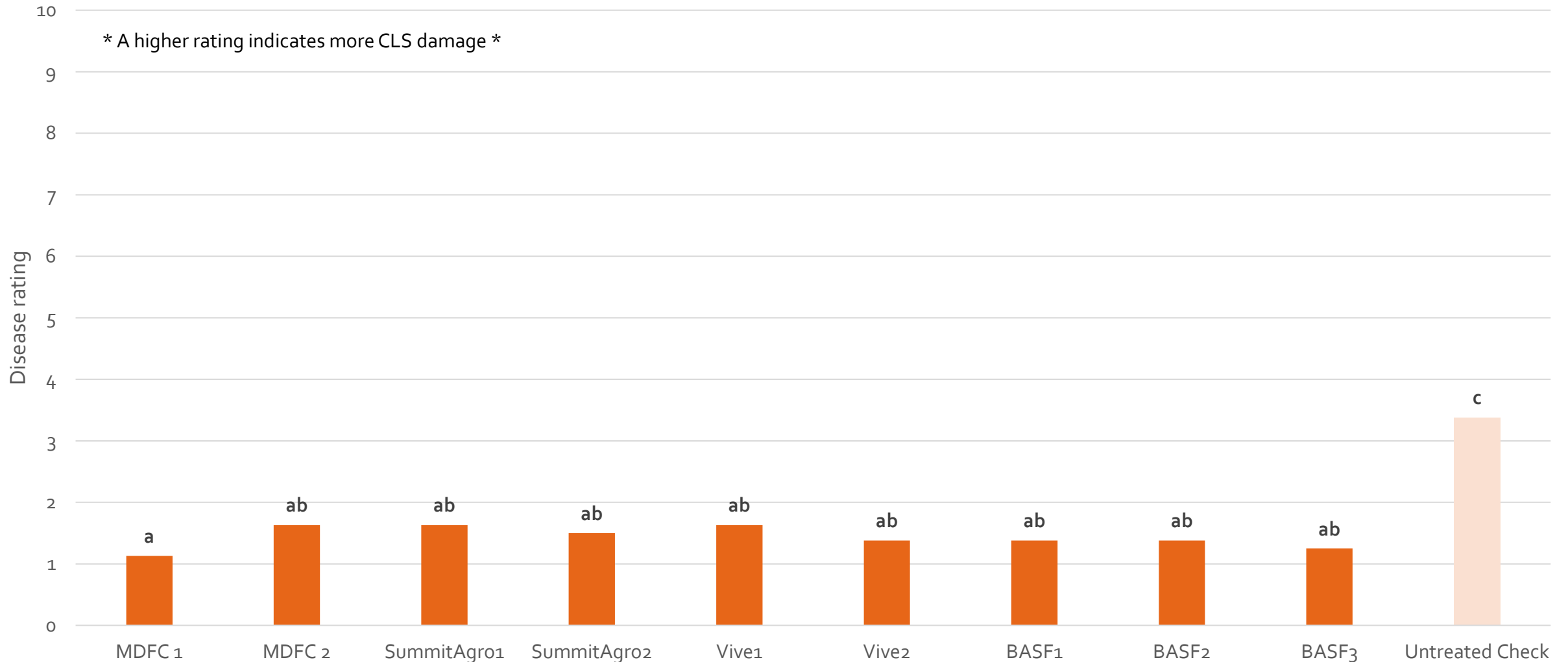
Category 10
50% severity

CLS Fungicide Program ~ Substitutions

LSD (p=0.10): 0.66
CV: 33.67



CLS Rating – August 7, 2024



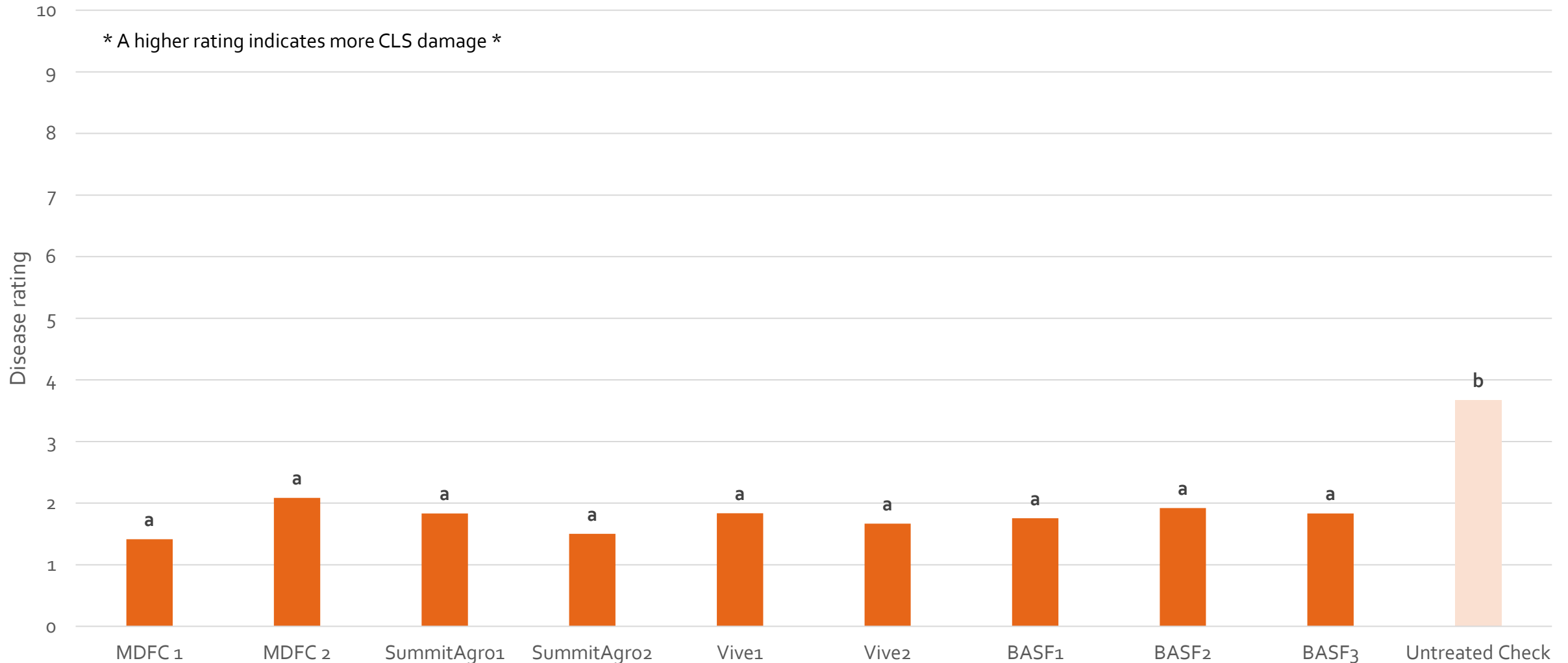
Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions

LSD (p=0.10): 0.70
CV: 30.53



CLS Rating – August 13, 2024



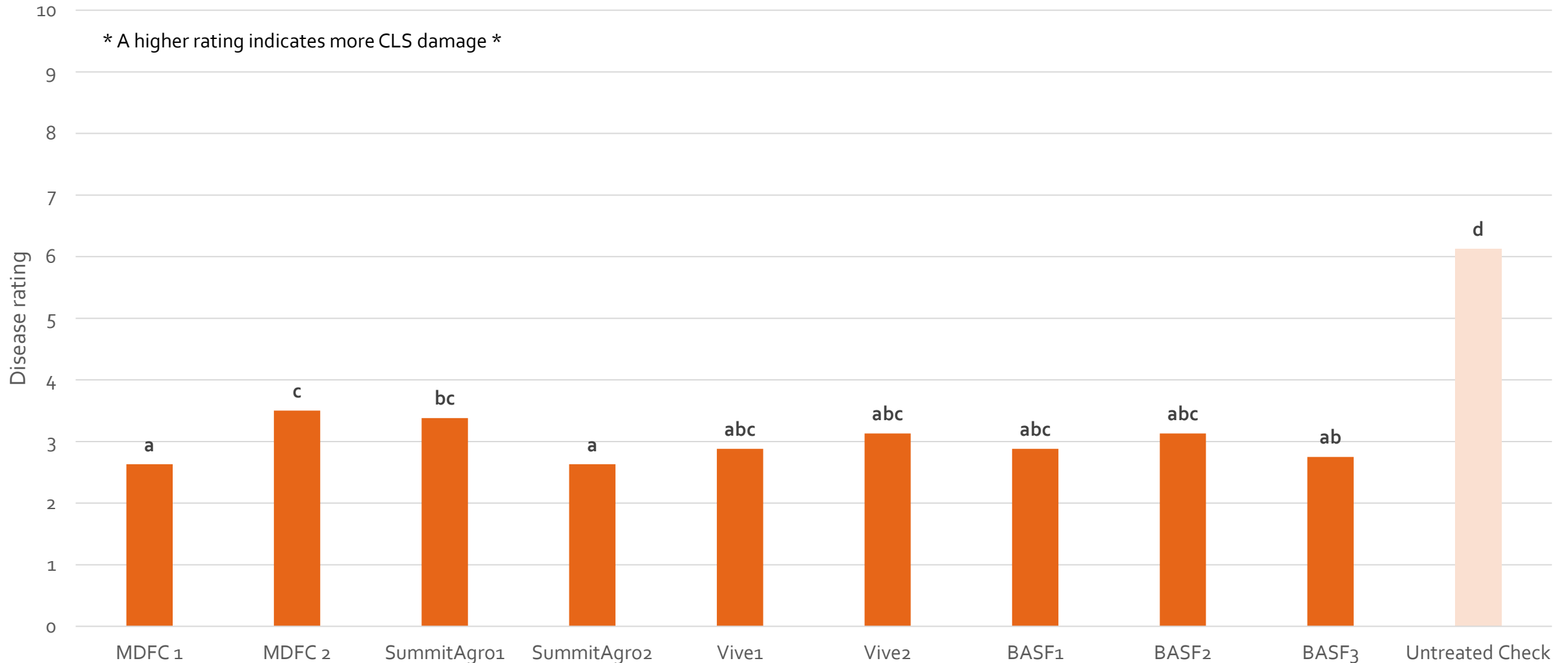
Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions

LSD (p=0.10): 0.70
CV: 17.61



CLS Rating – August 20, 2024



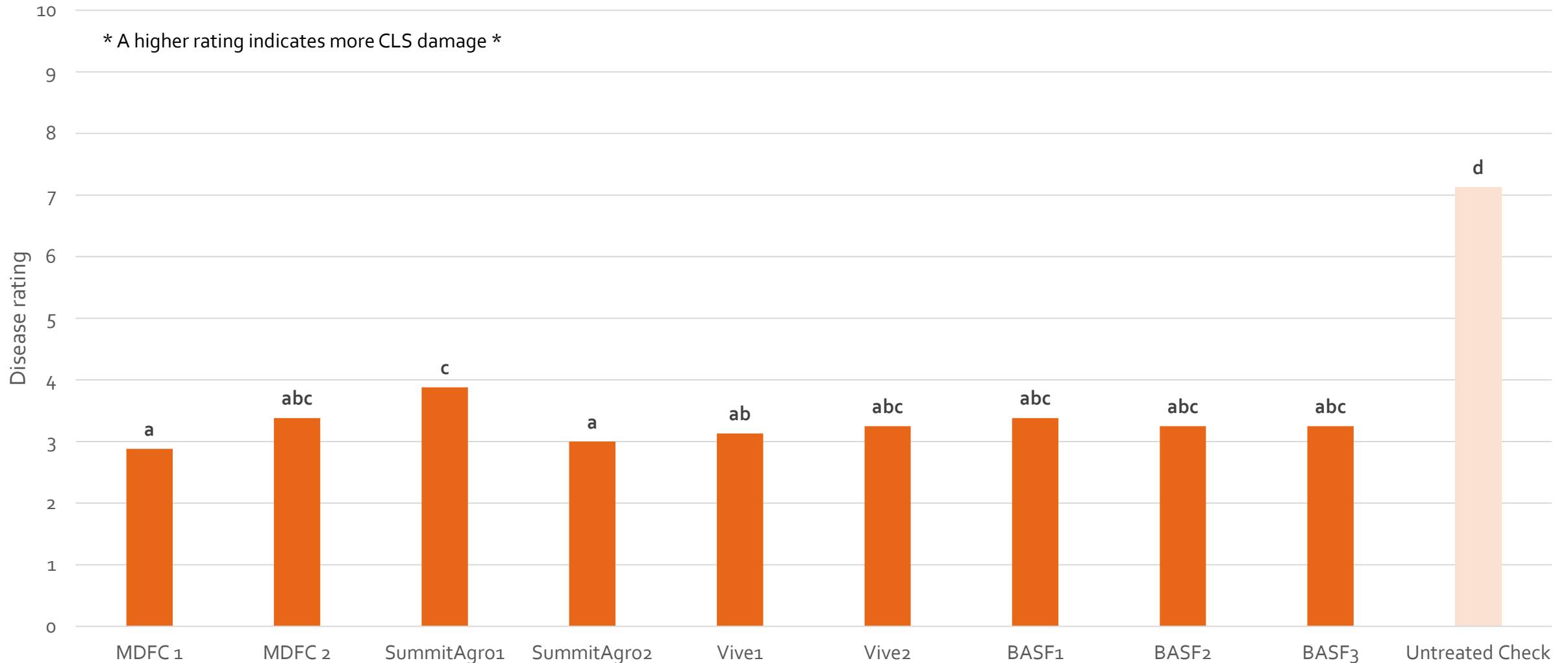
Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions

