

# WE'RE SERIOUS ABOUT SILAGE

## 3-YEAR NUTRITIONAL SUMMARY OF CORN SILAGE Pioneer® Brand Hybrids vs. All Competitors

Livestock producers are in the business of producing milk or meat. Pioneer® brand hybrids are rated for yield and protein content of both silage and grain, as well as silage digestibility, to help you match our hybrids with your feeding needs.

### AREA-WIDE TESTING\*

Pioneer® Brand Hybrid	Adj. Yld. (65%) Tons/Acre	Yld. Adv. (%)	CP (%)	ADF	NDF	NE-L	M <sup>3</sup> /70'	Potential Milk Yld./Acre
3140	22.0	1.7	7.33	27.57	48.81	6462	39.95	14,635
22 Comparisons	20.3		7.50	25.81	47.76	6637	39.82	13,869
3173	20.9	1.5	7.74	27.83	53.66	6439	39.48	13,924
17 Comparisons	19.4		7.51	27.57	52.24	6502	38.38	13,013
3223	21.7	2.3	8.00	26.66	51.57	6577	38.38	14,699
19 Comparisons	19.4		8.07	27.73	53.20	6441	38.81	12,863
3394	19.4	0.8	8.08	26.53	49.97	6599	41.40	13,179
55 Comparisons	18.6		8.62	25.70	49.74	6685	42.69	12,800
3437	18.6	2.6	8.52	25.32	50.02	6706	41.67	12,840
45 Comparisons	16.0		8.86	25.60	50.93	6708	40.86	11,048
3523	20.0	3.1	8.19	25.87	49.71	6698	41.17	13,859
67 Comparisons	16.9		9.12	24.93	49.80	6823	42.52	11,870
3525	22.3	2.3	8.42	25.45	49.21	6749	42.05	15,493
101 Comparisons	20.0		8.95	24.62	48.71	6824	42.09	14,049



Silage Yield is important to all silage growers, but silage quality should also be figured into the buying decision. Silage yield may be the most important trait for beef producers or for dairy producers feeding growing heifers and dry cows.

Grain Yield will have a significant impact on the energy value of the silage. Grain is nearly 90% digestible and makes up approximately 50% of the silage's weight. Thus grain yield affects both the quality and quantity of silage produced.

Silage Crude Protein may be quite important to some producers, but generally corn silage is fed for its energy value. There is relatively little variation among hybrids in silage protein. Silage protein would be more important if corn silage is the only forage fed to dairy cows.

\*Silage Digestibility is extremely important for high-producing dairy herds. Higher digestibility generally translates into higher feed intakes and increased milk production. Pioneer measures corn silage digestibility with an *in situ* method where the silage is suspended in the cow's rumen for 24 hours. This allows us to calculate the percent of the forage digested which is reported in the column above as *in situ*.

\*Data from Pennsylvania, New York and New England

Milk Yield/Acre = NE-L x Dry Matter Lbs. of Silage/Acre x 0.50 = Lbs. of Milk/Acre  
0.34 NE-L/Pounds of Milk

0.34 = NE-L required to produce 1 pound of 4% butterfat milk on a dry matter basis  
0.50 = Half of the energy is available for milk production  
Potential Milk Yield/Acre is a conservative estimate only.

### Pioneer brand hybrids are "cutting edge" for corn silage! Check out a plot near you.

David T. Hostetler  
Belleville, PA County: Mifflin  
Planted: 4/28/95  
Harvested: 9/1/95

Brand	Hybrid	Adj. Yld. 65%	Moist. %	CP %	ADF %	NDF %	NE-L	In Situ %
Pioneer	3293	20.2	57.9	8.14	30.24	58.11	0.69	34.38
Pioneer	3156	20.5	57.8	8.52	29.86	57.27	0.69	34.95
Pioneer	3163	19.1	60.1	8.33	30.18	58.05	0.69	37.25
Pioneer	3140	20.5	63.7	8.68	31.17	58.07	0.68	35.31
Pioneer	X1194F	21.1	62.4	8.16	32.34	59.57	0.67	36.67
Pioneer	X1184M	22.0	66.0	8.41	32.10	60.85	0.67	36.40
Pioneer	3211	20.8	59.6	8.57	30.42	57.80	0.69	35.74
Pioneer	3173	22.0	63.8	8.27	28.89	56.18	0.70	38.19
Pioneer	3223	21.1	61.0	8.35	28.76	55.23	0.70	36.09
Cargill	8327	19.7	64.5	8.32	28.59	53.63	0.70	37.89
Pioneer	3335	21.7	58.7	8.30	27.16	52.25	0.71	37.94

Fred England  
Williamsburg, PA County: Blair  
Planted: 4/29/95  
Harvested: 9/8/95

