

Trial Info. – ACH CR+



- Planted: May 15, 2020
- Inoculated: July 7, 2020
- Harvested: September 18, 2020
- Location: Sec. 1, NW $\frac{1}{4}$; Champion Twp., Wilkin County
- Objective: Determine the best fungicide program for the new CLS tolerance varieties.

Trial Info. – ACH CR+



- Three fungicide programs were tested:
 - Early
 - Start on time but only 3 applications were made (last spray July 31)
 - Late
 - Start at the end of July and only spray 3 applications
 - Season-long
 - Follow the MDFC program – start on time and spray all season
- Three varieties were tested:
 - CR+ ~ CLS rating 1.65 ~ ACH 973
 - CR₁ ~ CLS rating 2.72 ~ ACH 968
 - Traditional ~ CLS rating 4.05 ~ ACH 765

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



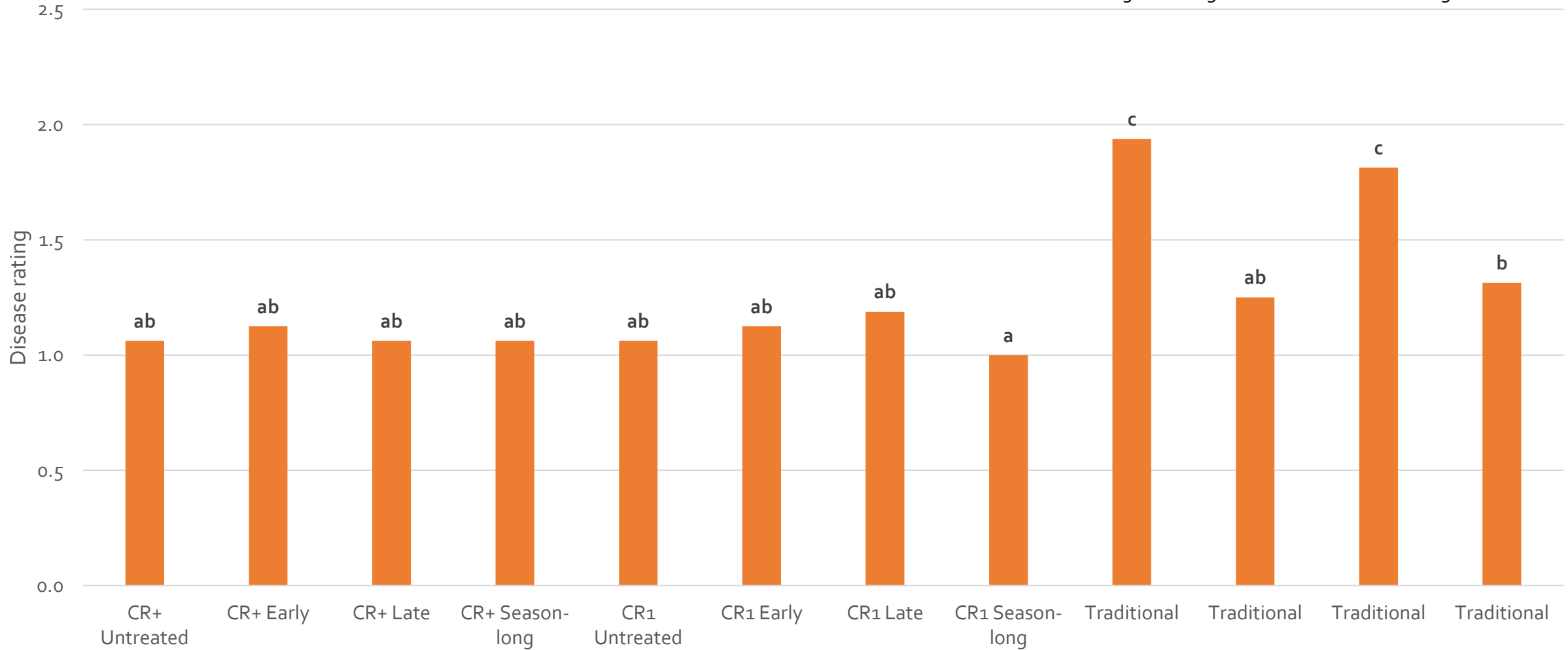
