

Winter Wheat Performance in Centre County, 2020

Source	Entry	Yield, (bu/A)	Bu Wt (lbs)	Heading Date	Height (in.)	Lodging (0-5, 0=best)	Head Type ¹	Seed Treatment	2 Yr Avg. Yield, bu/A	3 Yr Avg. Yield, bu/A
KWS Cereals	KWS280	110.3	60.0	27-May	38	1.0	Awne	Cruiser 5FS + Vibrance Extreme		
Mid Atlantic Seeds	MAS #128	109.2	59.7	26-May	36	0.0	Smooth	MAS-Proshield		
AgriPro	SY Richie	107.8	59.6	24-May	37	1.5	Smooth	CruiserMaxx Vibrance	97.4	
AgriPro	SY Viper	107.5	59.6	22-May	36	0.5	Smooth	CruiserMaxx Vibrance	98.5	96.7
Chemgro	Fairland	107.3	59.7	26-May	36	0.0	Awne	Vibrance Extreme		
Mid Atlantic Seeds	MAS #136	106.4	59.8	26-May	37	0.0	Awne	MAS-Proshield		
KWS Cereals	KWS207	106.3	59.9	26-May	37	2.0	Smooth	Cruiser 5FS + Vibrance Extreme		
Ohio Seed Improvement Assoc.	Sunburst	106.2	59.7	26-May	39	0.0	Smooth		93.0	
Ohio Seed Improvement Assoc.	Starburst	105.9	59.8	26-May	36	1.5	Smooth		93.4	90.8
KWS Cereals	KWS283	105.8	59.7	24-May	36	0.0	Awne	Cruiser 5FS + Vibrance Extreme		
Dyna-Gro Seed	9070	105.6	59.8	23-May	37	2.0	Awne	Foothold Virock w/Awaken ST		
Local Seed Company LLC	LW2068	105.6	60.1	25-May	36	0.0	Awne	Radius Premium		
AgriPro	SY 547	105.2	59.8	23-May	37	2.0	Smooth	CruiserMaxx Vibrance	97.6	93.9
Chemgro	Donegal	104.8	59.9	25-May	35	0.0	Smooth	Vibrance Extreme	100.1	96.7
AgriMAXX	AgriMAXX 463	104.7	60.0	25-May	35	2.0	Smooth	PRIME ST	97.6	91.4
Eddie Mercer AGRI Services	Mercer Brand MBX 176	104.6	59.8	24-May	38	0.0	Awne	Vibrance Extreme + Cruiser MAXX		
UniSouth Genetics	USG 3790	103.9	59.7	24-May	35	0.0	Awne	Tubeconazole Metalaxyl, Imidicloprid	96.7	
AgriMAXX	AgriMAXX 2003	103.6	59.9	25-May	37	2.0	Smooth	PRIME ST		
Growmark FS	FS 745	103.0	59.9	24-May	37	1.5	Awne	Cruiser Maxx Vibrance		
Mid Atlantic Seeds	MAS #133	102.7	60.0	24-May	36	0.0	Awne	MAS-Proshield		
Eddie Mercer AGRI Services	Mercer Brand MBX 17-M-245	102.4	59.9	23-May	37	0.0	Smooth	Vibrance Extreme + Cruiser MAXX	92.4	91.7
Dyna-Gro Seed	9172	101.4	60.1	25-May	36	0.0	Awne	Foothold Virock w/Awaken ST		
Local Seed Company LLC	LW2958	101.4	60.0	24-May	37	0.0	Awne	Radius Premium	92.5	
KWS Cereals	KWS291	101.1	59.3	28-May	37	2.0	Awne	Cruiser 5FS + Vibrance Extreme		
Seedway	SW 65SR	101.0	59.9	24-May	36	0.0	Awne	Dividend Extreme		
Eddie Mercer AGRI Services	Mercer Brand MBX 127	100.8	59.8	24-May	35	0.0	Awne	Vibrance Extreme + Cruiser MAXX		
AgriMAXX	AgriMAXX 473	100.3	60.1	25-May	36	0.0	Awne	PRIME ST	94.5	92.3
Dyna-Gro Seed	9941	99.9	60.2	23-May	36	0.5	Awne	Foothold Virock w/Awaken ST		
