

Importance of Planter Performance in Cotton, Corn, and Peanut

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Planting Conditions

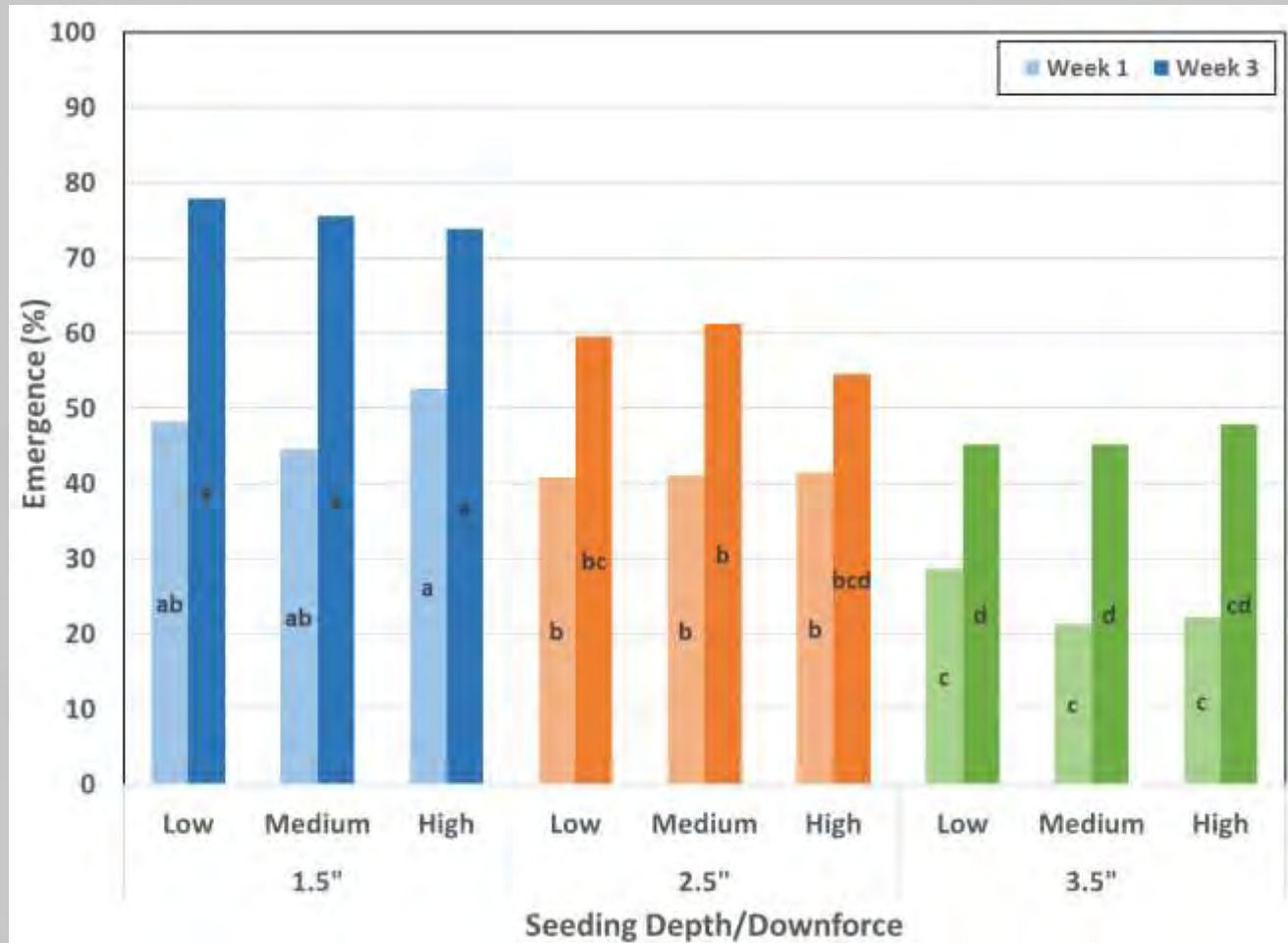


Too Shallow, low downforce, dry soil, seeds are visible at the top of the ground



Too Deep, Max downforce, wet soil, gage wheels are making a trench and compacting the soil hindering seedling emergence

Peanut Emergence



Peanuts planted at 1.5" seeding depth exhibited higher overall emergence irrespective of the downforce treatments

