

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: Determine the effect an adjuvant has on sugarbeet yield and quality when added to CLS fungicide tank mixtures.



Trial Info.

- Six fungicide applications were made, following the MDFC 'Traditional' fungicide program:
 1. Manzate
 2. Proline + NIS + Manzate
 3. Agri Tin + Manzate
 4. Provysol + Badge
 5. Agri Tin + Manzate
 6. Minerva + Badge

**All Apps – The adjuvant was added to each fungicide tank mix.*

**Protectants – The adjuvant was added to sprays 1, 3, & 5.*



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>	12:08 PM	1:07 PM	8:40 AM	10:45 AM	6:37 PM	7:48 PM
<i>End Time:</i>	12:55 PM	1:41 PM	9:09 AM	11:00 AM	7:10 PM	8:18 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	73	81	64
<i>Humidity (%):</i>	53	52	86	77	43	44
<i>Wind Velocity (MPH):</i>	8	7	8	13	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



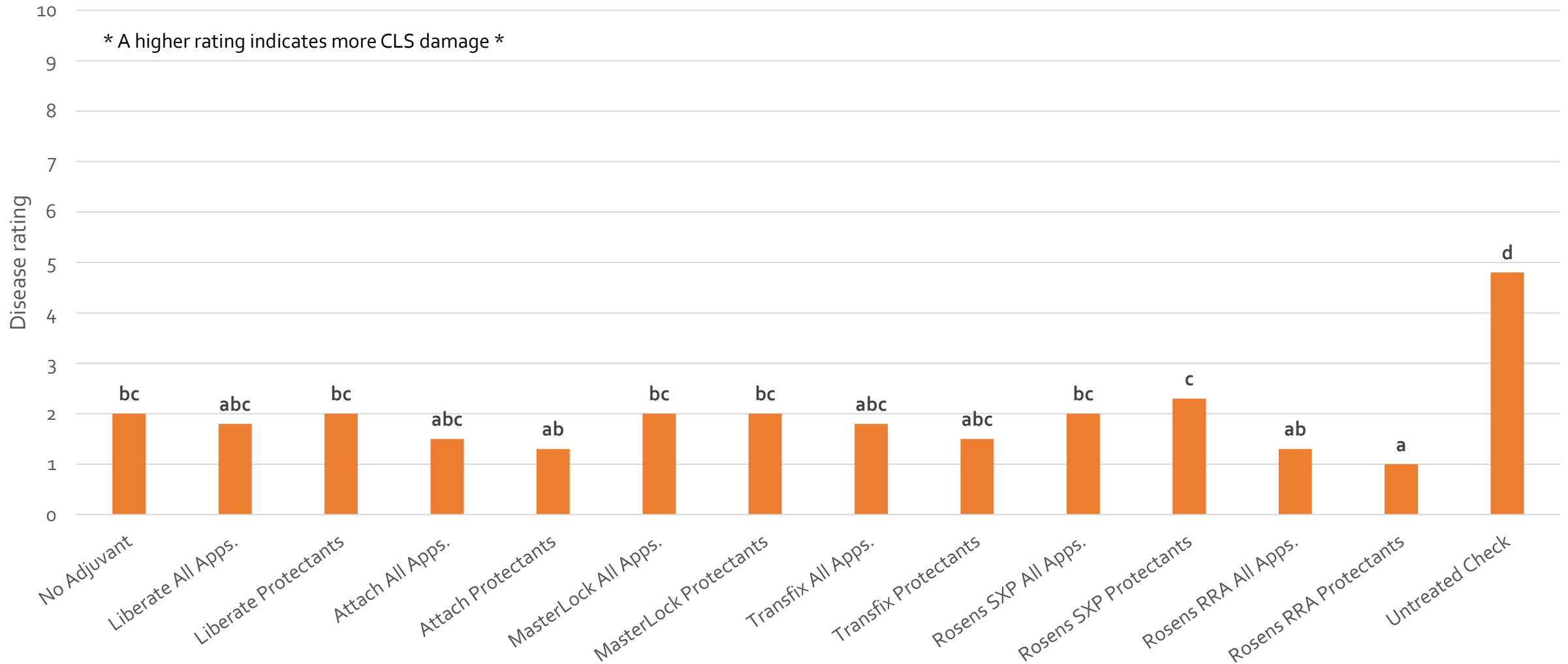
Category 10
50% severity

CLS Adjuvant Study

LSD (p=0.10): 0.82
CV: 35.57



CLS Rating – September 2, 2022



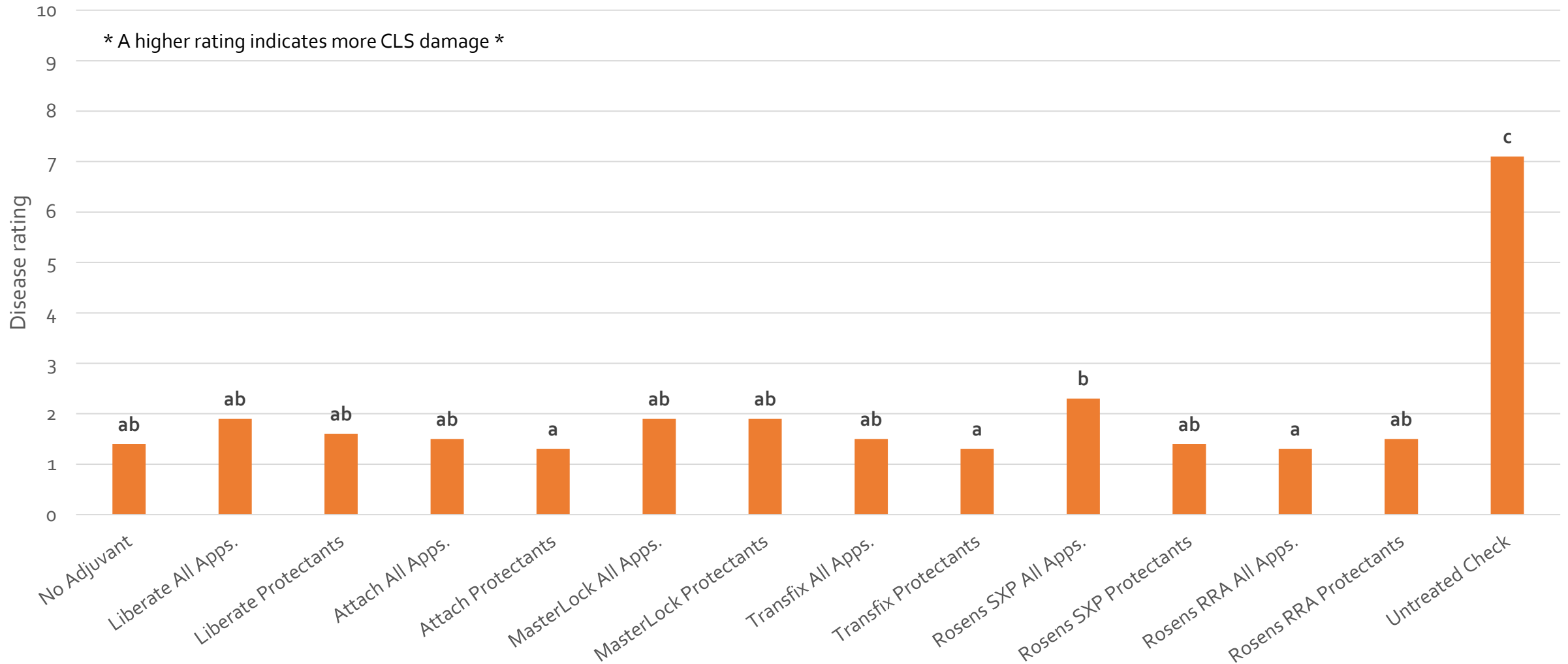
Treatments with the same letter are not statistically different