UniSouth Genetics	USG 3536	99.8	60.0	25-May	39	1.5	Awne	Tubeconazole Metalaxyl, Imidicloprid	94.9	93.8
Mid Atlantic Seeds	MAS #143	99.4	60.0	24-May	35	0.0	Awne	MAS-Proshield		
Mid Atlantic Seeds	MAS #35	98.9	59.9	24-May	37	0.0	Awne	MAS-Proshield	95.3	95.7
AgriPro	SY 007	98.8	59.8	22-May	38	1.0	Awne	CruiserMaxx Vibrance	97.2	
Eddie Mercer AGRI Services	Mercer Brand MBX 246	98.7	60.0	24-May	37	0.0	Awne	Vibrance Extreme + Cruiser MAXX		
AgriMAXX	AgriMAXX 505	98.6	59.8	25-May	36	0.0	Awne	PRIME ST		
Dyna-Gro Seed	9701	98.6	59.9	25-May	38	1.5	Awne	Foothold Virock w/Awaken ST	94.7	95.8
AgriMAXX	AgriMAXX 502	98.5	60.0	23-May	37	2.0	Awne	PRIME ST		
UniSouth Genetics	USG 3221	97.5	59.9	22-May	36	2.0	Awne	Tubeconazole Metalaxyl, Imidicloprid		
AgriMAXX	AgriMAXX 496	97.4	59.9	24-May	37	0.0	Awne	PRIME ST		
AgriMAXX	AgriMAXX 495	96.8	60.1	24-May	37	0.0	Awne	PRIME ST	92.4	
Eddie Mercer AGRI Services	Mercer Brand MBX969	96.6	60.0	24-May	39	0.0	Awne	Vibrance Extreme + Cruiser MAXX		
Chemgro	Crisfield	96.4	59.9	25-May	38	0.0	Smooth	Vibrance Extreme	90.5	88.9
Dyna-Gro Seed	9151	96.4	59.8	25-May	38	0.5	Awne	Foothold Virock w/Awaken ST		
Dyna-Gro Seed	9772	95.9	60.0	23-May	37	0.0	Awne	Foothold Virock w/Awaken ST	94.7	94.5
Local Seed Company LLC	LW2867	95.9	59.9	26-May	36	1.5	Smooth	Radius Premium	90.3	
Mid Atlantic Seeds	MAS #316	95.9	60.1	25-May	37	0.0	Awne	MAS-Proshield	90.7	92.3
Dyna-Gro Seed	9862	95.7	59.8	26-May	38	1.5	Smooth	Foothold Virock w/Awaken ST	89.3	89.2
Chemgro	Conestoga	94.6	59.9	24-May	39	3.0	Awne	Vibrance Extreme	93.4	95.2
VCIA/VA Tech	Liberty 5658	94.5	59.9	22-May	37	1.5	Awne	Raxil Pro MD + Resonate 600ST		
AgriMAXX	AgriMAXX 503	94.4	59.9	25-May	36	0.0	Smooth	PRIME ST		
Growmark FS	FS 746	93.7	59.8	24-May	37	0.5	Smooth	Cruiser Maxx Vibrance		
Seedway	SW 51SR	92.4	59.8	25-May	37	2.0	Smooth	Dividend Extreme		
AgriPro	SY 576	90.8	60.2	27-May	35	0.0	Awne	CruiserMaxx Vibrance		
Mid Atlantic Seeds	MAS #86	90.4	59.9	23-May	34	1.0	Awne	MAS-Proshield	89.0	89.5
Seedway	SW 55SR	90.1	60.1	25-May	37	1.0	Awne	Dividend Extreme		
UniSouth Genetics	USG 3316	89.0	60.1	25-May	36	0.5	Awne	Tubeconazole Metalaxyl, Imidicloprid	83.3	
Dyna-Gro Seed	9002	87.7	59.8	25-May	38	0.0	Awne	Foothold Virock w/Awaken ST		
Mid Atlantic Seeds	MAS #130	87.7	60.3	23-May	36	1.0	Awne	MAS-Proshield		
Mid Atlantic Seeds	MAS #140	87.6	59.9	25-May	37	0.0	Smooth	MAS-Proshield		
Mean		99.5	59.9	24-May	37	0.7			93.7	93.0
LSD(0.05)		6.9	0.3							
LSD(0.2)		4.5	0.2							
CV%		5.0	0.3							

