



# SEEDWAY 2016 PLOT PERFORMANCE REPORT

## CORN SILAGE PLOT

<b>Farm / Business Name:</b>	MORRILL FARM	<b>Row Width:</b>	30
<b>Cooperator Name:</b>	ANDY	<b>Soil Type:</b>	GRAVEL LOAM
<b>Address:</b>	33 PENACOOK STREET	<b>Soil pH:</b>	6.5
<b>Address:</b>	PENACOOK, NH	<b>Previous Crop:</b>	CORN SILAGE
<b>Address:</b>		<b>Fertilization:</b>	5 GAL STARTER
<b>County:</b>		<b>Manure:</b>	10,000 GAL SLURRY
<b>Phone:</b>		<b>Herbicide:</b>	ACCURON
<b>Email:</b>		<b>Insecticide:</b>	
<b>DSM:</b>	ED SCHILLAWSKI	<b>Tillage:</b>	CONVENTIONAL
<b>Date Planted:</b>	5-11-2017	<b>Plant Pop:</b>	32000
<b>Date Harvested:</b>	9-18-2017	<b>Season Weather:</b>	

BRAND / HYBRID	HARVEST MOISTURE	YIELD AS HARVESTED	DRY MATTER YIELD	YIELD ADJUSTED 65%	DM %	SILAGE QUALITY DATA - NIR TESTING							MILK/TON	MILK/ACRE
						CP % of DM	NDF % of DM	NDFD % of NDF	uNDF 240hr %DM	STARCH % DM	STARCH DIG %	NEL (mcal/lb)		
SEEDWAY® SW 4010GENSS (RIB)	68.6	24.9	7.8159	22.3	31.4	7.9	39.9	55.8	13.3	31.8	68.8	0.75	3284	25667
NK® N45P	68.2	24.9	7.9155	22.6	31.8	7.9	39.7	51.7	15.2	33.8	71.4	0.75	3287	26018
SEEDWAY® SW 5430GENSS (RIB)	72.4	29.9	8.2440	23.6	27.6	7.9	42.3	54.9	14.2	29.5	70.2	0.74	3223	26571
NK 0519	69.8	24.9	7.5172	21.5	30.2	7.6	44.9	51.9	16.2	25.6	68.7	0.72	2889	21717
NK® 0968	70.9	29.9	8.6921	24.8	29.1	7.6	43.5	53.2	15.5	29.6	68.7	0.74	3206	27867
NK® N59B	73.3	39.8	10.6336	30.4	26.7	7.4	38.1	56.9	11.9	32.3	69.6	0.76	3249	34549
NK® N63R	71.0	39.8	11.5496	33.0	29.0	8.5	38.0	55.5	13.0	32.4	70.7	0.76	3283	37917
NK® N66V	71.6	37.3	10.6037	30.3	28.4	7.3	44.0	52.5	15.2	30.5	72.5	0.74	3192	33847
NK® N69D	73.1	42.3	11.3829	32.5	26.9	7.4	42.6	56.1	13.5	28.5	69.5	0.74	3132	35651
SEEDWAY® SW 6780GENVT2P (RIB)	71.9	39.8	11.1912	32.0	28.1	8.7	33.0	56.7	10.3	38.4	71.9	0.79	3616	40467
<b>PLOT AVERAGE</b>	<b>71.1</b>	<b>33.4</b>	<b>9.5546</b>	<b>27.3</b>	<b>28.9</b>	<b>7.8</b>	<b>40.6</b>	<b>54.5</b>	<b>13.8</b>	<b>31.2</b>	<b>70.2</b>	<b>0.75</b>	<b>3236</b>	<b>31027.2</b>

\* Milkline Rating Key = % progressed from base of kernel: milk = no milkline / 0%, hard dent no visible milkline / 100%

**RATING KEY = Range 1-9: 1 = excellent, 3 = very good, 5 = acceptable, 7 = unacceptable, 9 = poor**

S.D. 1.7 0.5 3.6 1.4 0.0

Y/M = yield/moisture comparison. Expresses yield for maturity. Higher values indicate higher yielding, faster drying performance at one location.

