

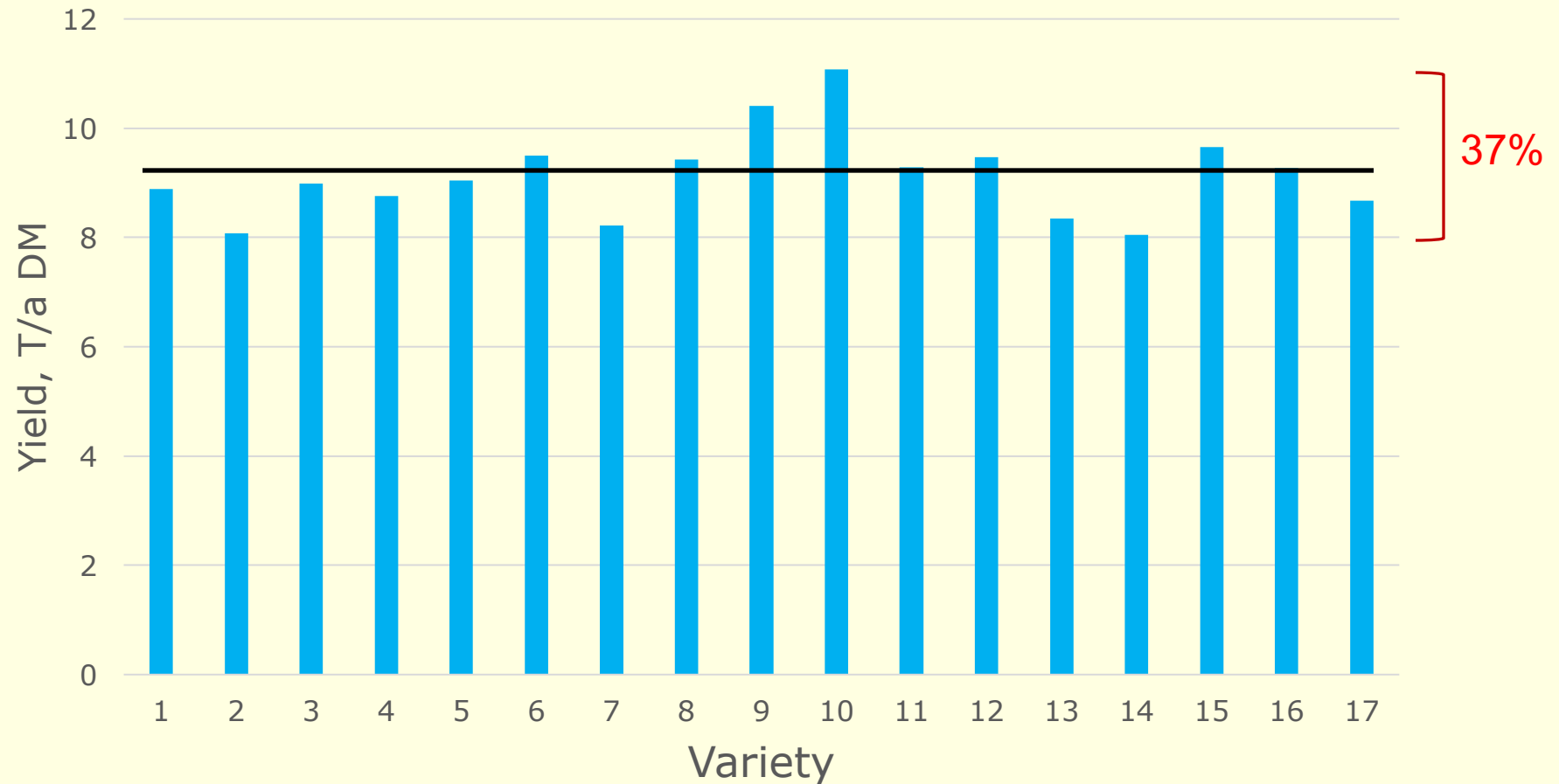
Is there a yield penalty to low lignin alfalfa?