¹ Head type as reported by seed companies

Prepared by: Mark Antle, Department of Plant Science

Note: The wheat variety trial harvest at Lancaster County was delayed during the first week of June, due to a rainy week that produced over 4.5 inches of rain. The wheat was still standing well on the day of harvest, but bushel weights appeared to be affected by the delay.

Winter Wheat Performance in Lancaster County, 2020

Source	Entry	Yield, (bu/A)	Bu Wt (lbs)	Height (in.)	Lodging (0-5, 0=best)	Head Type ¹	Seed Treatment	2 Yr Avg. Yield, bu/A	3 Yr Avg. Yield, bu/A
Seedway	SW 65SR	125.3	56.5	39	1	Awned	Dividend Extreme		
Eddie Mercer AGRI Services	Mercer Brand MBX 127	122.3	56.2	36	0	Awned	Vibrance Extreme + Cruiser MAXX		
Growmark FS	FS 745	118.6	55.8	36	0	Awned	Cruiser Maxx Vibrance		
Mid Atlantic Seeds	MAS #143	118.3	56.0	38	0	Awned	MAS-Proshield		
Mid Atlantic Seeds	MAS #133	117.2	53.5	37	0	Awned	MAS-Proshield		
Dyna-Gro Seed	9701	116.8	56.0	40	0	Awned	Foothold Virock w/Awaken ST	101.4	94.3
Mid Atlantic Seeds	MAS #128	116.6	55.8	37	0	Smooth	MAS-Proshield		
Dyna-Gro Seed	9172	114.2	56.0	39	0	Awned	Foothold Virock w/Awaken ST		
Mid Atlantic Seeds	MAS #86	112.0	55.8	38	0	Awned	MAS-Proshield	99.0	95.8
KWS Cereals	KWS283	112.0	57.0	38	0	Awneletted	Cruiser 5FS + Vibrance Extreme		
KWS Cereals	KWS207	111.8	55.3	36	0	Smooth	Cruiser 5FS + Vibrance Extreme		
AgriMAXX	AgriMAXX 495	111.7	57.3	38	0	Awned	PRIME ST	99.1	
AgriPro	SY 547	111.4	55.9	37	2	Smooth	Cruiser/Maxx V/brance	98.2	90.2
Chemgro	Fairland	111.4	57.6	40	0	Awned	Vibrance Extreme		
Dyna-Gro Seed	9862	110.7	56.9	38	0	Smooth	Foothold Virock w/Awaken ST	96.0	90.4
AgriMAXX	AgriMAXX 505	110.6	56.5	41	0	Awned	PRIME ST		
UniSouth Genetics	USG 3221	110.0	57.6	39	0	Awned	Tubeconazole Metalaxyl, Imidicloprid		
AgriMAXX	AgriMAXX 503	109.9	57.4	40	0	Smooth	PRIME ST		
AgriPro	SY 576	109.6	55.5	41	0	Awned	Cruiser/Maxx Vibrance		
AgriMAXX	AgriMAXX 2003	109.5	55.5	39	0		PRIME ST		
Mid Atlantic Seeds	MAS #316	109.1	55.0	39	0	Awned	MAS-Proshield	95.2	88.0
Local Seed Company LLC	LW2867	108.8	56.6	37	0	Smooth	Radius Premium	99.3	
Mid Atlantic Seeds	MAS #136	108.8	55.6	38	0	Awned	MAS-Proshield		
UniSouth Genetics	USG 3536	108.6	55.6	39	0	Awned	Tubeconazole Metalaxyl, Imidicloprid	98.8	94.6
Mid Atlantic Seeds	MAS #107	107.9	55.1	39	0	Awned	MAS-Proshield		
AgriMAXX	AgriMAXX 502	107.7	56.4	37	0	Awned	PRIME ST		
Local Seed Company LLC	LW2958	107.4	56.8	39	0	Awned	Radius Premium	97.3	