CLS Adjuvant Study

LSD (p=0.10): 0.90
CV: 38.38



CLS Rating – September 12, 2022



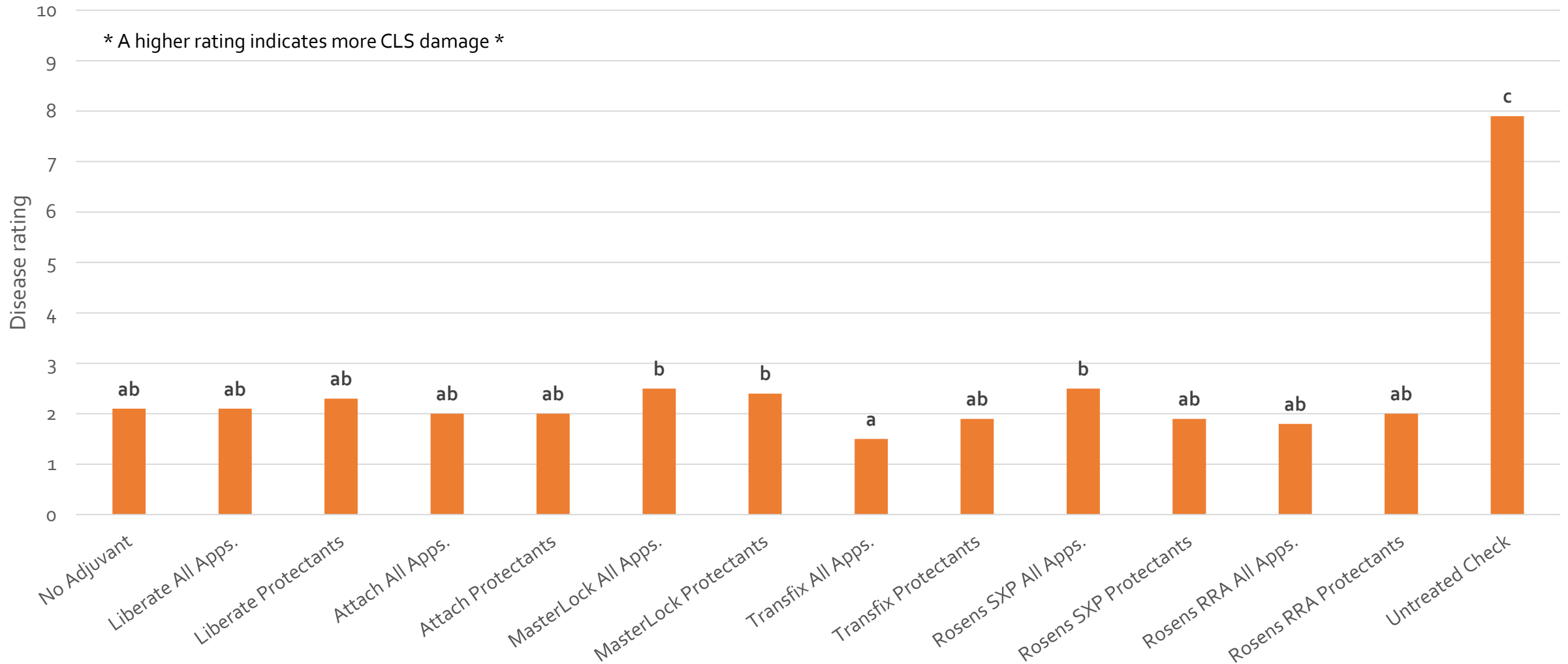
Treatments with the same letter are not statistically different