Dr. Dan Undersander
University of Wisconsin

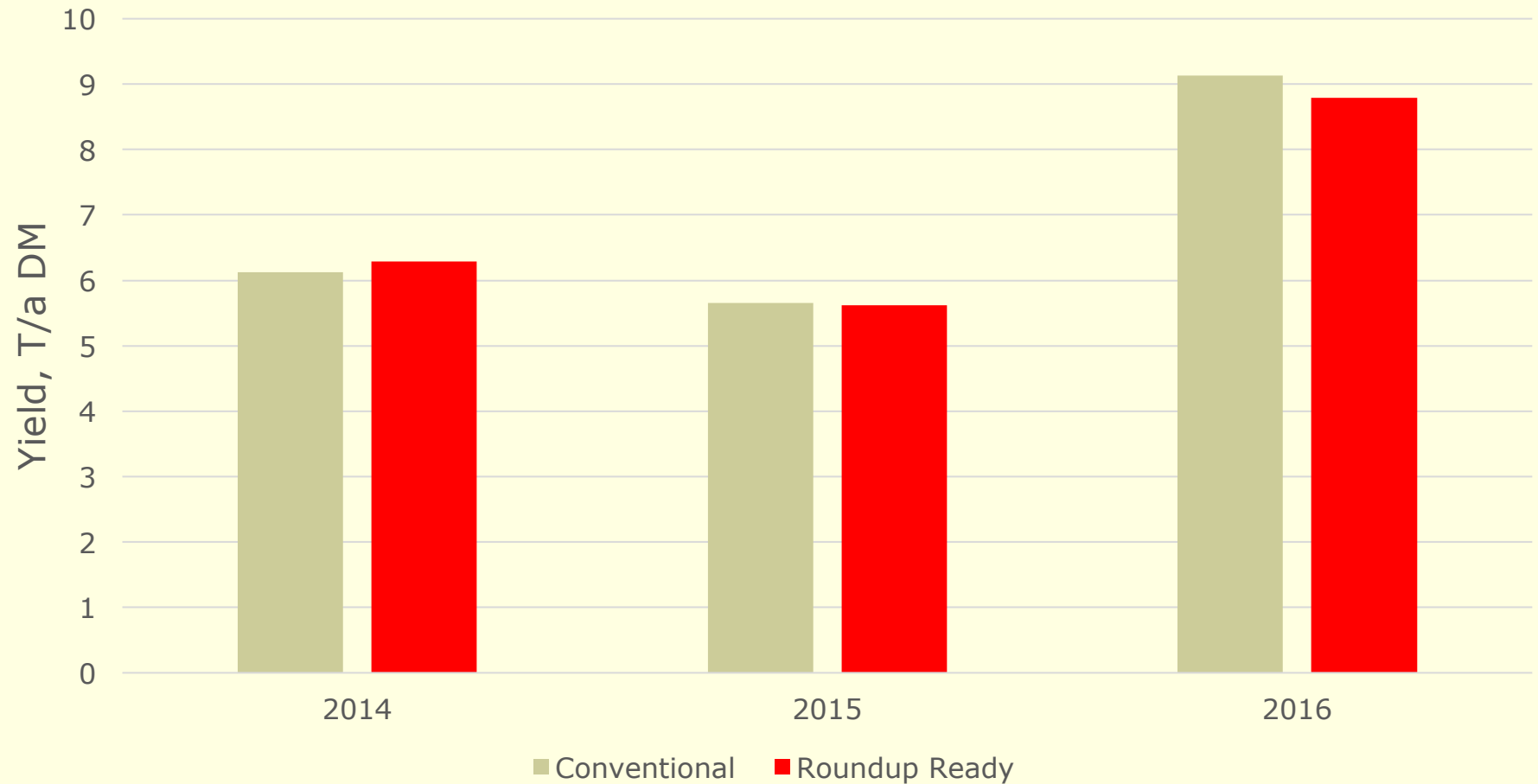
Topics to be covered

- Is there a yield drag for Roundup Ready® alfalfa?
- Is there a yield drag for Reduced Lignin alfalfa?

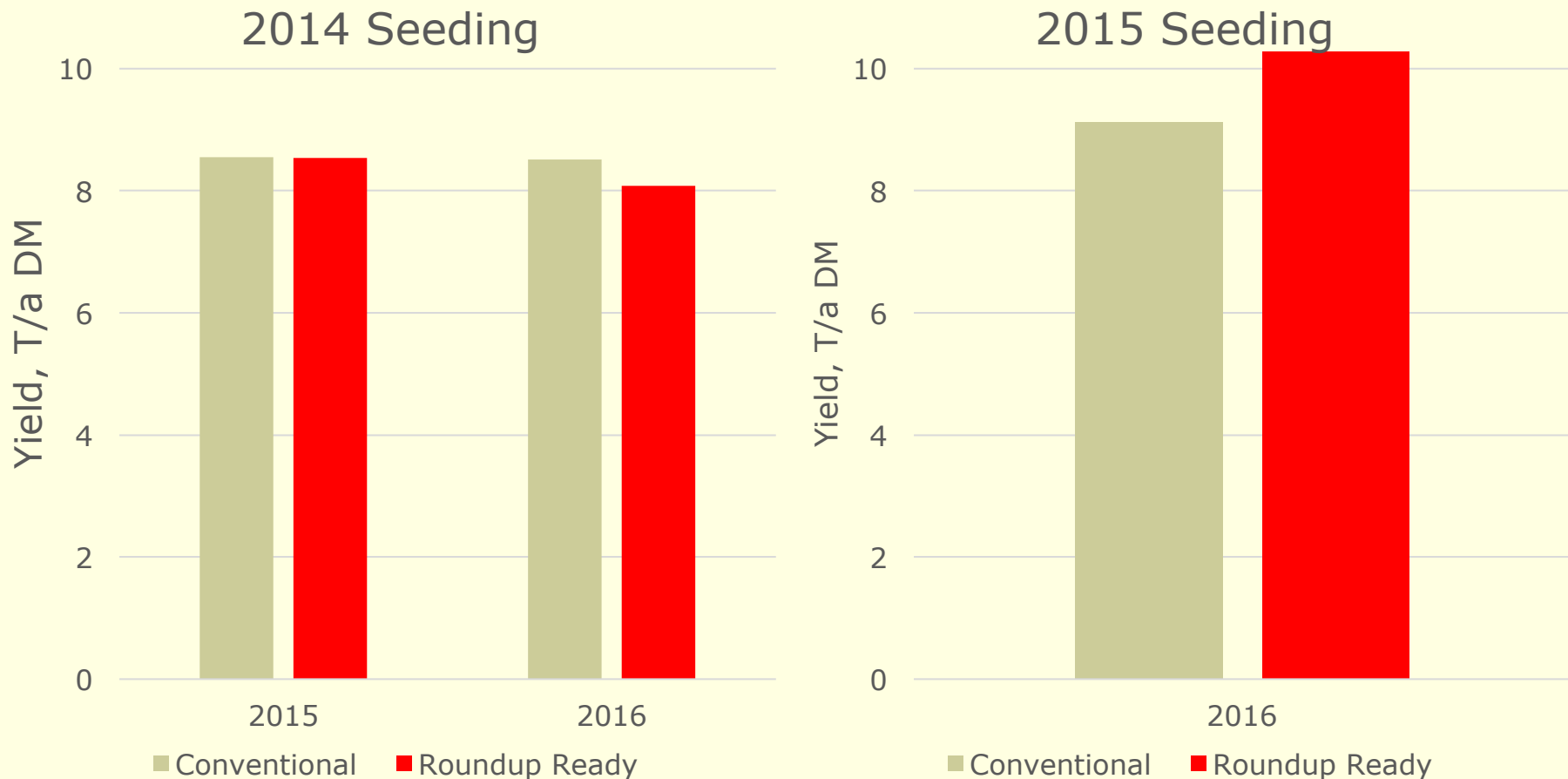
Yield of Alfalfa Varieties, Arlington, WI 2016 from 2015 seeding