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### CORN SILAGE PLOT

<b>Farm / Business Name:</b>	PUTNAM FARM	<b>Row Width:</b>	30
<b>Cooperator Name:</b>	TED	<b>Soil Type:</b>	SANDY LOAM
<b>Address:</b>	NORTH CHARLESTOWN, NH	<b>Soil pH:</b>	6.5
<b>Address:</b>		<b>Previous Crop:</b>	CORN SILAGE
<b>Address:</b>		<b>Fertilization:</b>	
<b>County:</b>		<b>Manure:</b>	6000 GAL SLURRY
<b>Phone:</b>	603-825-4389	<b>Herbicide:</b>	
<b>Email:</b>		<b>Insecticide:</b>	
<b>DSM:</b>	ED SCHILLAWSKI	<b>Tillage:</b>	CONVENTIONAL
<b>Date Planted:</b>	5-24-17	<b>Plant Pop:</b>	32,000
<b>Date Harvested:</b>	10-14-17	<b>Season Weather:</b>	

BRAND / HYBRID	HARVEST MOISTURE	YIELD AS HARVESTED	DRY MATTER YIELD	YIELD ADJUSTED 65%	DM %	SILAGE QUALITY DATA - NIR TESTING								MILK/TON	MILK/ACRE
						CP % of DM	NDF % of DM	NDFD % of DM	uNDF 240hr %DM	STARCH % DM	STARCH DIG %	NEL (mcal/lb)			
SEEDWAY® SW 3019L CBGTLL	45.3	16.0	8.7526	25.0	54.7	8.4	32.5	59.1	9.1	45.1	58.7	0.79	2948	25803	
SEEDWAY® SW 3768GENSS (RIB)	51.9	17.6	8.4865	24.2	48.1	6.2	38.7	58.3	11.0	41.4	65.1	0.77	2821	23940	
SEEDWAY® SW 4018L GENVT3P (RIB)	54.7	17.6	7.9763	22.8	45.3	6.3	45.3	42.2	12.7	37.7	66.5	0.75	2750	21935	
Pioneer® P 0414 AM	65.5	20.2	6.9696	19.9	34.5	6.6	37.4	59.2	10.5	33.4	69.0	0.77	3471	24191	
Pioneer® P 0306AM	66.7	28.6	9.5302	27.2	33.3	7.4	33.4	62.3	9.1	43.1	68.4	0.79	3722	35471	
Pioneer® P O238XR	62.4	26.4	9.9133	28.3	37.6	8.4	34.3	63.6	7.3	41.6	63.6	0.78	3414	33844	
SEEDWAY® SW 5559GTRW	66.1	24.8	8.3909	24.0	33.9	6.4	40.3	60.8	10.5	38.4	68.3	0.76	3455	28991	
Pioneer® P 0677XR	66.7	20.0	6.6737	19.1	33.3	7.2	45.3	66.8	8.5	30.1	55.9	0.73	3419	22817	
SEEDWAY® SW 5430GENSS (RIB)	63.5	26.6	9.7110	27.7	36.5	6.8	39.0	56.6	13.1	40.3	69.5	0.76	3262	31677	
Pioneer® P 0783XR	62.2	22.9	8.6653	24.8	37.8	8.0	33.2	68.1	6.9	41.7	59.4	0.80	3562	30866	
Pioneer® P 0574AMXT	67.0	23.8	7.8408	22.4	33.0	7.7	36.3	59.0	10.2	40.3	68.2	0.77	3560	27913	
Pioneer® P 0789AMXT	68.8	29.0	9.0411	25.8	31.2	6.5	47.2	52.2	17.1	28.8	71.1	0.71	3052	27593	
Pioneer® P 0506AM	67.0	23.6	7.7733	22.2	33.0	7.6	35.0	58.5	11.0	39.4	67.8	0.78	3602	28000	
Pioneer® P 0956XR	67.1	22.8	7.5145	21.5	32.9	7.6	35.6	66.9	6.6	39.4	63.8	0.78	3756	28224	
SEEDWAY® SW 6630GENSS (RIB)	64.5	23.9	8.4945	24.3	35.5	6.2	34.1	62.3	9.4	43.2	69.5	0.80	3638	30903	
SEEDWAY® SW 7200GENSS (RIB)	67.8	28.8	9.2693	26.5	32.2	7.1	41.1	55.3	14.4	36.1	67.8	0.75	3395	31469	
Pioneer® P 0921AMXT	70.4	29.1	8.6012	24.6	29.6	7.4	35.0	57.2	11.8	41.2	69.8	0.78	3626	31188	
Pioneer® P 1180XR	70.5	23.7	6.9996	20.0	29.5	7.7	39.0	68.1	6.7	34.3	60.9	0.76	3678	25745	
SEEDWAY® SW 6718GENVT3P (RIB)	68.2	24.5	7.7925	22.3	31.8	6.4	46.1	52.9	15.9	30.1	68.8	0.72	3121	24320	
Pioneer® P 1422AMXT	67.9	25.9	8.3231	23.8	32.1	7.7	39.8	58.5	13.0	34.3	64.7	0.75	3467	28856	
SEEDWAY® SW 6780GENVT2P (RIB)	69.9	27.2	8.2016	23.4	30.1	7.6	43.4	57.5	14.1	32.0	67.7	0.74	3371	27647	
Pioneer® P 1443AM	68.0	28.4	9.0991	26.0	32.0	7.3	35.5	57.8	11.5	40.6	65.7	0.78	3625	32984	
<b>PLOT AVERAGE</b>	<b>64.6</b>	<b>24.2</b>	<b>8.3645</b>	<b>23.9</b>	<b>35.4</b>	<b>7.2</b>	<b>38.5</b>	<b>59.2</b>	<b>10.9</b>	<b>37.8</b>	<b>65.9</b>	<b>0.76</b>	<b>3396</b>	<b>28380.9</b>	