Peanut Emergence and Growth



1.5" Deep
High Downforce

1.5" Deep
Low Downforce

Peanut Emergence and Growth



2.5" Deep
Low Downforce

3.5" Deep
High Downforce

1.5" Deep
Low Downforce

1.5" Deep
Low Downforce

Peanut Emergence and Growth



2.5" Deep
High Downforce

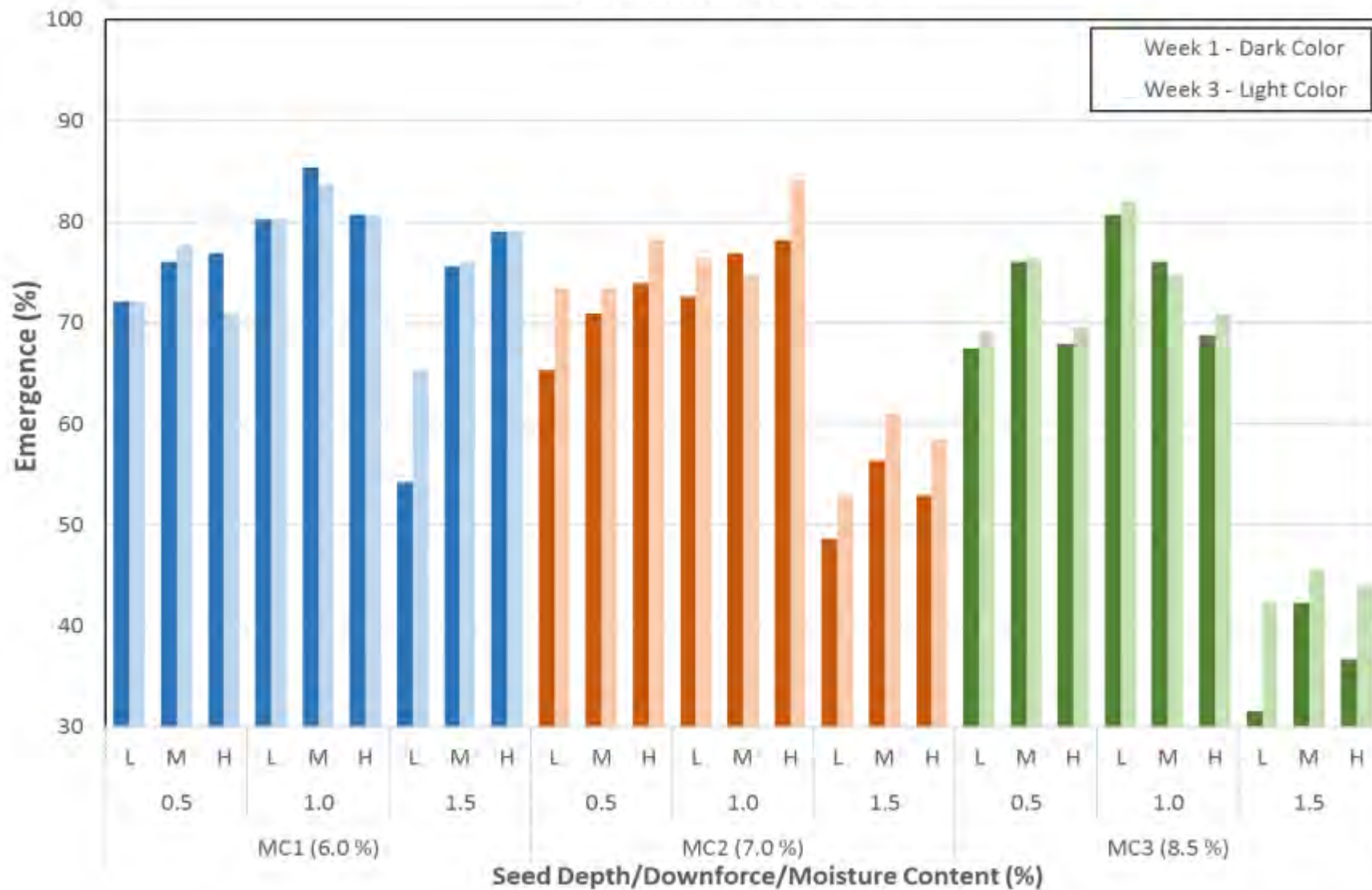
