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### **Topics Summary from 1/24/2020 @ Coteau des Prairies Lodge**

1. Favorable Traits of Corn for 60" Corn Production with Cover Crop
  - Flex Ear and Upright Leaf Structure
2. Cover Crop Planting Date
  - V<sub>3</sub>-V<sub>5</sub> Stage
    - Planting before that can allow the cover crop to excel and stunt the corn
    - Planting after that runs the risk of breaking the stalks during cover crop seeding
3. Economics
  - 5 % Yield Loss Documented @ Oakes Irrigation Research Site in 2019
    - $180 \text{ bu.} \times 5\% = 9 \text{ bu.} \times \$3.50 = \$31.50$
  - How to Make-up for Yield Drag & Cover Crop Seed?
    - Reduce overall fertilizer/herbicide by only applying in corn corridor (banding)
    - Reduce seed population/acre to lower input costs (Research 20220)
    - Graze cover crops fall/spring. Calculate additional quantity/quality of forage from cover crops
    - Dual usage of seed cover crops and fertilizer application
    - No stalk chopper or vertical tillage
4. Double Cropping
  - Corn & Soybeans alternating 30" rows w/ rye idea
    - Utilize tall corn variety, short soybean variety, w/ rye
    - Harvest corn first, then soybeans, rye overwinters and continues to use water
5. Cover Crops
  - Mix Considerations
    - Goals – Mix created for: Forage, Weed Control, N<sub>2</sub> Builder, and H<sub>2</sub>O Mgmt.
    - Rotation – Mix must also consider following years cash crop
6. Silage Corn
  - Utilize higher biomass cover crops (millet-sorghum sudangrass) w/ grain not being the primary focus. Must still maintain some grain to make quality silage.
7. Variations / Wide-Row Corn
  - 44" – 66" – Paired 66" : 40" - 60" - Paired 60"
8. Miscellaneous Issues
  - Machinery – Offsets by direction, skips are substantial, and planter adaptations for seeding

9. Miscellaneous Benefits

- Wildlife value via cover crop
- Pollinator / Beneficial Insects via cover crop
- Appears stalks are stronger; less likely to snap or lodge
- Provides avenue for creating a crop rotation in corn on corn fields

10. Moving Forward – Goals/Action Items

- Distribute notes to everyone from meeting - 2/3/2020
- Identify acres planted to wide-row corn – 6/15/2020
- Notify group of and help facilitate field tours – 8/1/2020
- Create spot on CCSP webpage to house wide-row corn information
- Ask for time slot @ NDASCD Annual Meeting for presentation – November 2020
- Ask for time slot @ DIRT Workshop – December 2020
- Hold Wide-Row Corn Conference III @ Coteau des Prairies Lodge - January 2021



60" Single

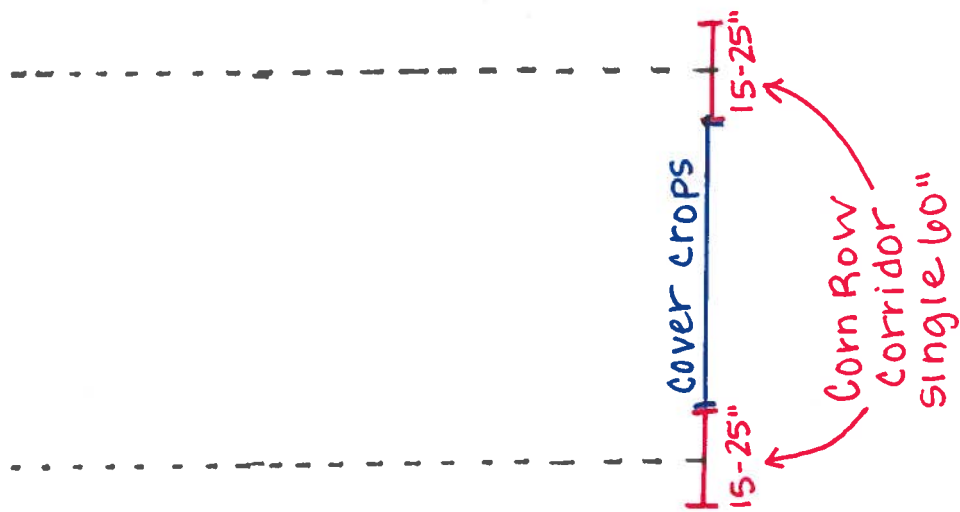
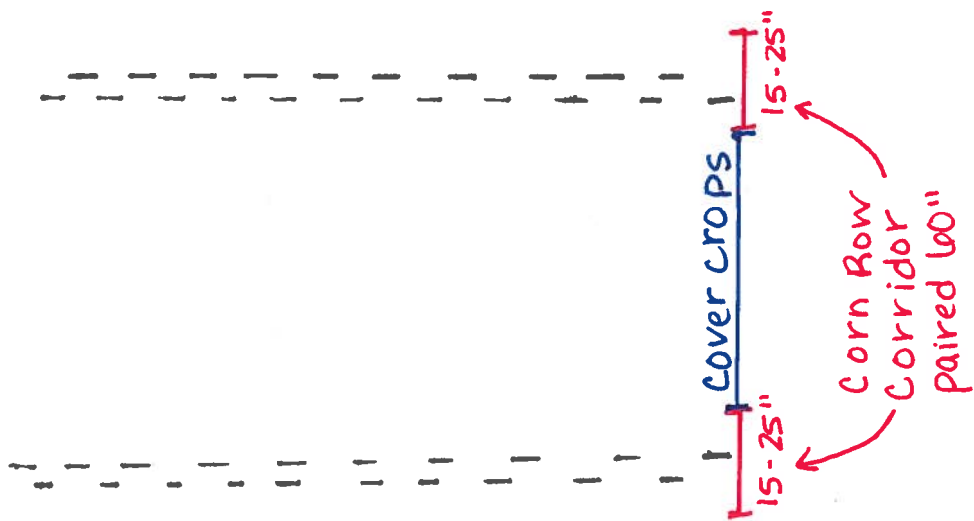