CLS Adjuvant Study

LSD (p=0.10): 0.78
CV: 26.35



CLS Rating – September 19, 2022



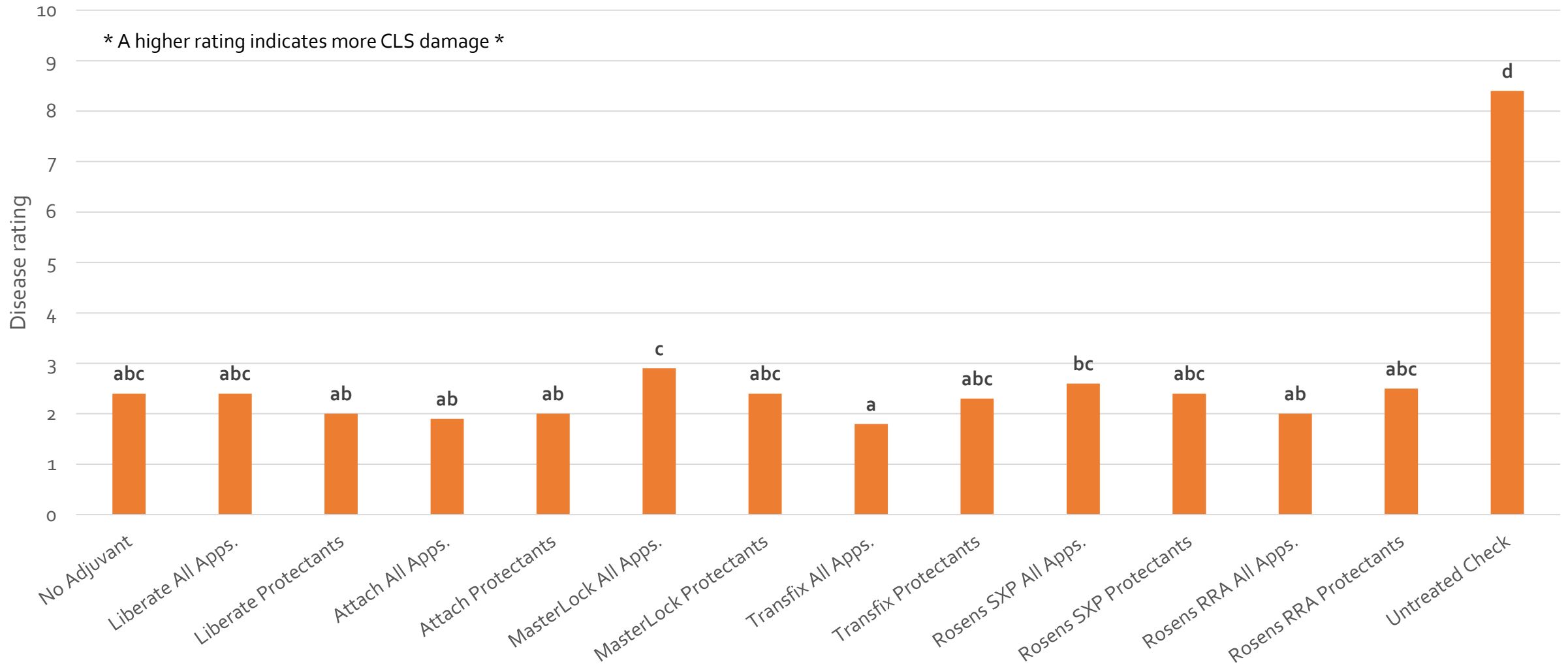
Treatments with the same letter are not statistically different