3.5" Deep
Low Downforce

3.5" Deep
Medium Downforce

3.5" Deep
Medium Downforce

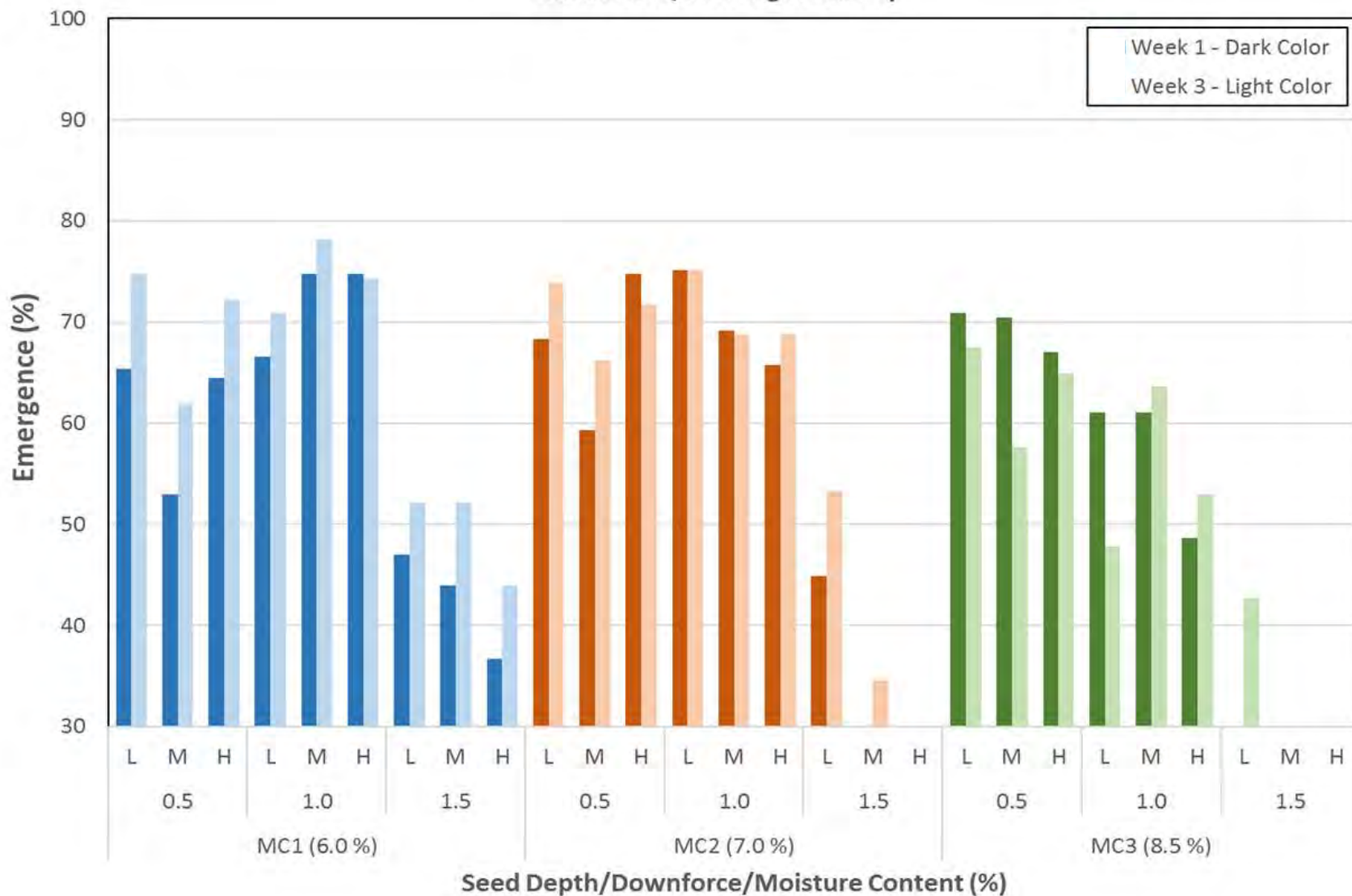
Cotton Emergence

Large Seed/High Vigor Variety

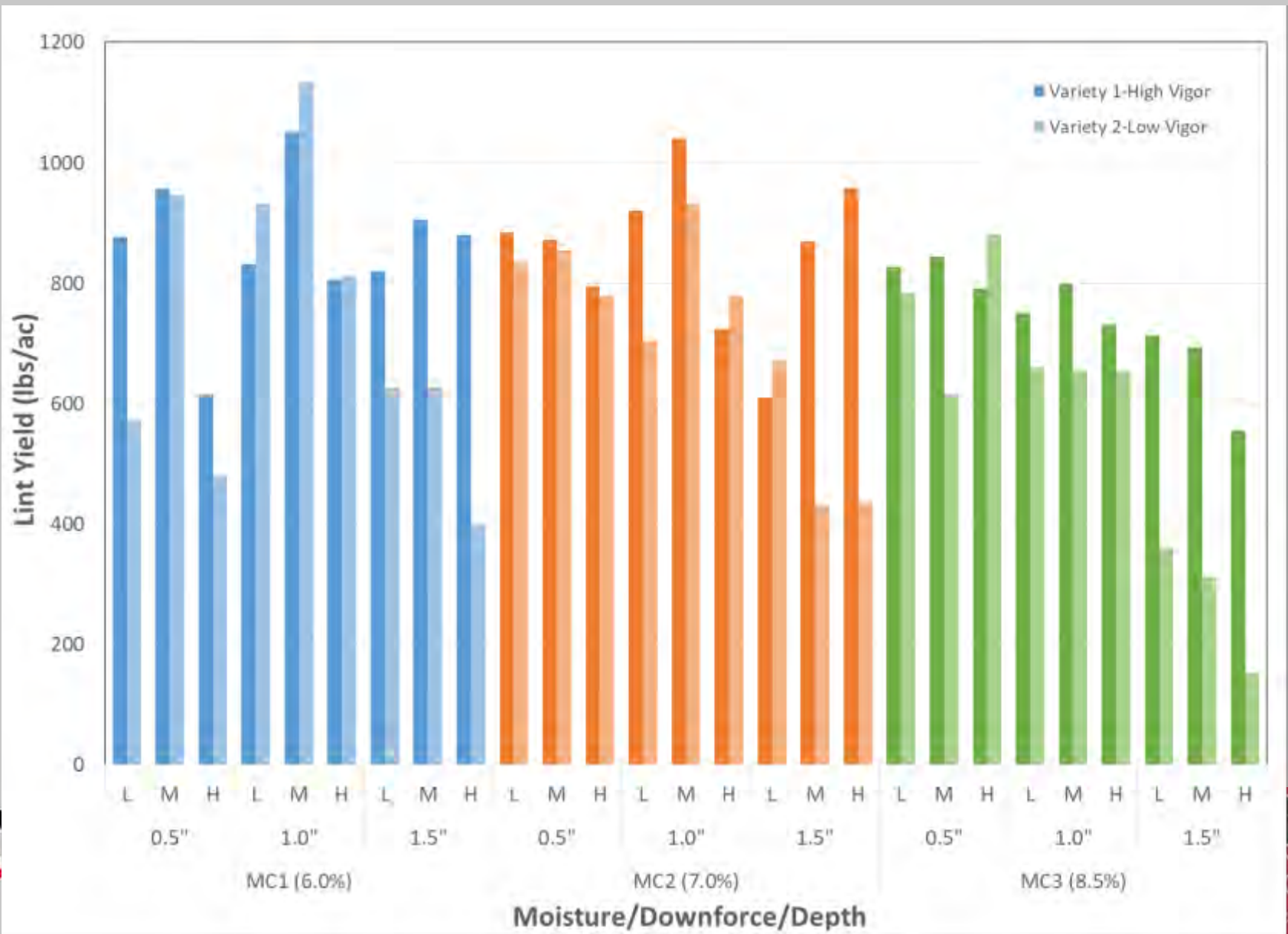


Cotton Emergence

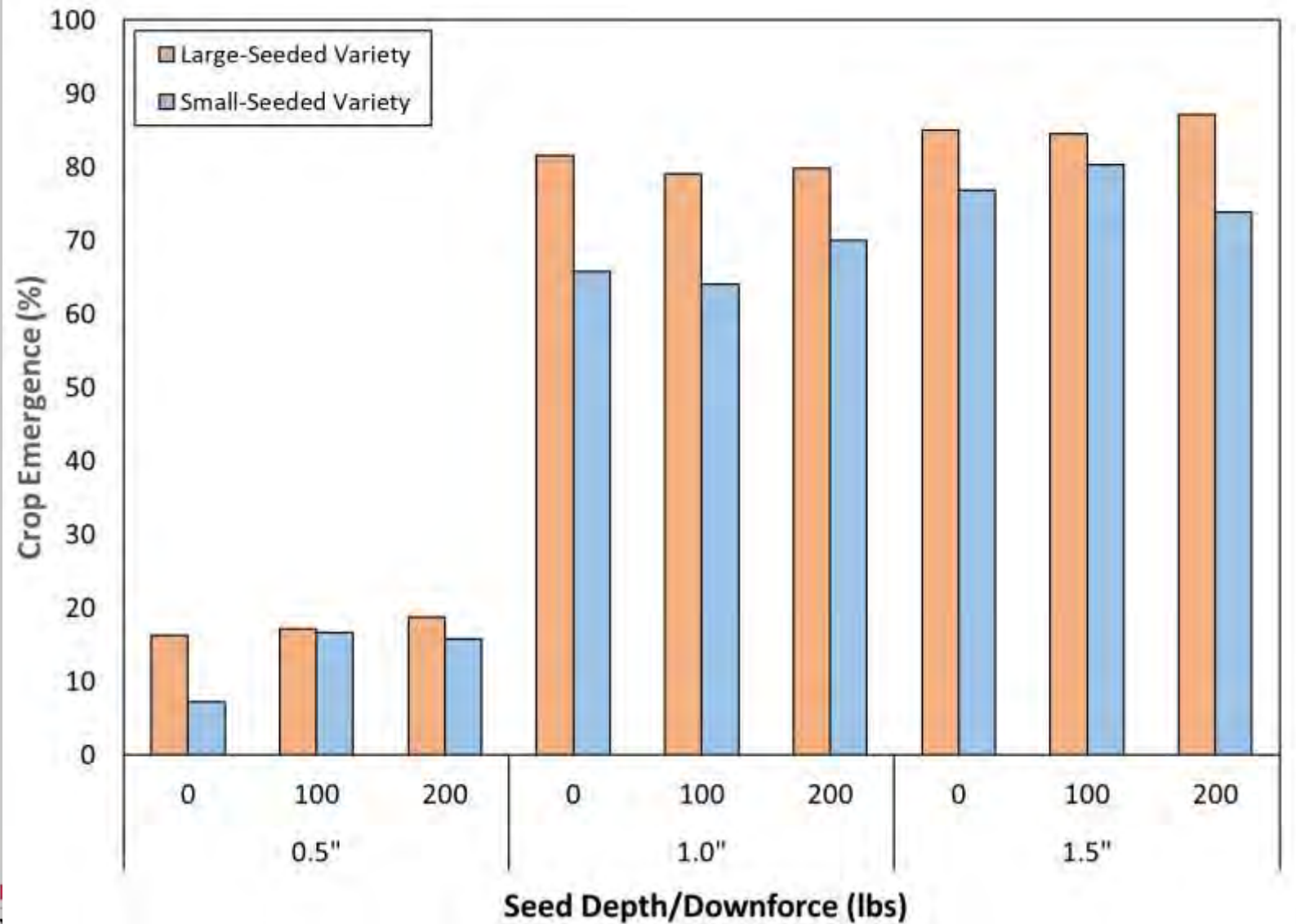
Small Seed/Low Vigor Variety



Cotton Yield

