









DECEMBER 2023

# Field Crops Newsletter - Research Edition

Granville and Person County
Mikayla Berryhill

## A Note from Your Agent:

I hope you and your families had a wonderful Thanksgiving and have a Merry Christmas later this month! As your harvest season comes to a close, so do my research plots. I have put a lot of my effort into providing local research trials so that you have the best information for making decisions on your operation. So, I decided to make my last newsletter of the year a "research edition" to summarize the data from the past year. This is a collection of statewide, regional, and local research trials.

This newsletter contains **summaries** of the research and data with some major take-away points. Full reports containing more specific information about these trials and their data can be found on the Person County Extension Website (person.ces.ncsu.edu/field-crops-program-2/field-crop-research/). If you would like to request a printout of one or more of these resources, please let me know and I am happy to do so. Please also take note of the upcoming events below.

Happy Holidays!

## **Upcoming Events:**

## Old Belt Regional Tobacco GAP/Production Meeting

JANUARY 10 @8AM
Caswell County Civic Center
536 Main St., Yanceyville, NC
Registration:

OldBeltRegionalTobaccoMeeting.eventbrite.com

## Upper Middle Belt Tobacco GAP Meeting

JANUARY 22 @9AM
Granville County Convention & Expo
Center
4185 US-15, Oxford, NC
Registration:
go.ncsu.edu/UpperMiddleBeltTobacco2024

### **Respirator Fit Testing**

JANUARY 29TH

N.C. Cooperative Extension –
Granville County Center (125 Oxford
Outer Loop, Oxford, NC)
Contact me for more information.

# Grain Marketing, Hedging, and Options Workshop

FEBRUARY 7 @10AM
Person County Office Building
304 S. Morgan Street, Roxboro, NC
Registration:
go.ncsu.edu/GrainMarketingWorkshop24

### NE Piedmont Grain Production Meeting

FEBRUARY 20 @9:30AM
Vance County Regional Farmers Market
210 Southpark Dr., Henderson, NC
Registration:

go.ncsu.edu/NEPiedmontGrainMeeting2024

### **Upper Piedmont Grain Meeting**

FEBRUARY 22 @8:30AM
Piedmont Community College
1715 College Drive (S Building),
Roxboro, NC
Registration:
go.ncsu.edu/UpperPiedmontGrain2024

### **INSIDE**

### NC STATE TRIALS

NC State Official Variety Trials

Water Resiliency Trial

Corn Bt Trial

### COUNTY/LOCAL TRIALS

Intensive Management Corn Trial

Soybean In-Furrow Trial

Regional Corn Variety Trial

Wheat Fungicide Trial

### Contact

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# NC State OVT (Official Variety Trial) Results

To quickly summarize all of the OVT results for most important crops in our area (tobacco, corn, and soybeans), below are some simple charts displaying the highest yielding varieties for each crop either from **statewide (tobacco)** or **region wide (corn and soybean)** data. This is a limited demonstration of the datasets, and more information can be found at the links below the charts, or by contacting me!

### TOBACCO

	North	Carolina	a Tobacco	o Official Vari	ety Test 2023 -	Kinston and Rock	ky Mount, 202	3
Variety	Yield (lb/a)	Value (\$/a)	Price (\$/cwt)	Grade Index	Days to Flower	Leaves per Plant	Plant Height (in.)	Leaf Spacing (in.)
CC143	2662	4079	153.32	77	63	19.5	37	1.89
CC145	2459	3600	146.75	72	64	18.4	38	2.05
CC603	2415	3625	150.78	74	65	19.5	36	1.84
CC607	2621	3997	151.38	73	63	19.1	37	1.92
CC700	2524	3722	146.75	72	61	17.9	36	2.00
CC1063	2304	3610	157.00	76	63	18.2	37	2.05
GF318	2497	3755	150.88	74	61	18.5	36	1.94
GL26H	2409	3609	148.80	73	62	18.2	37	2.03
GL365	2549	3961	155.50	77	68	19.9	36	1.79
GL386	2596	4039	155.12	76	62	18.5	37	2.02
GL395	2417	3547	146.48	72	60	18.5	36	1.95
K326	2700	4283	159.12	77	60	19.2	35	1.81
K346	2268	3615	159.60	77	65	18.2	36	1.95
NC196	2465	3820	154.75	76	67	19.1	37	1.93
NC299	2487	3741	150.42	75	64	18.5	36	1.94
NC606	2534	3918	154.40	75	63	17.7	36	2.03
NC960	2814	4457	158.15	76	68	19.6	38	1.96
NC986	2929	4333	146.72	72	65	19.2	37	1.94
NC987	2881	4488	155.17	76	62	19.3	37	1.93
NC989	2750	4058	147.60	72	63	18.9	34	1.82
NC991	2961	4306	144.52	71	62	18.6	37	1.97
NC993	2964	4554	153.38	73	66	19.5	36	1.85
NC994	2835	4082	143.00	72	65	18.9	37	1.95
NC996	3048	4629	151.43	75	62	18.8	39	2.06
NC1006	2916	4329	148.07	72	63	18.6	39	2.09
NC1007	2968	4581	154.18	75	63	17.9	39	2.18
NC1226	2539	3815	150.15	75	65	19.3	35	1.83
PVH1600	2699	4229	156.47	76	63	19.1	37	1.94
PVH1920	2513	4035	160.53	79	67	20.0	37	1.84
PVH1940	2342	3815	162.93	78	61	18.1	37	2.01
PVH1980	2449	3796	154.92	77	64	18.1	34	1.89
PVH2233	2929	4371	149.47	74	67	20.4	38	1.88
PVH2254	2699	4057	149.85	74	62	18.5	38	2.03
PVH2310	2510	3986	164.73	78	61	17.4	37	2.11
PVH2343	2737	4131	150.32	73	62	19.1	38	1.98
PXH53	2637	3891	147.92	72	63	19.1	38	1.98
RJREX608	2251	3543	156.23	75	70	19.3	35	1.81
RJREX609	2363	3473	147.25	73	63	18.0	37	2.05
Test Avg.	2622	3997	152.47	75	64	18.81	37	1.95