CLS Adjuvant Study



LSD (p=0.10): 0.78
CV: 24.16

CLS Rating – September 26, 2022

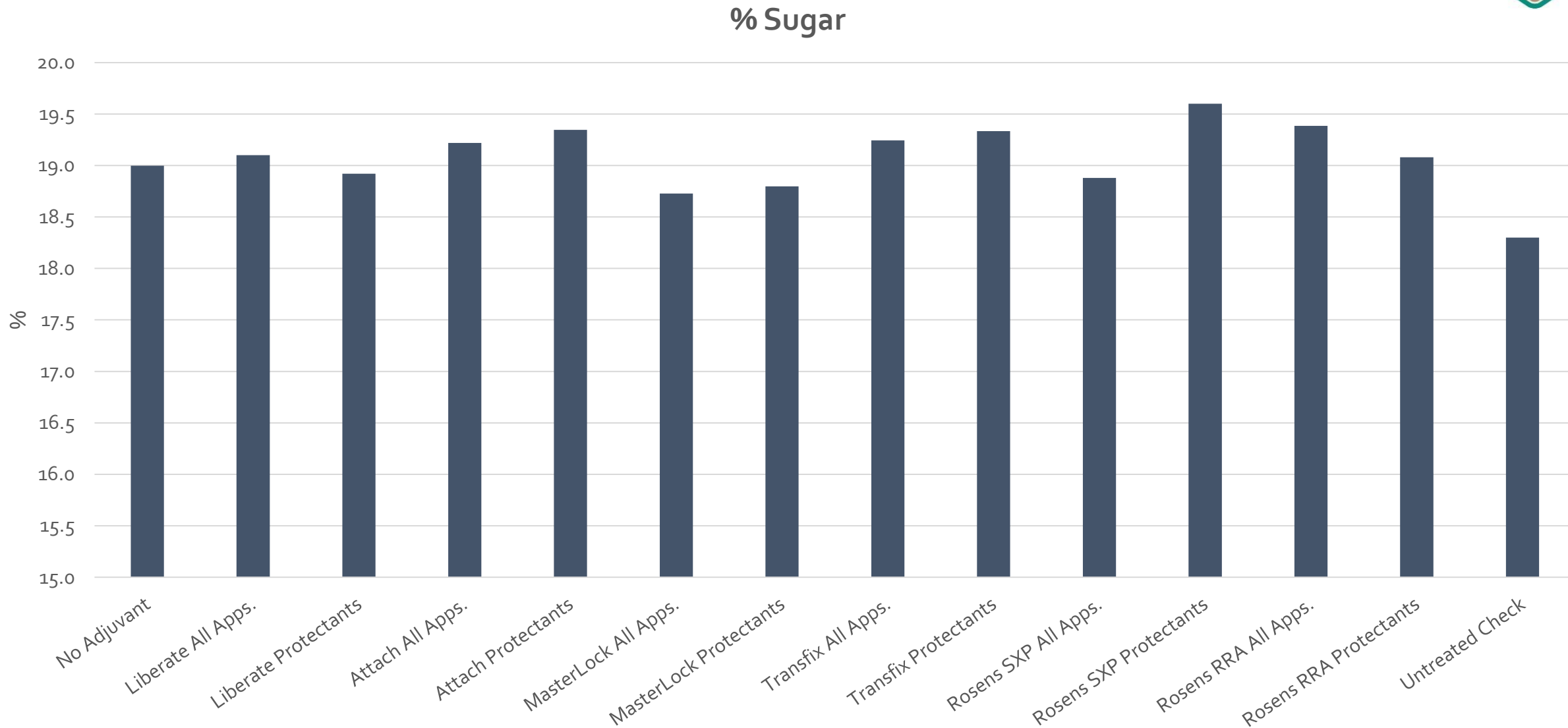


Treatments with the same letter are not statistically different