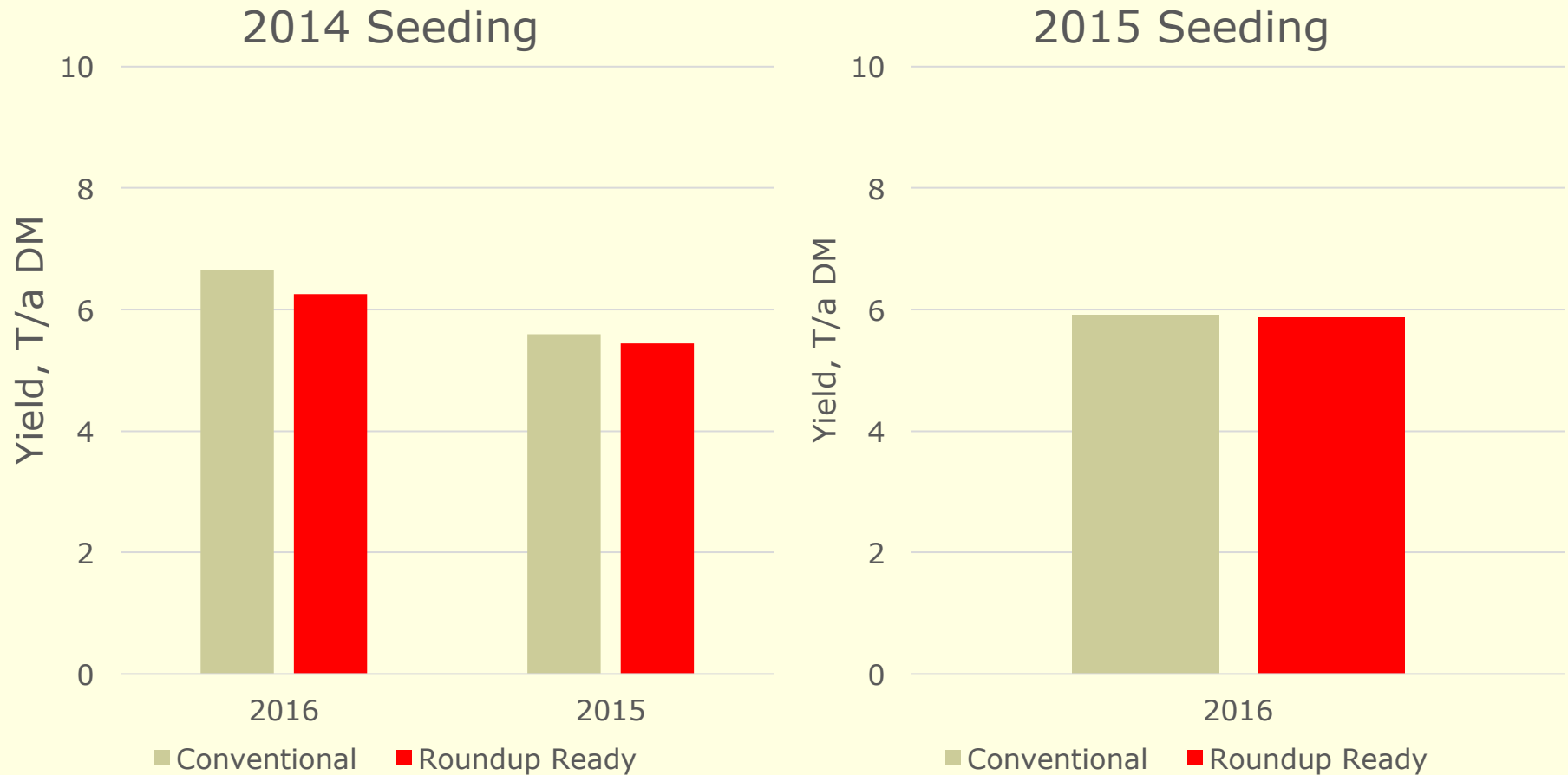
UW Arlington Variety Trial Means, 2013 seeding



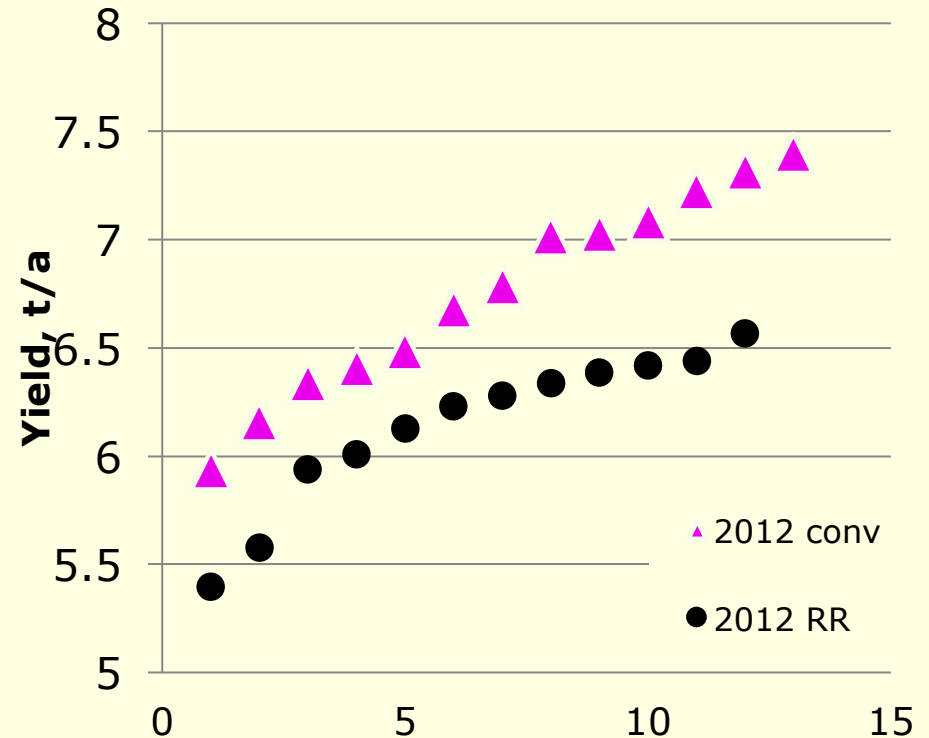
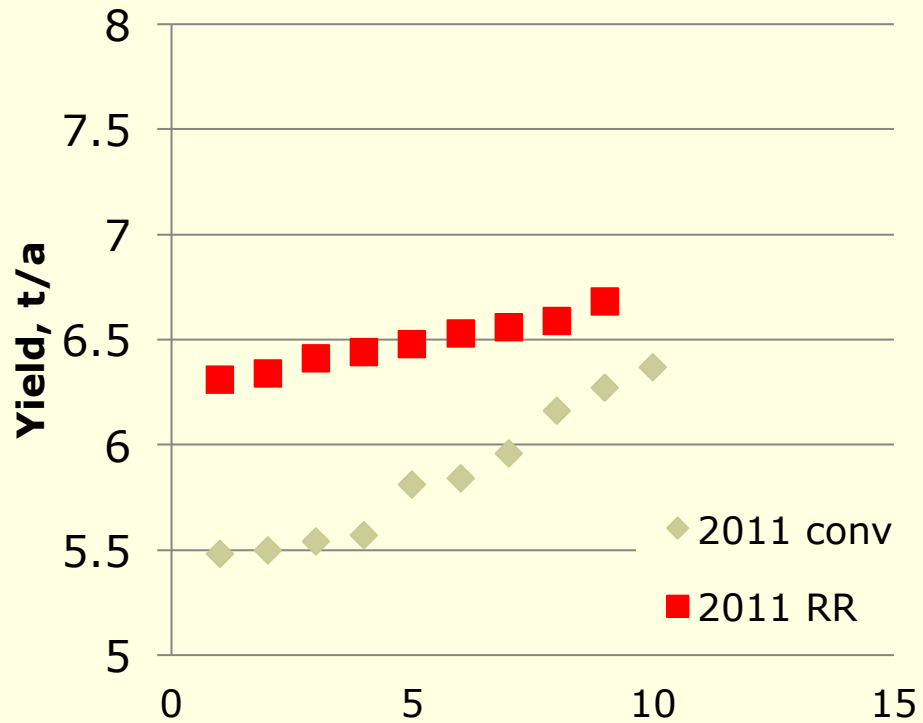
UW Arlington Variety Trial Means, 2014 & 2015 seeding