Ohio Seed Improvement Assoc.	Sunburst	107.0	58.3	37	0	Smooth		97.4	
Dyna-Gro Seed	9070	106.8	56.2	39	0	Awned	Foothold Virock w/Awaken ST		
KWS Cereals	KWS291	106.8	56.7	38	0	Awneletted	Cruiser 5FS + Vibrance Extreme		
AgriMAXX	AgriMAXX 473	106.5	55.4	38	0	Awned	PRIME ST	96.3	91.5
Chemgro	Conestoga	106.5	54.9	40	0	Awned	Vibrance Extreme	96.4	89.9
Mid Atlantic Seeds	MAS #35	105.9	57.3	39	0	Awned	MAS-Proshield	100.9	93.0
Chemgro	Cisfield	105.8	56.8	43	0	Smooth	Vibrance Extreme	94.5	92.3
UniSouth Genetics	USG 3316	105.7	56.7	39	0	Awned	Tubeconazole Metalaxyl, Imidicloprid	93.0	
Seedway	SW 51SR	105.6	56.2	39	0	Smooth	Dividend Extreme		
KWS Cereals	KWS280	105.3	56.2	36	0	Awned	Cruiser 5FS + Vibrance Extreme		
Local Seed Company LLC	LW2068	105.1	55.7	39	0	Awned	Radius Premium		
Eddie Mercer AGRI Services	Mercer Brand MBX 246	105.0	57.0	37	0	Awned	Vibrance Extreme + Cruiser MAXX		
Growmark FS	FS 746	104.8	56.9	39	0	Smooth	Cruiser Maxx Vibrance		
Eddie Mercer AGRI Services	Mercer Brand MBX 176	104.7	54.9	38	0	Awned	Vibrance Extreme + Cruiser MAXX		
Mid Atlantic Seeds	MAS #130	104.5	55.9	38	0	Awned	MAS-Proshield		
Ohio Seed Improvement Assoc.	Sunburst	103.9	58.7	36	0	Smooth		92.2	
Chemgro	Donegal	103.5	55.0	37	0	Smooth	Vibrance Extreme	91.7	84.9
Eddie Mercer AGRI Services	Mercer Brand MBX969	103.5	55.2	37	1	Awned	Vibrance Extreme + Cruiser MAXX	93.6	
AgriPro	SY 007	103.3	56.9	36	0	Awned	Cruiser/Maxx Vibrance	93.6	
Dyna-Gro Seed	9151	103.2	57.1	38	0	Awned	Foothold Virock w/Awaken ST		
Seedway	SW 55SR	102.5	56.0	38	0	Awned	Dividend Extreme		
Eddie Mercer AGRI Services	Mercer Brand MBX 17-M-245	102.0	56.3	39	0	Smooth	Vibrance Extreme + Cruiser MAXX		
Dyna-Gro Seed	9841	101.5	55.1	39	0	Awned	Foothold Virock w/Awaken ST	95.6	
AgriMAXX	AgriMAXX 496	101.2	55.8	36	0	Awned	PRIME ST		
AgriPro	SY Viper	100.5	56.5	40	0	Smooth	Cruiser/Maxx Vibrance	95.0	91.3
Dyna-Gro Seed	9772	99.9	55.1	39	2	Awned	Foothold Virock w/Awaken ST	94.1	88.1
Dyna-Gro Seed	9002	98.8	56.2	38	0	Awned	Foothold Virock w/Awaken ST		
Mid Atlantic Seeds	MAS #140	98.7	56.9	39	0	Smooth	MAS-Proshield		
YCIA/VA Tech	Liberty 5658	98.6	57.6	38	0	Awned	Raxil Pro MD + Resonate 600ST		
UniSouth Genetics	USG 3790	96.2	55.9	39	3	Awned	Tubeconazole Metalaxyl, Imidicloprid	93.0	
AgriMAXX	AgriMAXX 463	95.0	54.7	37	0	Smooth	PRIME ST	88.6	82.6
AgriPro	SY Richie	93.5	55.5	40	0	Smooth	Cruiser/Maxx Vibrance		
Mean		107.6	56.2	38	0			95.8	90.5
LSD(0.05)		9.6	0.9						
LSD(0.20)		6.2	0.6						
CV%		6.4	1.1						

