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A. Variable-speed drive for seed metering



B. Additional downward force



C. Auxiliary equipment

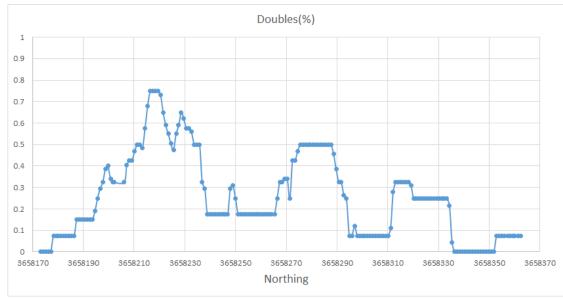


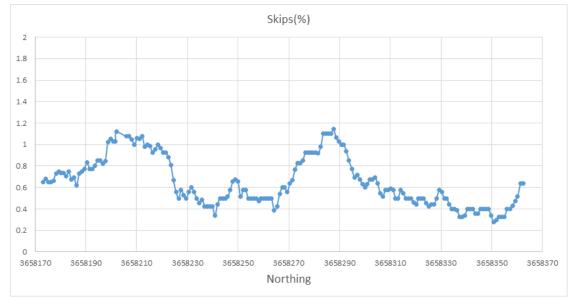
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Seed tube sensor feedback







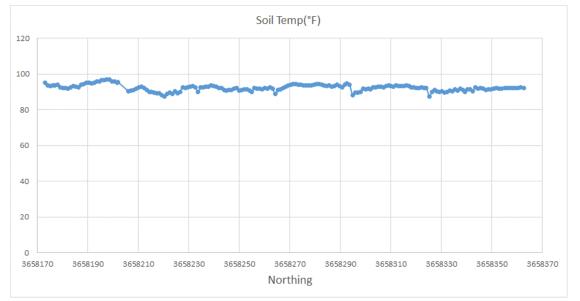
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Seed firmer sensor feedback







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2020 Cotton season - Field testing of planter settings and seed-bed soil strength conditions

- Randomized experiment with four replications
- Experiment repeated in two fields of contrasting soil texture

- 1. Record seed delivery and distribution
- 2. Test effect of soil compaction at the time of planting
- 3. Test the effect of downward force

Seedling emergence

Vegetative growth

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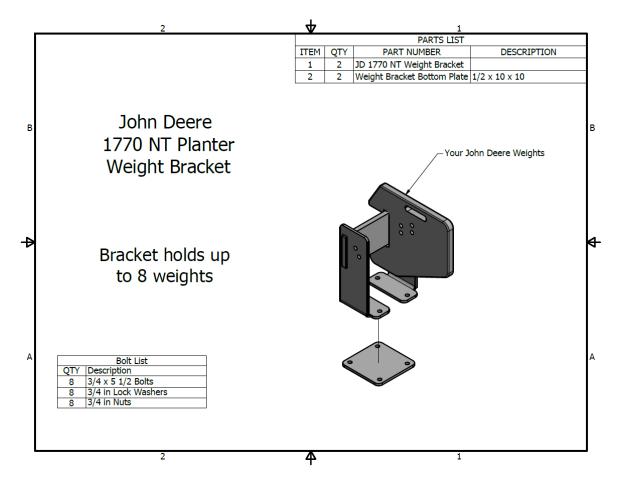
Planter settings and Soil seed-bed conditions



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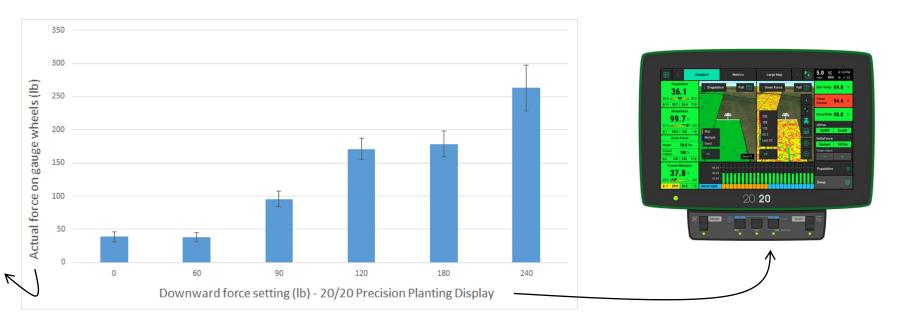