UW Marshfield Variety Trial Means, 2014 & 2015 seeding

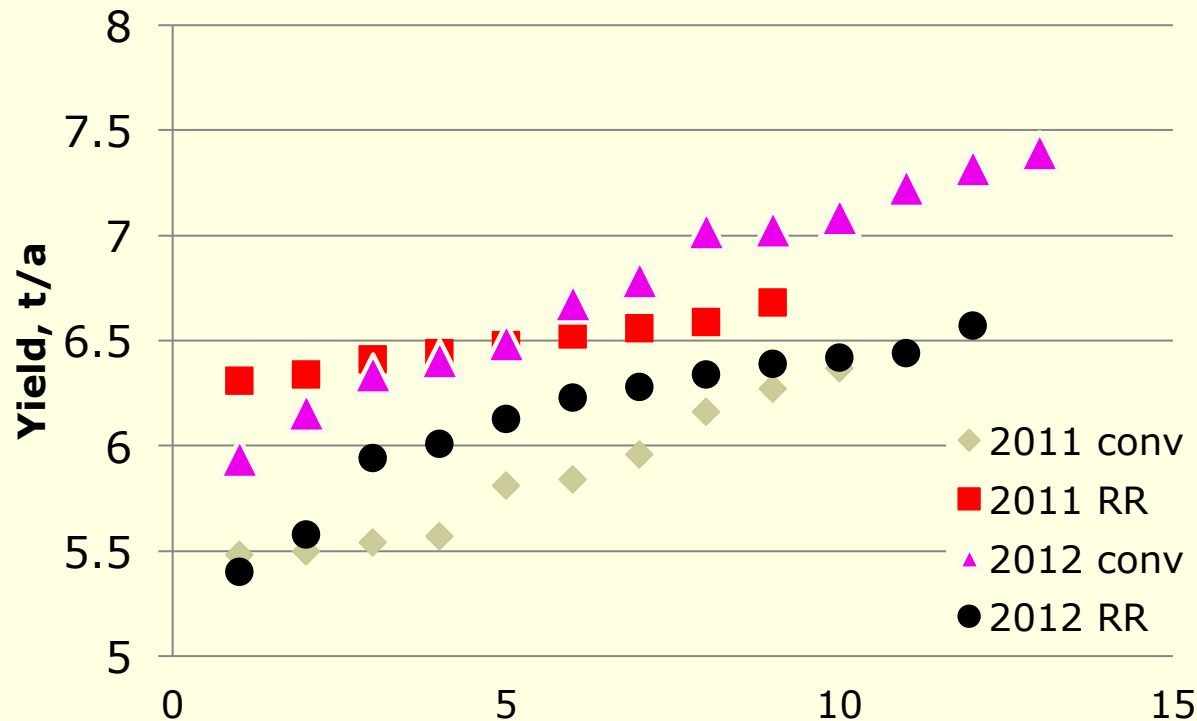


Performance of Conventional and RR Alfalfa Varieties, Harvested in 2014



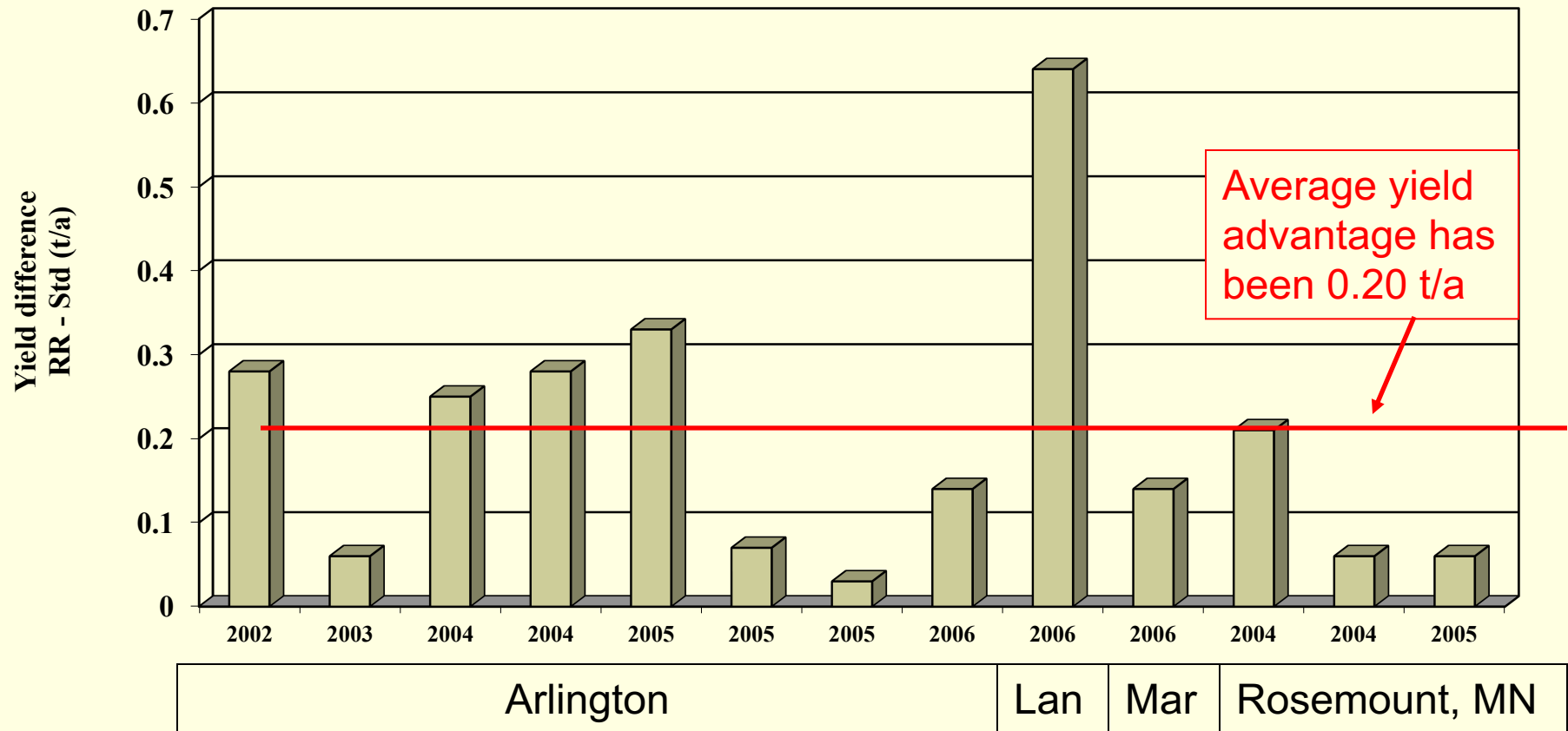
Important to select best variety whether of RR or not

