Division of Marketing
Agricultural Development and Diversification (ADD) Program

1993 Grant Final Report

Grant Number 08065

Grant Title Sugary-Brawn Corn-Development of an Important New Feed Product and Silage Preservative (Phase 2)

Amount Awarded $14,100.00

Name Daniel O'Brien

Organization O'Brien Farms, Inc.
Brooklyn

E-Mail

WEB

Department Contact: DATCP - Marketing - ADD Grants
PO Box 8911 Madison, WI 53708-8911
Tel: (608)224-5136
http://datcp.state.wi.us

O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521
June 28, 1994

Erwin A. Sholts, Director - ADD
WDATCP - Marketing Division
801 W. Badger Road
P. O. Box 8911
Madison, WI 53708-8911

Re: Sugary-Brawn2 Corn
Contract Number 8065

Grain and Forage Analysis Summary

This summary shows some very positive results for the use of SuBn2 corn, as silage, silage preservative and also as dried grain.

Corn and Alfalfa Silage was harvested on 10/03/93. We attempted to allow the corn, both yellow dent and sugary to mature to the proper harvest stage ie. (moisture content) before ensiling. We were concerned that the SuBn2 hybrids would not match the yellow dent hybrids (O'B 616) on a dry matter basis due to the ear not having the starch content of the yellow dents. To our surprise O'S 110 -(SuBn2) actually exceeded the dry matter weight of yellow dent in Sample No. 5. The addition of Sweet Ensile to the alfalfa silage may have helped maintain the higher protein content as it showed an increase of 1.3% over the alfalfa silage without Sweet Ensile added. Sample No. 15, alfalfa silage with ground SuBn2 corn (without microbials added) for the silage preservative also showed an increase in protein content when compared to alfalfa silage without preservative as in Sample # 14. The crude protein content of the Sugary Brawn2 hybrids show a significant increase over the crude protein content of the yellow dent silage sample as shown in Samples No. 9, 10, and 11. Also note the increase in crude protein content of sugary shelled corn in Sample No. 19, at 11.9% compared to yellow dent corn Samples No. 16, 17, and 18 at 9.8%

It also appears that the new Sugary hybrids O'S 110 and O'S 105 are far superior to the original SuBn2 hybrid corn in several categories.

A. Yield per Acre
B. Tons Dry Matter per Acre
C. Crude Protein

This looks very encouraging for the continued use and development of SuBn2 corn.

Submitted by Daniel O'Brien

RECEIVED
JUN 30 1994

Mr. Erwin A. Sholts, Director - ADD
WDATCP - Marketing Division
801 W. Badger Road
P. O. Box 8911
Madison, WI 53708-8911

O'Brien Farms, Inc.
Daniel L. O'Brien
552 Glenway Road
Brooklyn, WI 53521

Re: Surgary-Brawn2 Corn
Contract Number 8065

SUMMARY OF FORAGE AND GRAIN ANALYSIS

SAMPLE NO.	VARIETY	KIND/CROP	H20	DRY MATTER	YIELD TON PER ACRE	TONS DM PER ACRE	% CRUDE PROTEIN	ADF	NDF	TDN	RELATIVE FEED VALUE	COMMENTS
3	O'S 110	SUBN2 CORN	67.9	32.1	16.03	5.15	8.7%	24.7	44.1	70.6	140	W/O SW ENSILE
4	O'S 110	SUBN2 CORN	65.4	34.6	15.63	5.41	8.0%	24.8	43.7	70.5	148	SW ENSILE APPLIED
5	O'S 110	SUBN2 CORN	66.2	33.8	16.40	5.54	8.1%	24.8	41.5	70.5	148	W/O SW ENSILE
6	ORIGINAL	SUBN2 CORN	63.4	36.6	10.49	3.84	9.0%	22.9	40.6	71.8	163	SILAGE
7	O'S 105	SUBN2 105 DAY	63.1	36.9	11.55	4.47	8.4%	23.6	41.7	71.3	157	SW ENS APPLIED
8	O'S 105	SUBN2 105 DAY	61.3	38.7	11.55	4.47	8.2%	24.0	42.8	71.1	153	W/O SW ENSILE
9	O'B616	YELLOW DENT	59.5	40.5	13.63	5.52	6.8%	19.1	35.8	74.5	192	W/O SW ENSILE
1	ALF/SILAGE	3RD CROP	32.3	67.7			26.0%	20.1	24.1	73.2	282	SW ENS APPLIED
10/11	O'B 616	YELLOW DENT	61.5	38.5	14.08	5.42	7.4%	20.4	39.4	73.5	173	WITH SW ENSILE
14	ALF/SILAGE	3RD CROP	32.8	67.2			24.7%	20.3	26.4	73.1	257	W/O SW ENSILE
15	ALF/SILAGE	3RD CROP	31.9	68.1			25.8%	18.1	23.0	74.8	303	W/SUBN2 GRAIN
16/17/18	#2 CORN	YELLOW DENT	14.3	85.6			9.8%			88.5		AVE./SAMPLES
19	O'S 110	SUBN2 CORN	12.8	87.6			11.9%			89.0		SHELLED

NOTES- O'S 105 = 105 DAY RM O'BRIEN HYBRID SUBN CORN HYBRID

O'S 110 = 110 DAY RM O'BRIEN HYBRID SUBN CORN HYBRID

O'B 616 = 105 DAY RM O'BRIEN HYBRID YELLOW DENT

SW. ENS = SWEET ENSILE OR SUBN2 GRAIN DRIED AND FINELY GROUND WITH MICROBIALS ADDED TO PRESERVE SILAGE.