NOTE – The Granville County site was destroyed by hail, so it is not included in the 2023 dataset. The full dataset with leaf chemistry will be available on the tobacco portal and in the tobacco books soon.

Above Average Piedmont (Person, Surry, and Union) - Medium Hybrids (2023)								
Company/Brand	Hybrid	Trait	Relative Maturity	Yield (bu/a)	Test Weight (lb/bu)	% of Trial Mean	Top Yield Group %	
Seed Consultants	SC1112AM	AM	112	240.2	57.5	9.9%	67%	
Dyna-Gro	D54VC34	VT2P	114	236.9	57.8	8.2%	67%	
Pioneer	P1197YHR	YGCB/HX1/RR2/LL	111	231.2	58.2	5.8%	67%	
Augusta Seed	A1365	PCE	115	230.1	58.8	5.5%	67%	
Progeny Ag Products	PGY 2314TRE	TRECEPTA	114	228.8	57.5	4.4%	33%	
Pioneer	P1222YHR	YHR	112	227.5	58.9	4.2%	67%	
INTEGRA	6493	VT2P	114	227.1	57.9	3.9%	67%	
Axis	63M73	TRECEPTA	113	227.1	57.9	3.5%	33%	
Growmark Inc	FS 6306T RIB	TRECEPTA	113	226.3	57.8	3.5%	33%	
Growmark Inc	FS 6017V RIB	VT2P	110	226.1	56.9	3.2%	33%	
Gateway	1913TRE	TRECEPTA	113	226.0	57.5	3.7%	33%	
DEKALB - Bayer Crop Science	DKC 113-83	TRE	113	225.9	58.3	3.0%	67%	
INTEGRA	6342	TRECEPTA	113	225.5	57.6	2.7%	33%	
DEKALB - Bayer Crop Science	DKC 65-99	TRECEPTA	115	225.2	57.5	2.9%	33%	
Seed Consultants	SC1134AM	AM	113	225.1	57.5	2.9%	33%	
FS System	FS 6137 PC	PowerCore	111	224.9	56.8	2.6%	33%	
DEKALB - Bayer Crop Science	DKC 63-56	RR2	113	224.1	57.7	2.7%	33%	
FS System	FS 6133VDG RIB	VT2P	111	223.6	56.7	2.3%	67%	
DEKALB - Bayer Crop Science	DKC 64-22	VT2P	114	223.3	59.9	1.8%	33%	
Revere Seed	Revere 1307 TC	TRECEPTA	113	222.4	57.8	1.6%	33%	
Dyna-Gro	D53TC23	TRECEPTA	113	221.2	57.6	1.0%	33%	
Growmark Inc	FS 6217T RIB	TRECEPTA	112	221.0	56.7	0.9%	33%	
Revere Seed	Revere 0918 SSX	SSX	109	220.4	57.5	0.4%	33%	
DEKALB - Bayer Crop Science	DKC 62-70	VT2P	112	219.7	59.5	0.0%	33%	
Revere Seed	Revere 1577 VT2P	VT2P	115	219.6	58.8	0.1%	33%	
Axis	65W75	TRECEPTA	115	219.4	57.8	0.1%	33%	