Performance of Conventional and Roundup Ready Alfalfa Varieties, 2014

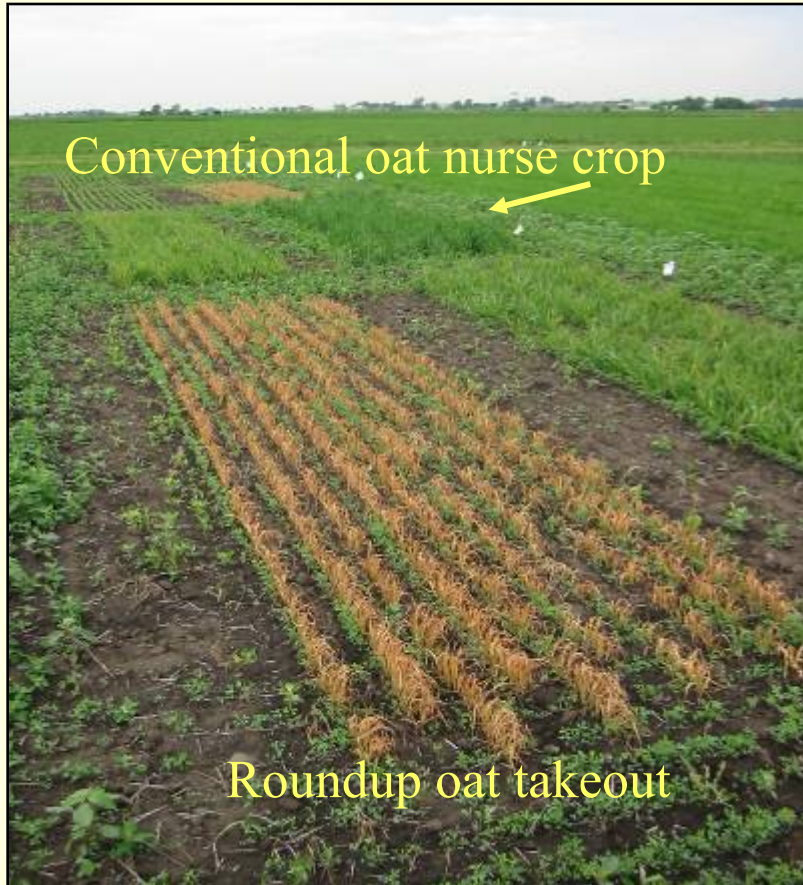


Important to select best variety whether of RR or not

Seeding year yield advantage of Roundup Ready Alfalfa



Potential – Use to establish with oats or ryegrass



Procedure:

- Seed alfalfa with oats or ryegrass
- Spray nurse crop with 4 to 6"

Benefits:

- Erosion control benefits of nurse crop
 - weed control
 - soil dry down
- Yield and quality of solo alfalfa