Soil and Forage Analysis Laboratory

Marshfield Agricultural Research Station
8396 Yellowstone Drive, Marshfield, WI 54449-8401
Phone 715/387-2523 FAX 715/387-0479

UNIVERSITY OF WISCONSIN MADISON

Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4548

Sample Name 1
Material Legume silage
Harvest Date 03-Oct-93
Cutting

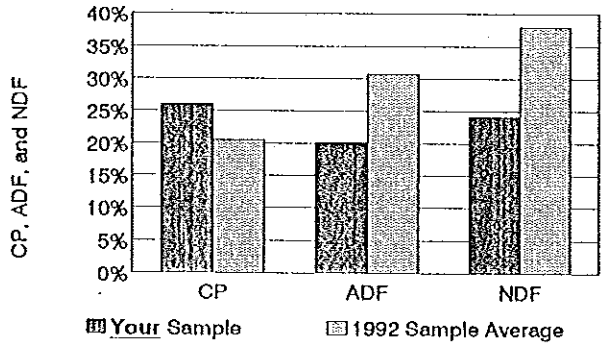
Date Received 30-Mar-94
Date Sent 04-Apr-94

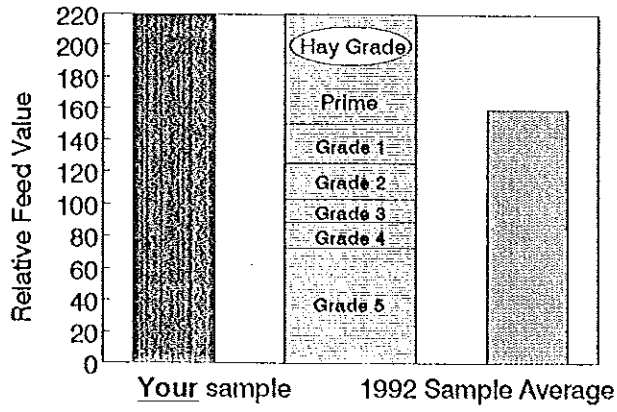
Analysis Type Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	32.3%	57.0%
Dry Matter	67.7%	43.0%
Crude Protein (CP)	26.0%	20.5%
ADF-CP		1.4%
Acid Detergent Fiber	20.1%	30.7%
Neutral Detergent Fiber	24.1%	37.9%
Energy Values		
TDN *(Estimate)*	73.2%	65.0%
Nonfiber carbohydrates	38.9%	30.6%
NE/Lactation (MCal/lb)	0.762	0.670
NE/Maint (MCal/lb)	0.851	0.707
NE/Gain (MCal/lb)	0.562	0.435
Relative Feed Value	282	160
Minerals		
Calcium	1.15%	1.27%
Phosphorus	0.34%	0.32%
Potassium	2.99%	3.06%
Magnesium	0.29%	0.41%

Comparison of your sample with average of 1992 samples





Notes

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Soil and Forage Analysis Laboratory

Marshfield Agricultural Research Station
8396 Yellowstone Drive, Marshfield, WI 54449-8401
Phone 715/387-2523 FAX 715/387-0479

UNIVERSITY OF WISCONSIN MADISON

Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4549

Sample Name	2
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	55.2%	62.7%
Dry Matter	44.8%	37.3%
Crude Protein (CP)	9.7%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	29.0%	26.1%
Neutral Detergent Fiber	56.1%	43.0%

Energy Values

TDN *(Estimate)*	67.5%	69.6%
Nonfiber carbohydrates	23.2%	37.7%
NE/Lactation (MCal/lb)	0.698	0.721
NE/Maint (MCal/lb)	0.752	0.788
NE/Gain (MCal/lb)	0.476	0.507