CLS Adjuvant Study

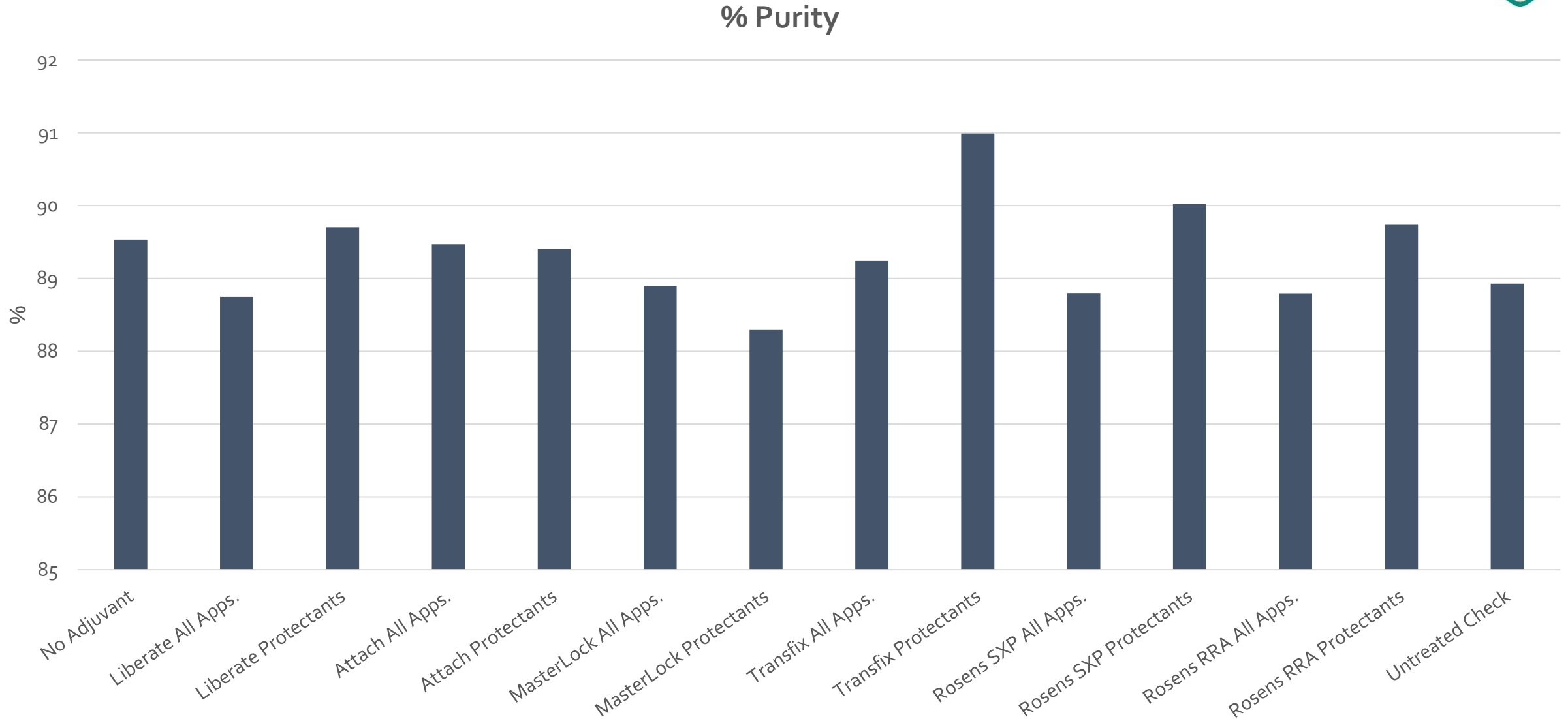


LSD (p=0.10): NS
CV: 3.02



CLS Adjuvant Study

LSD (p=0.10): NS
CV: 1.77

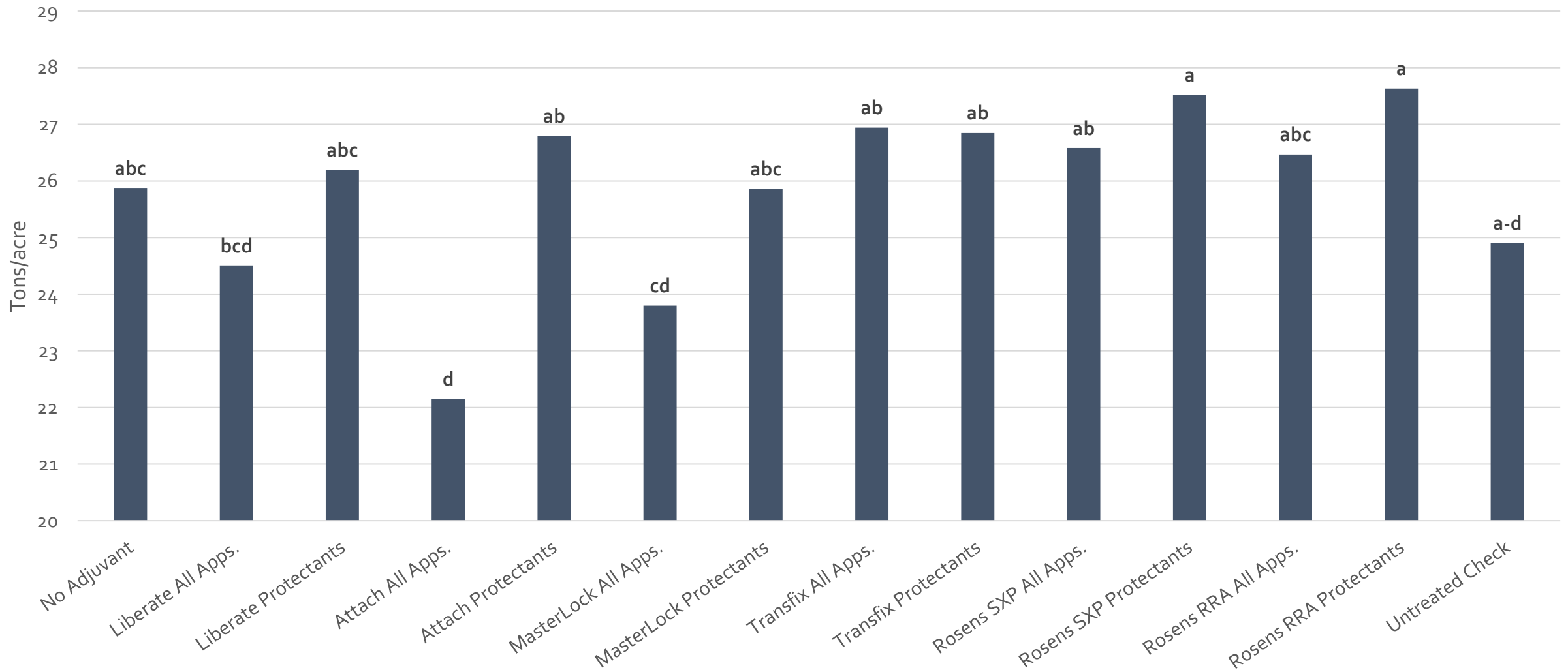


