

## 2023 Corn Grain Trial

The 2023 growing season marked WNYCMA's eleventh year of organizing and facilitating corn grain trials and the highest participation yet with 42 corn varieties. What a year it was again! Some areas received very important, timely rains, some areas were super dry, and some areas received above normal rainfall. This appears to be the new norm for rainfall. There was a great deal of variation in growing degree days (GDU) between locations, averaging 5 to 8 degrees less than normal per day between June and August. Table 1 shows the soil type, GDU, and rainfall between 6/1/2023 and 10/1/2023 at each location, as reported by the Northeast Regional Climate Center, CLIMOD 2.

All six corn grain plots were planted mid to late May. The 42 varieties from 9 different seed companies ranged in day-length from 85 to 97 in the short/mid-season plots and 98 to 104 in the mid/long season plots. These plots were planted on various types of soil and the field fertility was managed according to a nutrient management plan developed by WNYCMA. The planters were set up on 30-inch rows, and 4 rows of each variety were planted on 5 of the 6 plots. Because of the plot length, 6 rows were planted in 1 plot. Table 1 displays planting dates and harvest information. Some of these plots had down corn and/or planter issues. On one plot, two varieties were accidentally harvested before we arrived, so the analysis is based on the remaining plots for those two varieties.

Each variety was sampled and weighed in WNYCMA's grain cart. Moisture and test weight of each variety were determined using WNYCMA's DICKEY-john to calculate yield. Average yields for each variety are displayed in Table 2.

Western New York Crop Management would like to extend a big thank you to the seed companies (Brevant Seeds, Croplan, Dyna-Gro Seed, Hubner Seed, King's AgriSeeds, Inc., Pioneer, Revere Seed, Seedway, and Syngenta-NK Brand) for the seed and financial support; to Cripple Creek, CY Farms, Field Craft Farms, LLC, Hildene Farms, Inc., Torrey Dairy Farm, Inc., and Verratti Farms, LLC who provided the equipment, time, and land; and to the staff at WNYCMA. The help of these three groups made the trials possible. To view previous corn grain trials and see results by location, please visit our website at <https://wnycma.com/testplots>. If you would like to host a corn grain plot on your farm, please contact your crop consultant. Thank you.

**Table 1: Plot Locations with Planting, Rainfall and Harvest Details**

Farm	Location	Season	Planting Date	Soil Type	GDU	Rainfall	Date Harvested	Rows Harvested	Length Harvested	Acres Harvested
Torrey Dairy Farms, Inc	East Barre	85-97	5/12/23	Muck	2147	11.32"	11/7/23	4	980	.224
CY Farms	South Barre	85-97	5/17/23	Silt Loam	2147	11.32"	11/10/23	4	900	.207
Cripple Creek Farms	North Java	85-97	5/18/23	Gravelly Loam	1743	10.99"	11/20/23	6	440	.152
Field Craft Farms, LLC	Webster	98-105	5/16/23	Loam	2155	13.76"	11/13/23	4	750	.172
Hildene Farms, Inc.	Pavilion	98-105	5/22/23	Silt Loam	1765	6.7"	11/11/23	4	750	.172
Verratti Farms, LLC	Newfane	98-105	5/24/23	Gravelly Loam	2021	13.34"	11/13/23	4	690	.158

**Table 2: Average Yield by Variety**

Variety	Day Length	Moisture at Harvest (%)	Lbs/Acre Corrected to 15.5%	Test Weight	Bushels/Acre Corrected to 15.5%
1. Syngenta NK 8558-AA	85	20.1	10761	54.1	192.2
2. Dyna-Gro D26VC64RIB	86	19.3	10792	54.3	192.7
3. Brevant Seed B87D33AM	87	19.7	11754	54.5	209.9
4. Dyna-Gro D28VC33RIB	88	19.8	11262	54.1	201.1
5. Syngenta NK 9021-D	90	20.7	11503	53.8	205.4
6. Pioneer P90630Q	90	19.9	11245	54.4	200.8
10. Revere Revere 9108 VT2PRIB	91	21.4	11777	53.6	210.3
7. Brevant Seed B91W35AM	91	21.3	12758	53.1	227.8
8. Hubner H4061RC2P	91	20.3	12419	53.3	221.8
9. Kings Agriseed RT 41T19-D2	91	22.5	11674	54.6	208.5
11. Brevant Seed B92D25AM	92	21.6	12525	53.4	223.7
12. Hubner H9210D	92	21.6	11546	53	206.2
13. Syngenta NK 9231-AA	92	21.6	12110	52.9	216.2
14. Kings Agriseed RT 43T49-D2	93	22.1	11195	54.3	199.9
15. Dyna-Gro D34SS93RIB	94	24.5	12404	52.1	221.5
16. Pioneer P9489Q	94	22.5	12489	53.1	223
17. Croplan CP3490VT2PRIB	94	23.6	12036	51.9	214.9
18. Seedway SW	95	22.5	12128	52.4	216.6

9504VTRIB					
19. Revere Revere 9538 DV	95	24	12154	52.3	217
20. Brevant Seed B96Y34AM	96	25.6	12310	52.6	219.8
21. Hubner H6134RCSS	96	23.6	13233	52.9	236.3
22. Seedway SW 9600SSRIB	96	25.2	12508	52.3	223.4
23. Brevant Seed B97K12Q	97	23.1	12000	52.5	214.3
24. Revere Revere 9796 V	97	22.8	11012	54.2	196.6
25. Croplan CP3724VT2PRIB	97	24.9	12252	51.4	218.8
101. Seedway SW 9876SSRIB	98	21.5	13004	53.3	232.2
102. Revere Revere 9827 SSXRIB	98	20.6	12070	54.5	215.5
103. Syngenta NK 9832-AA	98	20.4	11070	55.4	197.7
104. Croplan CP3852TRE/RIB	98	21.4	13303	53.2	237.6
105. Brevant Seed B99A24AM	99	22.4	13189	53.7	235.5
106. Hubner H9953P	99	22.9	13027	52.4	232.6
107. Revere Revere 9916 VT2PRIB	99	21.5	12965	52.6	231.5
108. Hubner H0019T	100	22.3	13093	52.4	233.8
109. Seedway SW 0030VTRIB	100	21.6	13714	52.6	244.9
110. Syngenta NK 0007-AA	100	21.3	12184	54	217.6
111. Pioneer P0035Q	100	23.4	13478	53.8	240.7
112. Croplan CP4188SS/RIB	101	23	12440	52.6	222.1
113. Revere Revere 0297 VT 2PRIB	102	23.1	13318	52.5	237.8

114. Syngenta NK 0295-AA	102	24.2	11998	51.9	214.3
115. Hubner H0475P	104	24.7	12974	51.4	231.7
116. Kings Agriseed RT 55T79-D1	105	26.5	12617	50.4	225.3