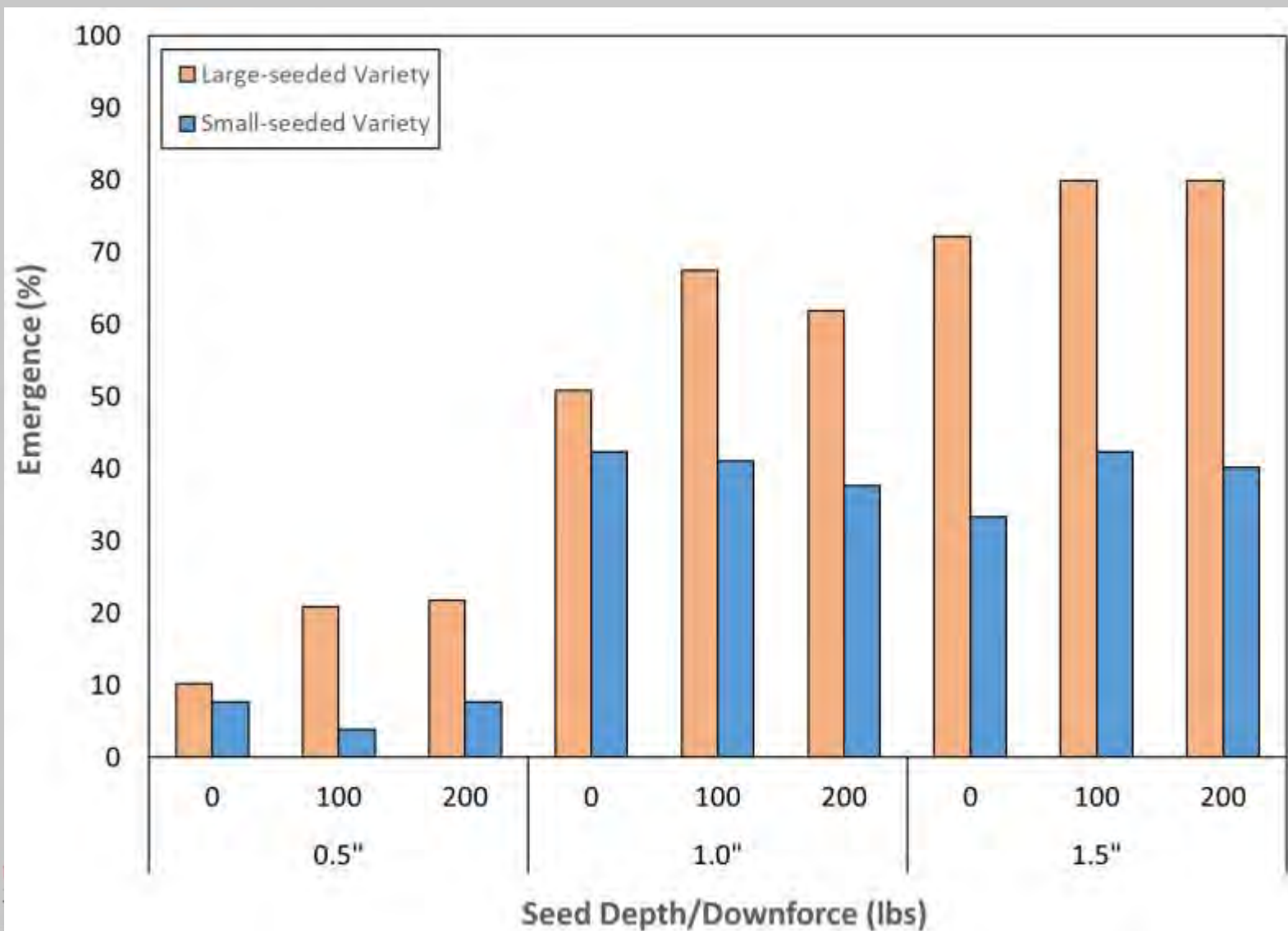


Depth x Downforce x Vigor – SEREC Midville - 2019



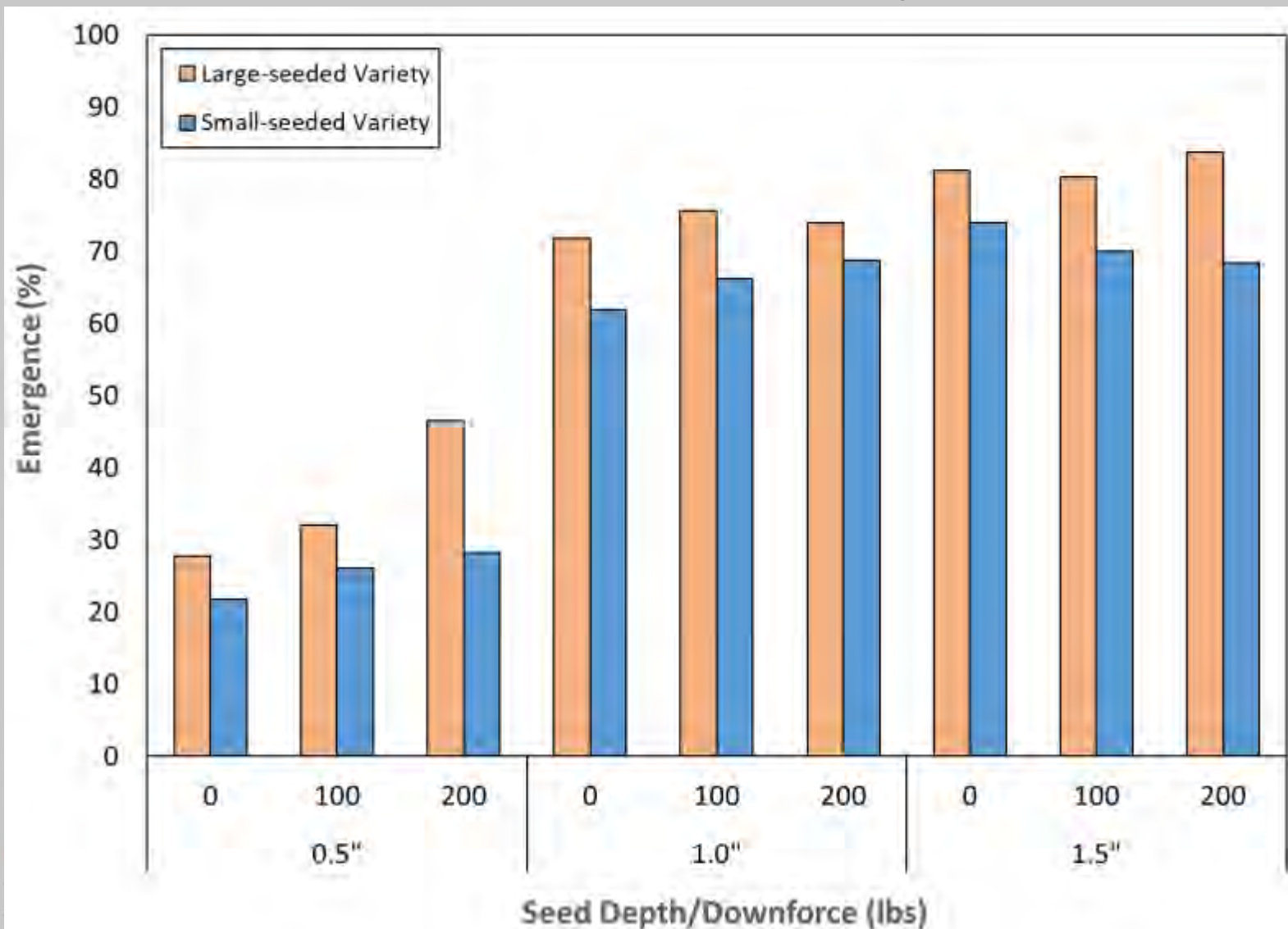
Depth x Downforce x Vigor – SIRP Camilla - 2019

Dry – No Pre-Plant Irrigation



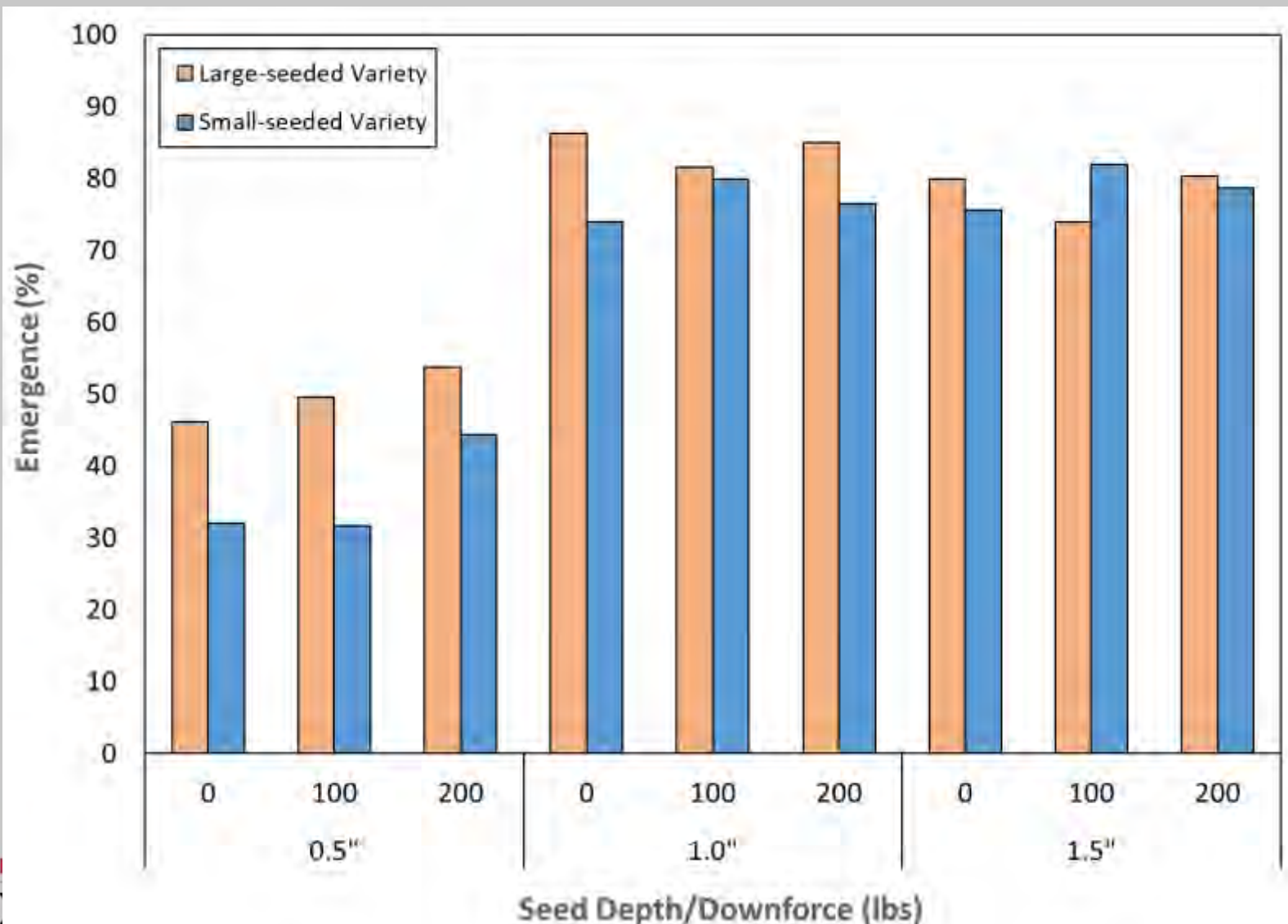
Depth x Downforce x Vigor – SIRP Camilla - 2019

