

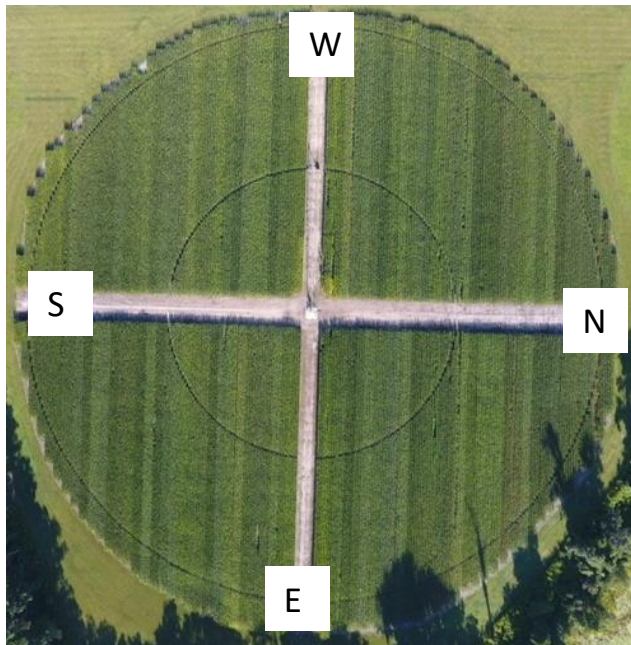
2023 NFREC-SV BMP

Grain Corn Variety Trial

Keith Wynn, UF/IFAS Hamilton County Extension, Emily Beach UF/IFAS Lafayette County Extension, Nicholas Dufault UF/IFAS Plant Pathologist, Kevin Korus UF/IFAS Alachua County Extension, Ben Broughton, North Florida Research and Education Center-SV Farm Manager, Joel Love, UF/IFAS BMP Outreach/Education Specialist

Purpose and Scope

Each year there is a daunting task for producers to select a variety that will offer the most productive yields under normal conditions in the Suwannee Valley region of North Florida. This trial includes 18 varieties from 9 seed corn companies and each treatment was planted at a population of 32,000 seeds/acre. The trial included 4 replications in a randomized order.



Treatment #	Company	Variety #
1	Agratech	708VIP
2	Agratech	711VT2P
3	Agrigold	A643-52VT2PRO
4	Agrigold	A6659VT2RIB
5	Croplan	CP5678SS
6	Croplan	CP5893TRE
7	Dekalb	DKC70-45RIB
8	Dekalb	DKC68-35VT2P
9	Dyna-Gro	D58SS65
10	Dyna-Gro	D57VC51
11	Integra	6342TRE
12	Integra	6641SS
13	NK	NK1677-3110
14	NK	NK1755-DV
15	Pioneer	P1622VYHR
16	Pioneer	P1289YHR
17	Revere	1627TC
18	Revere	1577VT2P

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----

Rep 1 SW Pivot Quarter

16	6	10	7	8	15	17	13	11	5	1	3	12	2	14	4	18	9
----	---	----	---	---	----	----	----	----	---	---	---	----	---	----	---	----	---

Rep 3 SE Pivot Quarter

10	2	5	13	4	18	17	3	7	16	1	6	11	14	8	9	12	15
----	---	---	----	---	----	----	---	---	----	---	---	----	----	---	---	----	----

Rep 2 NW Pivot Quarter

6	2	13	9	17	12	4	14	11	8	18	7	10	15	1	5	16	3
---	---	----	---	----	----	---	----	----	---	----	---	----	----	---	---	----	---

Rep 4 NE Pivot Quarter

2023 NFREC-SV

BMP Grain Corn Variety Trial

Treatment List

Prior to planting, these plots were planted in a multi-species blend cover crop that was terminated the first week of March with Glyphosate and 2, 4-D Amine. Plot areas were strip-tilled the day before planting, on March 29. It was planted on March 30-31 and harvested on August 18-22.

Fertility:

5-7-28 Mosaic Micro-essentials S-10/Aspire blend with minors at 206 lbs/acre, 8 inches under row with KMC strip till unit and First Products applicator

23-9-0 liquid starter at 12 gallons/acre plus Orangeburg Supra-Starter

Micronutrient blend applied 2 X 2 at planting

17-0-21 dry blend at 700 lbs/acre banded on both sides applied on 4-27-23

28-0-0-5 fertigation at 10 gallons/acre on 5-15-23

28-0-0-5 fertigation at 10 gallons/acre on 5-25-23

28-0-0-5 fertigation at 10 gallons/acre on 5-30-23

***Note:** The following AgXplore products were used in starter, side dress, and foliar applications: Contain MAX (Nitrogen management aid), NutraK (foliar Potassium source), OnWard (plant growth regulator), XR5 Sulfur (Sulfur source), Octane (Carbohydrate source), BorPak (Boron source), Inferno (Humic/Fulvic), and AGX 22011 (micronutrient blend source).