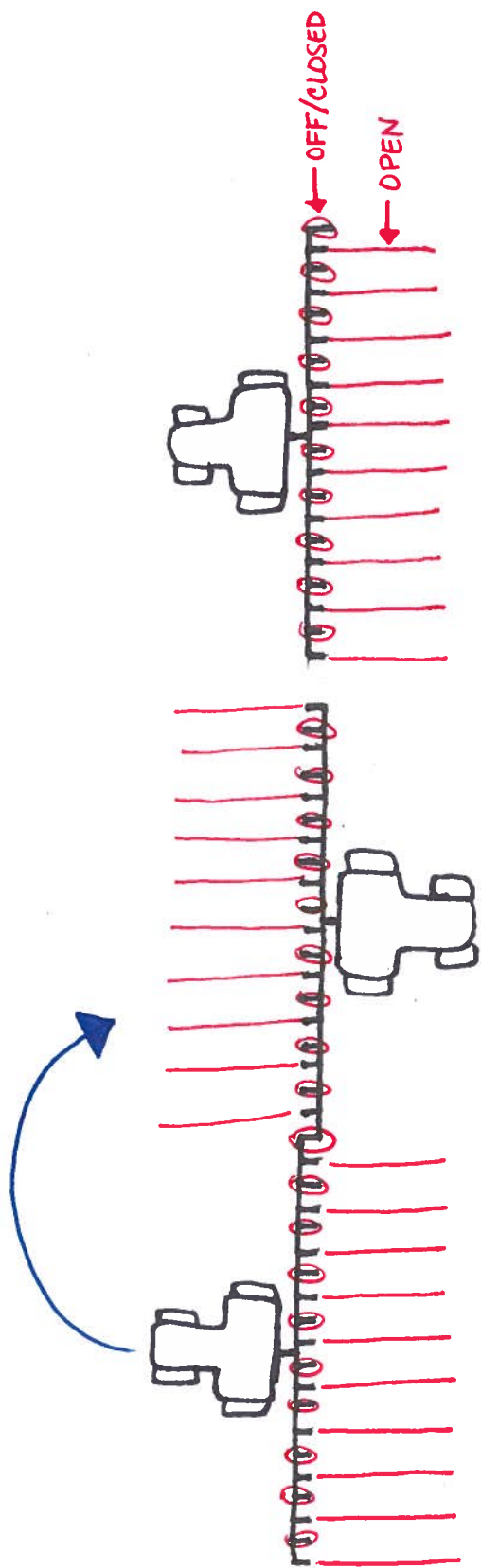
60" Paired



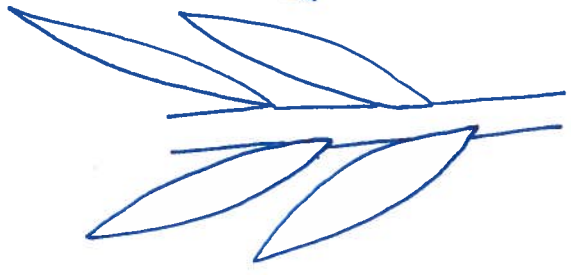
30" Single



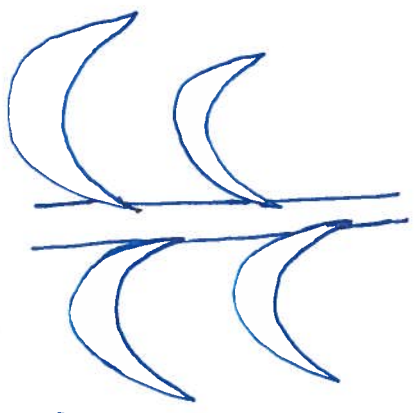




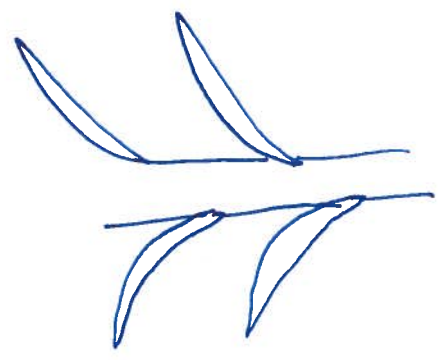
Consider the OFFSET  
