

Trial Info.



- Planted: May 27, 2022
- Inoculated: July 13, 2022
- Harvested: September 26, 2022
- Location: Bradford Twp, Wilkin County
- Variety: BTS 7845 (*Traditional*)
 - CLS Rating = 3.79

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

Treatment List:



- **MDFC Traditional Rec:**

1. Manzate
2. Proline + NIS + Manzate
3. Agri Tin + Manzate
4. Provysol + Badge
5. Agri Tin + Manzate
6. Minerva + Manzate

- **Inverse MDFC Traditional Rec:**

1. Manzate
2. Agri Tin + Manzate
3. Proline + NIS + Manzate
4. Agri Tin + Manzate
5. Provysol + Badge
6. Agri Tin + Manzate

- **No Early:**

1. Proline + NIS + Manzate
2. Agri Tin + Manzate
3. Provysol + Badge
4. Agri Tin + Manzate
5. Minerva + Manzate

- **No Tank Mix:**

1. Manzate
2. Proline + NIS
3. Agri Tin
4. Provysol
5. Agri Tin
6. Minerva

Treatment List:



- **MDFC Trad. Rec. + Sulfur:**

1. Manzate + Kumulus DF
2. Proline + NIS + Manzate + Kumulus DF
3. Agri Tin + Manzate + Kumulus DF
4. Provysol + Badge + Kumulus DF
5. Agri Tin + Manzate + Kumulus DF
6. Minerva + Manzate + Kumulus DF

- **Sub. ET-F:**

1. Manzate
2. Proline + NIS + Manzate
3. Agri Tin + Manzate
4. Provysol + ET-F
5. Agri Tin + Manzate
6. Minerva + Manzate

- **Sub. OxiDate 5.0:**

1. Manzate
2. Proline + NIS + Manzate
3. Agri Tin + Manzate
4. Provysol + OxiDate 5.0
5. Agri Tin + Manzate
6. Minerva + Manzate

- **Sub. REGEV:**

1. Manzate
2. Proline + NIS + Manzate
3. Agri Tin + Manzate
4. REGEV + Badge
5. Agri Tin + Manzate
6. Minerva + Manzate

Treatment List:



• **Provysol Early:**

1. Provysol
2. Proline + NIS + Manzate
3. Agri Tin + Manzate
4. Inspire XT + Manzate
5. Agri Tin + Manzate
6. Minerva + Manzate

• **Mixing Triazole:**

1. Manzate
2. Proline + NIS + Minerva + Badge
3. Agri Tin + Manzate
4. Provysol + Manzate
5. Agri Tin + Manzate
6. Manzate



Application						
<i>Date:</i>	Jul-12-2022	Jul-25-2022	Aug-4-2022	Aug-15-2022	Aug-30-2022	Sep-10-2022
<i>Start Time:</i>	11:08 AM	1:51 PM	8:40 AM	11:50 AM	6:37 PM	7:48 PM
<i>End Time:</i>	12:55 PM	2:16 PM	9:09 AM	12:10 PM	7:10 PM	8:11 PM
<i>Spray Interval (days):</i>		13	10	11	15	11
<i>Application Method:</i>	Spray	Spray	Spray	Spray	Spray	Spray
<i>Application Timing:</i>	Preventative	Fixed Interval	Fixed Interval	Fixed Interval	Fixed Interval	Fixed Interval
<i>Application Placement:</i>	Broadcast	Broadcast	Broadcast	Broadcast	Broadcast	Broadcast
<i>Temperature (F):</i>	79	73	64	76	81	64
<i>Humidity (%):</i>	53	52	86	68	43	44
<i>Wind Velocity (MPH):</i>	8	7	8	11	7	1
<i>Wind Direction:</i>	WNW	SW	NNW	NNW	ESE	SSW