## Above Average Piedmont (Surry and Union) - Late Hybrids (2023)

Company/Brand	Hybrid	Trait	Relative Maturity	Yield (bu/a)	Test Weight (lb/bu)	% of Trial Mean	Top Yield Group %
DEKALB - Bayer Crop Science	DKC 68-35	VT2P	118	229.3	59.3	19.5%	100%
DEKALB - Bayer Crop Science	DKC 66-06	TRECEPTA	116	216.2	58.4	10.8%	50%
INTEGRA	CX301119VT2P	VT2P	119	213.4	57.5	9.8%	50%
FS System	FS 6627T RIB	TRECEPTA	116	211.6	59.1	8.8%	50%
Dyna-Gro	D56TC44	TRECEPTA	116	209.0	59.2	6.7%	50%
INTEGRA	6624TRE	TRECEPTA	116	206.0	59.3	5.0%	50%
DEKALB - Bayer Crop Science	DKC 67-44	VT2P	117	205.5	59.1	5.6%	0%
DEKALB - Bayer Crop Science	DKC 69-99	TRECEPTA	119	204.6	59.7	3.4%	50%
AgraTech	87VT2P	VT2P	117	203.8	57.7	3.1%	50%
Seedway	SX 19B23VT	VT2P	118	203.5	57.6	3.3%	50%
Dyna-Gro	D58TC94	TRECEPTA	118	203.4	60.1	3.6%	50%
INTEGRA	6641	SS	116	202.3	58.8	3.6%	0%
Dyna-Gro	D57TC29	TRECEPTA	117	201.0	57.3	2.2%	50%
Pioneer	P1622VYHR	VYHR	116	199.3	59.3	2.9%	0%
Revere Seed	Revere 1627 TC	TRECEPTA	116	198.9	57.8	0.3%	50%
Growmark Inc	FS 6818V RIB	VT2P	118	198.3	59.3	2.2%	0%
DEKALB - Bayer Crop Science	DKC 117-78	VT2P	117	196.9	59.3	0.6%	0%
INTEGRA	6720	VT2P	117	196.6	59.5	0.7%	0%

## More information about the corn data can be found at the bottom of the soybean charts below.

## **SOYBEANS**

	Above Average Piedmont 2023 - MG4 Full Season								
Company/Brand	Varieties	Trait	Yield	% of Trial Mean	Top Yield Group				
UniSouth Genetics	USG 7487XTS	Xtend/STS	103	16.30%	100.00%				
Asgrow	AG49XF3	XtendFlex	100.2	11.80%	75.00%				
Revere Seed	Revere 4606XFS	XtendFlex/STS	98.8	11.10%	50.00%				
Syngenta - NK	NK48-H3XFS	XtendFlex/STS	98.3	11.00%	50.00%				
HiSOY	HS46F00	XtendFlex	97.4	9.20%	25.00%				
Revere Seed	Revere 4826XF	XtendFlex	96.7	8.40%	25.00%				

DONMARIO SEEDS	DM48F53	XtendFlex	96.4	8.90%	50.00%
Revere Seed	Revere 4821XFS	XtendFlex/STS	95.9	7.10%	25.00%
Syngenta - NK	NK49-C2XFS	XtendFlex/STS	95.2	6.50%	25.00%
Dyna-Gro	S49XF43S	XtendFlex/STS	95.1	7.10%	0.00%
INTEGRA	XF4893NS	XtendFlex/STS	94.9	6.10%	25.00%
UniSouth Genetics	USG 7461XFS	XtendFlex/STS	94.4	5.50%	25.00%
Gateway Seed	473XFS	XtendFlex/STS	94	5.00%	25.00%
Gateway Seed	469XF	XtendFlex	93.5	5.00%	0.00%
HiSOY	HS48F30	XtendFlex	91.6	3.20%	0.00%
Bayer Crop Science	AG48XF3	XtendFlex	91.5	2.70%	0.00%
UniSouth Genetics	USG 7474XFS	XtendFlex/STS	90.3	2.10%	0.00%
Progeny Ag Products	P 4691 XFS	XtendFlex/STS	90.2	0.60%	25.00%
Progeny Ag Products	P 4798 XF	XtendFlex	90	0.80%	0.00%
Dyna-Gro	S47XF23S	XtendFlex/STS	89.7	0.60%	0.00%
CNI	X4660NS	Xtend	89.3	0.30%	0.00%
Progeny Ag Products	P 4604 XFS	XtendFlex/STS	89.1	0.60%	0.00%
Revere Seed	Revere 4299XFS	XtendFlex/STS	88.2	12.30%	100.00%
INTEGRA	XF4454S	XtendFlex/STS	84.6	5.90%	100.00%
AGSouth Genetics	AGS V4921S	Conventional/STS	73.7	13.80%	67.00%
AGSouth Genetics	AGS V4520S	Conventional	65.1	3.60%	0.00%
Perdue	P45XP421	Conventional	64.3	1.00%	0.00%