• That way there is no overseeding  
or too wide of rows.



UPRIGHT

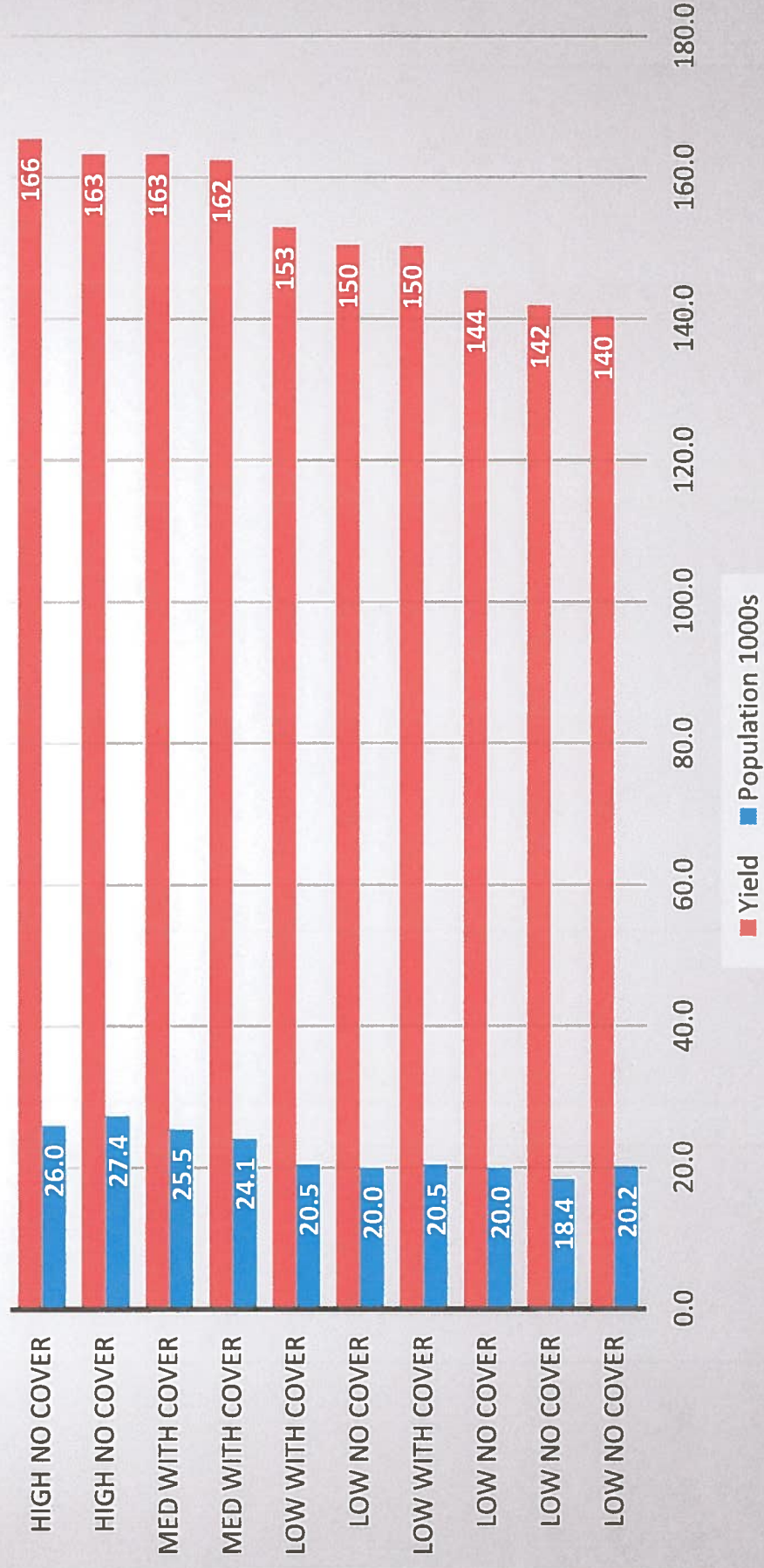


PENDULUM



SEMI-PENDULUM

## 60s and Cover Crops



## 60 inch Population and Yield