Opt – 0.5” Pre-Plant Irrigation

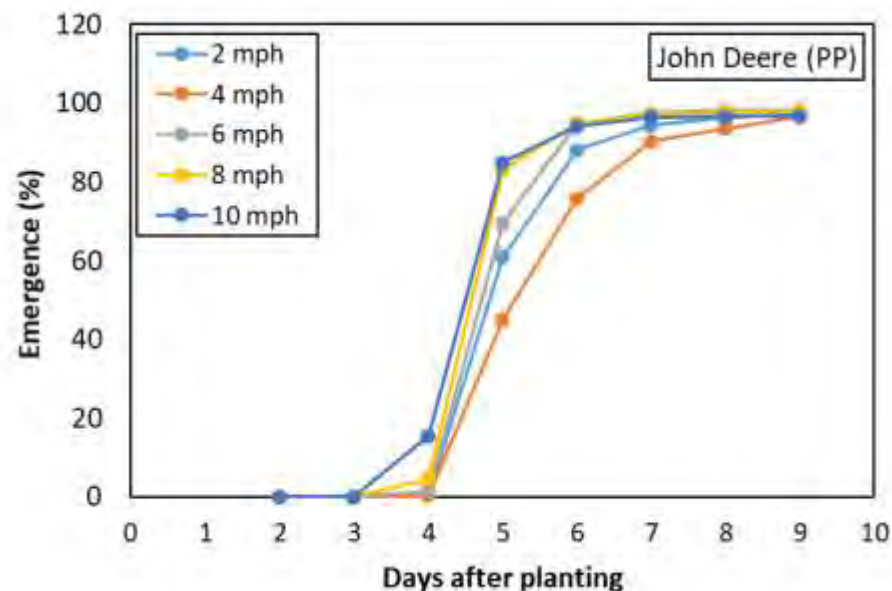
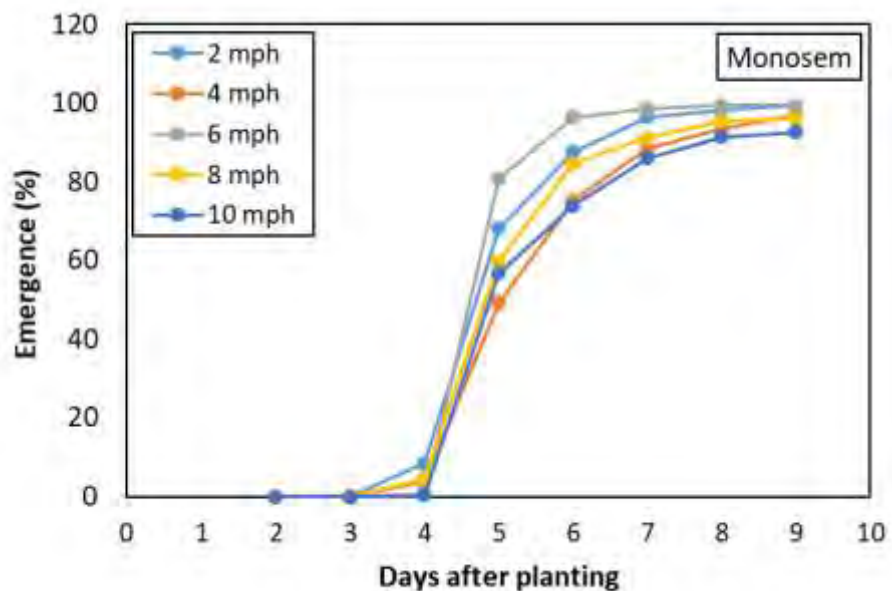


Depth x Downforce x Vigor – SIRP Camilla - 2019

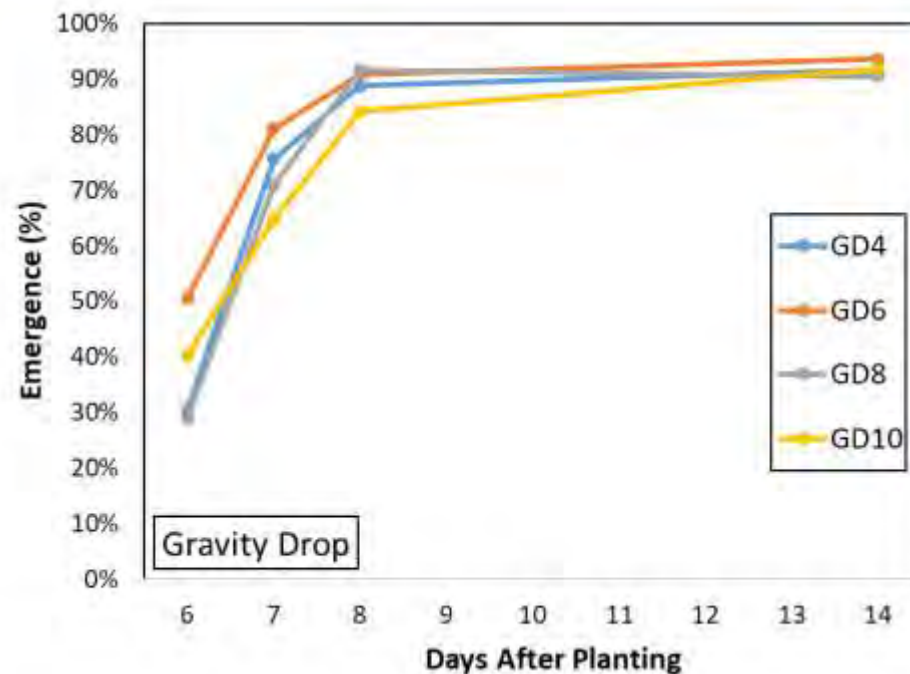
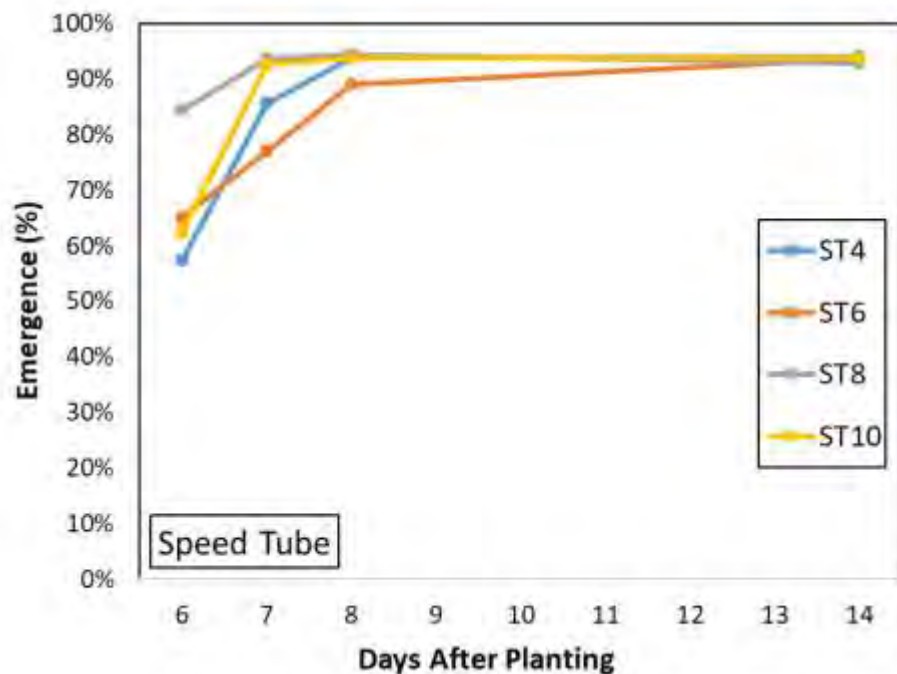
Wet – 1.0” Pre-plant Irrigation