¹ Head type as reported by seed companies
Prepared by: Mark Antle, Department of Plant Science



Department of Plant Science
College of Agricultural
Sciences

Winter Wheat Performance combined across Centre and Lancaster County, 2020

Source	Entry	Yield, (bu/A)	Bu Wt (lbs)	Height (in.)	Lodging (0-5, 0=best)
Seedway	SW 65SR	113.2	58.2	38	0.5
Mid Atlantic Seeds	MAS #128	112.9	57.8	37	0.0
Local Seed Company LLC	LWX20C	112.9	58.3	37	0.0
Eddie Mercer AGRI Services	Mercer Brand MBX 127	111.6	58.0	35	0.0
Growmark FS	FS 745	110.8	57.9	36	0.8
Mid Atlantic Seeds	MAS #133	110.0	56.8	37	0.0
Chemgro	Fairland	109.4	58.7	38	0.0
KWS Cereals	KWS207	109.1	57.6	37	1.0
KWS Cereals	KWS283	108.9	58.4	37	0.0
Mid Atlantic Seeds	MAS #143	108.9	58.0	36	0.0
AgriPro	SY 547	108.3	57.9	37	1.8
Dyna-Gro Seed	9172	107.8	58.1	37	0.0
KWS Cereals	KWS280	107.8	58.1	37	0.5
Dyna-Gro Seed	9701	107.7	58.0	39	0.8
Mid Atlantic Seeds	MAS #136	107.6	57.7	38	0.0
Ohio Seed Improvement Assoc.	Starburst	106.5	59.1	37	0.8
Dyna-Gro Seed	9070	106.2	58.0	38	1.0
Mid Atlantic Seeds	MAS #107	105.8	57.5	38	1.0
Local Seed Company LLC	LW2068	105.4	57.9	38	0.0
Ohio Seed Improvement Assoc.	Sunburst	105.1	59.2	37	0.0
Eddie Mercer AGRI Services	Mercer Brand MBX 176	104.7	57.4	38	0.0
AgriMAXX	AgriMAXX 505	104.6	58.2	39	0.0
Local Seed Company LLC	LW2958	104.4	58.4	38	0.0
AgriMAXX	AgriMAXX 495	104.3	58.7	37	0.0
UniSouth Genetics	USG 3536	104.2	57.8	39	0.8
Chemgro	Donegal	104.2	57.5	36	0.0
AgriPro	SY Viper	104.0	58.1	38	0.3
KWS Cereals	KWS291	104.0	58.0	38	1.0
UniSouth Genetics	USG 3221	103.8	58.8	37	1.0
AgriMAXX	AgriMAXX 473	103.4	57.8	37	0.0
Dyna-Gro Seed	9862	103.2	58.4	38	0.8
AgriMAXX	AgriMAXX 502	103.1	58.2	37	1.0
Mid Atlantic Seeds	MAS #316	102.5	57.6	38	0.0
Mid Atlantic Seeds	MAS #35	102.4	58.6	38	0.0
Local Seed Company LLC	LW2867	102.4	58.3	36	0.8
Eddie Mercer AGRI Services	Mercer Brand MBX 17-M-245	102.2	58.1	38	0.0
AgriMAXX	AgriMAXX 503	102.2	58.7	38	0.0
Eddie Mercer AGRI Services	Mercer Brand MBX 246	101.9	58.5	37	0.0
Mid Atlantic Seeds	MAS #86	101.2	57.9	36	0.5
Chemgro	Crisfield	101.1	58.4	40	0.0
AgriPro	SY 007	101.1	58.4	37	0.5
Dyna-Gro Seed	9941	100.7	57.7	37	0.3
AgriPro	SY Richie	100.7	57.6	38	0.8
Chemgro	Conestoga	100.6	57.4	40	1.5
AgriPro	SY 576	100.2	57.9	38	0.0
UniSouth Genetics	USG 3790	100.1	57.8	37	1.5
Eddie Mercer AGRI Services	Mercer Brand MBX969	100.1	57.6	38	0.5
AgriMAXX	AgriMAXX 463	99.9	57.4	36	1.0
Dyna-Gro Seed	9151	99.8	58.5	38	0.3
AgriMAXX	AgriMAXX 496	99.3	57.9	36	0.0
Growmark FS	FS 746	99.3	58.4	38	0.3
Seedway	SW 51SR	99.0	58.0	38	1.0
Dyna-Gro Seed	9772	97.9	57.6	38	0.8
UniSouth Genetics	USG 3316	97.4	58.4	37	0.3
VCIA/VA Tech	Liberty 5658	96.6	58.8	38	0.8
Seedway	SW 55SR	96.3	58.1	37	0.5
Mid Atlantic Seeds	MAS #130	96.1	58.1	37	0.5
Dyna-Gro Seed	9002	93.3	58.0	38	0.0
Mid Atlantic Seeds	MAS #140	93.2	58.4	38	0.0
Mean		103.6	58.1	37	0.4