LSD (p=0.10): 0.67
CV: 15.37



CLS Rating – August 23, 2024



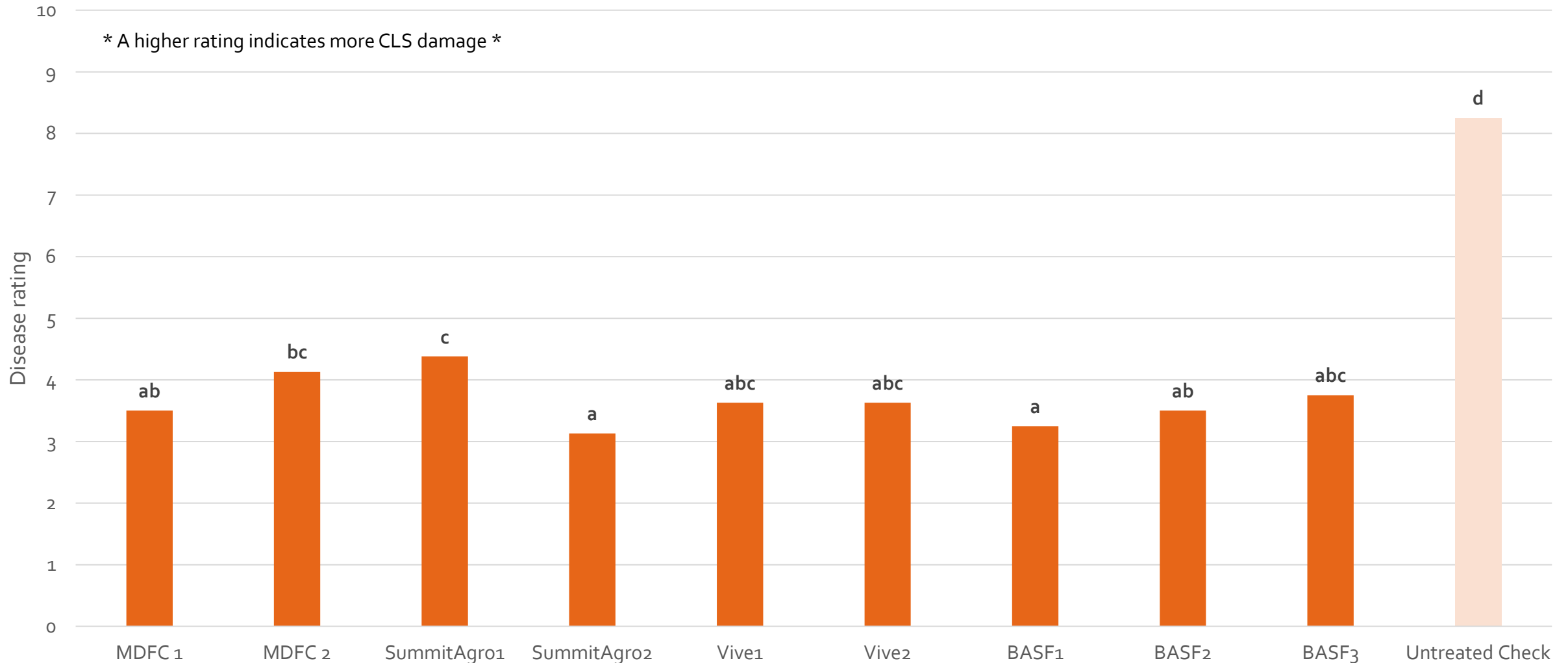
Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions

LSD (p=0.10): 0.81
CV: 16.56



CLS Rating – August 27, 2024



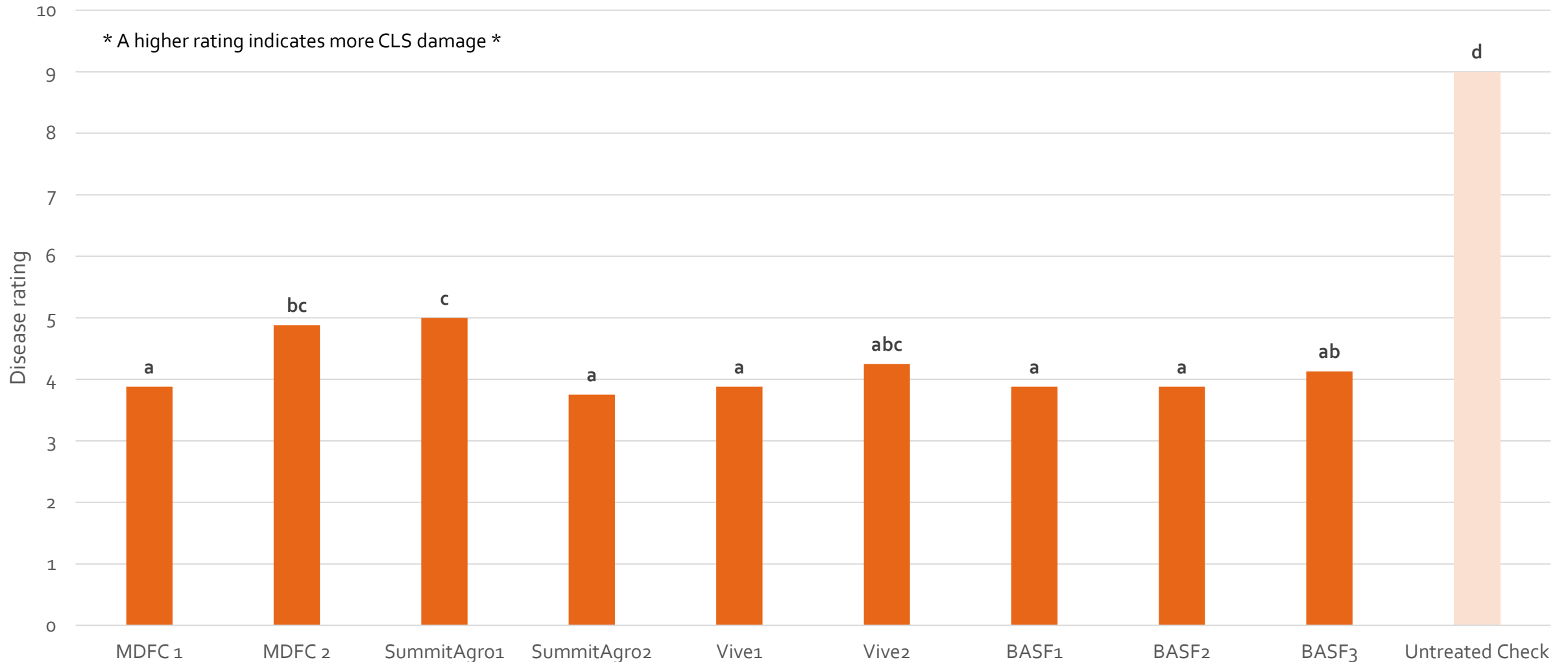
Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions

LSD (p=0.10): 0.87
CV: 15.73



CLS Rating – September 3, 2024



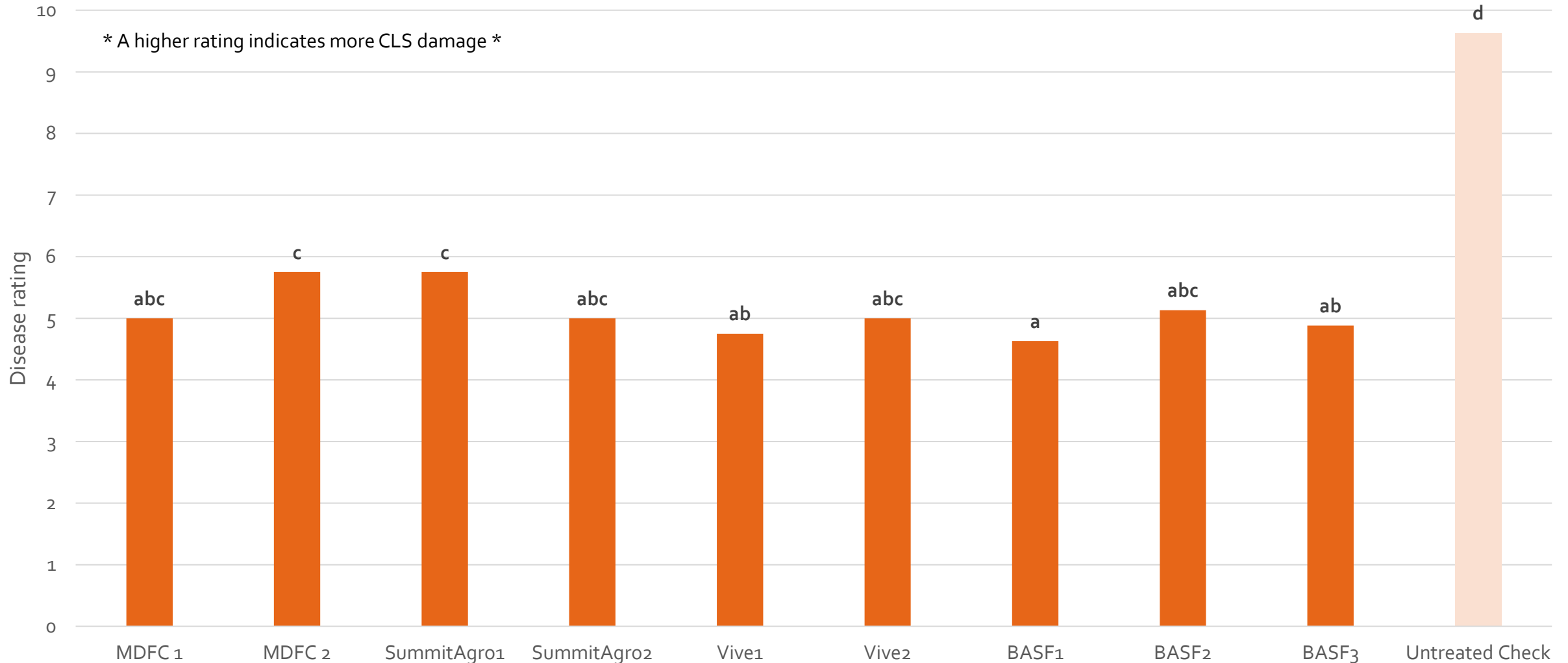
Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions

LSD (p=0.10): 0.78
CV: 11.75



CLS Rating – September 10, 2024



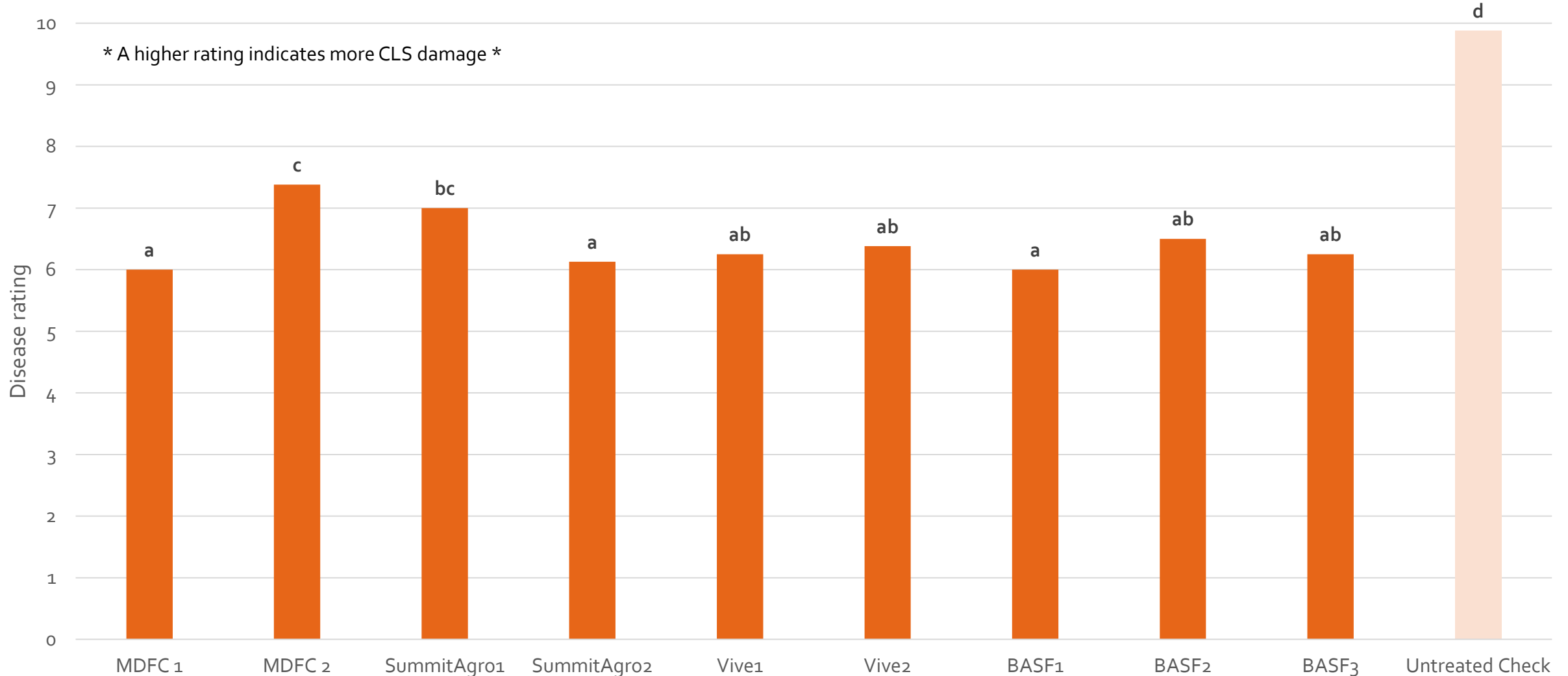
Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions

LSD (p=0.10): 0.76
CV: 9.45



CLS Rating – September 17, 2024

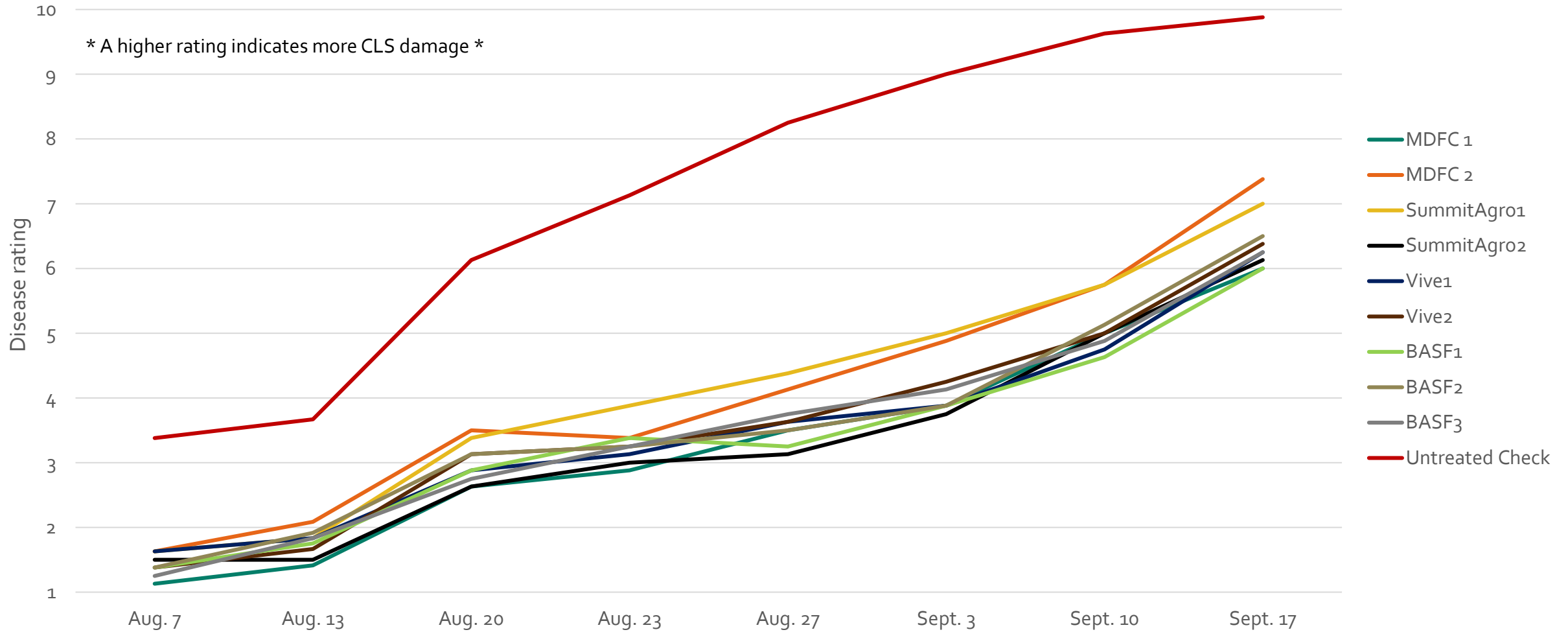


Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions



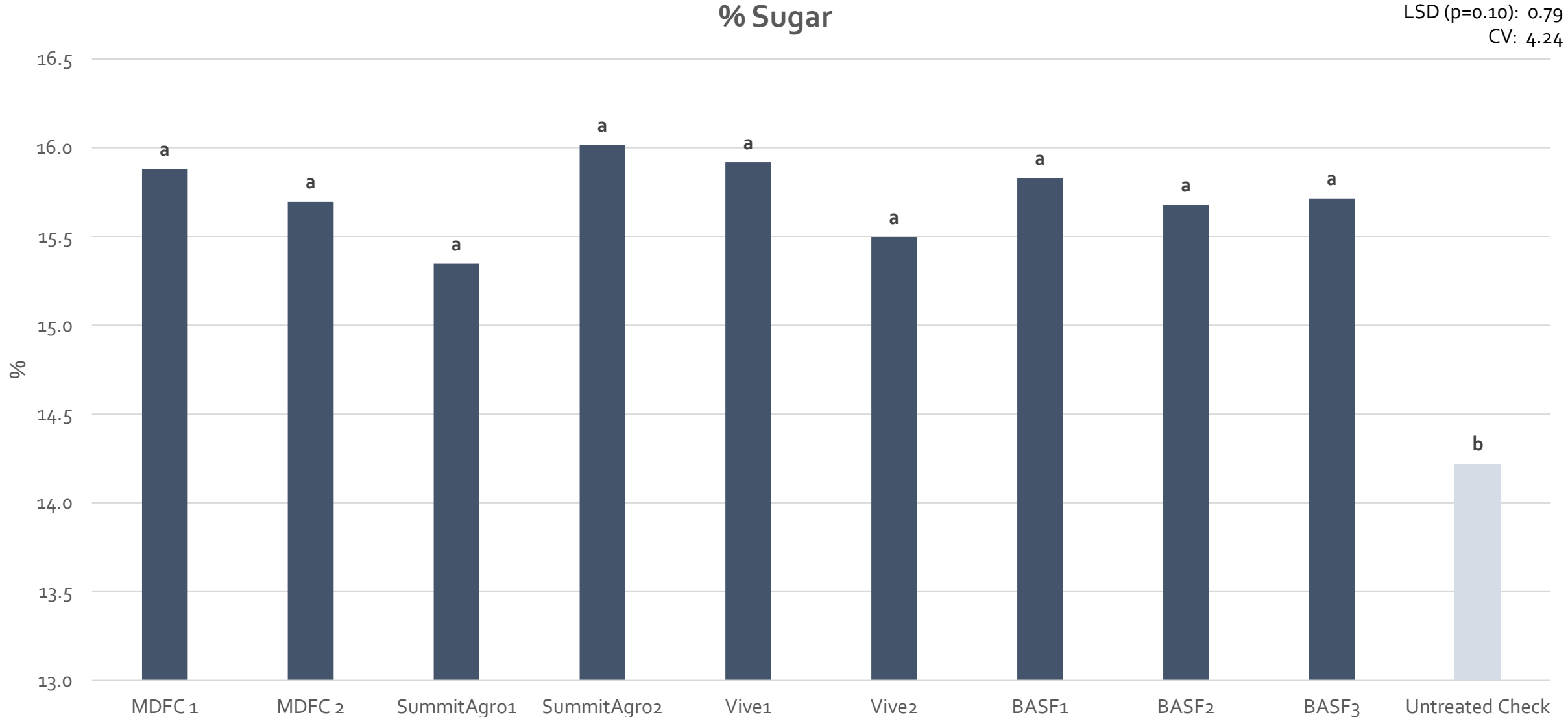
CLS Rating – Season-long



CLS Fungicide Program ~ Substitutions



LSD (p=0.10): 0.79
CV: 4.24