Brand	Hybrid	Adj. Yld. 65%	Moist. %	CP %	ADF %	NDF %	NE-L	In Situ %
Cargill	8327	21.4	63.3	7.75	29.09	55.30	0.70	37.54
Pioneer	3223	26.0	61.6	7.27	26.88	51.60	0.71	40.91
DeKalb	DK846	18.8	62.3	7.81	26.03	51.02	0.72	41.74
Pioneer	3173	22.5	63.4	7.18	30.30	57.61	0.69	39.93
Cargill	7557	24.5	56.2	7.31	28.52	52.35	0.70	39.44
Pioneer	3335	24.2	56.9	7.20	26.81	50.83	0.72	38.76
Pioneer	3156	23.1	57.4	7.24	25.66	48.93	0.72	40.90
Mycogen	TMF106	21.1	54.7	7.80	28.54	54.72	0.70	38.09
Hyperfm.	HS9843	21.7	62.0	7.28	30.08	54.92	0.69	37.12

James F. Eshelman  
New Enterprise, PA County: Bedford  
Planted: 5/10/95  
Harvested: 9/10/95

Brand	Hybrid	Adj. Yld. 65%	Moist. %	CP %	ADF %	NDF %	NE-L	In Situ %
Pioneer	3293	21.1	51.4	8.09	24.21	48.93	0.74	37.47
Pioneer	3223	23.7	55.4	8.66	24.62	48.65	0.73	36.66
Pioneer	3173	19.1	61.5	8.05	26.76	42.29	0.72	40.00
Pioneer	3211	20.0	57.6	8.36	27.82	52.96	0.71	38.30
Pioneer	3140	24.2	54.4	8.00	31.21	58.88	0.68	34.36
Pioneer	X1194F	19.1	57.1	8.47	28.20	54.82	0.70	36.73
Pioneer	X1184M	23.7	54.9	8.05	29.89	57.78	0.69	35.28
Pioneer	3156	20.5	51.8	8.26	23.25	45.70	0.74	39.81
Cargill	8327	18.0	56.5	8.34	23.95	47.54	0.74	38.78
Pioneer	3335	21.4	53.6	7.98	24.76	48.60	0.73	38.10
Mycogen	TMF106	18.0	49.4	7.81	27.21	53.20	0.71	36.48
Pioneer	3156	20.5	47.6	8.17	26.50	51.92	0.72	35.75
Cargill	8327	17.1	55.7	7.87	28.87	54.08	0.70	37.89
Pioneer	3211	21.1	52.0	8.32	26.59	52.13	0.72	35.79
Pioneer	3173	17.7	56.9	8.02	28.23	55.58	0.70	37.77
Pioneer	3241	20.5	50.9	8.78	27.23	51.32	0.71	43.69

Sam Zimmerman  
Pitman, PA County: Schuylkill  
Planted: 5/6/95  
Harvested: 9/1/95

Brand	Hybrid	Adj. Yld. 65%	Moist. %	CP %	ADF %	NDF %	NE-L	In Situ %
Pioneer	3525	18.0	53.5	7.81	25.12	49.47	0.73	39.37
Pioneer	3156	16.8	57.6	7.69	26.14	49.97	0.72	39.04
Doebler's	75X-2	18.8	60.4	8.89	29.23	54.63	0.70	39.88
Pioneer	3335	19.7	60.0	8.92	27.05	50.82	0.71	40.58
Pioneer	3394	22.0	56.2	7.84	24.72	49.23	0.73	41.55
Pioneer	3223	20.0	62.0	9.00	24.31	47.59	0.73	40.60
Pioneer	3217	17.7	60.9	8.46	26.15	49.67	0.72	39.88
Pioneer	3346	19.4	55.4	8.62	26.32	50.34	0.72	41.20
Pioneer	3335	19.1	59.5	8.81	24.01	46.54	0.74	40.30

A. Henry Brechbill  
Chambersburg, PA County: Franklin  
Planted: 5/16/95  
Harvested: 9/12/95

Brand	Hybrid	Adj. Yld. 65%	Moist. %	CP %	ADF %	NDF %	NE-L	In Situ %
Pioneer	3223	21.1	52.2	8.02	25.84	51.71	0.72	36.49
Pioneer	3173	20.5	61.0	8.05	22.55	48.92	0.75	39.60
Pioneer	3211	20.5	58.5	8.03	21.98	44.72	0.75	37.94
Pioneer	X1194F	20.5	57.5	8.16	25.96	51.45	0.72	38.28
Pioneer	X1184M	22.0	60.9	8.38	24.59	49.47	0.73	39.83
Pioneer	3140	20.5	60.4	8.04	23.04	46.38	0.74	39.91
Pioneer	3156	20.5	56.8	7.85	22.92	47.58	0.75	38.80
Pioneer	3163	19.4	59.1	7.02	22.52	45.86	0.75	38.95
Cargill	8327	19.7	56.6	7.87	23.34	47.94	0.74	38.85



**PIONEER**  
BRAND PRODUCTS  
PIONEER HI-BRED INTERNATIONAL, INC.

© SM TM Trademarks and service marks registered or applied for of Pioneer Hi-Bred International Inc. Des Moines Iowa U.S.A.  
Pioneer is a brand name. Numbers identify varieties and products.  
All sales are subject to the terms of labeling and sale documents. (c)1995 PHH