## Above Average Piedmont 2023 - MG4 Doublecrop

Company/Brand	Varieties	Trait	Yield	% of Trial Mean	Top Yield Group
INTEGRA	XF4893NS	XtendFlex/STS	80.1	10.2%	100.0%
Syngenta - NK	NK48-H3XFS	XtendFlex/STS	79.8	9.9%	100.0%
UniSouth Genetics	USG 7487XTS	Xtend/STS	78.5	8.2%	100.0%
INTEGRA	XF4454S	XtendFlex/STS	77.8	7.4%	100.0%
Revere Seed	Revere 4606XFS	XtendFlex/STS	77.4	6.3%	50.0%
HISOY	HS46F00	XtendFlex	77.3	6.5%	100.0%
Dyna-Gro	S49XF43S	XtendFlex/STS	77.3	6.2%	50.0%
Revere Seed	Revere 4821XFS	XtendFlex/STS	76.6	5.2%	50.0%
Asgrow	AG49XF3	XtendFlex	76.3	5.2%	50.0%
DONMARIO SEEDS	DM48F53	XtendFlex	76.1	4.6%	50.0%
UniSouth Genetics	USG 7461XFS	XtendFlex/STS	76.1	4.5%	50.0%
Revere Seed	Revere 4299XFS	XtendFlex/STS	76	4.8%	100.0%
Progeny Ag Products	P 4604 XFS	XtendFlex/STS	75.5	3.8%	0.0%
Revere Seed	Revere 4826XF	XtendFlex	75.5	4.1%	50.0%
CNI	X4660NS	Xtend	75.1	3.4%	50.0%
Asgrow	AG45XF3	XtendFlex	74.8	3.3%	50.0%
Asgrow	AG48XF3	XtendFlex	73.8	2.0%	50.0%
Dyna-Gro	S48EN73	Enlist	73.8	1.8%	50.0%
Progeny Ag Products	P 4806 XFS	XtendFlex/STS	73.7	1.4%	0.0%
Christine Cash	41EE62	Enlist	73.4	1.1%	50.0%
UniSouth Genetics	USG 7474XFS	XtendFlex/STS	73.4	1.1%	0.0%
Stine Seed	47EE20	Enlist/STS	73.3	0.6%	0.0%
AGSouth Genetics	AGS V4921S	Conventional/STS	67	8.9%	100.0%

## Above Average Piedmont 2023 - MG5 Full Season

Company/Brand	Varieties	Trait	Yield	Top Yield Group	% of Trial Me
UniSouth Genetics	USG 7584XF	XtendFlex	96.8	75.0%	16.1%
Syngenta - NK	NK54-J9XFS	XtendFlex/STS	94.7	75.0%	14.0%
Progeny Ag Products	P 5441 XF	XtendFlex	93	75.0%	11.4%
Gateway Seed	555XF	XtendFlex	92.4	50.0%	10.9%
UniSouth Genetics	USG 7543XF	XtendFlex	92	75.0%	10.6%
Progeny Ag Products	P 5641 XF	XtendFlex	90.5	50.0%	8.5%
Progeny Ag Products	P 5751 XF	XtendFlex	90.5	50.0%	8.8%
Asgrow	AG56XF2	XtendFlex	88.7	0.0%	6.7%
Dyna-Gro	S58XF24	Xtend	87.8	25.0%	5.4%
CNI	XF5834S	XtendFlex/STS	87.8	50.0%	5.4%
HiSOY	HS58F30	XtendFlex	87.3	25.0%	5.1%
Dyna-Gro	S58XT30	Xtend	87.1	25.0%	4.8%
Revere Seed	Revere 5735XFS	XtendFlex/STS	87	25.0%	4.6%
Gateway Seed	583XFS	XtendFlex/STS	87	25.0%	4.9%
Asgrow	AG58XF3	XtendFlex	86.4	25.0%	3.7%
DONMARIO SEEDS	DM 59E01S	Enlist/STS	85.7	25.0%	2.4%
HiSOY	HS57E11	Enlist	85.5	25.0%	2.9%
Revere Seed	Revere 5029XF	XtendFlex	85.4	25.0%	2.6%
Revere Seed	Revere 5607XF	XtendFlex	84.9	0.0%	2.0%
Asgrow	AG57XF1	XtendFlex	84.5	25.0%	1.4%
Revere Seed	Revere 5429E3	Enlist	84.5	25.0%	1.7%
HiSOY	HS56F00	XtendFlex	84.2	0.0%	1.0%
Asgrow	AG54XF0	XtendFlex	83.9	50.0%	0.6%
Revere Seed	Innotech IS5143E3	Enlist	83.6	0.0%	0.3%
Harvey's	AP54E32	Enlist	83.5	25.0%	0.0%