CLS Adjuvant Study

LSD (p=0.10): 2.76
CV: 8.97



Root Yield



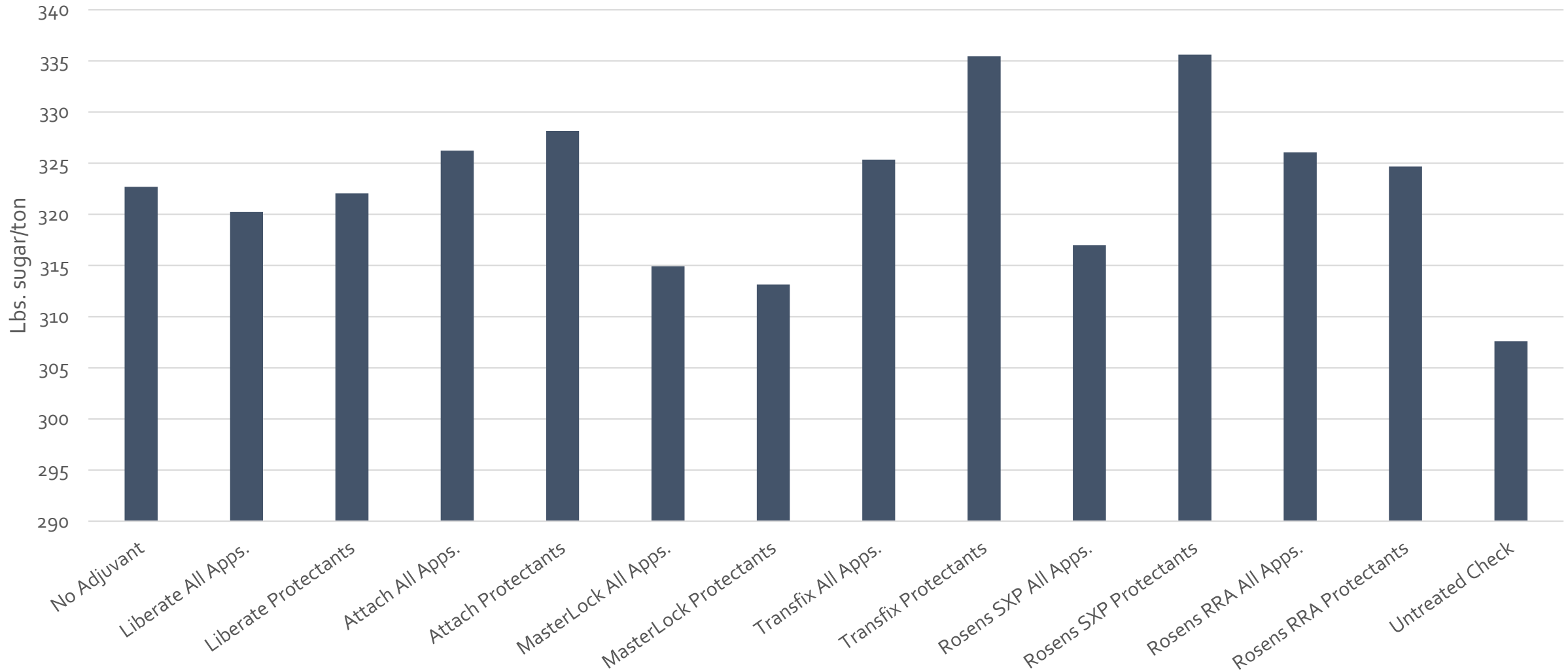
Treatments with the same letter are not statistically different