\* Milcline Rating Key = % progressed from base of kernel: milk = no milcline / 0%, hard dent no visible milcline / 100%

**RATING KEY = Range 1-9: 1 = excellent, 3 = very good, 5 = acceptable, 7 = unacceptable, 9 = poor**

S.D. 6.2 0.7 4.6 4.1 0.0

Y/M = yield/moisture comparison. Expresses yield for maturity. Higher values indicate higher yielding, faster drying performance at one location.

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## 2017 Non-GMO Corn Silage Performance Trial Summary

Conducted by Dr. Heather Darby and the University of Vermont Northwest Crops and Soils Program

Silage corn at Bridgeman View Farm, Franklin, Vermont

Planting Date: 5/24/2017

Harvest Date: 10/18/2017

Variety	Company	RM	Silage Yield+ tons ac <sup>-1</sup>	Moisture (%)	CP++ %	ADF++ %	NDF++ %	Lignin %	NFC++ %	Starch++ %	TDN %	NE <sub>L</sub> Mcal lb <sup>-1</sup>	30 hr NDFD	Milk lbs ton <sup>-1</sup>	Milk lbs ac <sup>-1</sup>
0.53-05	Albert Lea Seed	105	20.4	54.3	<b>7.7*</b>	23.9*	42.3	3.2	44.4	36.6	72.0	0.74*	48.0	3003	21398*
2G161	Mycogen	84	15.8	41.2*	6.7	<b>21.9*</b>	<b>41.1</b>	2.8*	<b>46.9</b>	38.1	<b>76.0*</b>	<b>0.79*</b>	53.5*	<b>3281*</b>	18110*
2T493	Mycogen	99	<b>25.8</b>	51.1	7.1*	25.1*	44.3	3.1*	42.1	35.2	70.5	0.73	47.5	2925	26291*
42-92	Albert Lea Seed	92	14.3	45.4	6.6	21.9*	41.4	<b>2.6*</b>	46.8	<b>38.7</b>	75.0*	0.77*	52.0*	3185*	15897
71-90	Albert Lea Seed	90	17.4	<b>39.0*</b>	7.3*	25.5	45.9	3.4	42.0	35.1	73.0*	0.74*	53.0*	3103*	18883*
SW1990	Seedway	80	20.1	41.0*	6.9	24.3*	43.4	3.3	43.3	36.1	72.0	0.74*	49.0	3003	20905*
SW3750	Seedway	92	19.3	39.7*	7.0*	26.6	46.0	3.7	41.7	36.2	70.5	0.72	48.0	2936	19775*
SW3760	Seedway	94	25.1	55.4	7.3*	23.2*	41.2	3.1*	45.9	36.8	75.5*	0.79*	54.5*	3242*	<b>28456*</b>
SW4030	Seedway	100	22.1	56.8	7.2*	24.7*	44.1	3.2*	42.8	34.0	74.5*	0.77*	<b>55.5*</b>	3182*	24582*
TMF94	Mycogen	97	21.6	51.9	6.9	22.5*	43.3	2.9*	44.4	36.0	75.0*	0.78*	55.0*	3214*	24322*
TMF96Q40	Mycogen	96	23.5	49.7	7.0*	25.7	46.0	3.0*	41.6	33.0	72.0	0.73	52.5*	3018	24470*
LSD (0.10)			NS	5.2	0.8	3.6	NS	0.6	NS	NS	3.8	0.06	4.5	229	12068
Trial Mean			20.5	47.8	7.0	24.1	43.5	3.1	43.8	36.0	73.3	0.75	51.7	3099	22099

### Key:

- CP: Crude protein
- ADF: Acid detergent fiber
- NDF: Neutral detergent fiber
- NFC: Nonfibrous carbohydrates
- TDN: Total digestible nutrients
- NE<sub>L</sub>: Net energy from lactation
- 30hr NDFD: Digestible neutral detergent fiber at 48 hours

LSD (0.1): Least Significant Differences (LSDs) at the 0.10 level of significance. NS indicates no significant difference between varieties.