Prepared by: Mark Antle, Department of Plant Science



Department of Plant Science
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Production Details: Penn State 2020 Winter Wheat Performance Trials		
Site:	Lancaster County (Landisville)	Centre County (Rock Springs)
Previous Crop	Soybeans	Oats
Planting Date	15-Oct	1-Oct
Seeding Rate	1.8 million/ac	1.8 million/ac
Fall Fertilizer	none	200 lb/a 10-20-20
Herbicides	0.75 oz Harmony Extra on 5-Mar	0.75 oz Harmony Extra on 18-Mar
<u>Spring N fertilizer</u>		
N material	UAN	UAN
N rate	100 lb/a	100 lb/a
N application date	5-Mar	11-Mar
Harvest Date:	15-Jul	10-Jul

Company Contact Information**2020 Wheat Entries**

AgriMaxx Wheat https://agrimaxxwheat.com/	AgriMAXX 463, AgriMAXX 473, AgriMAXX 495, AgriMAXX 496, AgriMAXX 502, AgriMAXX 503, AgriMAXX 505, AgriMAXX 2003
AgriPro https://agriproheat.com/	SY 007, SY Viper, SY Richie, Sy 576, SY 547
Chemgro http://www.chemgro.com/	Donegal, Conestoga, Crisfield, Fairland
Dyna-Gro Seed https://www.dynagroseed.com/	9002, 9070, 9151, 9172, 9701, 9772, 9862
Eddie Mercer AGRI Services https://www.eddiemerceragri-services.com/	MBX 127, MBX 176, MBX 246, MBX 17-M-245, MBX 969
Growmark FS https://www.growmarkfs.com/	FS 745, FS 746
KWS Cereals https://www.kws.com/corp/en/products/cereals/	KWS207, KWS280, KWS283, KWS291
Local Seed Company LLC https://localseed.com/	LW2958, LW2867, LW2068
Mid Atlantic Seeds http://midatlanticseeds.com/	MAS #35, MAS #86, MAS #107, MAS #128, MAS #130, MAS #133, MAS #136, MAS #140, MAS #143, MAS #316
Ohio Seed Improvement Association https://www.ohioseed.org/	Starburst, Sunburst
Seedway, LLC https://www.seedway.com/	SW 51SR, SW 55SR, SW 65SR
Unisouth Genetics https://www.usgseed.com/	USG 3221, USG 3316, USG 3536, USG 3790
VA Crop Improvement Association/VA Tech http://www.virginiacrop.org/	Liberty 5658