ACH CR+

LSD (p=0.10): 0.28
CV: 18.80



CLS Rating ~ August 11, 2020

* A higher rating indicates more CLS damage *



Treatments with the same letter are not statistically different



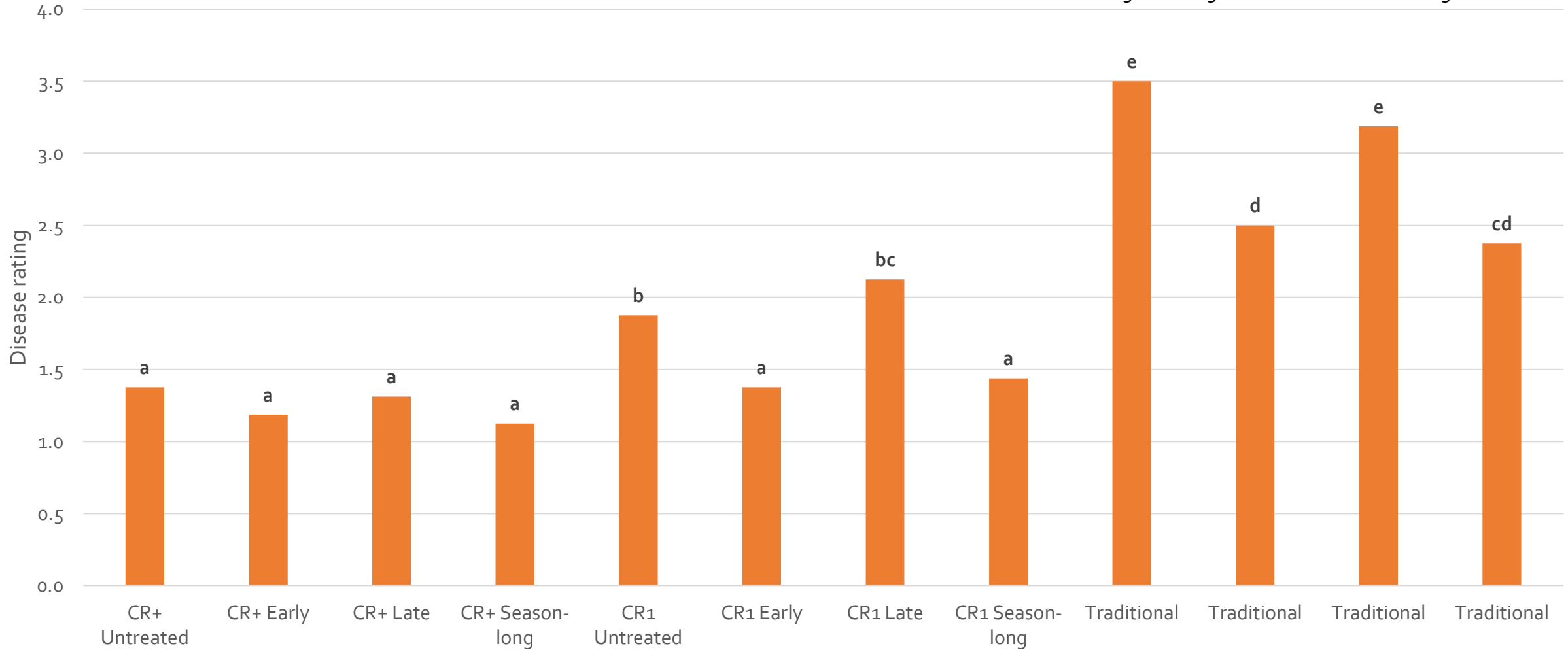
ACH CR+

LSD (p=0.10): 0.33
CV: 14.26



CLS Rating ~ August 19, 2020

* A higher rating indicates more CLS damage *