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



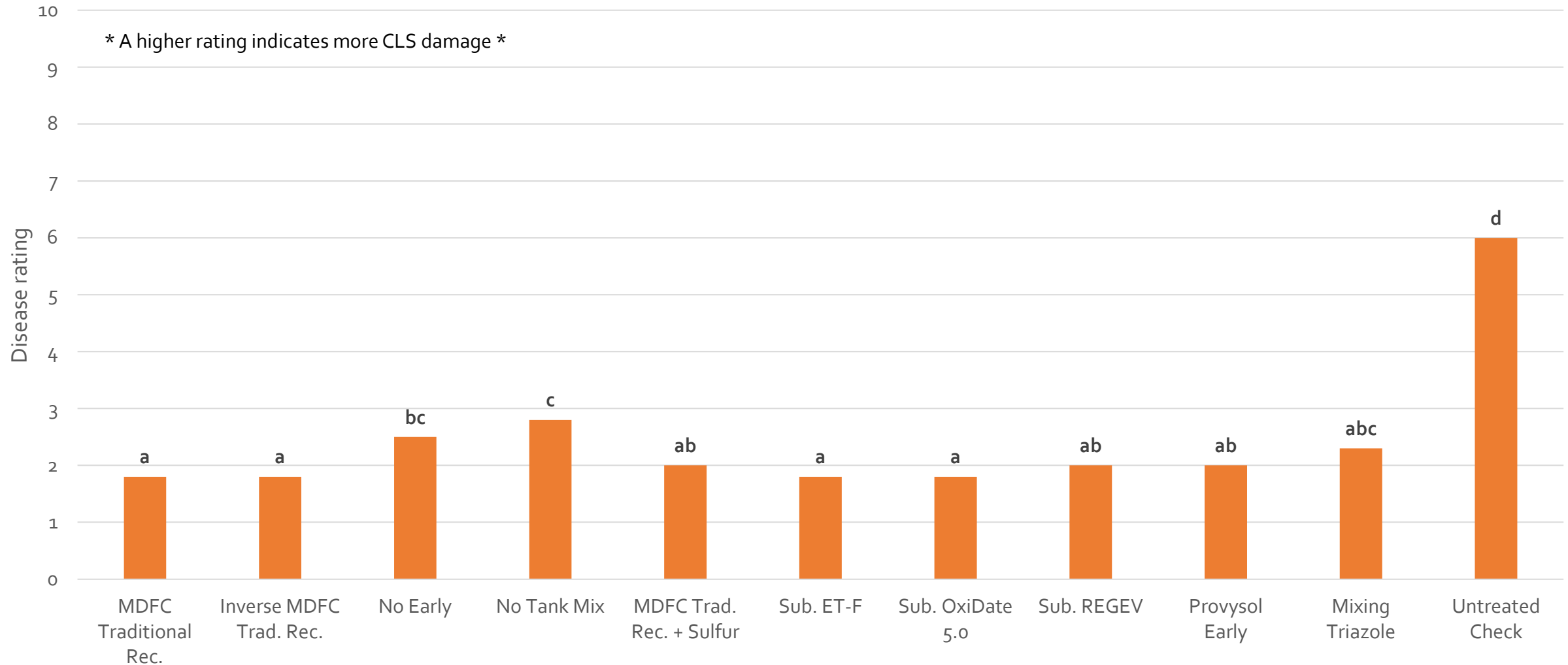
Category 10
50% severity

Traditional Program Comparison

LSD (p=0.10): 0.73
CV: 25.19



CLS Rating – September 2, 2022



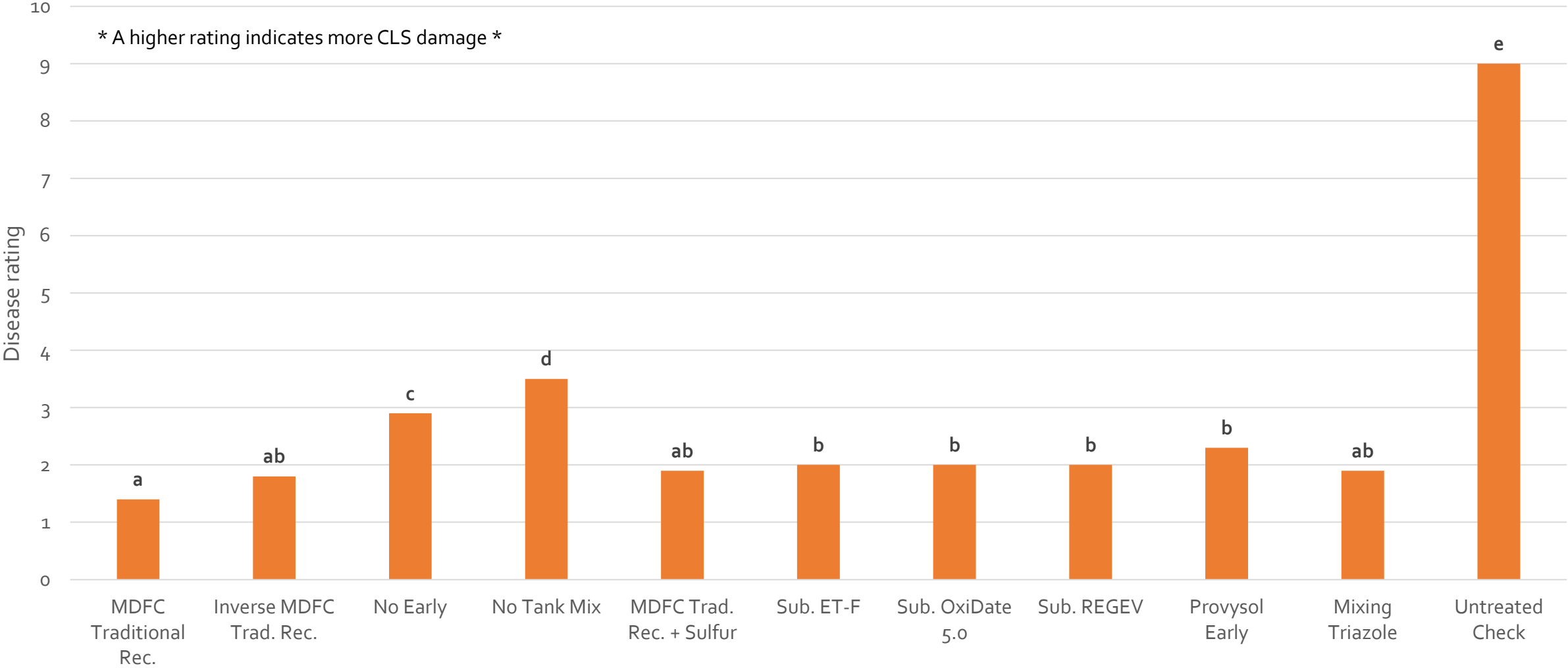
Treatments with the same letter are not statistically different