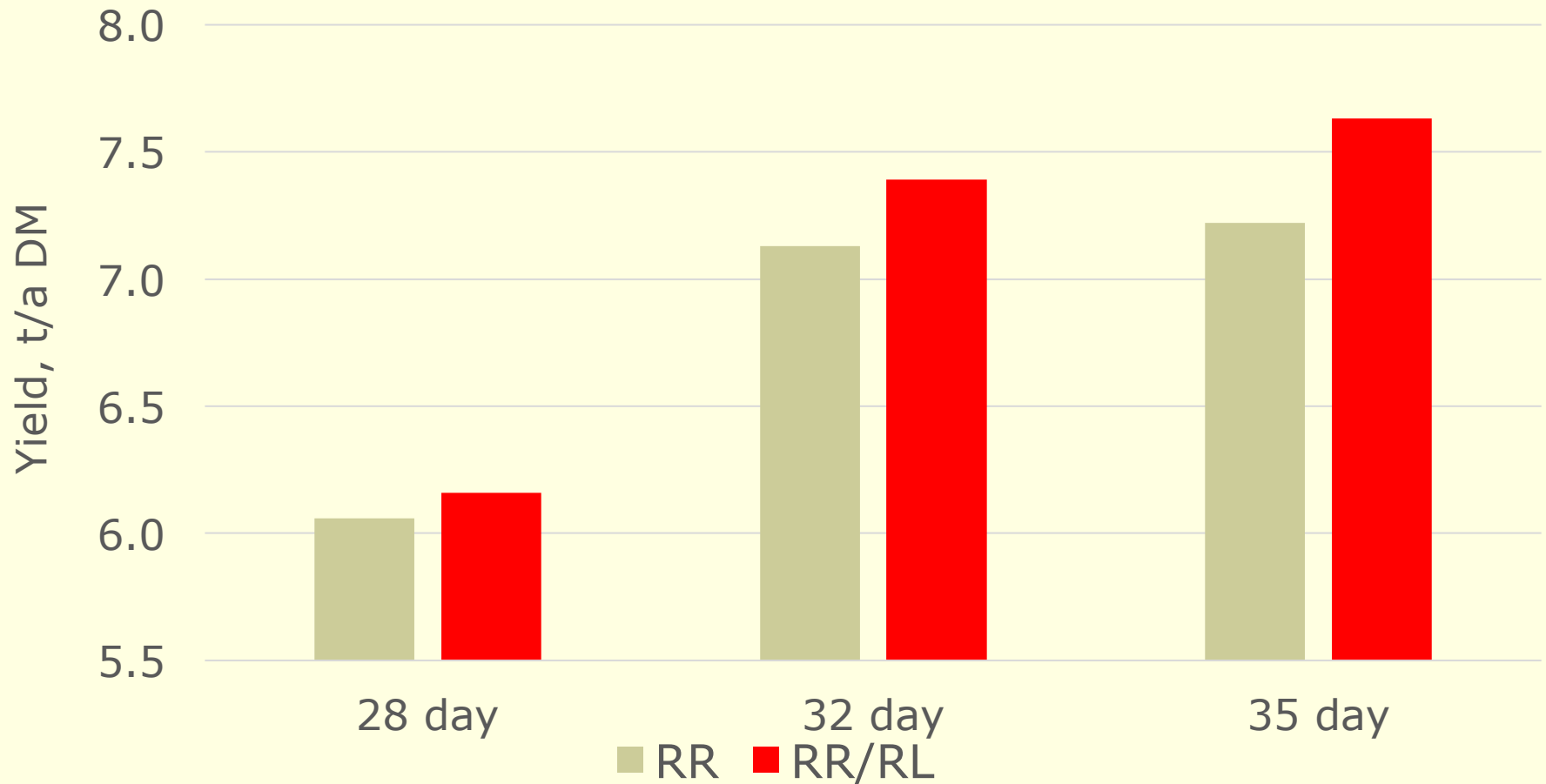
Regrowth with and without cover crop

Regrowth following oats removal less than following cutting of alfalfa

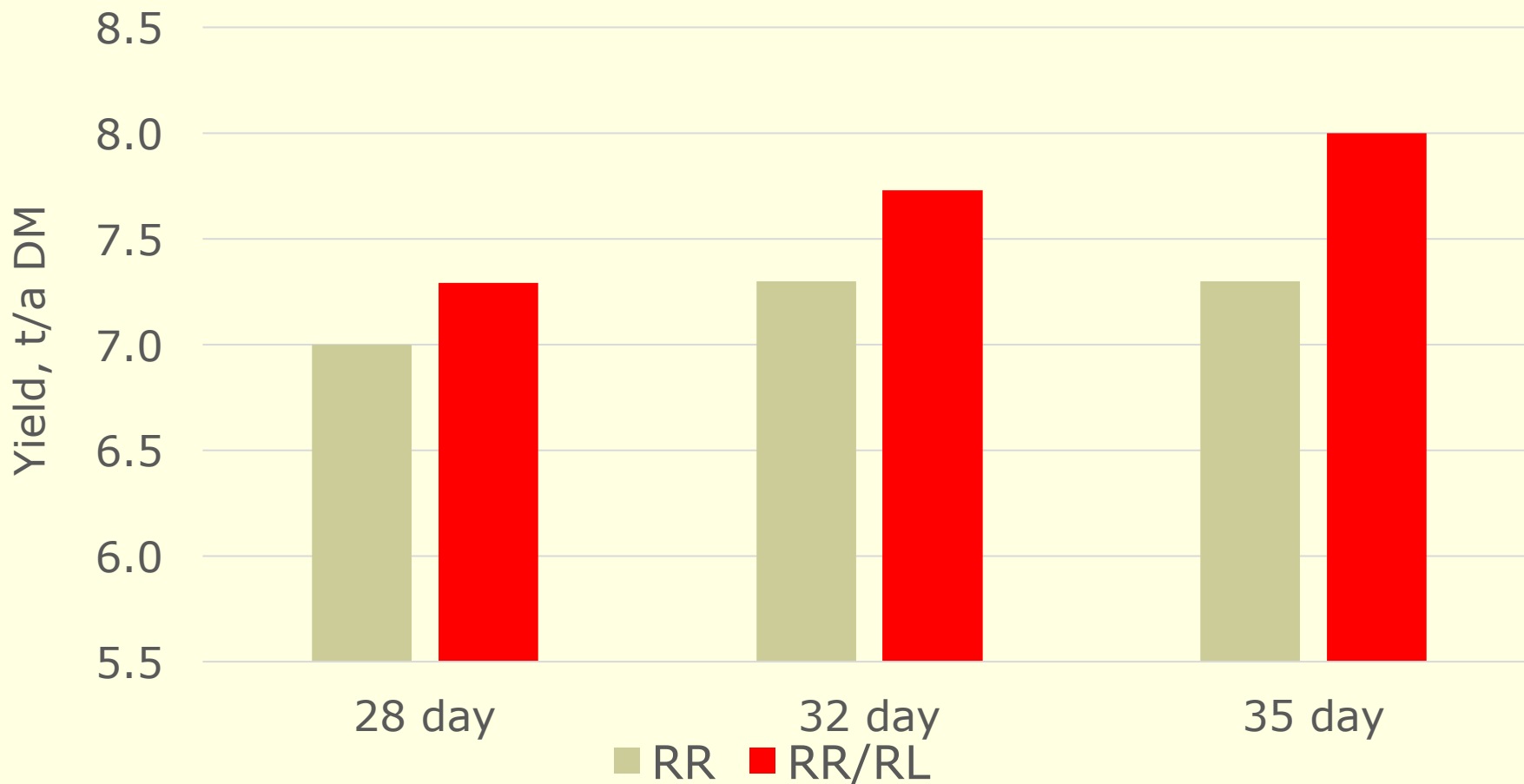
Alfalfa stressed in seeding year never yields as well in following years!