Treatments with the same letter are not statistically different



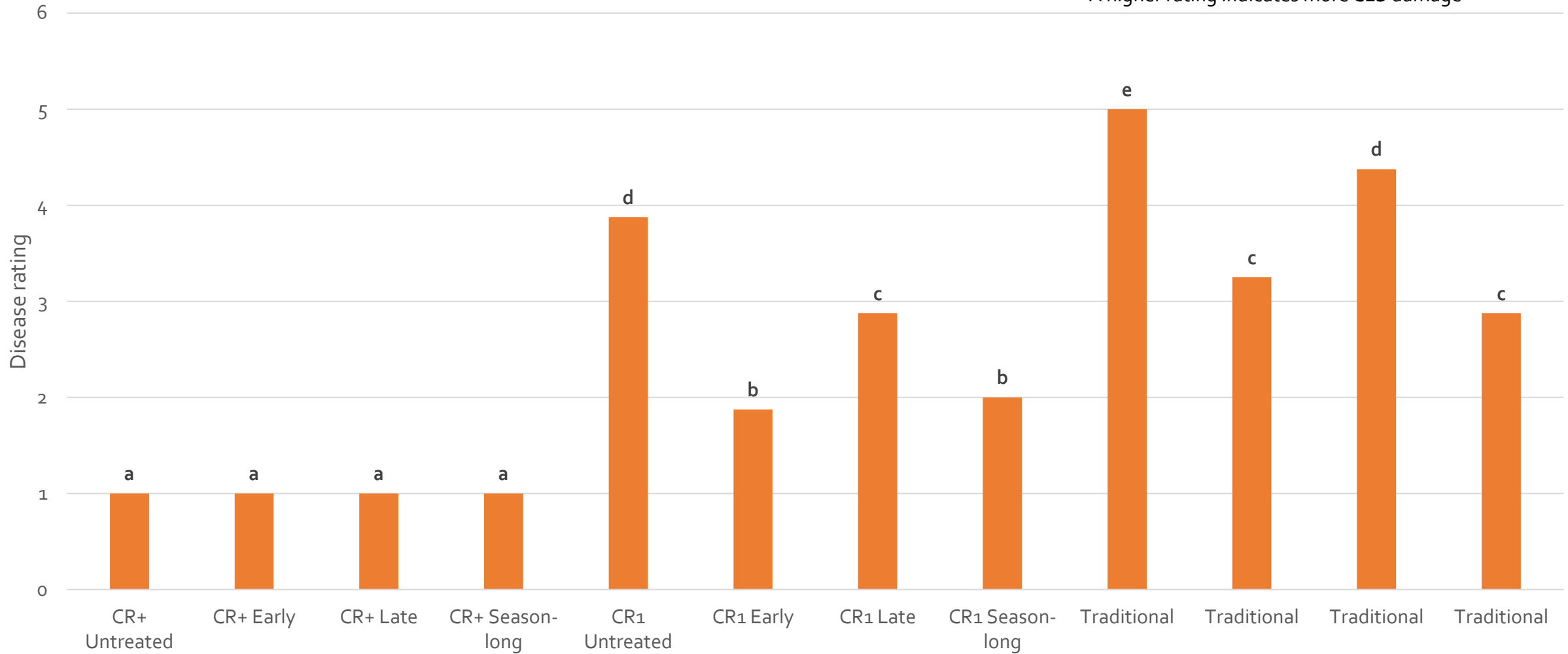
ACH CR+

LSD (p=0.10): 0.58
CV: 19.47



CLS Rating ~ August 26, 2020

* A higher rating indicates more CLS damage *



Treatments with the same letter are not statistically different



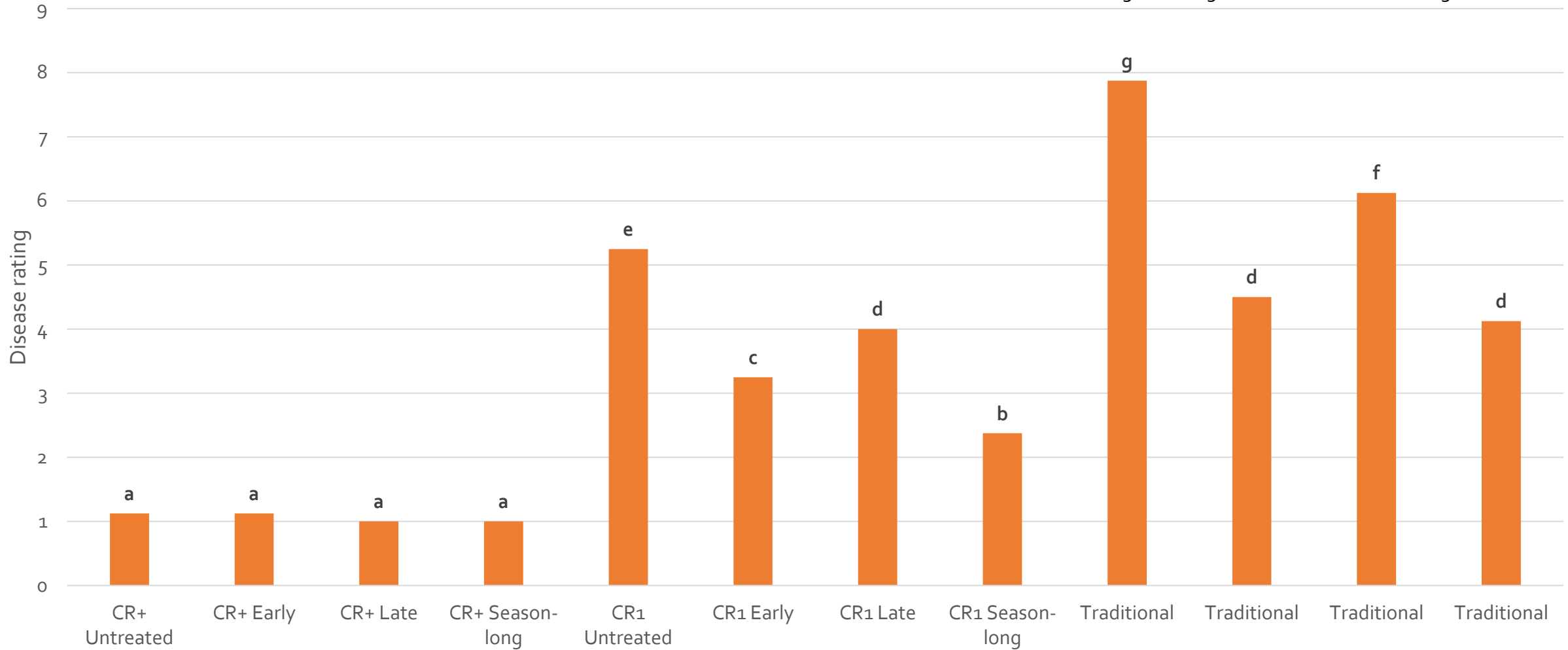
ACH CR+

LSD ($p=0.10$): 0.51
CV: 12.19



CLS Rating ~ September 2, 2020