Traditional Program Comparison



LSD (p=0.10): 0.62
CV: 18.65

CLS Rating – September 12, 2022



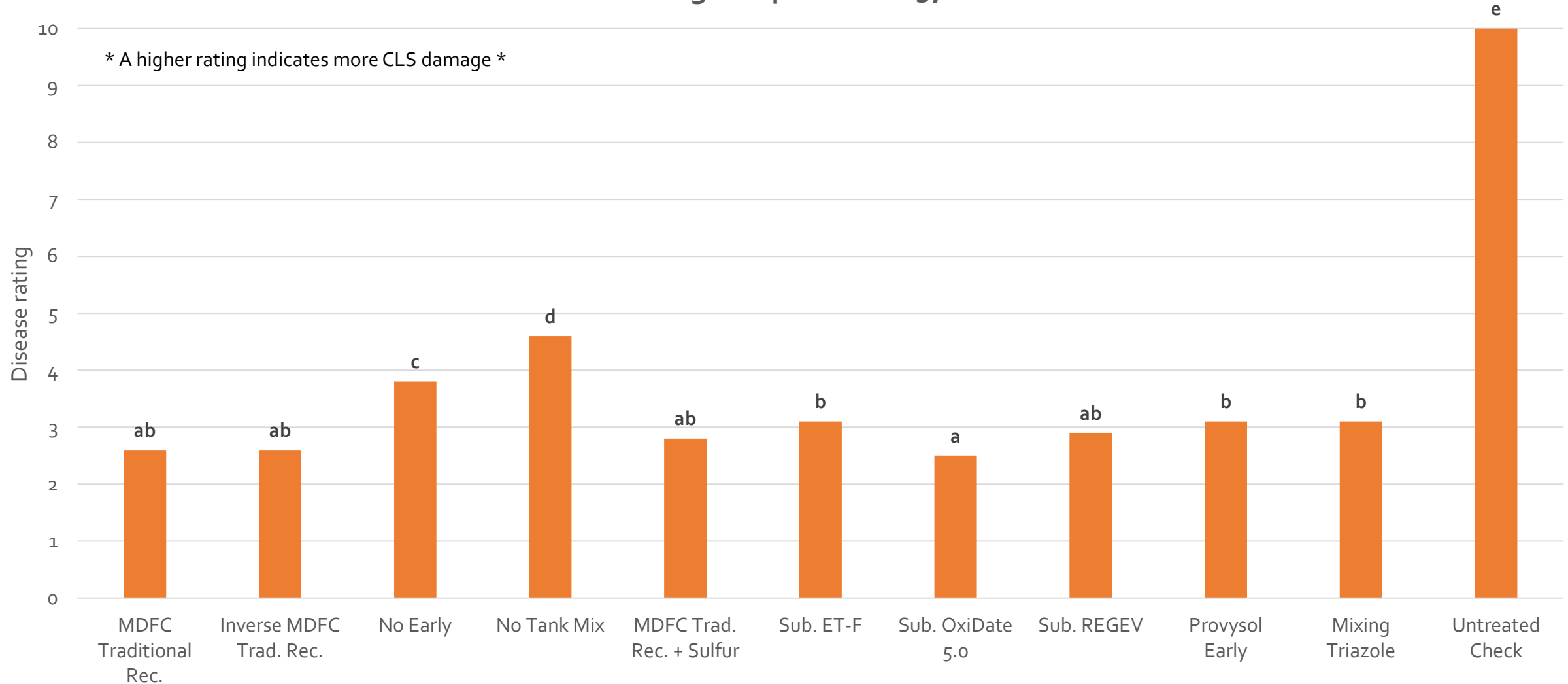
Treatments with the same letter are not statistically different