Top performing varieties are indicated in **bold**. Values with an asterisk\* did not vary significantly from the top performing variety.

+Silage yields are compared on a 35% dry matter basis

++CP, ADF, NDF, NFC and Starch are compared on a dry matter basis



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## CORN SILAGE PLOT

<b>Farm / Business Name:</b>	Conant Farm	<b>Row Width:</b>	30
<b>Cooperator Name:</b>	Seedway LLC	<b>Soil Type:</b>	
<b>Address:</b>		<b>Soil pH:</b>	
<b>Address:</b>	Richmond VT	<b>Previous Crop:</b>	
<b>Address:</b>		<b>Fertilization:</b>	
<b>County:</b>		<b>Manure:</b>	
<b>Phone:</b>		<b>Herbicide:</b>	
<b>Email:</b>		<b>Insecticide:</b>	
<b>DSM:</b>	Tomko/Schillawski	<b>Tillage:</b>	
<b>Date Planted:</b>		<b>Plant Pop:</b>	
<b>Date Harvested:</b>		<b>Season Weather:</b>	DRY

BRAND / HYBRID	HARVEST MOISTURE	YIELD AS HARVESTED	DRY MATTER YIELD	YIELD ADJUSTED 65%	DM %	SILAGE QUALITY DATA - NIR TESTING									MILK/TON	MILK/ACRE
						CP % of DM	NDF % of DM	NDfD % of NDF	uNDF 240hr %DM	STARCH % DM	STARCH DIG %	NEL (mcal/lb)				
Mycogen® 97B37F1 BMR	76.2	32.1	7.6303	21.8	23.8	8.6	41.5	67.6	7.2	22.2	65.9	0.75	3006	22937		
Mycogen® F2F499 BMR	74.5	37.8	9.6327	27.5	25.5	8.3	37.7	69.1	5.8	28.1	63.6	0.77	3283	31624		
SEEDWAY® SW 5559GTRW	76.5	39.3	9.2266	26.4	23.5	8.4	43.8	56.2	12.4	22.7	61	0.74	2848	26277		
Wolf River® 3396FLRR	69.3	Blew Down	0.0000	0.0	30.7	9.4	48	50.2	18.3	18.5	59.2	0.70	2661	0		
Pioneer® P0677AMX BMR	73.8	36.2	9.4954	27.1	26.2	8.5	36	64.7	0.6	30.2	57.9	0.77	3297	31306		
Wolf River® 3805FLRR	74.1	27.1	7.0099	20.0	25.9	9.6	40	56.5	12.1	23	61.8	0.74	2798	19614		
Pioneer® P0783XR BMR	72.6	32.2	8.8163	25.2	27.4	9.1	34.2	63.1	6.8	34.1	58.1	0.78	3642	32109		
NK® N0519 3122	73.5	34.4	9.1116	26.0	26.5	8.5	38.9	54.8	12.7	29.4	62.7	0.76	3174	28920		
Mycogen® TMF99Q7	71.6	32.2	9.1381	26.1	28.4	8.1	38.2	55.5	11.0	32.2	61.8	0.77	3376	30850		
NK® N0199 3122	71.5	30.2	8.6075	24.6	28.5	8.4	40	52.7	13.9	32.8	65.2	0.74	3214	27664		
Pioneer® 0157AMX	71.8	36.7	10.3512	29.6	28.2	0.5	36	56.9	10.2	33.5	62.3	0.77	3376	34946		
Mycogen® TMF2Q419	67.7	27.9	9.0047	25.7	32.3	9.3	34.5	58.6	9.6	37.7	61.1	0.78	3594	32363		
SEEDWAY® SW 3768GENSS (RIB)	67.4	27.8	9.0505	25.9	32.6	8.6	34.9	57	10.2	37.9	62.6	0.77	3511	31776		
Pioneer® 024AMXT	71.7	35.9	10.1578	29.0	28.3	8.1	34.3	57.7	9.5	34.6	63.7	0.78	3391	34445		
<b>PLOT AVERAGE</b>	<b>72.3</b>	<b>30.7</b>	<b>8.3738</b>	<b>23.9</b>	<b>27.7</b>	<b>8.1</b>	<b>38.4</b>	<b>58.6</b>	<b>10.0</b>	<b>29.8</b>	<b>61.9</b>	<b>0.76</b>	<b>3227</b>	<b>27488.0</b>		

\* Milkline Rating Key = % progressed from base of kernel: milk = no milkline / 0%, hard dent no visible milkline / 100%

**RATING KEY = Range 1-9: 1 = excellent, 3 = very good, 5 = acceptable, 7 = unacceptable, 9 = poor**

S.D. 2.7 2.2 4.0 2.4 0.0

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