	Above Average	Piedmont 2023 -	MG5 Double	ecrop	
Company/Brand	Varieties	Trait	Yield	Top Yield Group	% of Trial Mo
Gateway Seed	505XF	XtendFlex	83.3	100.0%	14.3%
Gateway Seed	555XF	XtendFlex	76	50.0%	3.7%
Asgrow	AG54XF0	XtendFlex	77.3	50.0%	6.5%
Asgrow	AG56XF2	XtendFlex	73.8	50.0%	1.0%
Harvey's	AP54E32	Enlist	74.3	0.0%	2.1%
DONMARIO SEEDS	DM 59E01S	Enlist/STS	77.8	100.0%	6.6%
HiSOY	HS54E10	Enlist	73.8	50.0%	0.9%
HiSOY Dayara Saad	HS58F30	XtendFlex	75.7	50.0%	3.4%
Revere Seed	Innotech IS5143E3	Enlist	79 77.2	100.0%	8.6% 6.2%
Syngenta - NK Syngenta - NK	NK52-D6E3 NK52-V1XF	Enlist XtendFlex	74.3	50.0% 0.0%	2.1%
Syngenta - NK	NK54-J9XFS	XtendFlex/STS	75.6	50.0%	3.4%
Progeny Ag Products	P 5056 XFS	XtendFlex/STS	80.3	100.0%	10.3%
Progeny Ag Products	P 5441 XF	XtendFlex	73.4	0.0%	0.7%
Revere Seed	Revere 5029XF	XtendFlex	80.3	100.0%	10.5%
Revere Seed	Revere 5429E3	Enlist	73.4	0.0%	0.9%
Revere Seed	Revere 5735XFS	XtendFlex/STS	73.4	50.0%	1.0%
Dyna-Gro	S51XF84S	XtendFlex/STS	72.5	0.0%	0.1%
Dyna-Gro	S58XF24	Xtend	77.4	100.0%	5.7%
Dyna-Gro	S58XT30	Xtend	75.2	50.0%	2.6%
Seedway	SG 5643XTF	XtendFlex	73.2	0.0%	0.2%
UniSouth Genetics	USG 7503XF	XtendFlex	72.8	0.0%	0.2%
UniSouth Genetics	USG 7514ET	Enlist	75.2	50.0%	3.6%
UniSouth Genetics	USG 7542ET	Enlist	74.9	50.0%	2.7%
UniSouth Genetics	USG 7543XF	XtendFlex	76	50.0%	4.0%
CNI	XF5834S	XtendFlex/STS	76.3	50.0%	4.2%
	Above Average	Piedmont 2023 –	MG6 Full Se	eason	
Company/Brand	Varieties	Traits	Yield	% of Trial Mean	Top Yield Gre
UniSouth Genetics	USG 7633XF	XtendFlex	92.8	19.9%	67.0%
NC Foundation Seed Producers	NC-Dunphy	Conventinal	83.2	11.6%	100.0%
UniSouth Genetics	USG 7682XF	XtendFlex	83.2	6.7%	33.0%
Revere Seed	Revere 6927XF	XtendFlex	83	6.1%	67.0%
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Seedway	SG 6243XTF	XtendFlex	82.6	5.5%	33.0%
HiSOY	HS62F30	XtendFlex	82.4	5.3%	67.0%
HiSOY Asgrow	HS62F30 AG69XF0	XtendFlex XtendFlex	82.4 81.3	5.3% 4.3%	67.0% 33.0%
HiSOY Asgrow Syngenta - NK	HS62F30 AG69XF0 NK67-P1XF	XtendFlex XtendFlex XtendFlex	82.4 81.3 81.3	5.3% 4.3% 4.2%	67.0% 33.0% 0.0%
HiSOY Asgrow Syngenta - NK Gateway Seed	HS62F30 AG69XF0 NK67-P1XF 600XF	XtendFlex XtendFlex XtendFlex XtendFlex	82.4 81.3 81.3 80.8	5.3% 4.3% 4.2% 3.4%	67.0% 33.0% 0.0% 33.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex	82.4 81.3 81.3 80.8 80.4	5.3% 4.3% 4.2% 3.4% 3.1%	67.0% 33.0% 0.0% 33.0% 33.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist	82.4 81.3 81.3 80.8 80.4 80.3	5.3% 4.3% 4.2% 3.4% 3.1% 2.4%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist	82.4 81.3 81.3 80.8 80.4 80.3 79.7	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 33.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist Enlist Enlist	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist/STS Elist Enlist Conventional	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0%
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0% 0
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest USDA-ARS	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889 Above Average F	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist/STS Elist Enlist Conventional	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0% 0
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest USDA-ARS  Company/Brand	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889 Above Average F	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist Conventional  Trait	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6 WG6 Double	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%  Crop % of Trial Mean	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0% 0