Traditional Program Comparison

LSD (p=0.10): 0.60
CV: 13.43



CLS Rating – September 19, 2022



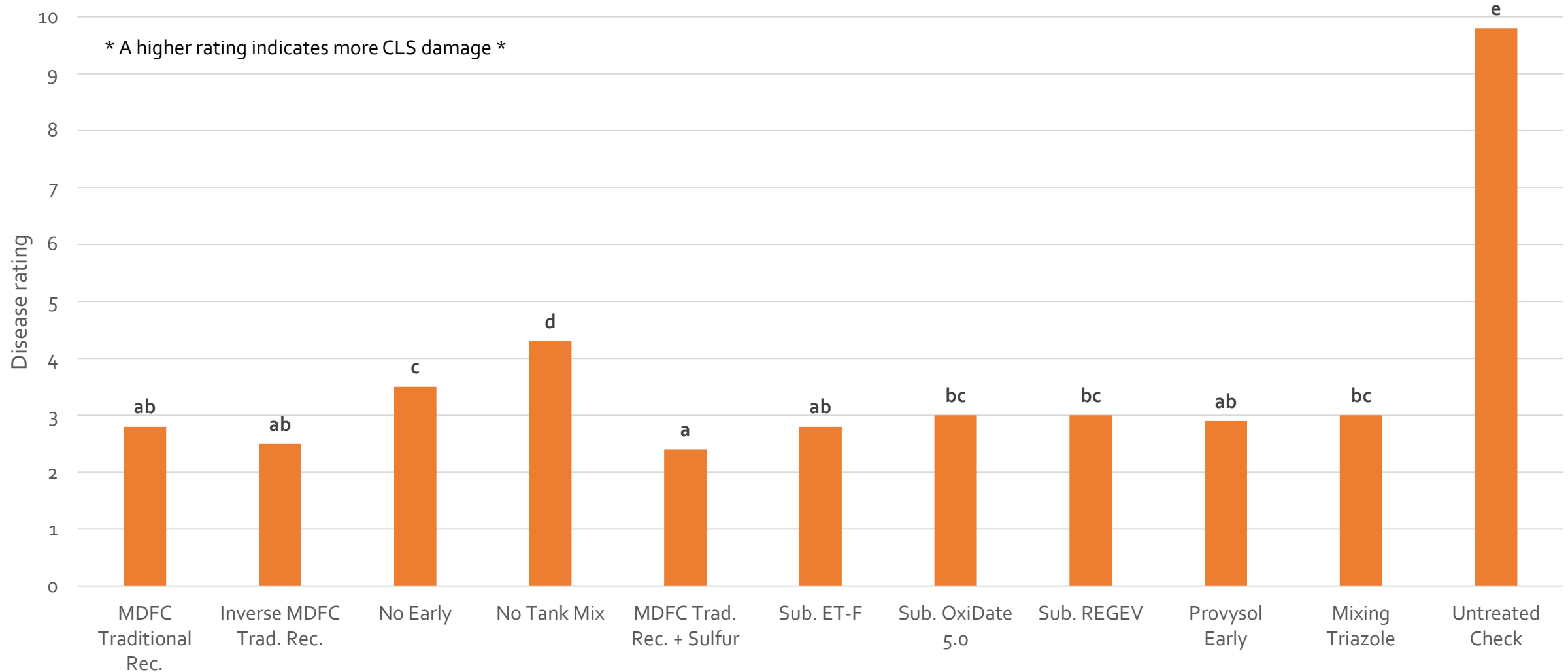
Treatments with the same letter are not statistically different