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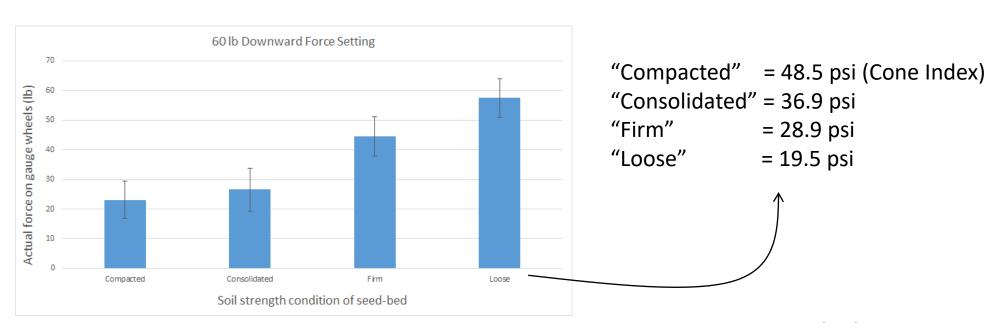
Force transducer feedback





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Force transducer feedback

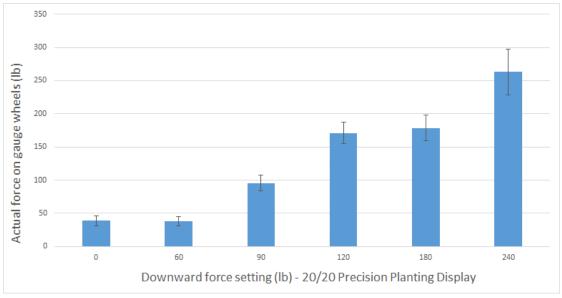


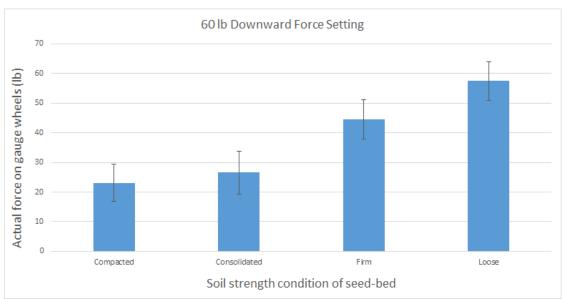


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Force transducer feedback







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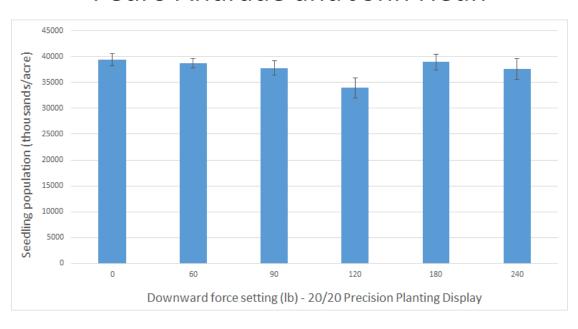
Effect on crop stand count



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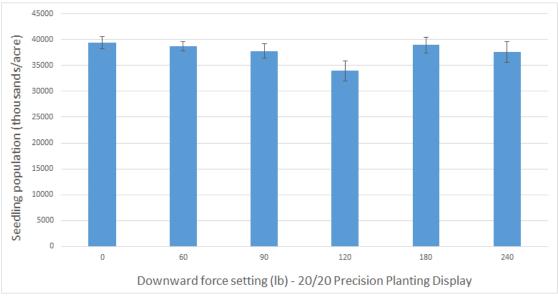
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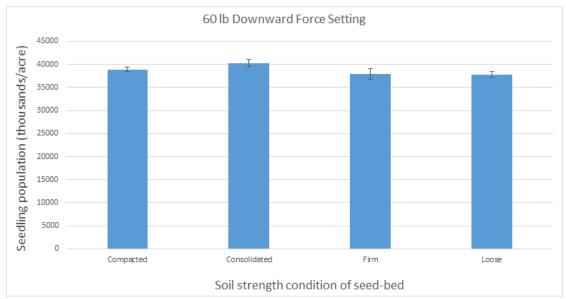
Effect on crop stand count 37 DAP