CLS Adjuvant Study



LSD (p=0.10): NS
CV: 4.58

Recoverable Sugar per Ton

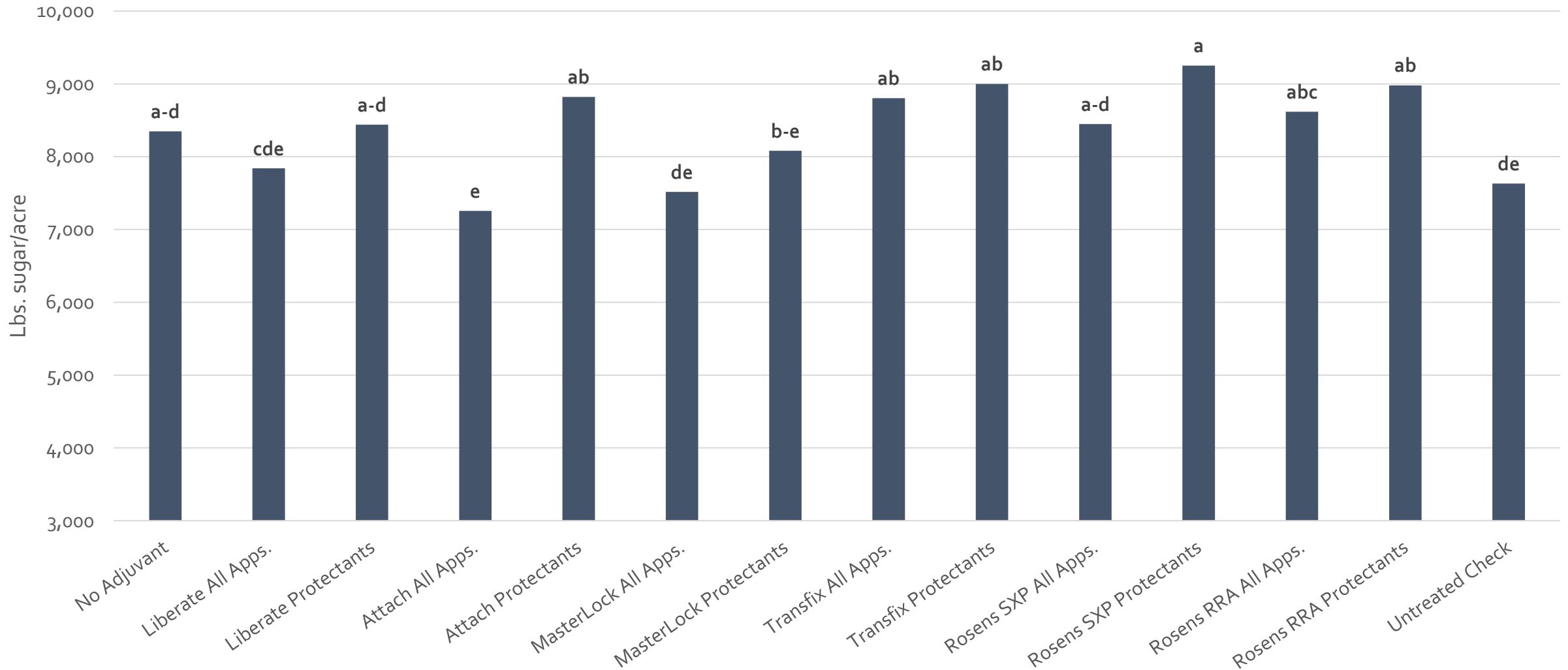


CLS Adjuvant Study



LSD (p=0.10): 956.14
CV: 9.60

Recoverable Sugar per Acre



Treatments with the same letter are not statistically different