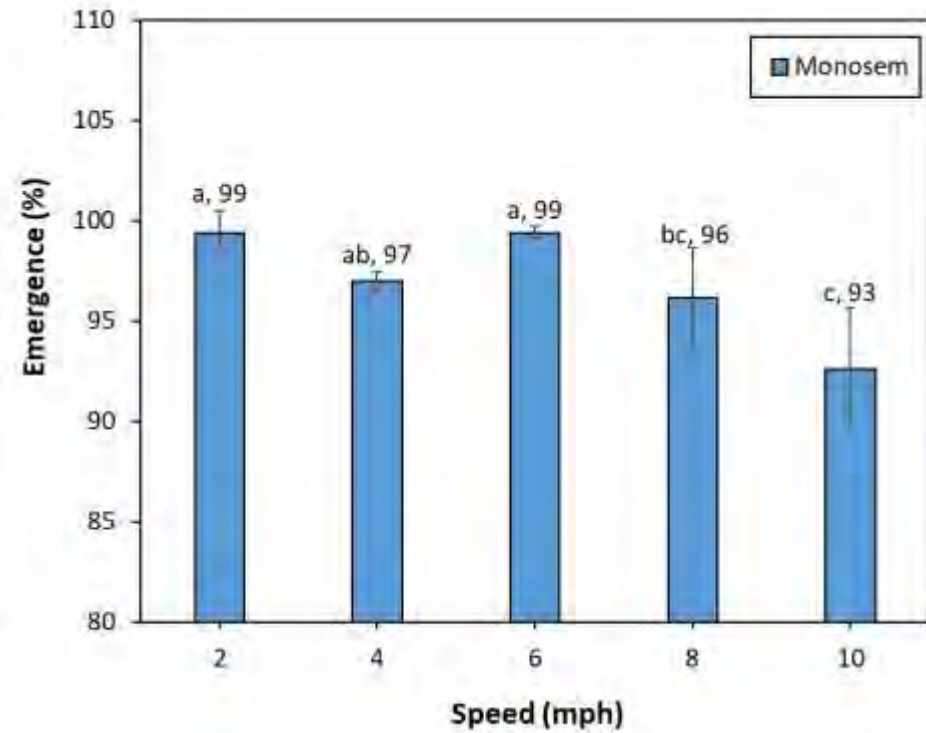
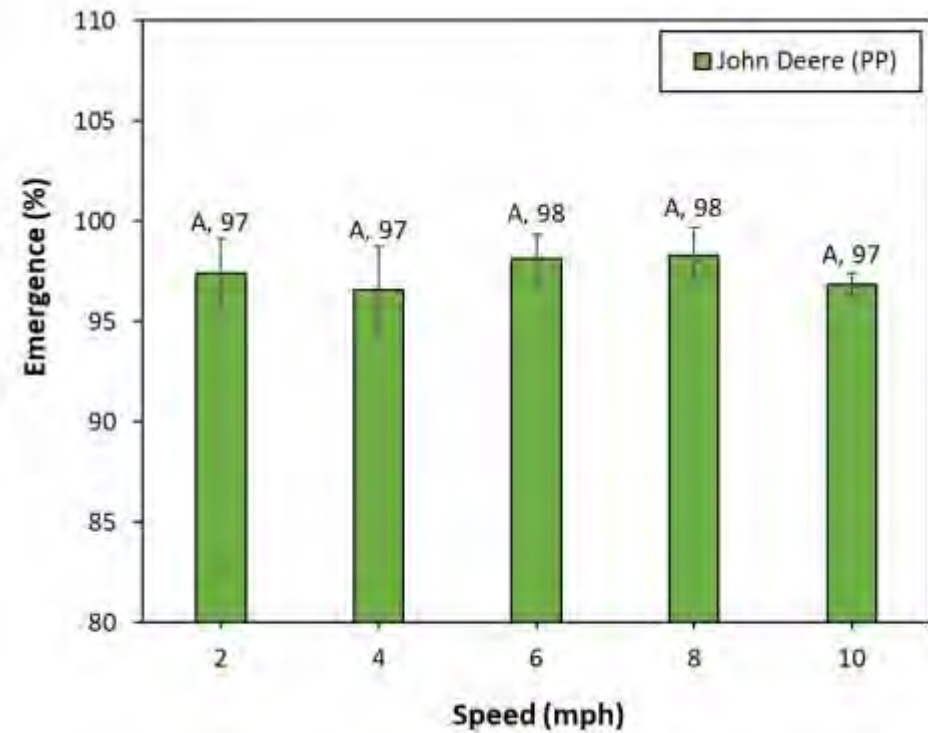
Corn Emergence 2020



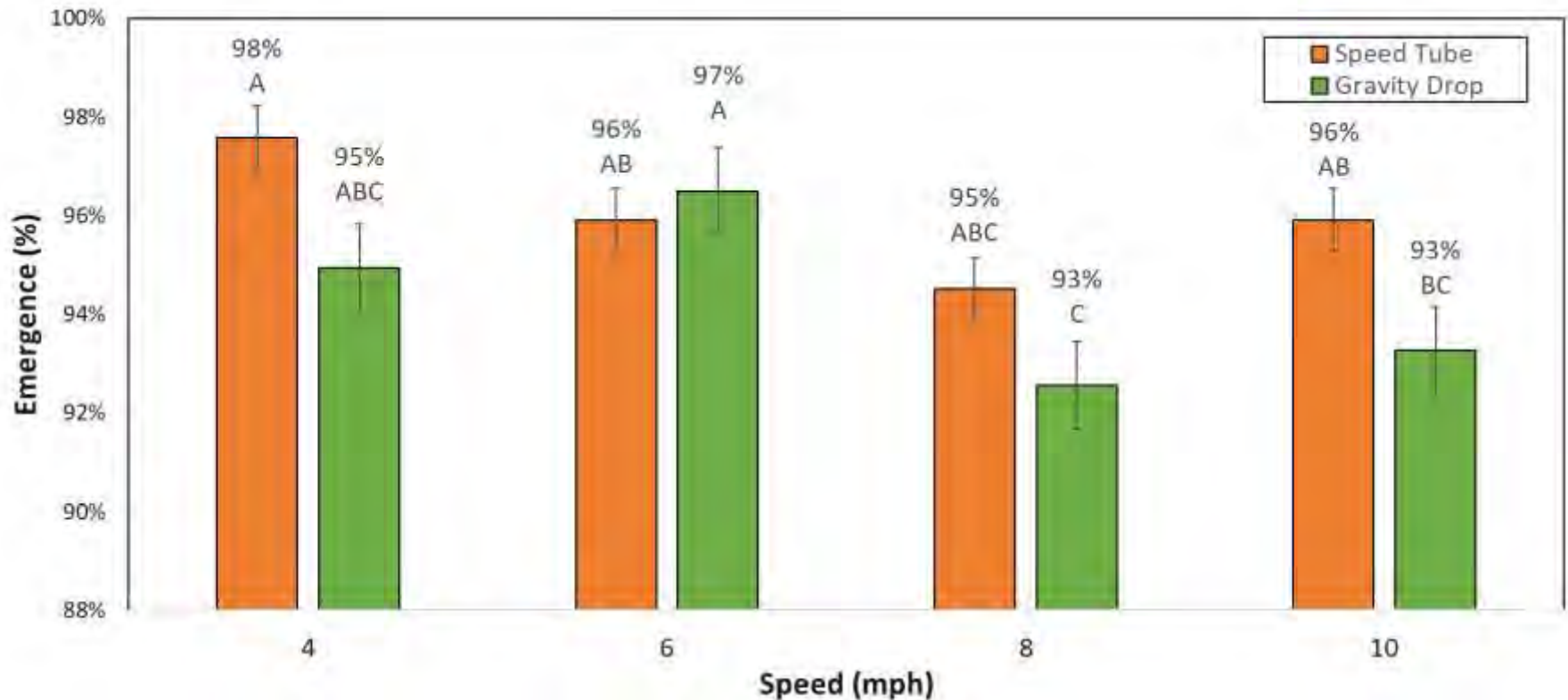
Corn Emergence 2021



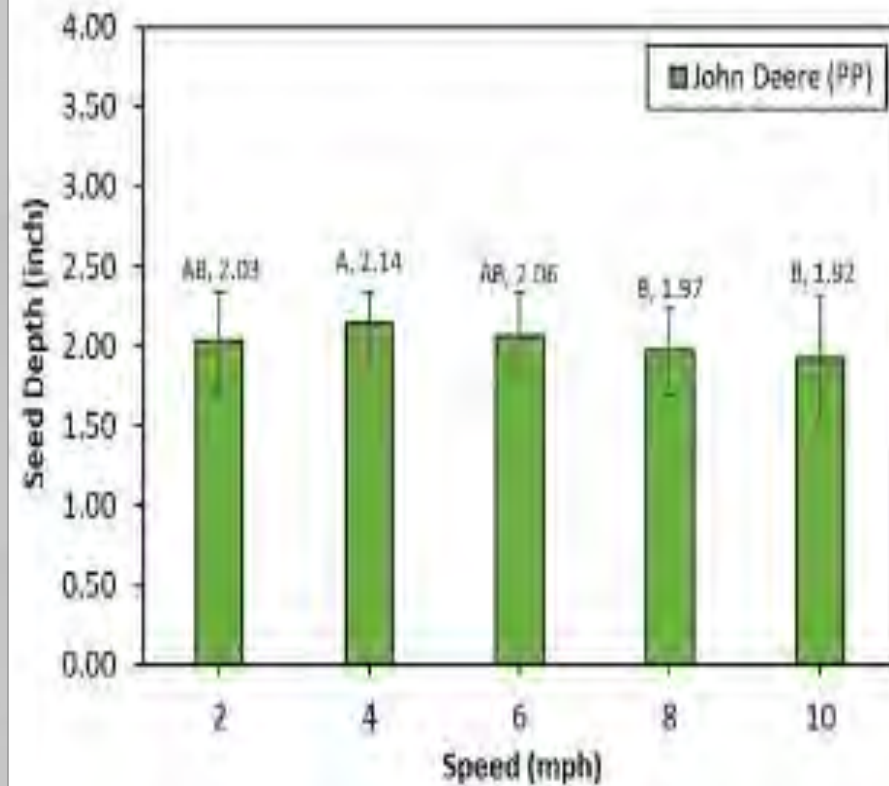
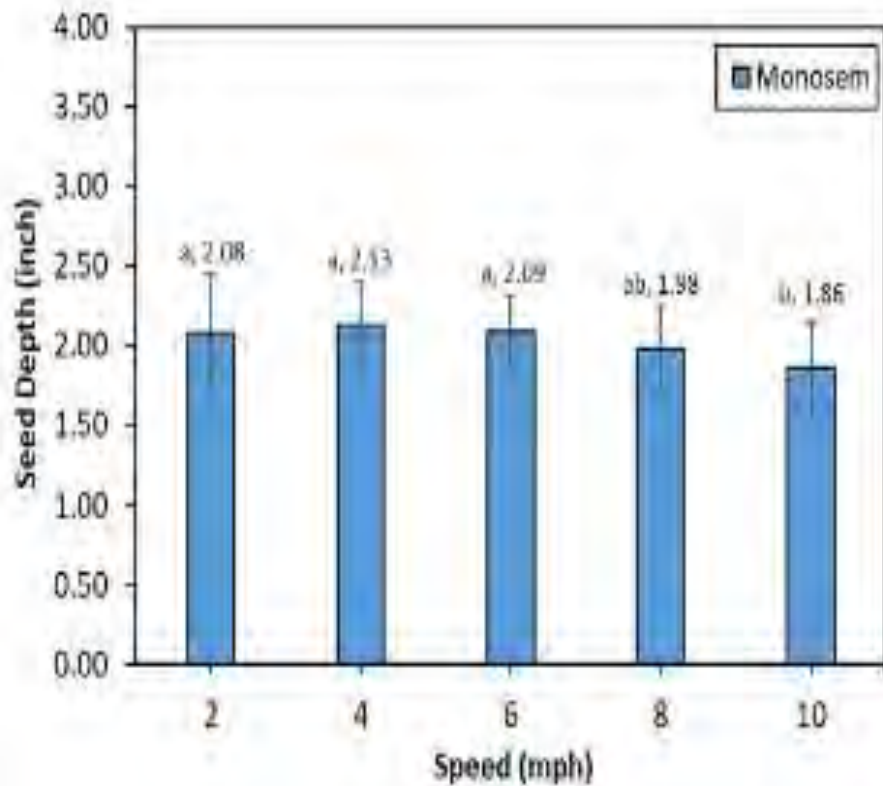
Final Corn Emergence 2020