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest USDA-ARS  Company/Brand Seedway	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889 Above Average F Varieties SG 6243XTF	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist Conventional  Trait XtendFlex  XtendFlex  AttendFlex  XtendFlex  Initit  Initit	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6 <b>MG6 Double</b> <b>Yield</b>	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%  Crop  % of Trial Mean 12.4%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0% 0
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest USDA-ARS  Company/Brand Seedway Syngenta - NK	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889 Above Average F Varieties SG 6243XTF NK68-G2E3S	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist Conventional  Trait XtendFlex  XtendFlex Enlist Enlist Conventional	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6 <b>MG6 Double</b> <b>Yield</b> 79.2 78.5	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%  **Crop**  ** of Trial Mean 12.4% 10.8%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0% 0
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest USDA-ARS  Company/Brand Seedway Syngenta - NK Harvey's	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889 Above Average F Varieties SG 6243XTF NK68-G2E3S AP69E33	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist Conventional  Trait XtendFlex  XtendFlex Enlist	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6 <b>MG6 Double</b> <b>Yield</b> 79.2 78.5 78.1	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%  **Crop**  ** of Trial Mean 12.4% 10.8% 10.1%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0% 0
HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest USDA-ARS  Company/Brand Seedway Syngenta - NK Harvey's UniSouth Genetics	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889 Above Average F Varieties SG 6243XTF NK68-G2E3S AP69E33 USG 7633XF	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist Conventional  Trait XtendFlex Enlist/STS  Elist Trait XtendFlex Enlist/STS Enlist XtendFlex Enlist/STS	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6 <b>MG6 Double</b> <b>Yield</b> 79.2 78.5 78.1	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%  Crop  % of Trial Mean 12.4% 10.8% 10.1% 9.3%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0% 0
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HiSOY Asgrow Syngenta - NK Gateway Seed Asgrow Southern Harvest Dyna-Gro Harvey's Syngenta - NK Harvey's Southern Harvest USDA-ARS  Company/Brand Seedway Syngenta - NK Harvey's UniSouth Genetics Syngenta - NK HiSOY Southern Harvest Dyna-Gro	HS62F30 AG69XF0 NK67-P1XF 600XF AG66XF2 SH 6524 E S63EN74 AP63E32 NK68-G2E3S AP69E33 SH 6323 E3 N16-10889 Above Average F Varieties SG 6243XTF NK68-G2E3S AP69E33 USG 7633XF NK67-P1XF HS62F30 SH 6323 E3 S67XF34S	XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist Enlist Enlist Enlist Enlist Conventional  Piedmont 2023 – I  Trait XtendFlex Enlist XtendFlex Enlist XtendFlex Enlist XtendFlex XtendFlex XtendFlex XtendFlex XtendFlex Enlist XtendFlex XtendFlex XtendFlex Enlist XtendFlex XtendFlex XtendFlex XtendFlex Enlist XtendFlex	82.4 81.3 81.3 80.8 80.4 80.3 79.7 79.6 78.9 78.7 78.2 74.6 <b>MG6 Double</b> <b>Yield</b> 79.2 78.5 78.1 77.3 76.7 76.5 74.4	5.3% 4.3% 4.2% 3.4% 3.1% 2.4% 1.6% 0.9% 0.6% 0.1% 1.0%  Crop  % of Trial Mean 12.4% 10.8% 10.1% 9.3% 8.4% 8.8% 4.6% 4.6% 4.4%	67.0% 33.0% 0.0% 33.0% 33.0% 33.0% 33.0% 33.0% 33.0% 0.0% 0
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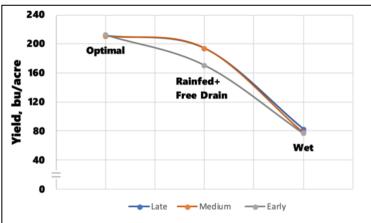
## Water Resiliency Trials