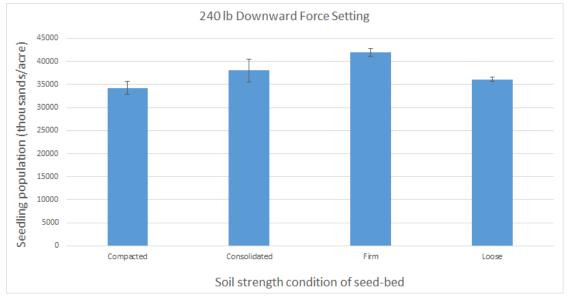


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Effect on crop stand count
37 DAP







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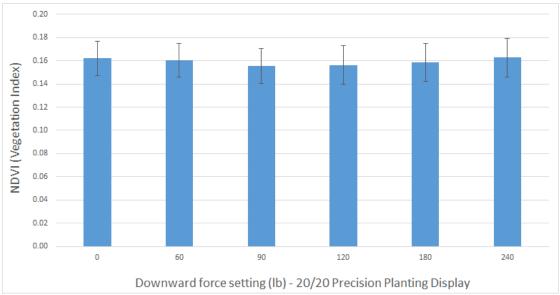
Effect on vegetation

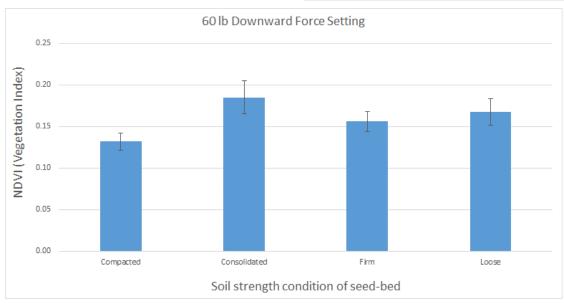


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Effect on size of vegetation 38 DAP



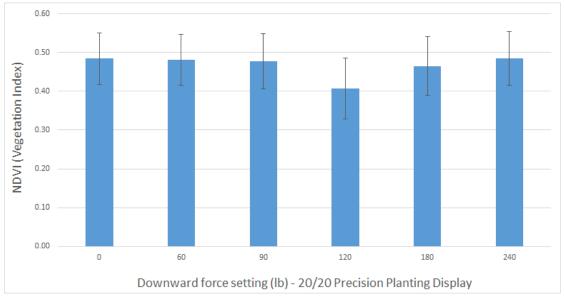


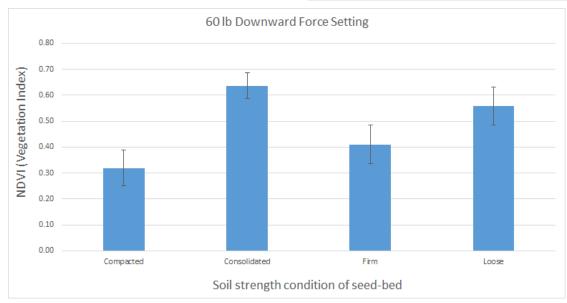


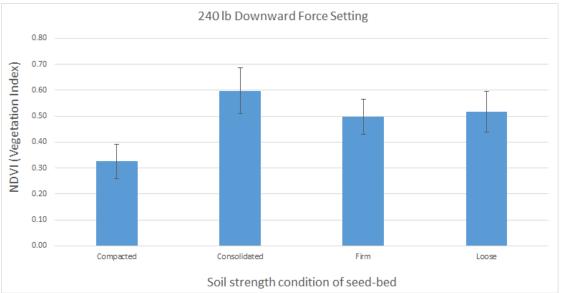
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Effect on size of vegetation 56 DAP







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Thanks for your attention!

Special Recognition to:

CottonInc

Precision Planting LLC