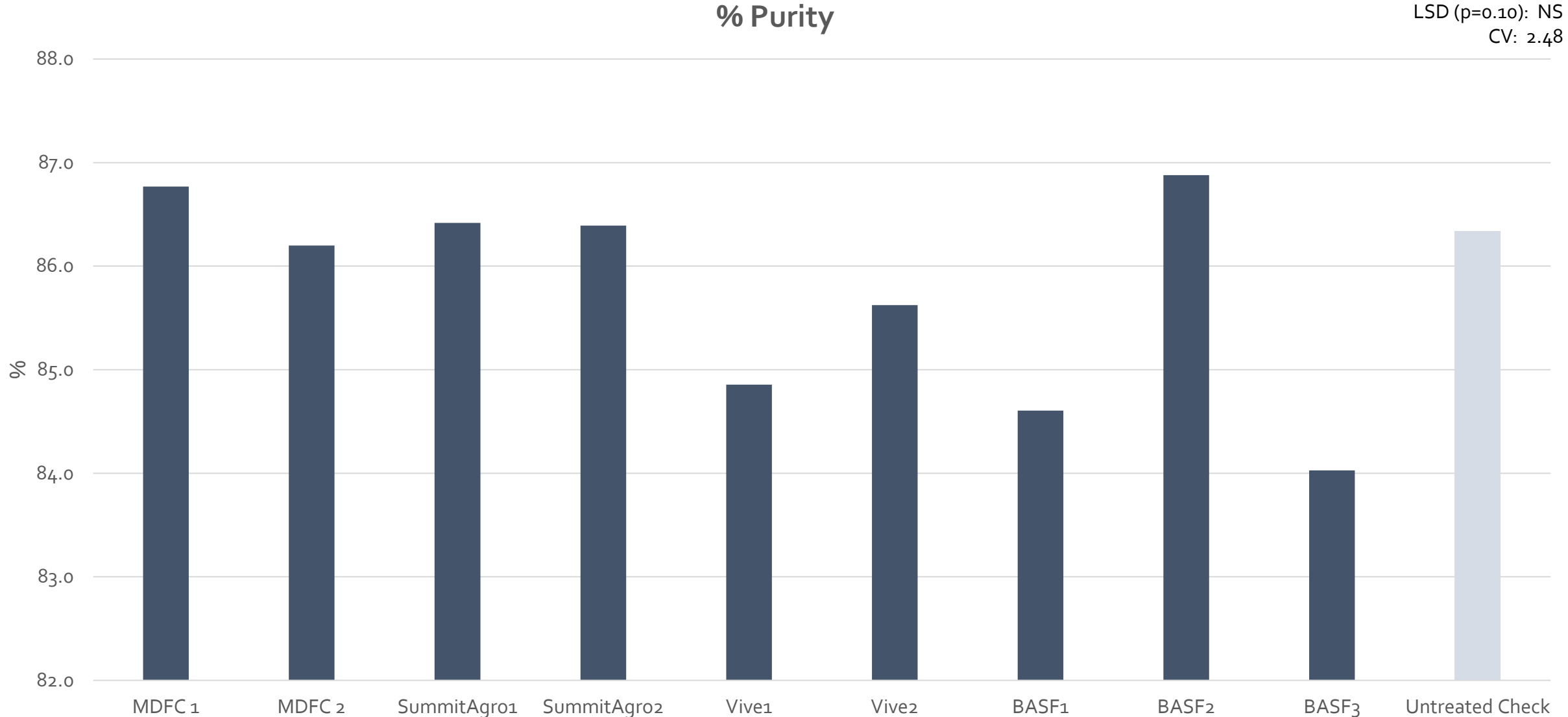


Treatments with the same letter are not statistically different

CLS Fungicide Program ~ Substitutions



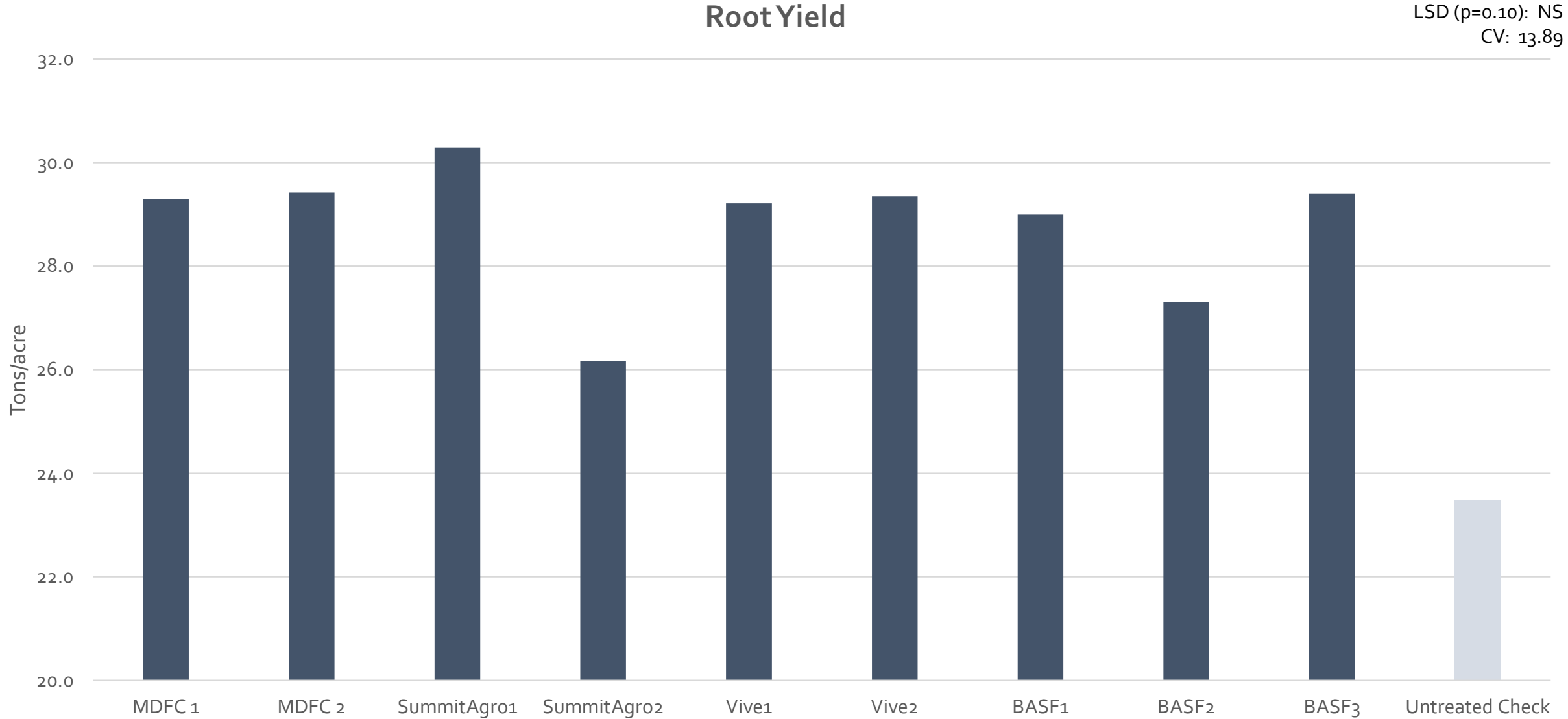
LSD (p=0.10): NS
CV: 2.48



CLS Fungicide Program ~ Substitutions



LSD (p=0.10): NS
CV: 13.89

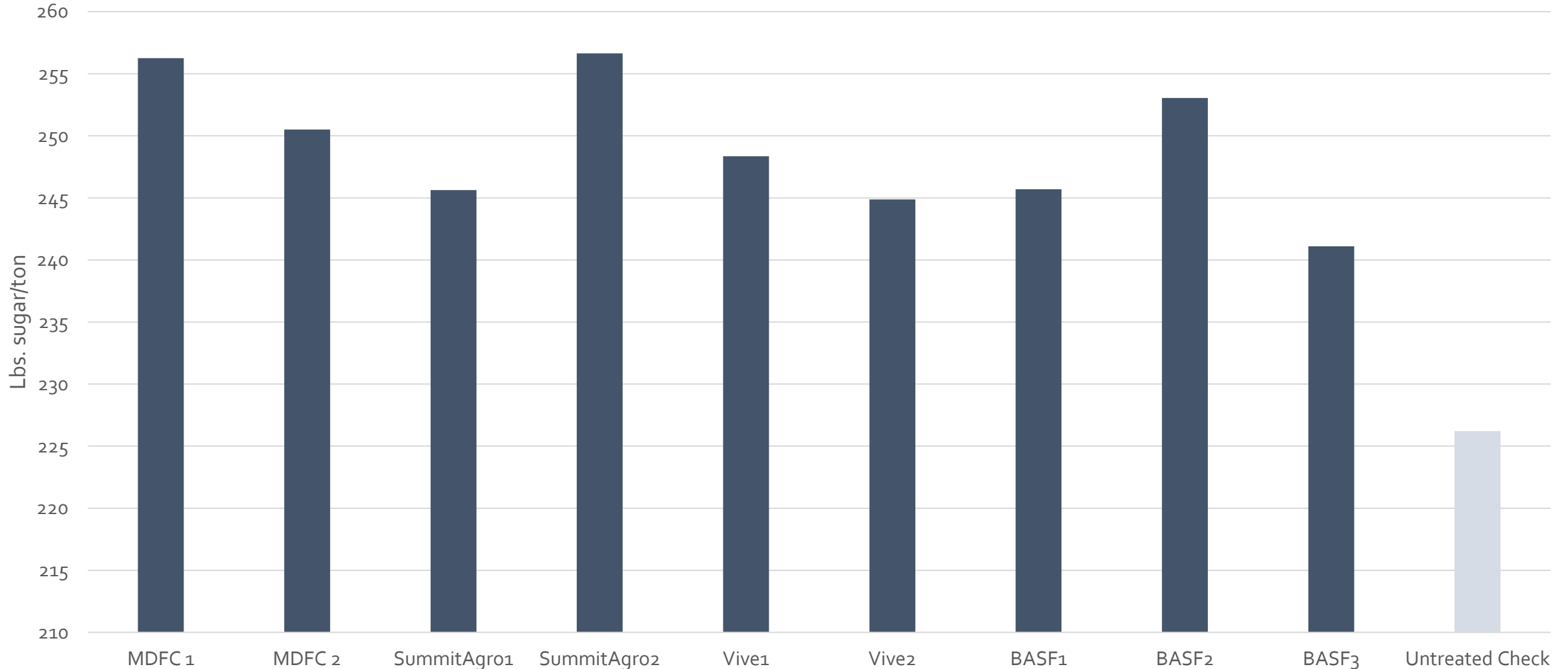