* A higher rating indicates more CLS damage *



Treatments with the same letter are not statistically different



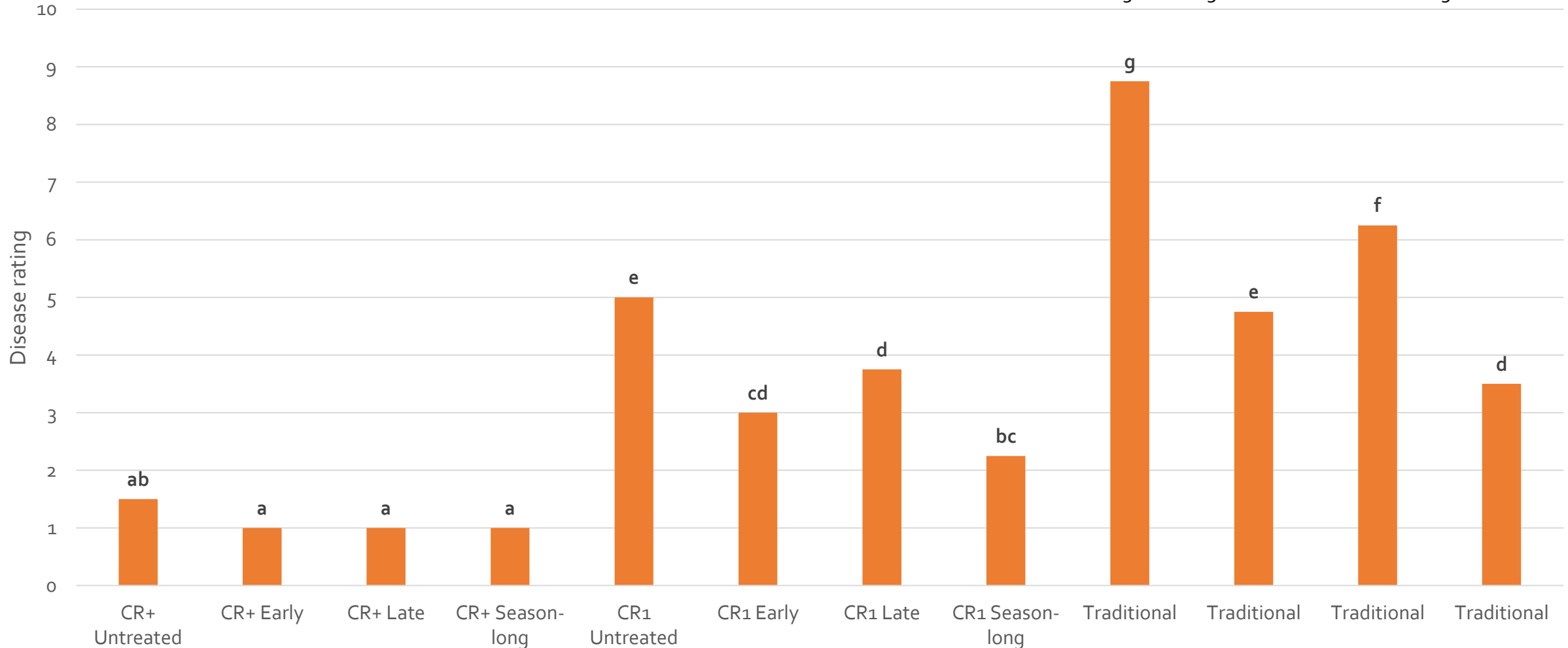
ACH CR+

LSD (p=0.10): 0.83
CV: 20.03



CLS Rating ~ September 8, 2020

* A higher rating indicates more CLS damage *



Treatments with the same letter are not statistically different

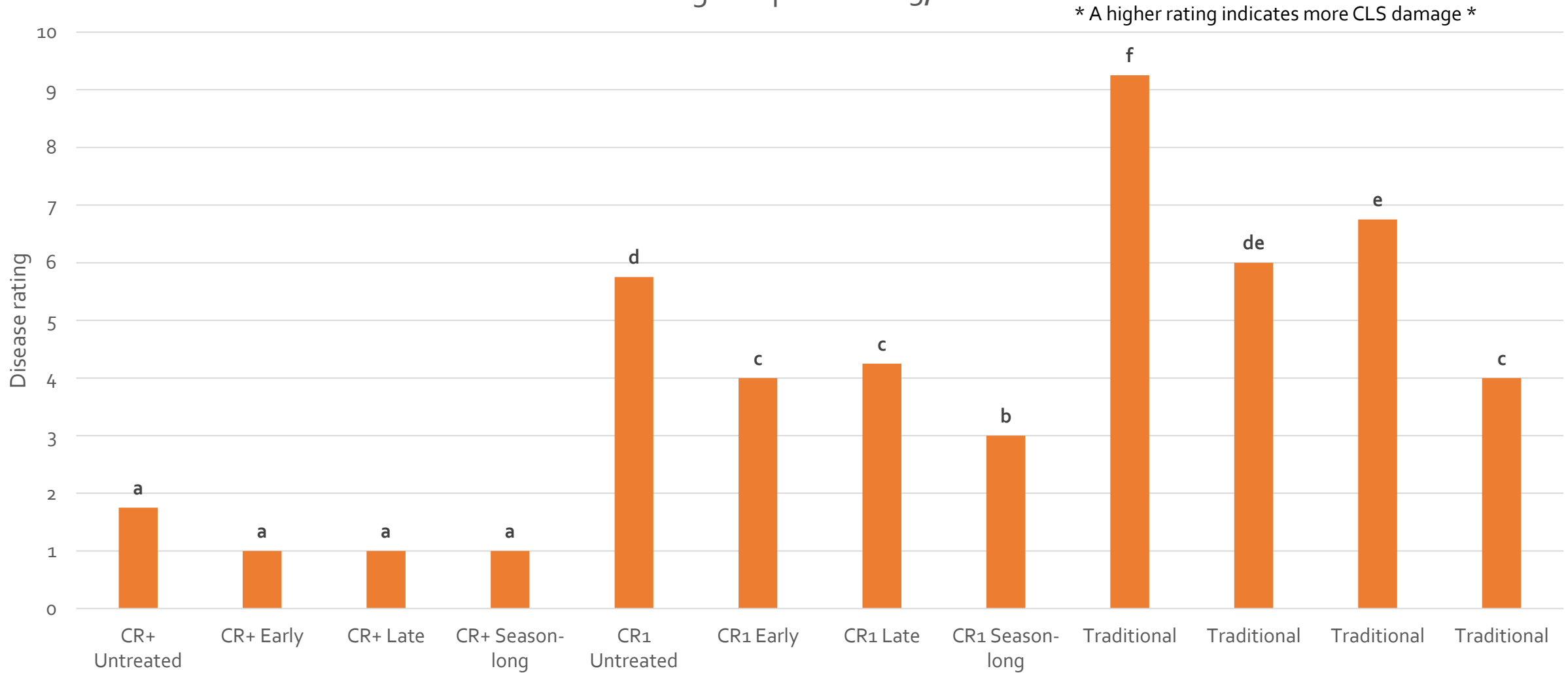


ACH CR+