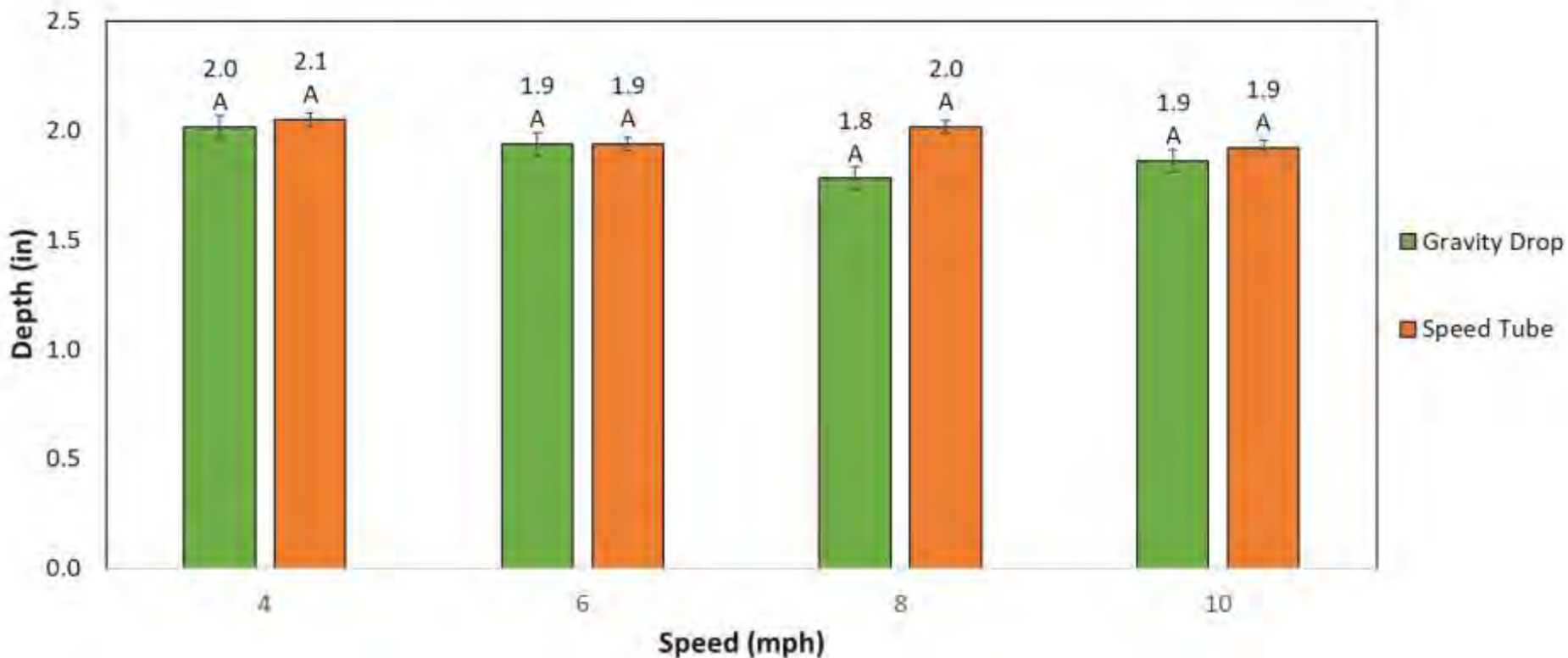
Final Corn Emergence 2021



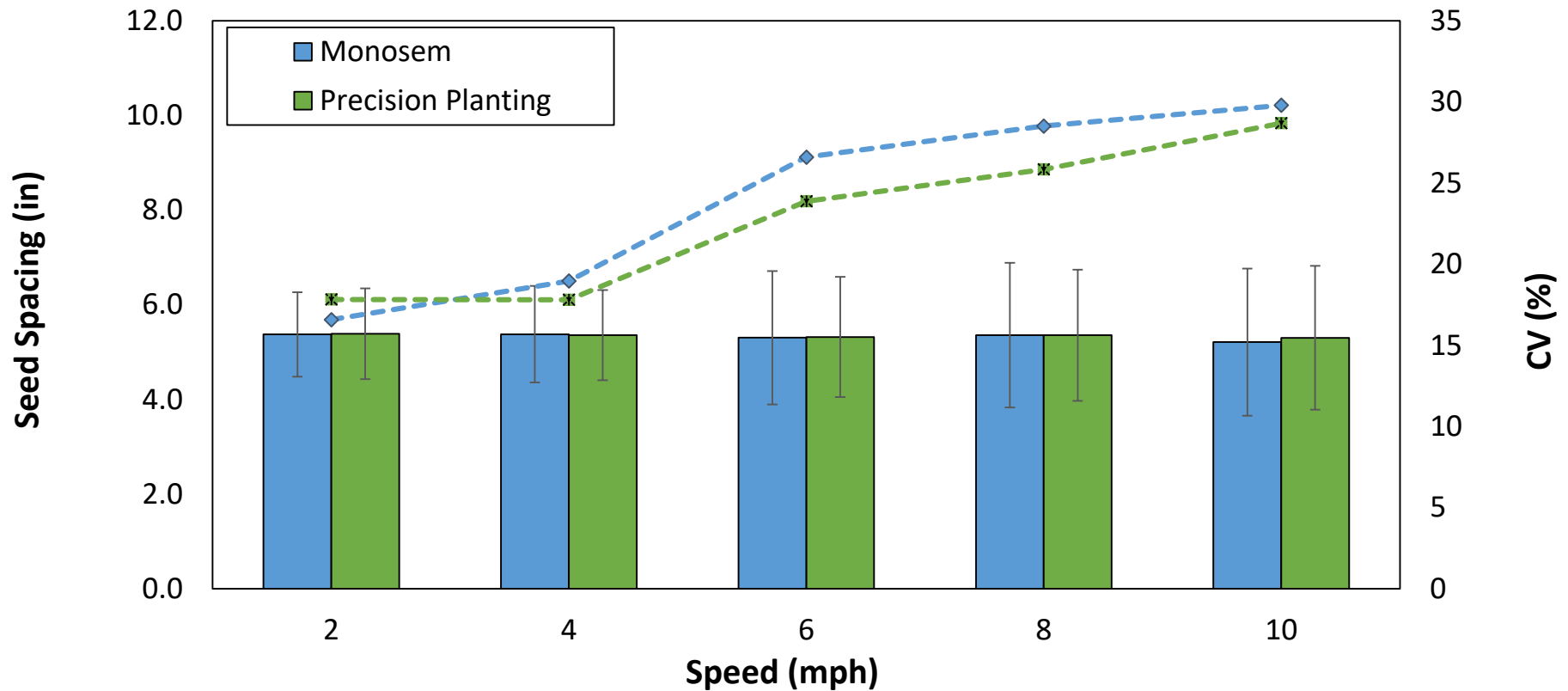
Seed Depth 2020



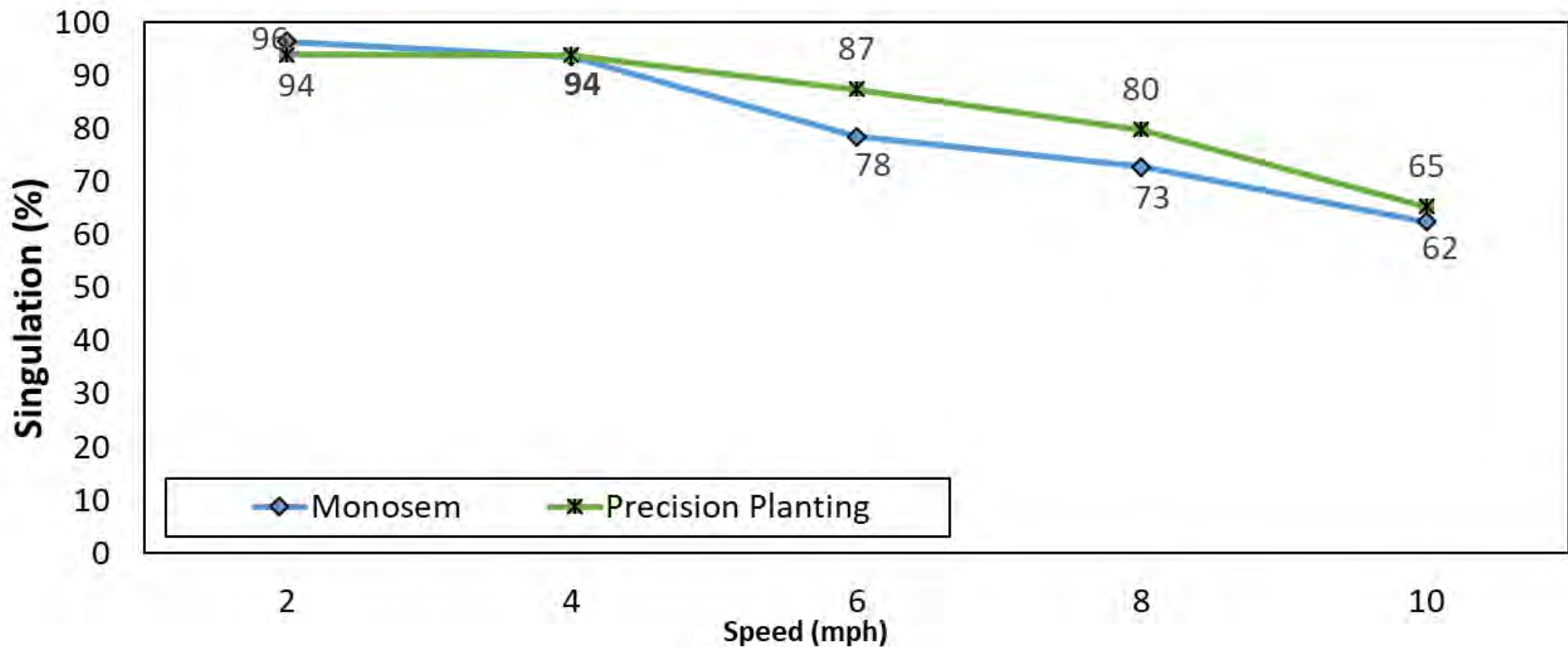
Seed Depth 2021



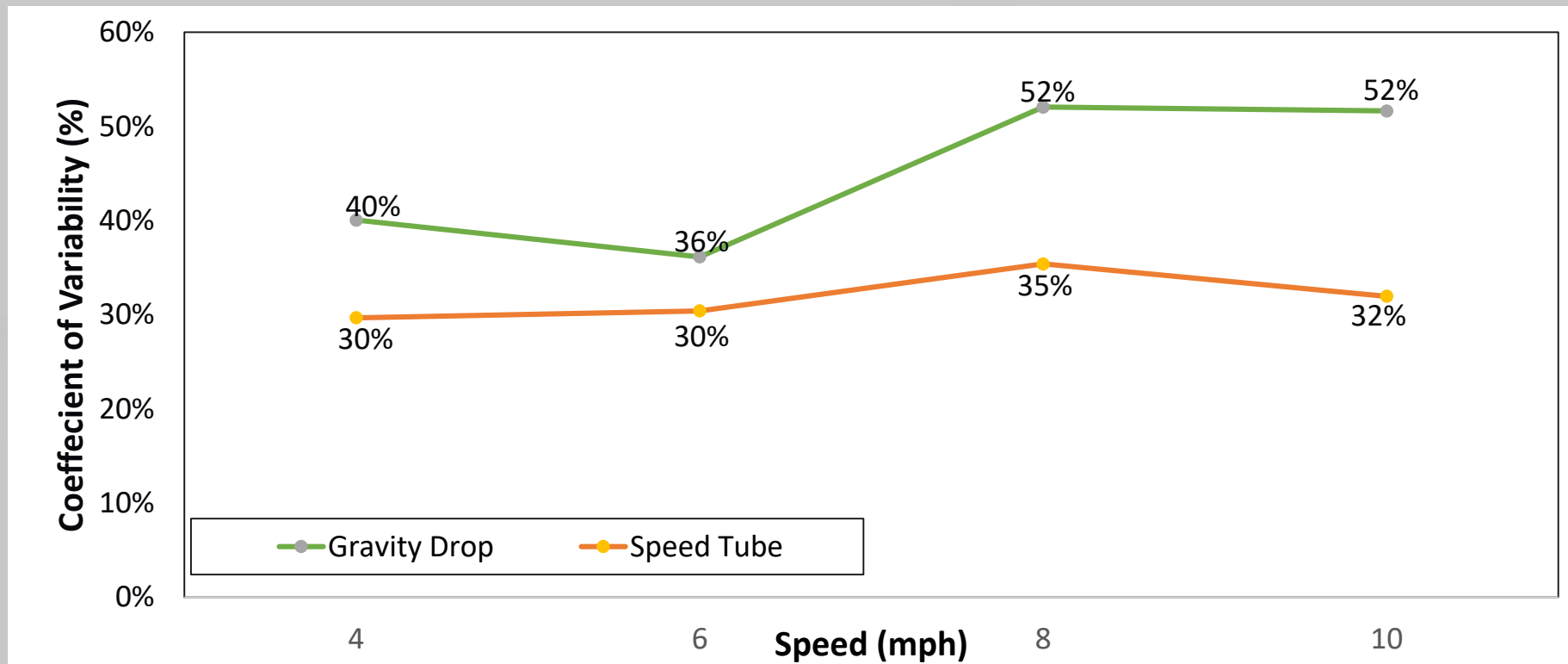
Seed Spacing 2020



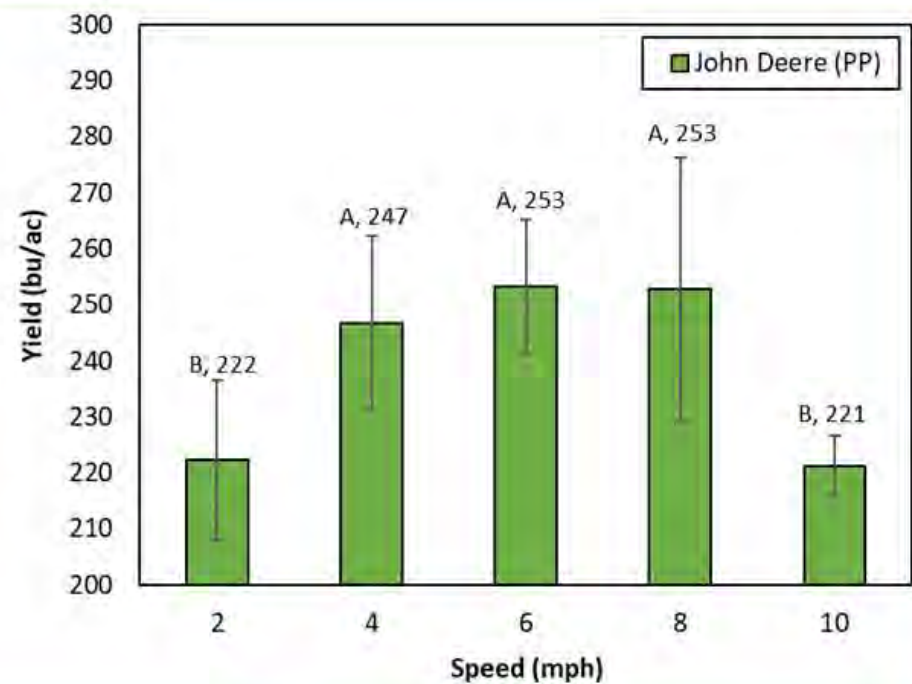
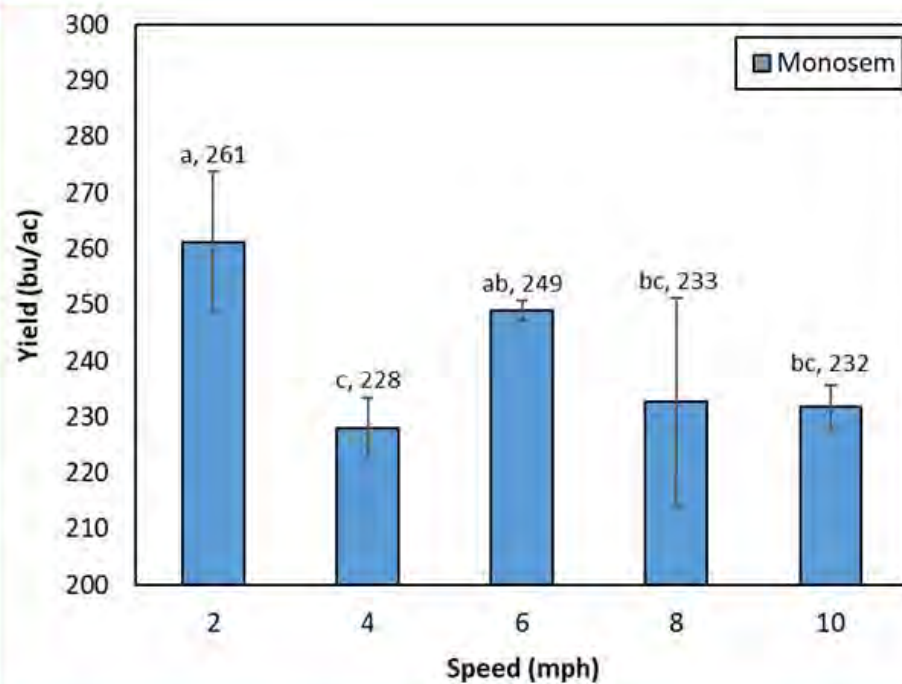
Seed Singulation 2020