Traditional Program Comparison

LSD (p=0.10): 0.51
CV: 11.84



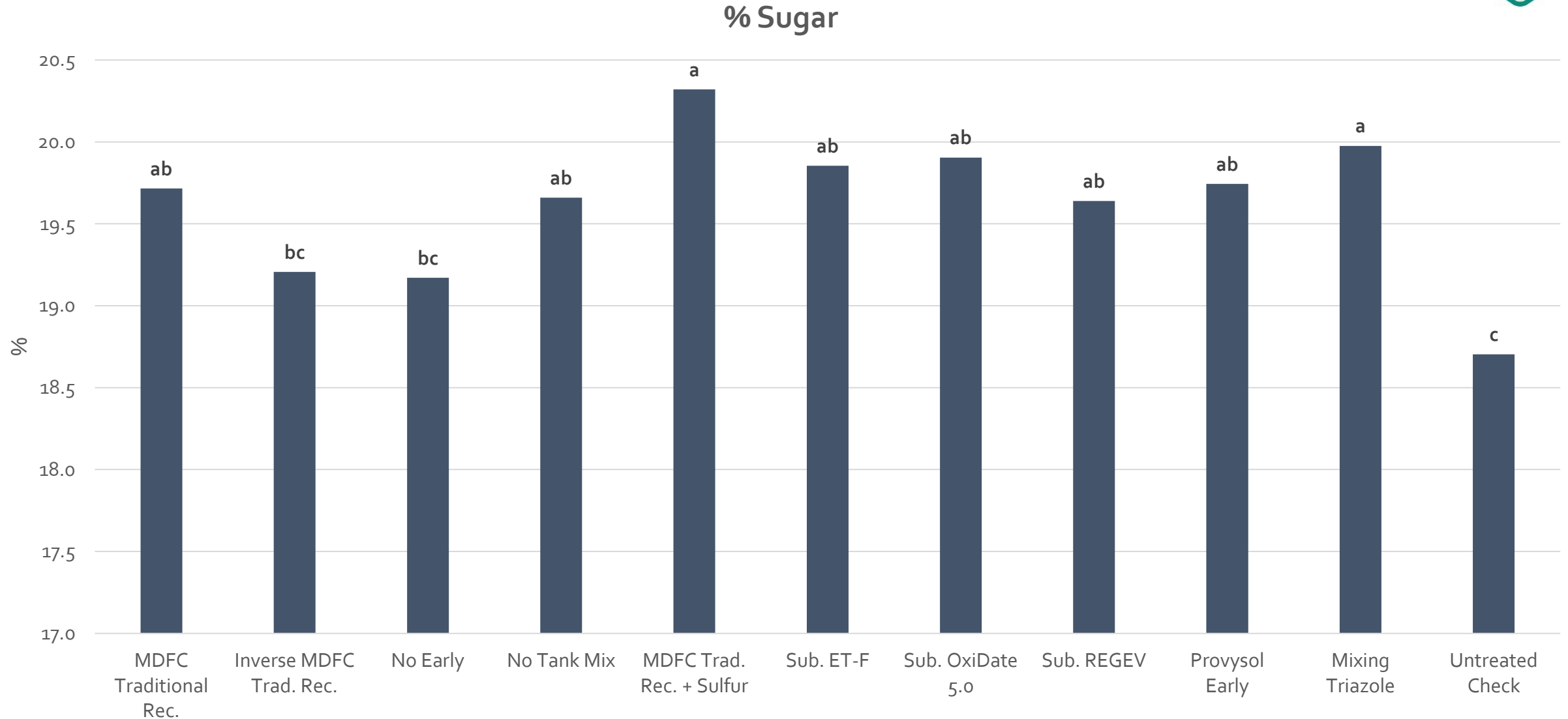
CLS Rating – September 26, 2022



Treatments with the same letter are not statistically different

Traditional Program Comparison