The water resiliency performance trials were established to:

- Evaluate elite, commercially available corn hybrids and soybean varieties to water stress conditions during critical development stages.
- Provide an objective guide for extension agents, producers, and advisors in selecting hybrids appropriate for their field situations.

The trials, conducted at the Total Ag Water Management (TAWM) Site located at the Tidewater Research Station in Plymouth, NC, artificially impose water stress during the growing season under a uniform soil type, fertility program and observed natural precipitation. While this data is not local to Person/Granville Counties, I feel this information is interesting and important for growers to think about when making hybrid and variety selections. The soil-water regimes were defined as:

- Rainfed-Free Drain: intended to create drier than normal conditions
- Optimal: intended to create ideal conditions representative of efficient water management systems
- Wet: Intended to create wet stress conditions



Yield response to water stress by Late (≥116 day), Medium (110-115 day), and Early (≤109 day) season corn hybrids in 2023.

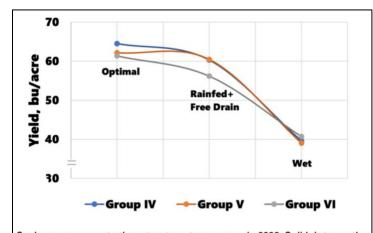
#### **MAIN TAKE AWAYS -**

#### Soybeans –

- Dryland exposure suppressed Group VI grain yield, a response we also observed in 2022.
- Significant yield decreases occurred in all maturity groups due to poor drainage conditions compared to other treatments

#### Corn –

- We detected yield differences in late (≥116 day) and medium (110-115 day) season relative maturity group hybrids under Rainfed and Optimal soil-water regimes. In-season Wet stress reduced yield but significant differences were only detected in late season hybrids. Early (≤109 day) season hybrids were indifferent.
- Monitoring root zone soil water status coupled with timely irrigation and drainage improved aggregate grain yield by 25.3 bu/acre compared to Rainfed exposure
- Full data at <u>person.ces.ncsu.edu/field-crops-program-2/field-crop-research/</u>



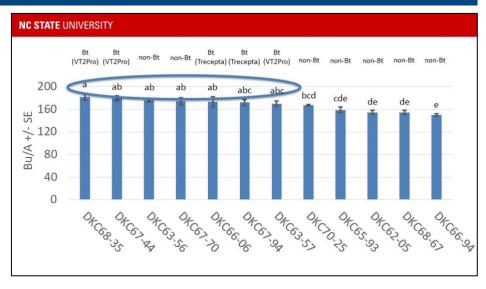
Soybean response to three treatment exposures in 2023. Solid dots are the average yield for Group IV, V, and VI varieties (n=21).

## Corn Bt Trials

In 2022 and 2023, there were Corn Bt plots planted in Granville and Person Counties, respectively. These plots were included in a statewide trial investigating the efficacy of Bt traits to reduce corn earworm feeding, and further, the impact on yield of Bt v.s. non-Bt hybrids. The goal of this study is to investigate the impact of planting refuge corn (non-Bt corn) on total farm yield.

#### MAIN TAKE-AWAYS

- Utilizing Bt corn reduces feeding of corn earworm.
- Non-Bt varieties do not have significantly different yields than their Bt counterparts, so growers should be comfortable planting refuge corn.

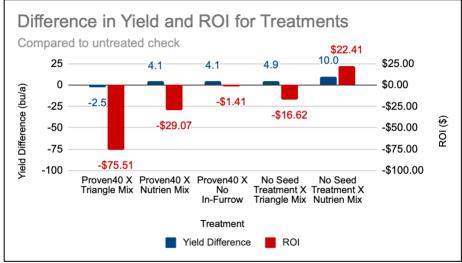


# Intensive Corn Management Trial

This study looked at the impact of the biological seed treatment offered by PivotBio, "Proven40", along with the in-furrow application of recommended treatments from two companies. Nutrien Ag's mix includes Riser a starter fertilizer, and Radiate, a plant growth regulator and Triangle Chemical's mix includes Challenge Liquid Plant Food, a starter fertilizer and Mega Gro L, a plant growth regulator.



- All but the Proven40 X Triangle Mix treatment had a positive yield response. The Nutrien Mix was the only treatment with a positive ROI.
- In plots with no biological seed treatment (Proven40), applying an in-furrow treatment did perform better than the check, though there were no differences between mixes (Nutrien VS Triangle).
- Proven40 seed treatment did not provide a statistically significant yield advantage. This could have been
  due to the dry nature of the season. It should be noted that other studies performed by NC State have found
  that Proven40 in-furrow treatment did provide yield advantages, and that this study does not disprove those
  findings.