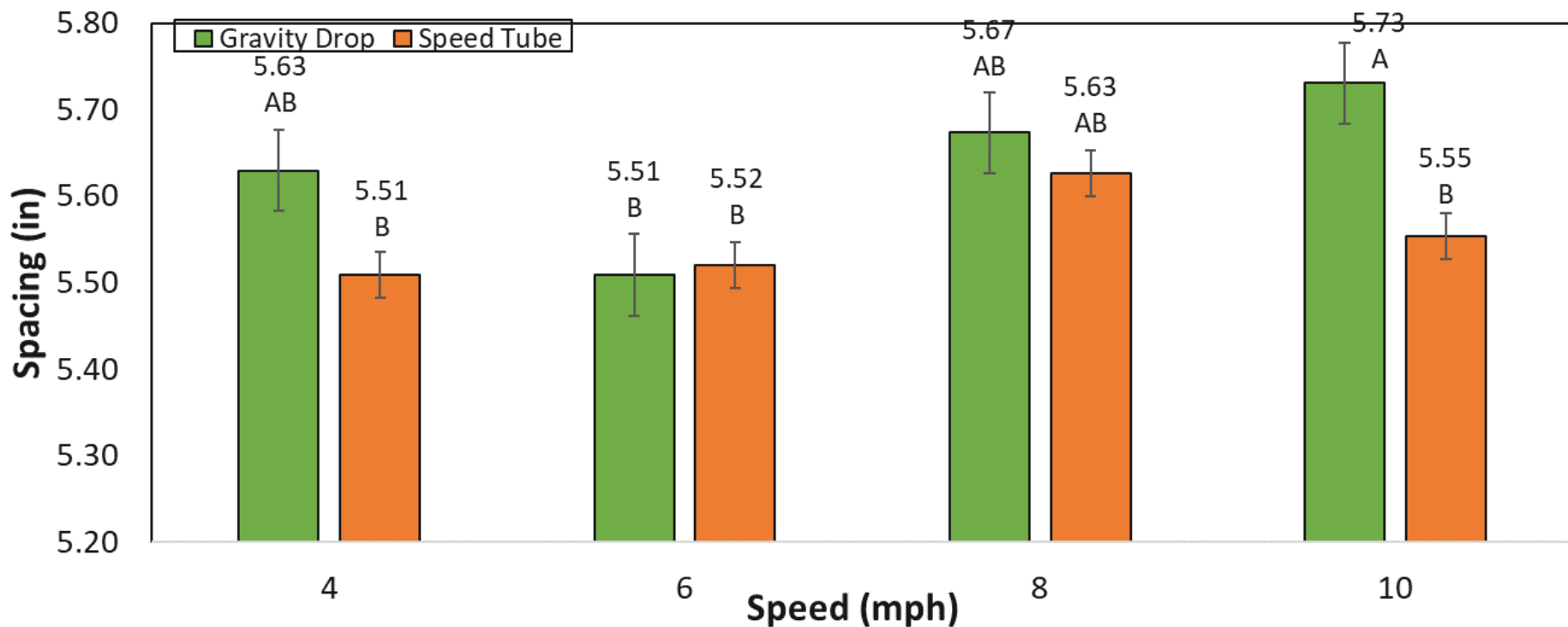
Coefficient of Variation 2020



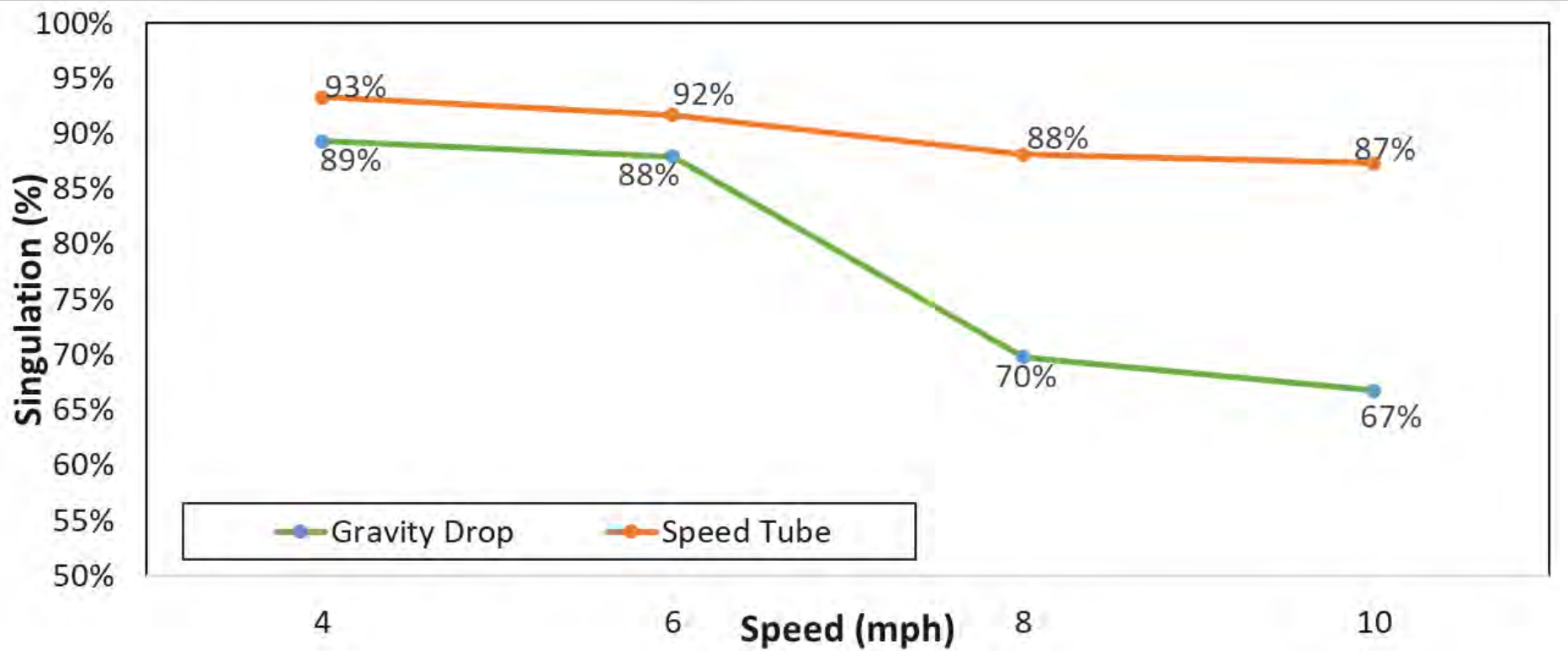
Yield 2020



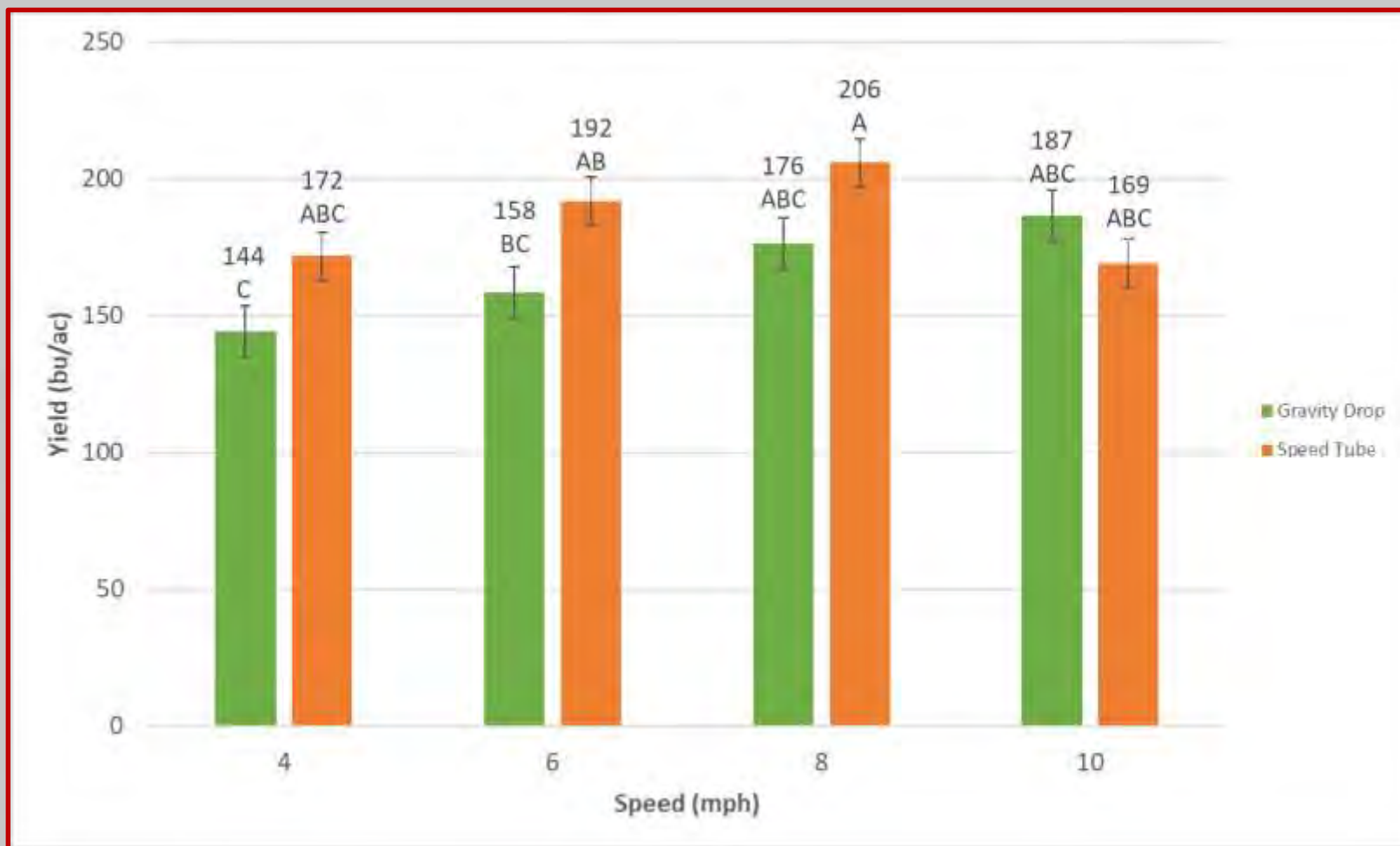
Seed Spacing 2021



Seed Singulation 2021



Yield 2021



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THANKS!

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7 tips for successful cotton planting