Pesticide/Herbicide:

Counter in furrow at 5.4 lbs/acre at planting

Gramoxone, Dual 2 and Atrazine applied on 4-1-23

Glyphosate, Prowl and Atrazine applied on 4-26-23

Approach Prima at 6.8 oz/acre was applied via highboy on 6-16-23

Total Fertilizer Usage

Nitrogen: 261 lbs/acre

Sulfur: 82 lbs/acre

Phosphorus: 26 lbs/acre

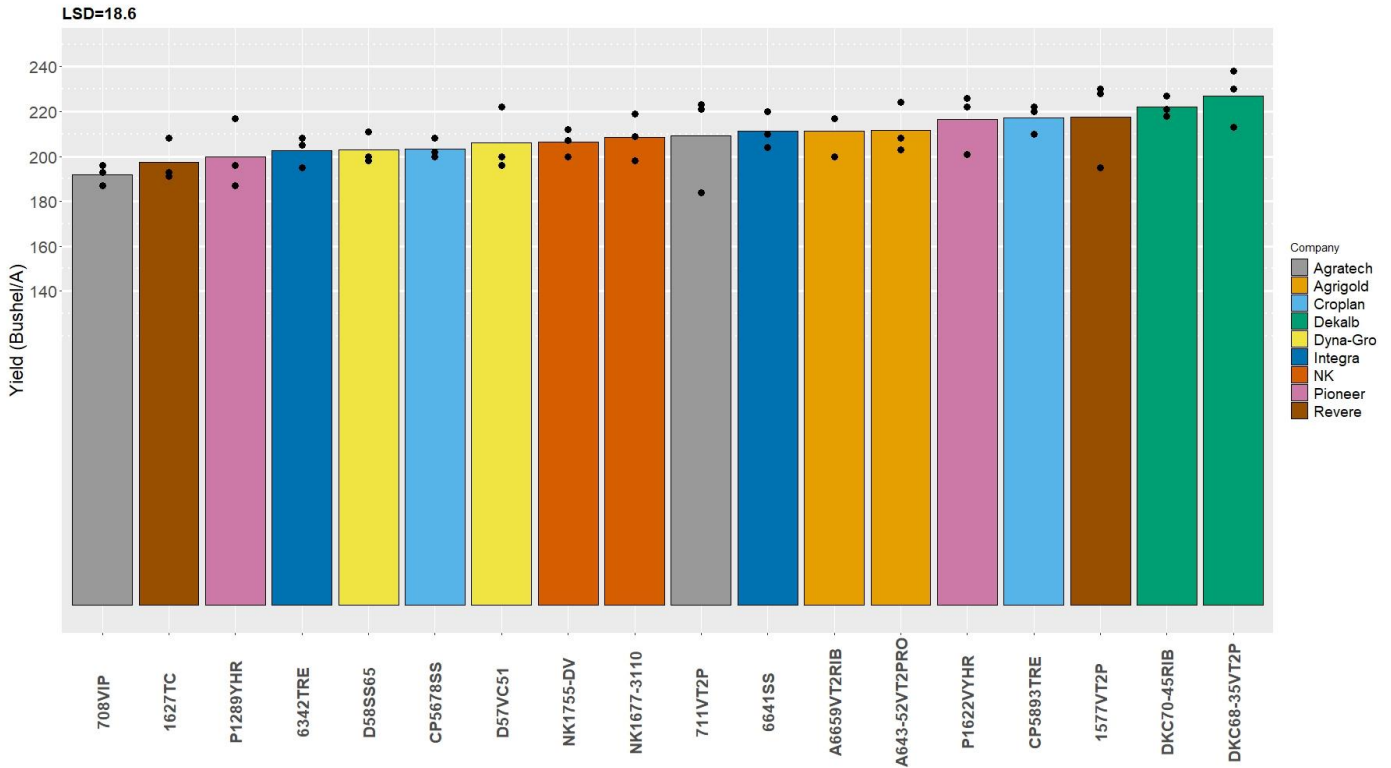
Magnesium: 11 lbs/acre

Potassium: 190 lbs/acre

Boron: 2 lb/acre

2023 NFREC-SV

BMP Grain Corn Variety Trial Results



Company	Variety	Mean	Group
Dekalb	DKC68-35VT2P	227	a
Dekalb	DKC70-45RIB	222	ab
Revere	1577VT2P	218	abc
Croplan	CP5893TRE	217	abc
Pioneer	P1622VYHR	216	abc
Agrigold	A643-52VT2PRO	212	abcd
Agrigold	A6659VT2RIB	211	abcd
Integra	6641SS	211	abcd
Agratech	711VT2P	209	abcde
NK	NK1677-3110	209	abcde
NK	NK1755-DV	206	bcde
Dyna-Gro	D57VC51	206	bcde
Croplan	CP5678SS	203	cde
Dyna-Gro	D58SS65	203	cde
Integra	6342TRE	203	cde
Pioneer	P1289YHR	200	cde
Revere	1627TC	197	de
Agratech	708VIP	192	e