# Soybean Starter Fertilizer In-Furrow Trial

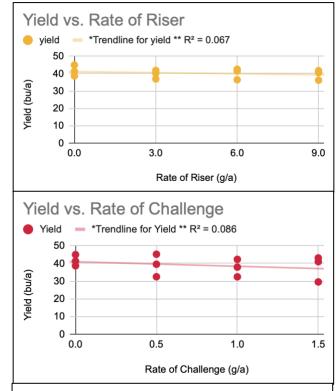
This study looked at the impact of in-furrow starter fertilizer products on the yield of soybeans. The two products were Riser and Challenge Liquid Plant Food. Riser contains 7-17-3, as well as small amounts of copper, iron, manganese, and zinc. Challenge contains 8-32-5, as well as zinc and humic acid. Plots received any of the following treatments:

- Riser @ 3GPA
- Riser @ 6GPA
- Riser @9GPA
- Challenge Liquid Plant Food @0.05GPA
- Challenge Liquid Plant Food @0.10GPA
- Challenge Liquid Plant Food @0.15GPA
- Untreated Check

### **MAIN TAKE AWAYS:**

- In-Furrow treatments had little to no impact on yield for soybeans on this field.
- The results from this study support past research by NC State that indicates that the use of starter fertilizers on soybeans has little to no impact on soybean yields.

You can find more information about past in-furrow fertilizer research in "Starter Phosphorus Fertilizer and Additives in North Carolina Soils: Use, Placement, and Plant Response" by Luke Gatiboni, Deanna Osmond, David Hardy, and Steph Kulesza (<a href="https://content.ces.ncsu.edu/starter-phosphorus-fertilizer-and-additives-in-nc-soils-use-placement-and-plant-response">https://content.ces.ncsu.edu/starter-phosphorus-fertilizer-and-additives-in-nc-soils-use-placement-and-plant-response</a>)



- \*The data has little to no correlation
- \*\*An R-Squared value indicates how well the trendline represents the data. A value of less than 0.5 indicates the line *does not* represent the data well.

# Regional Corn Variety Trial

The agents of Person/Granville, Alamance, and Caswell worked together to host a regional variety trial. This trial had 5 locations of single replication variety trials in an effort to create more robust variety information for their growers. The combined data of this effort can be seen below. The full report can be found at WEBSITE!!!!

UP	UPPER MIDDLE PIEDMONT REGION DATA WITH STATISTICS									
Variety	Company	Maturity	Yield	Group	Test Weight	Group				
RV 1577 VT2P	Revere Seed	115	111.5	Α	59.7	AB				
<b>AV 3514 AML</b>	AgVenture	114	103.9	Α	59.3	AB				
D53TC23	Dyna-Gro	113	98.4	Α	58.1	В				
P 1903 YHR	Pioneer	119	97.8	Α	58.2	В				
NK 1661-AA	NK	116	97.5	Α	60.0	AB				
A647-79 VT2PRO	AgriGold	117	96.3	Α	60.1	AB				
DKC 68-35	Dekalb	118	95.6	Α	60.4	Α				
FS 6306 T RIB	Invision	113	90.7	Α	59.1	AB				

<sup>\*</sup>Bolded values, or values with the same group designation, are not statically different from the highest value.

### TAKE HOME MESSAGES:

There were no statistical differences between the varieties across the region in this study, but there were
different yield trends at each location. Growers should take local trials like this and more robust region and
statewide data from the OVTs into account when making variety decisions.

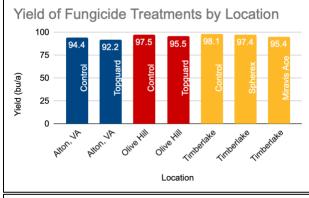
# Wheat Fungicide Trial

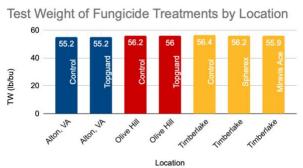
This study looked at the impact of foliar fungicide use in wheat on yield and quality. While yield is important when looking at treatment impact on wheat, quality can also impact the marketability of wheat and can change the price you receive for your wheat. Products tested include:

- Topguard EQ
- Spherex
- Miravis Top
- Untreated control

#### MAIN TAKE AWAYS:

- Foliar fungicides did not have an impact on yield or quality on wheat in 2023.
- Disease pressure was low in the 2023 season which could have impacted results. Applying fungicides to wheat based on disease pressure or disease risk is the recommended NC State practice.





#### ABOUT N.C. COOPERATIVE EXTENSION

North Carolina Cooperative Extension is a strategic partnership of NC State Extension, The Cooperative Extension Program at N.C. A&T State University, USDA-NIFA, and 101 local governments statewide. Extension professionals in all 100 counties and the Eastern Band of Cherokee translate research-based education from our state's land-grant universities, NC State and N.C. A&T, into everyday solutions. Extension specializes in agriculture, youth, communities, food, health, and the environment by responding to local needs.

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