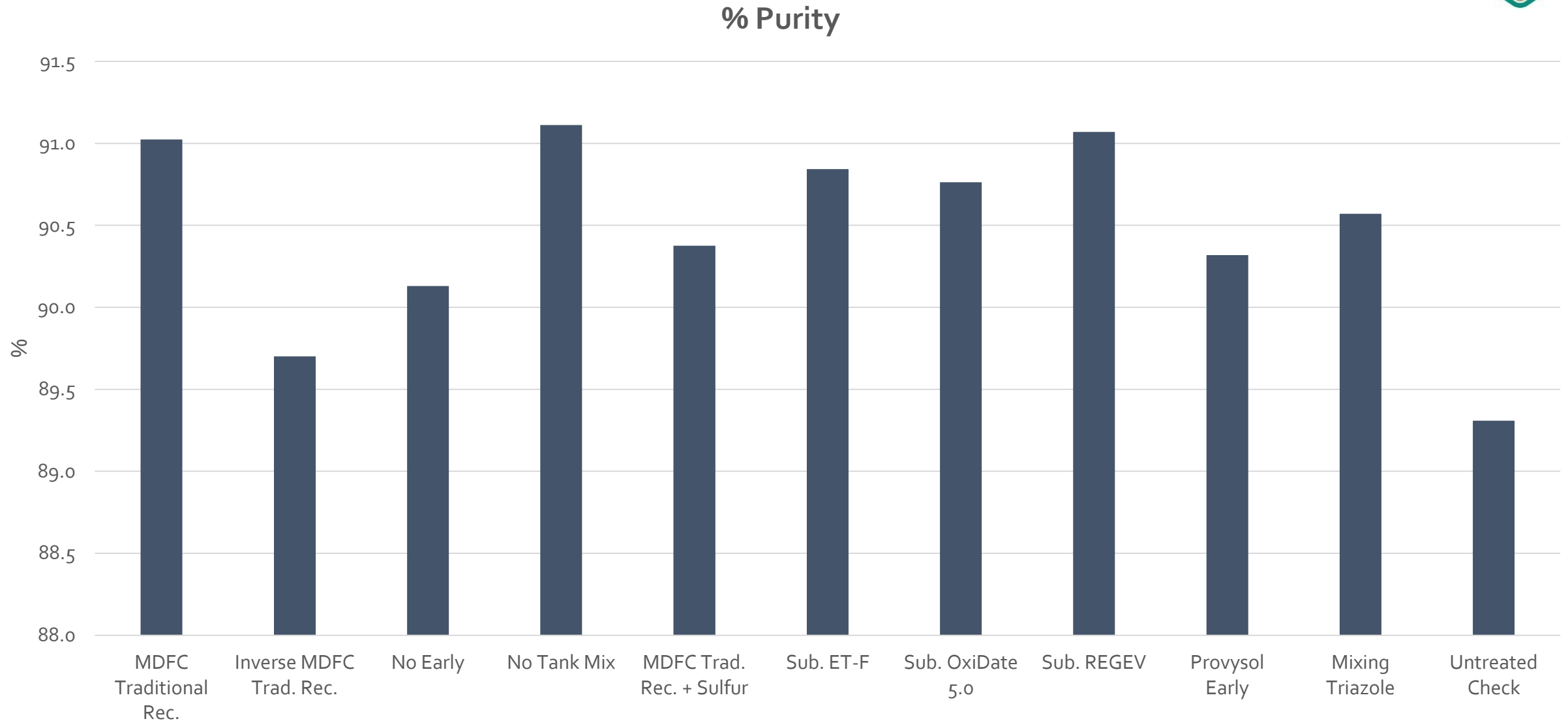
LSD (p=0.10): 0.76
CV: 3.22



Treatments with the same letter are not statistically different

Traditional Program Comparison

LSD (p=0.10): NS
CV: 1.11

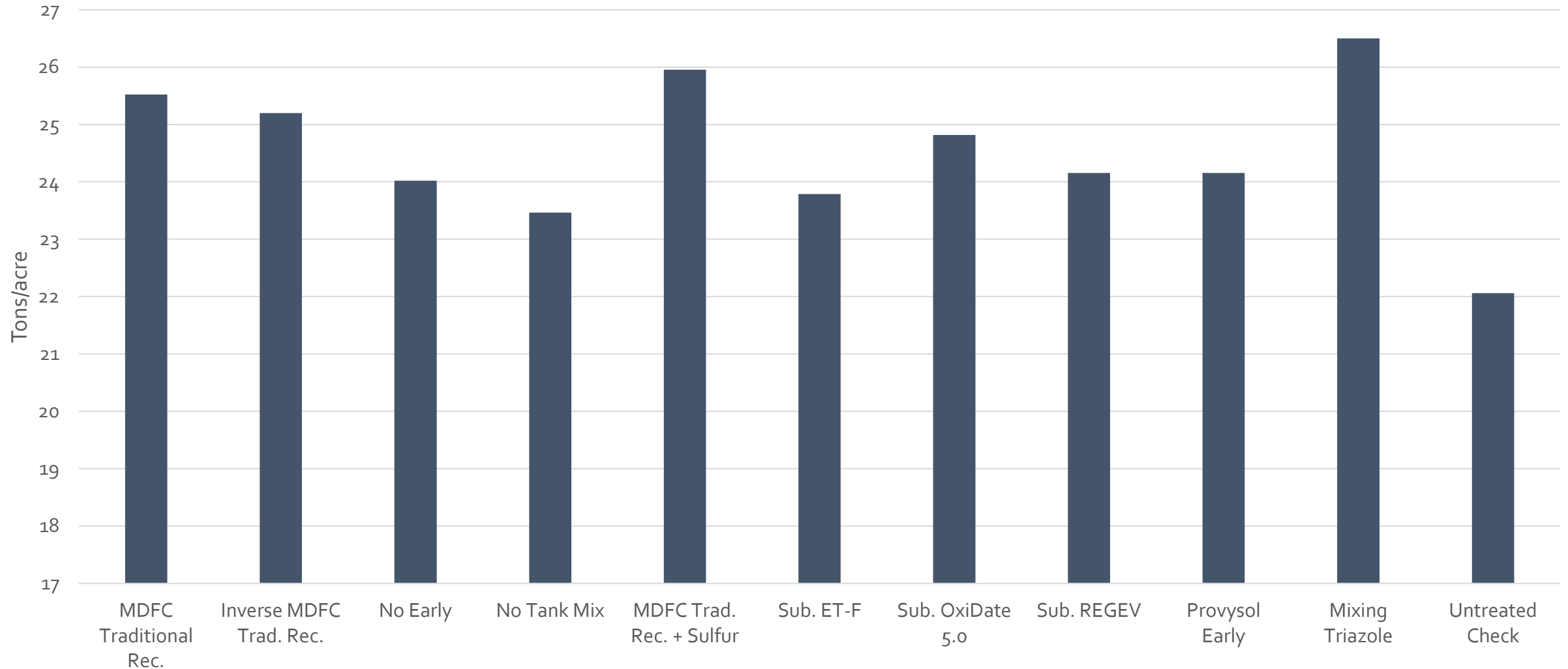