LSD (p=0.10): 0.91
CV: 19.08



CLS Rating ~ September 15, 2020

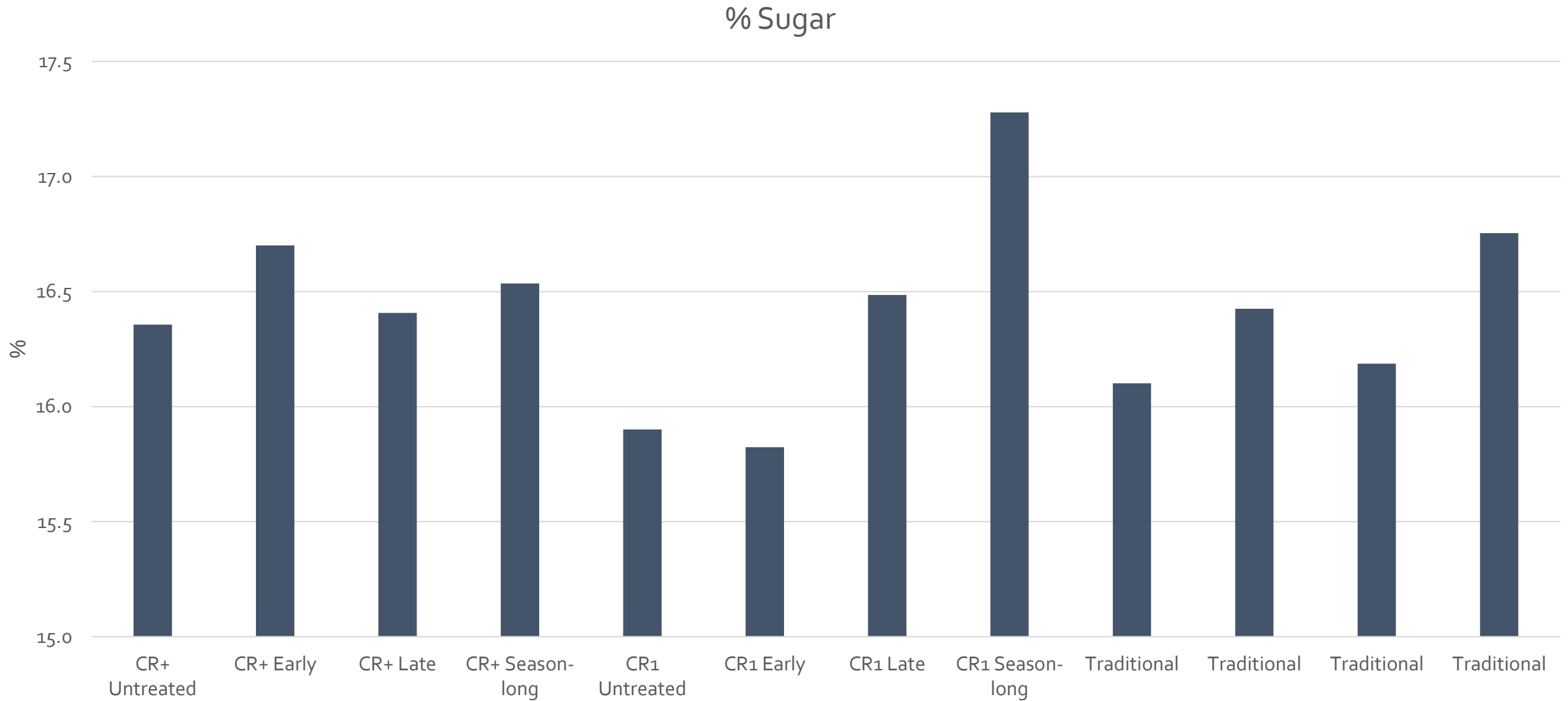


Treatments with the same letter are not statistically different



ACH CR+

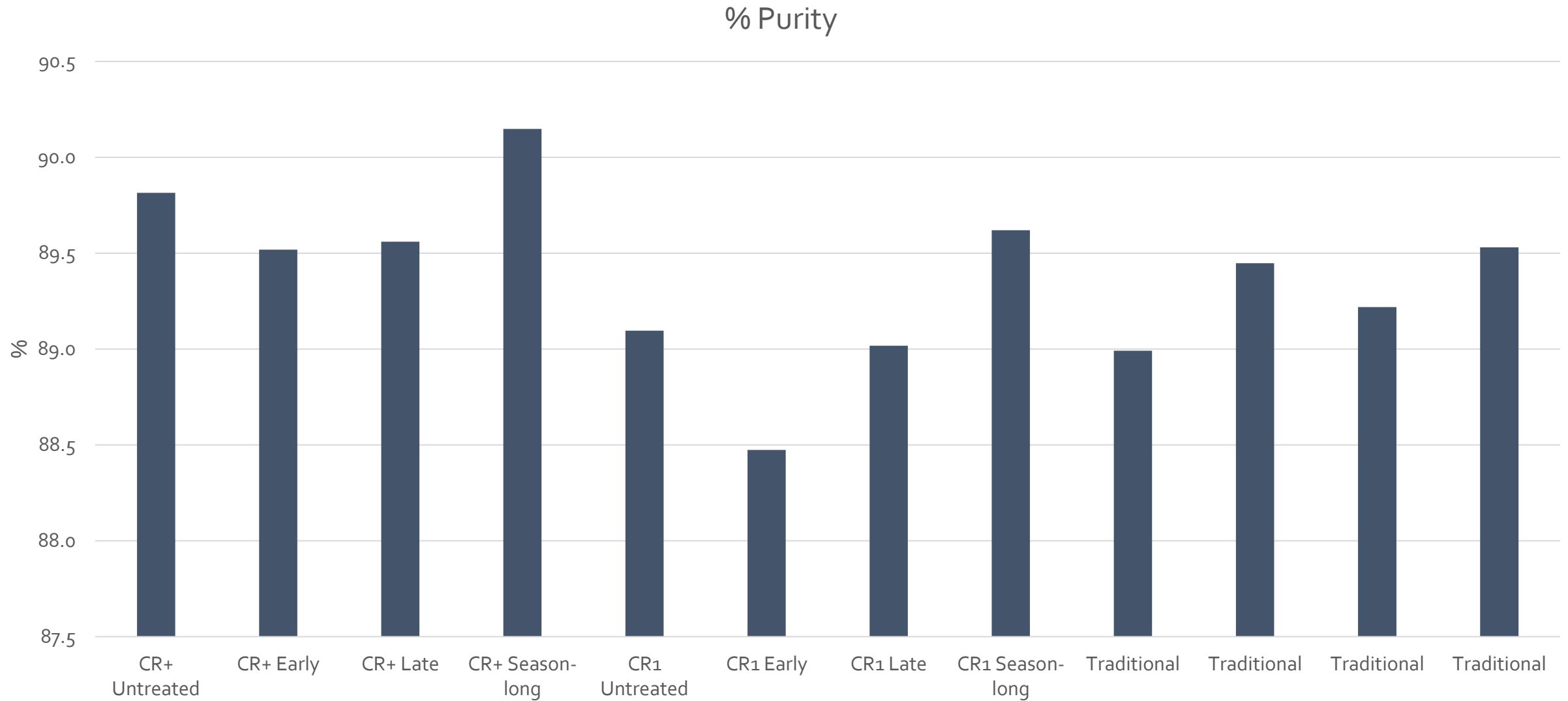
LSD (p=0.10): NS
CV: 5.05





ACH CR+

LSD (p=0.10): NS
CV: 1.01



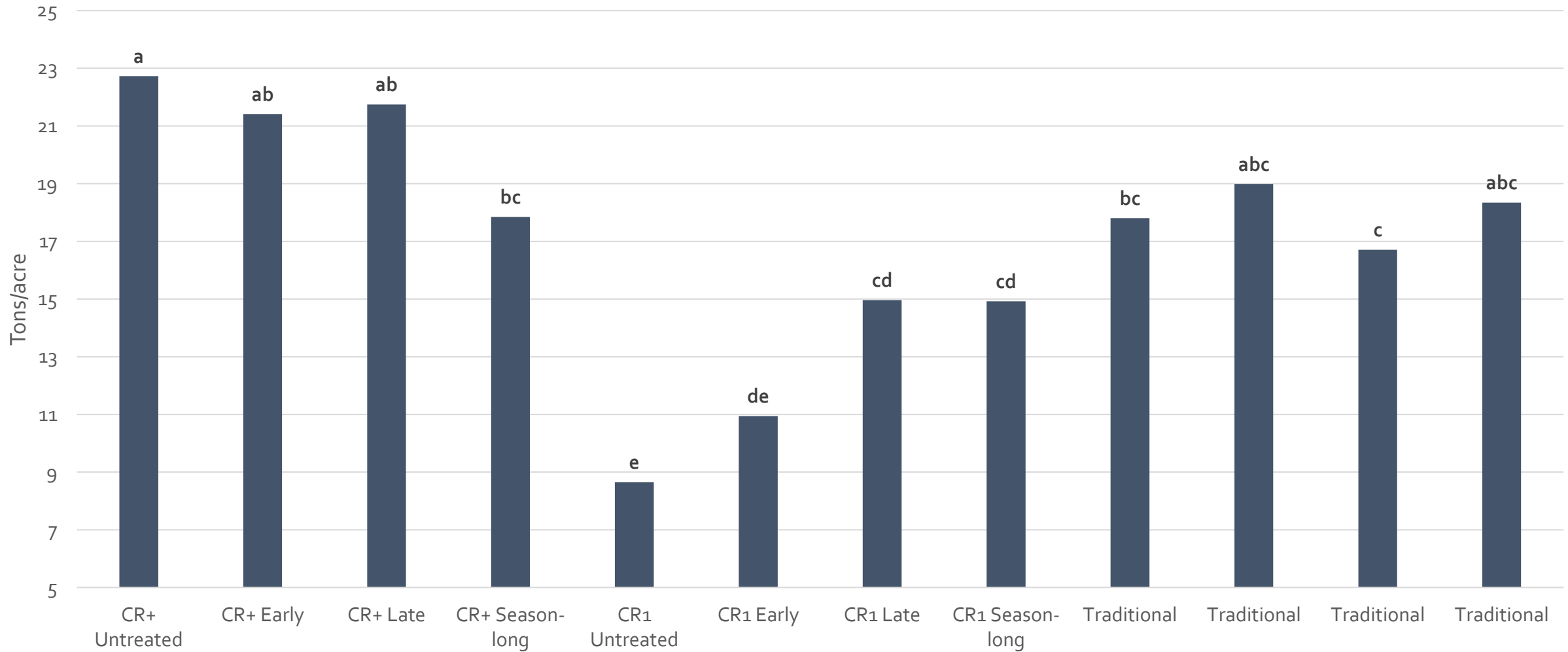


ACH CR+



LSD (p=0.10): 4.48
CV: 21.92

Root Yield



