



CO-ALLIANCE®

VRS- Variable Rate Seeding



Maximize Your Seed Performance

See for yourself how your data translates into the most accurate variable rate seeding map possible. For more than a decade, our team has been combining agronomic recommendations and economic factors to improve profit potential for growers.

- Maps produced by local Co-Alliance Agronomic Experts
- Use your historical data to enhance your future yields
- View your recommendations weeks in advance using DataOnTouch
- Consult with your local Co-Alliance representative to fine-tune seeding rate
- Flexibility of having a map for every variety you have purchased for all of your fields
- Have recommendation maps transmitted wirelessly right to your planter
- Technical Support provided through Co-Alliance Technology

Agronomic Benefits of Variable Rate Seeding Soybeans

By controlling the population we plant we can better manage overall soybean height. Managing soybean height has several benefits:

- By decreasing populations in the most productive soils we can lower the risk of late season lodging. Late season lodging has been demonstrated to cause anywhere from 3-10% losses in yield.
- Conversely, by increasing populations on the less productive soil, we can encourage competition amongst neighboring plants and increase the overall plant height. Increasing plant height on high ground has two benefits:
 - Harvestability: Is increased by encouraging higher pod set at the first node.
 - Better weed control: The higher population increases the height and closure rate of the soybean canopy. This canopy closure leads to better weed control.

Mitigate Replant Concerns

How many times have you walked a soybean field to determine if you should replant or not? How many times have you thought, "If I only just had 10K-20K more plants on the high ground I could probably live with the rest of the field." By using variable rate technology to seed your soybeans the first time, you are essentially doing just that. You are planting more soybeans on the tougher emerging soils anyway to encourage height and canopy closure. A side benefit of this decision is possibly not having to replant part or all of the field if emergence conditions turn out to be challenging.

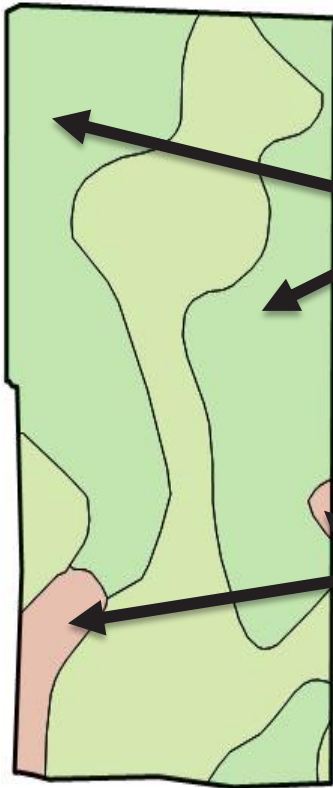
Maximize Your Seed Performance

Compatibility:

- | | | |
|----------------------------|------------------------------|-----------------|
| • AGCO | • John Deere | • Slingshot |
| • AgLeader | • GreenStar GS2 & GS3 | • Shapefile |
| • Insight, Integra & Versa | • Precision Planting 20/20 | • Trimble |
| • CNH | • FieldView & PrecisionCloud | • CFX-750 & FMX |
| • Pro600 & Pro700 | • Raven | |

Contact your Branch Seed and Agronomy Team for details!

VR Soybean Planting



Soils Map



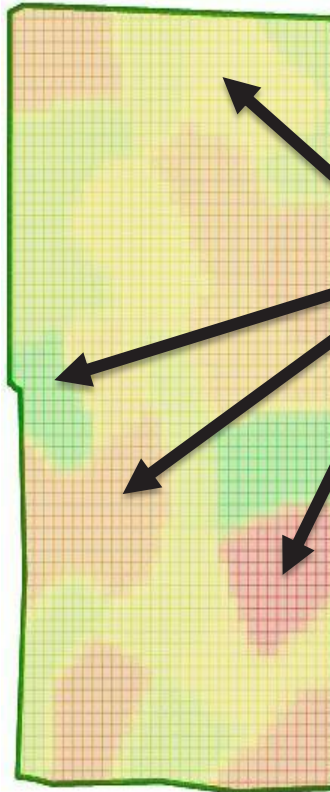
Plant less in areas prone to lodging



Plant more in tough emerging areas prone to thin stands, poor weed control, and harvest losses due to short plant type

Summary Statistics

Average Rate: 165,000 seeds/acre



Plant the best population for each soil & experience:

- *Less lodging*
- *Less replanting*
- *Better weed control*
- *Seed cost savings!*

Variable Rate Soybean Solution

Summary Statistics

Average Rate: 153,224 seeds/acre
Minimum Rate: 142,500 seeds/acre
Maximum Rate: 177,500 seeds/acre