Traditional Program Comparison

LSD (p=0.10): NS
CV: 8.39



Root Yield

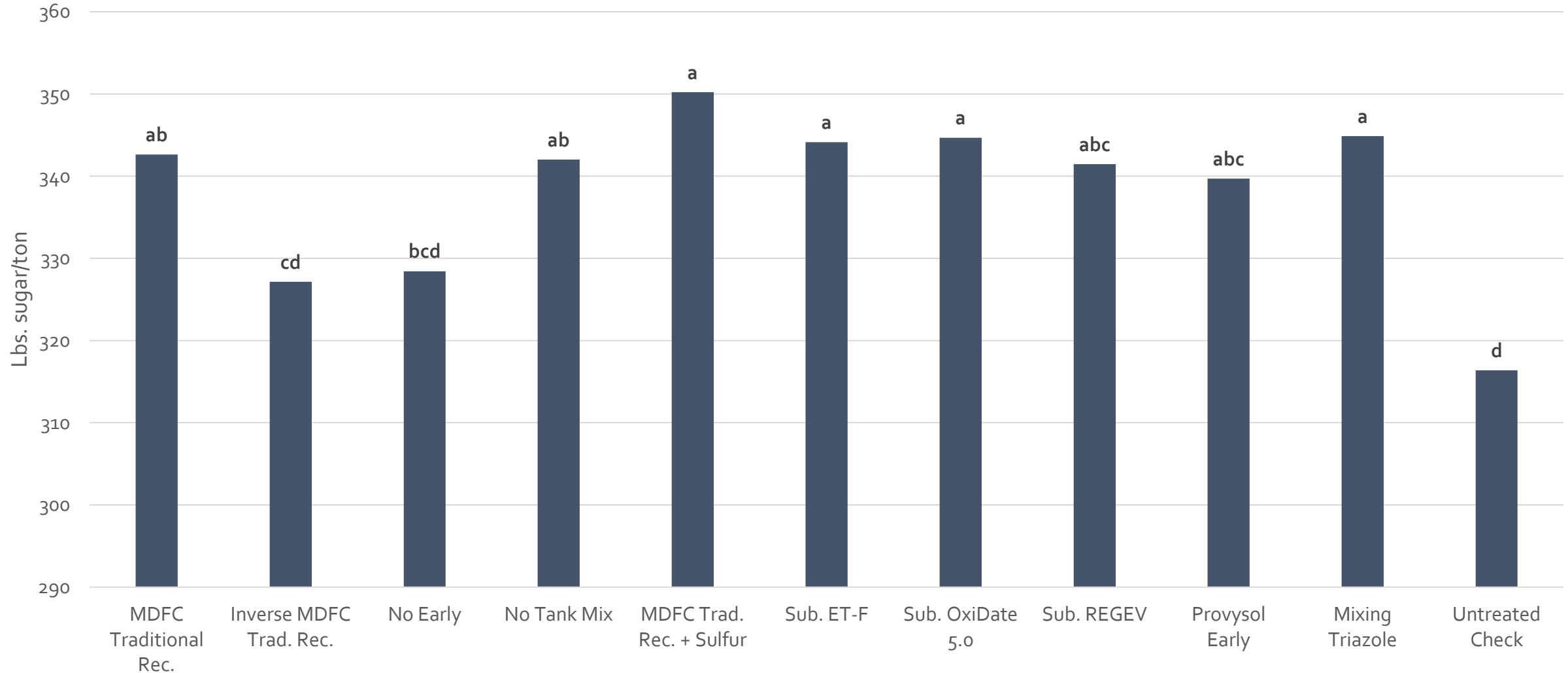


Traditional Program Comparison

LSD (p=0.10): 14.34
CV: 3.53



Recoverable Sugar per Ton



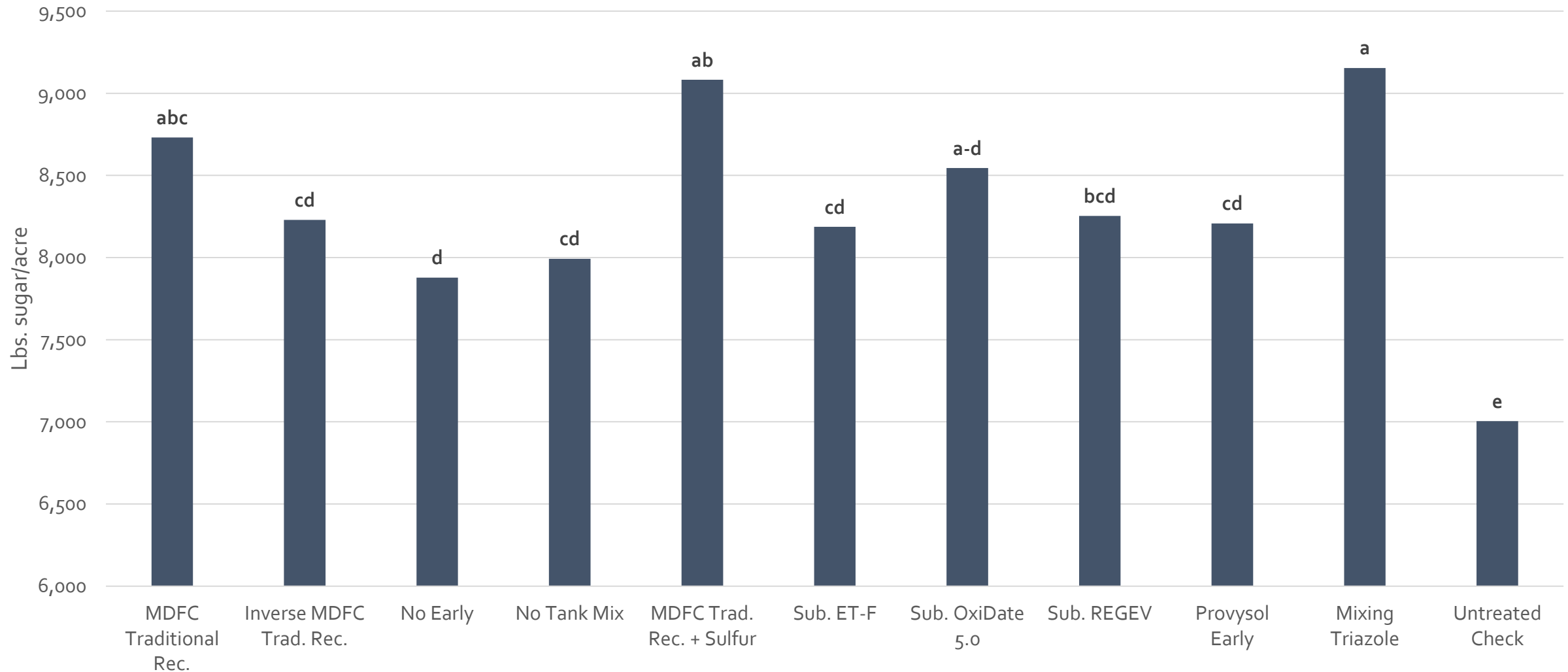
Treatments with the same letter are not statistically different

Traditional Program Comparison

LSD (p=0.10): 838.22
CV: 8.42



Recoverable Sugar per Acre



Treatments with the same letter are not statistically different