Treatments with the same letter are not statistically different

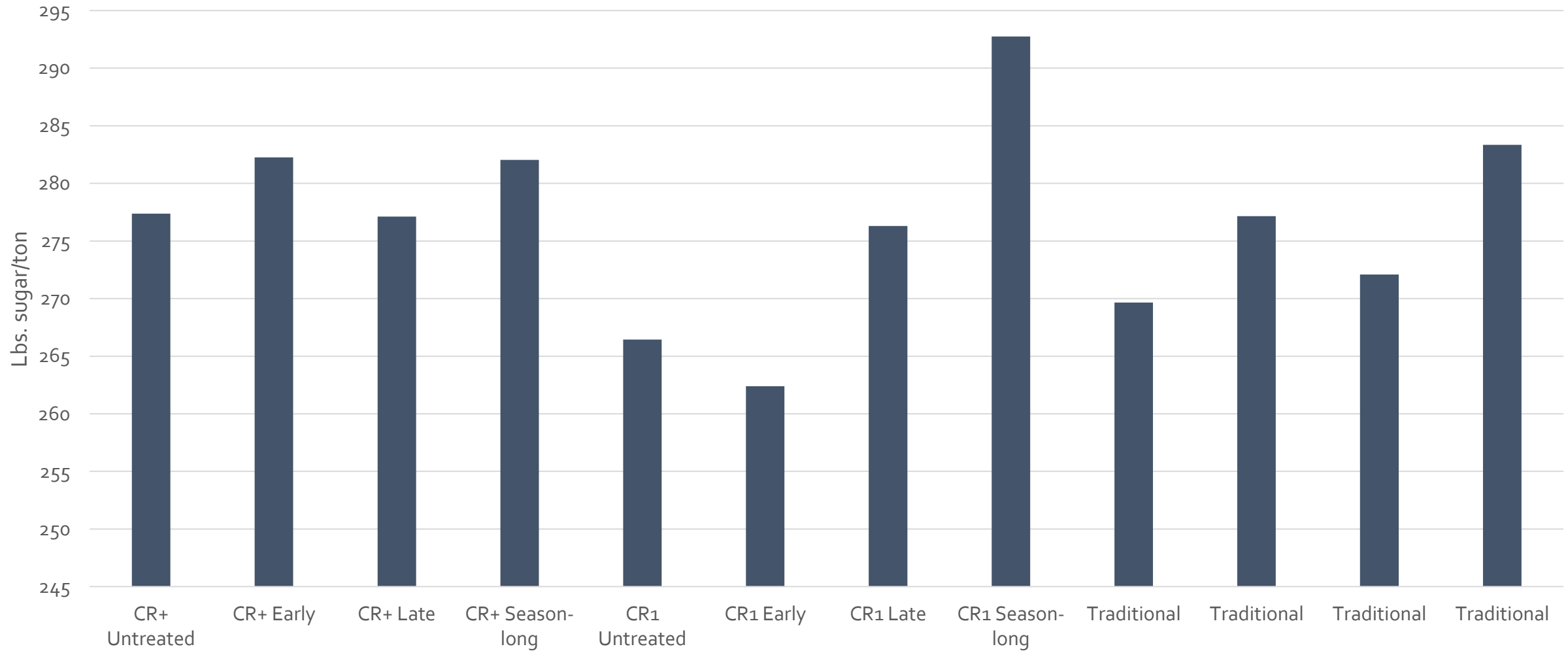


ACH CR+



LSD (p=0.10): NS
CV: 6.04

Recoverable Sugar per Ton



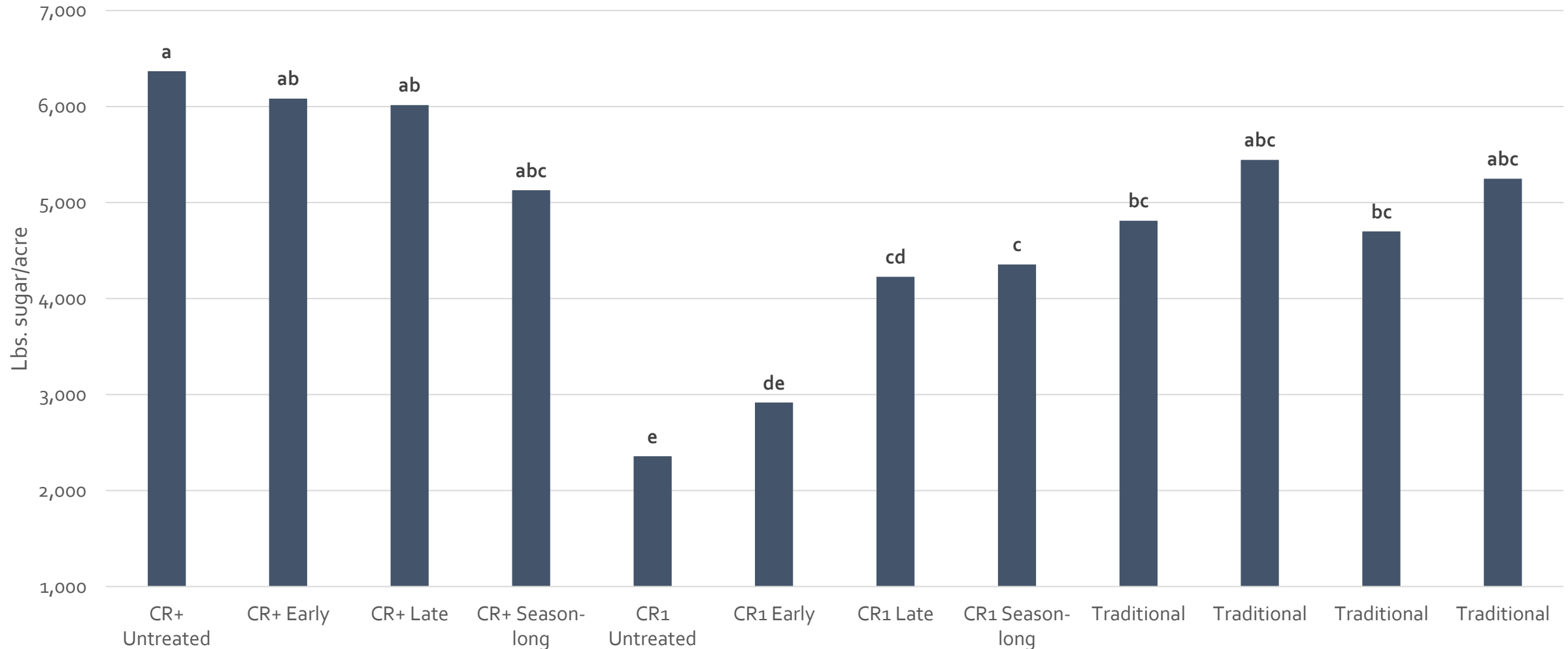


ACH CR+

LSD (p=0.10): 1,436.46
CV: 24.99



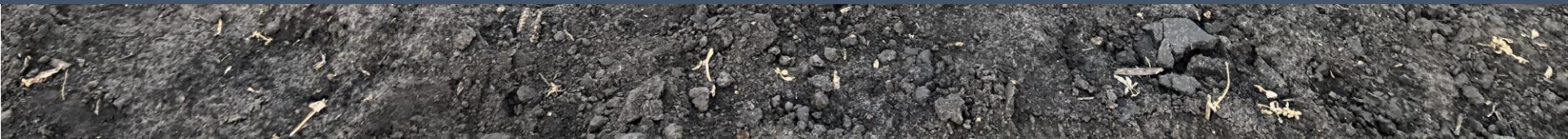
Recoverable Sugar per Acre



Treatments with the same letter are not statistically different



CR+ Untreated ~ 9/15/2020





CR+ Early ~ 9/15/2020





CR+ Late ~ 9/15/2020





CR+ Season-long ~ 9/15/2020





CR1 Untreated ~ 9/15/2020





CR1 Early ~ 9/15/2020





CR1 Late ~ 9/15/2020





CR₁ Season-long ~ 9/15/2020





Traditional Untreated ~ 9/15/2020





Traditional Early ~ 9/15/2020





Traditional Late ~ 9/15/2020





Traditional Season-long ~ 9/15/2020