Alfalfa Reduced Lignin Yield, seeding year, 2015, Arlington, WI

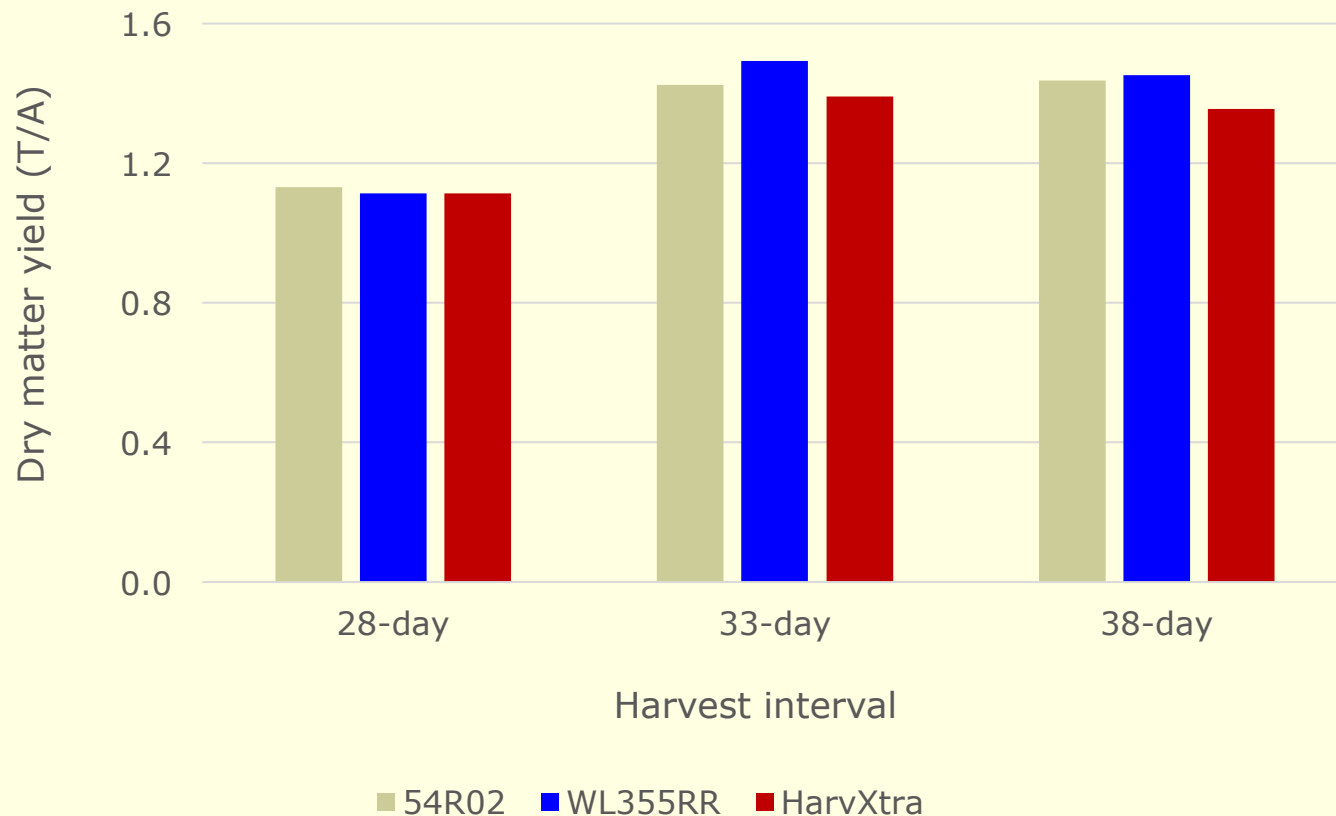


Alfalfa Reduced Lignin Yield, first production year, 2016, Arlington, WI

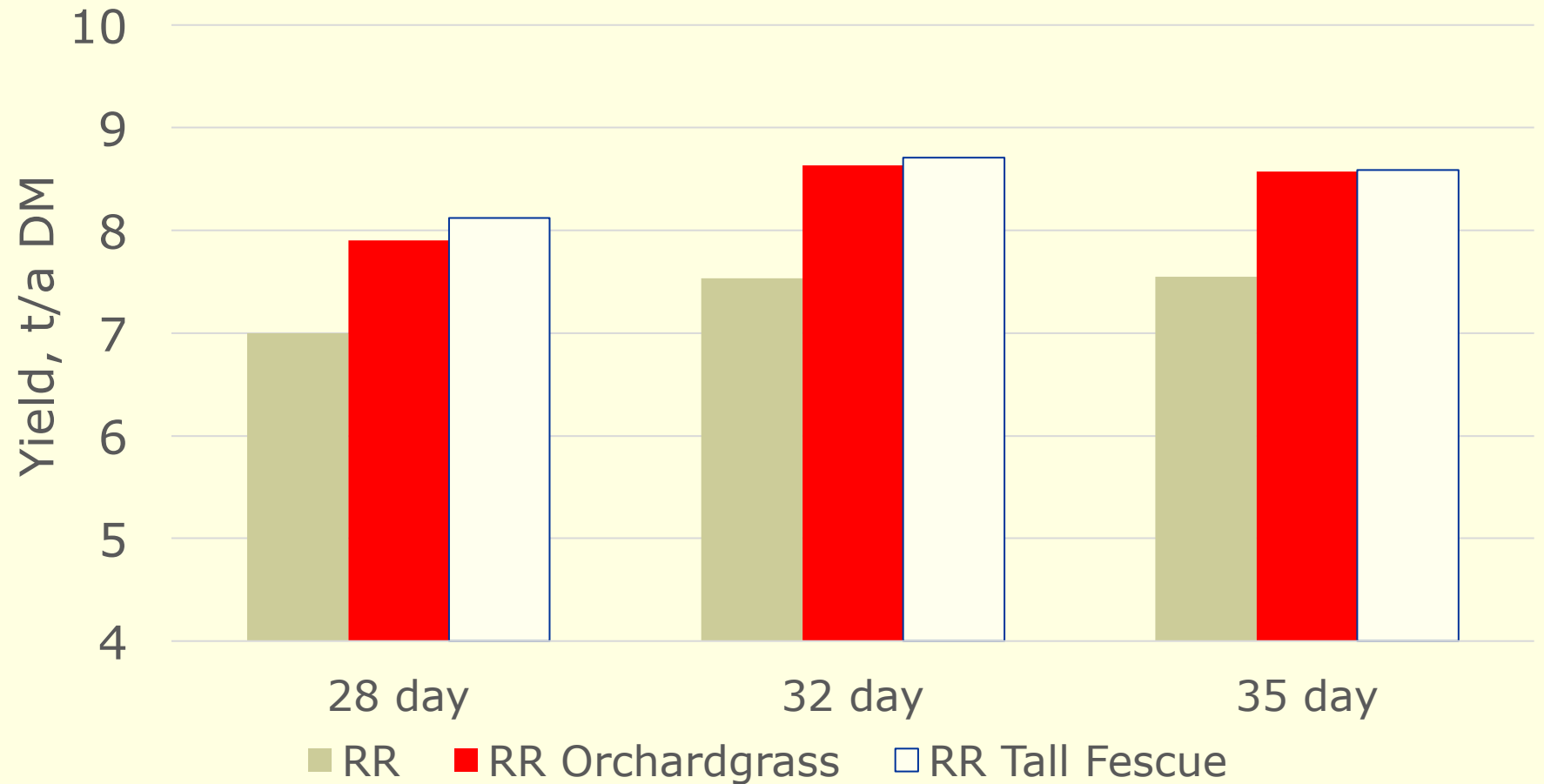


Yield – WI, OH & PA 2015

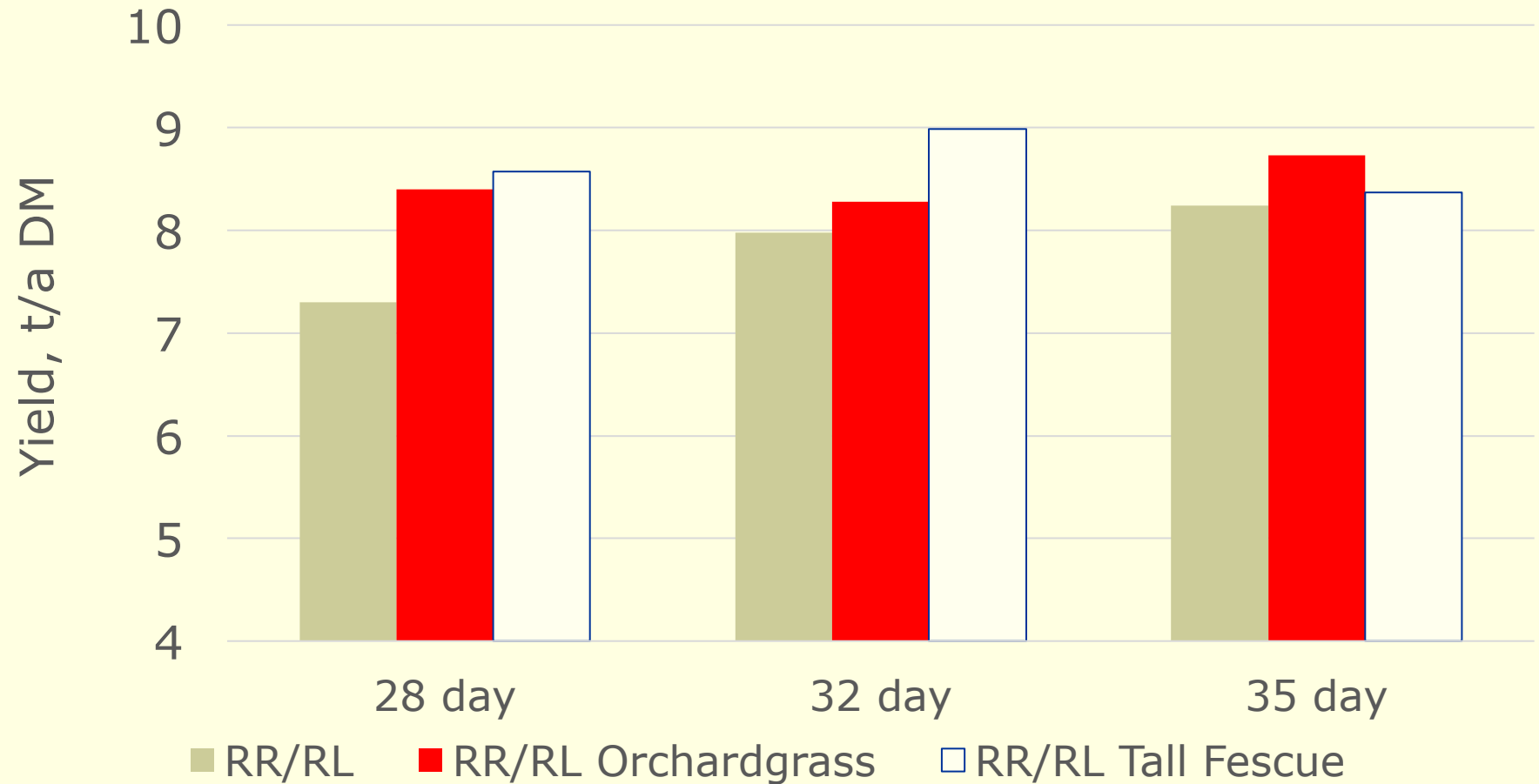
Seeding Year- 2 harvest average



Yield of RR alfalfa with grass