CLS Fungicide Program ~ Substitutions



LSD (p=0.10): NS
CV: 6.36

Recoverable Sugar per Ton

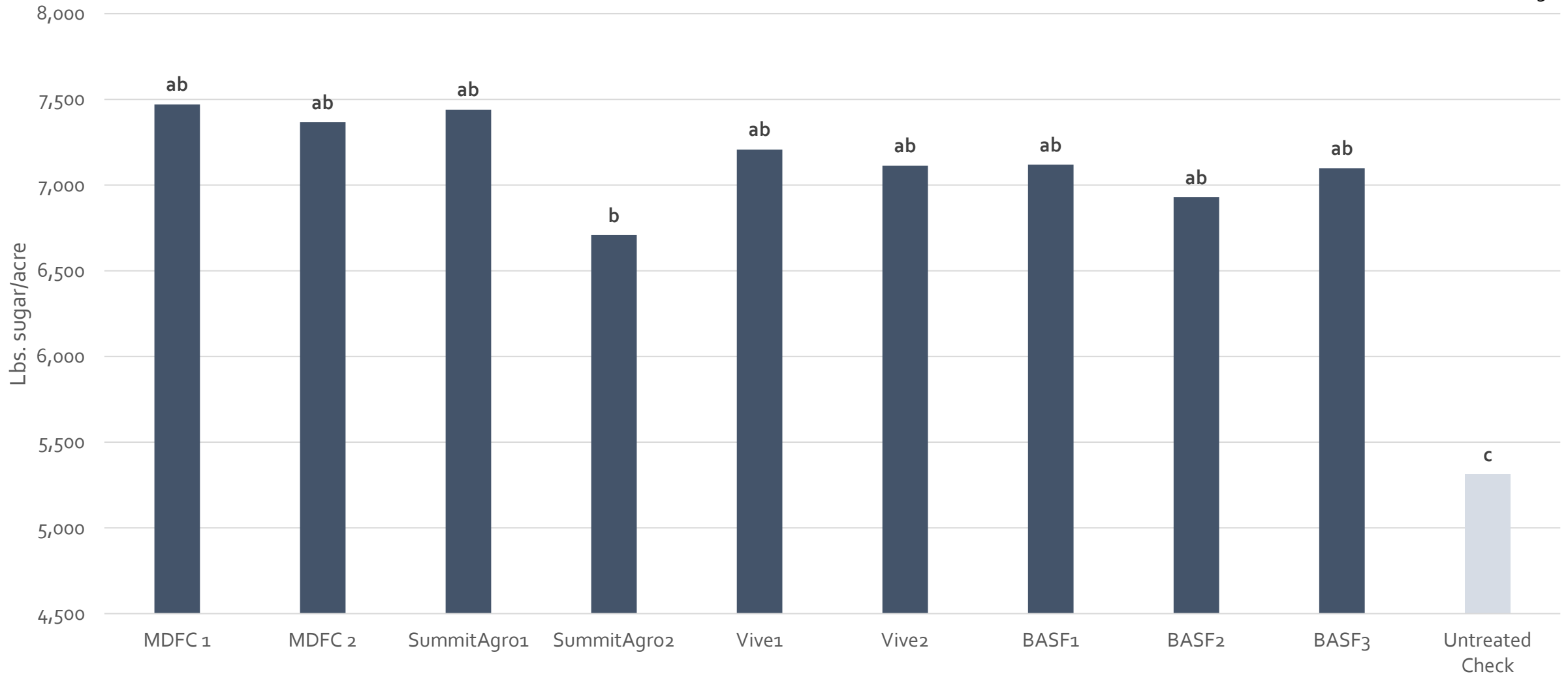


CLS Fungicide Program ~ Substitutions



LSD (p=0.10): 1103
CV: 13.00

Recoverable Sugar per Acre



Treatments with the same letter are not statistically different