Yield of RR/RL alfalfa with grass

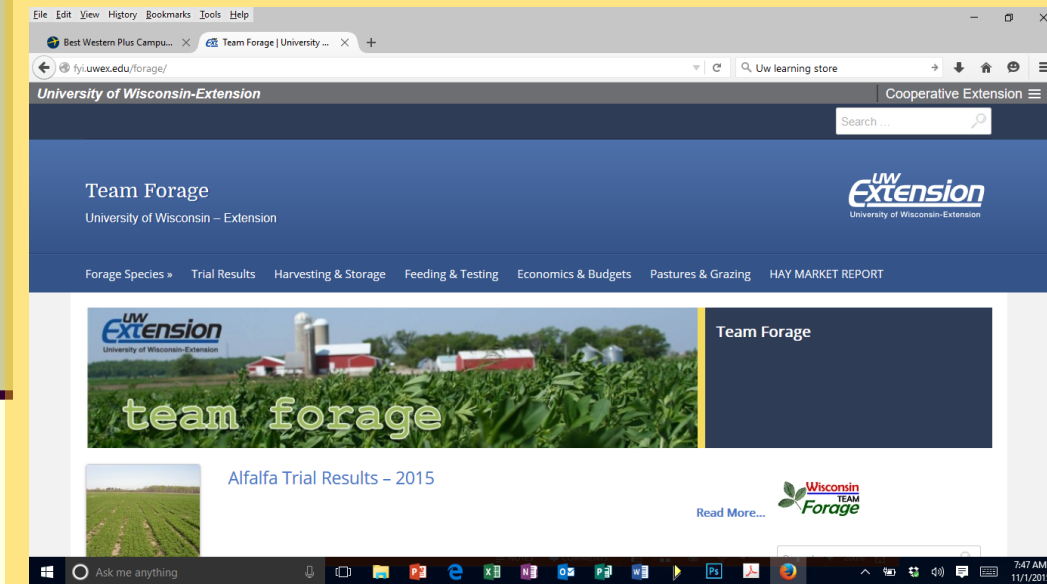


Is there a yield penalty?

- Is there a yield penalty to Round Ready Alfalfa?
 - NO
- Is there a yield penalty to Reduced Lignin Alfalfa?
 - NO

For Additional Information

fyi.uwex.edu/forage



UW Publications Learning Store
learningstore.uwex.edu