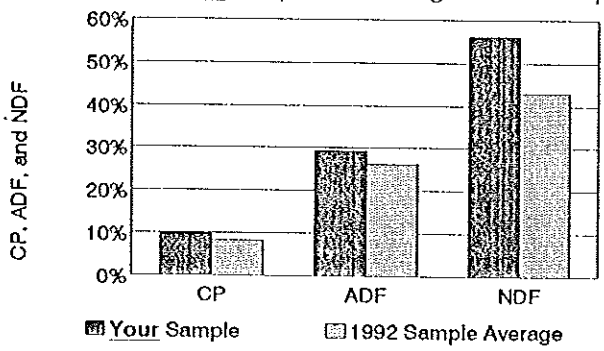
Relative Feed Value	110

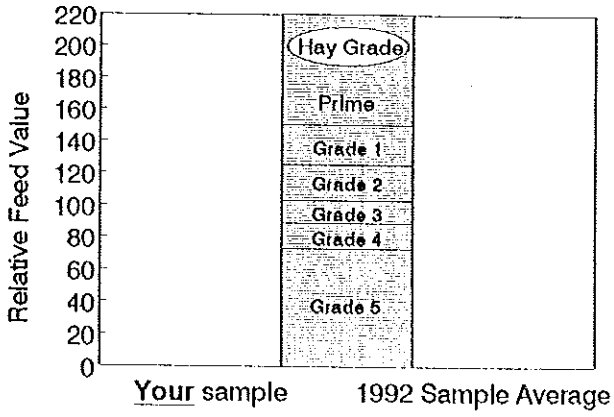
Minerals

Calcium	0.15%	0.35%
Phosphorus	0.30%	0.24%
Potassium	1.76%	1.04%
Magnesium	0.25%	0.21%

Notes

Comparison of your sample with average of 1992 samples





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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4550

Sample Name	3
Material	Corn silage
Harvest Date	03–Oct–93
Cutting	

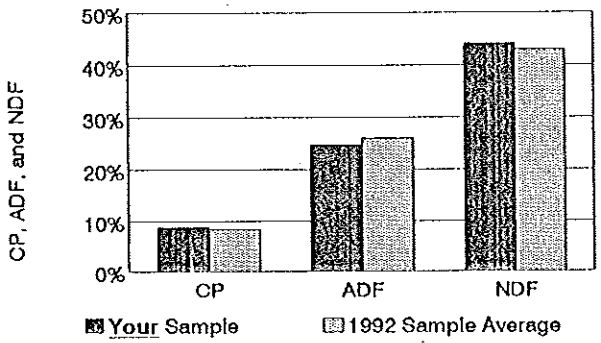
Date Received	30–Mar–94
Date Sent	04–Apr–94

Analysis Type: Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	67.9%	62.7%
Dry Matter	32.1%	37.3%
Crude Protein (CP)	8.7%	8.3%
ADF–CP		0.6%
Acid Detergent Fiber	24.7%	26.1%
Neutral Detergent Fiber	44.1%	43.0%

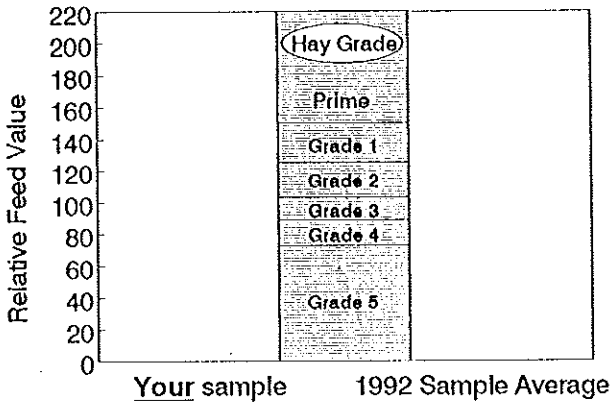
Comparison of **your** sample with average of 1992 samples



Energy Values

TDN *(Estimate)*	70.6%	69.6%
Nonfiber carbohydrates	36.2%	37.7%
NE/Lactation (MCal/lb)	0.732	0.721
NE/Maint (MCal/lb)	0.805	0.788
NE/Gain (MCal/lb)	0.522	0.507

Relative Feed Value	140



Minerals

Calcium	0.18%	0.35%
Phosphorus	0.23%	0.24%
Potassium	1.45%	1.04%
Magnesium	0.25%	0.21%

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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4551

Sample Name	4
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

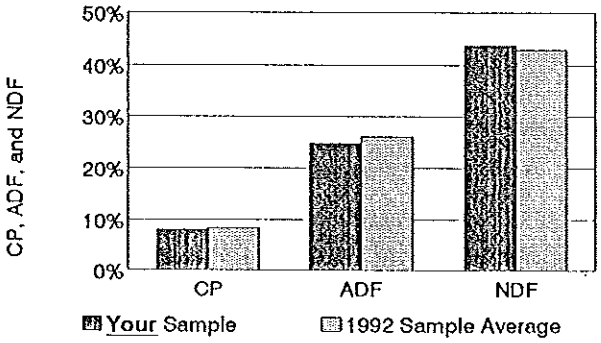
Date Received	30-Mar-94
Date Sent	04-Apr-94

Analysis Type: Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	65.4%	62.7%
Dry Matter	34.6%	37.3%
Crude Protein (CP)	8.0%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	24.8%	26.1%
Neutral Detergent Fiber	43.7%	43.0%

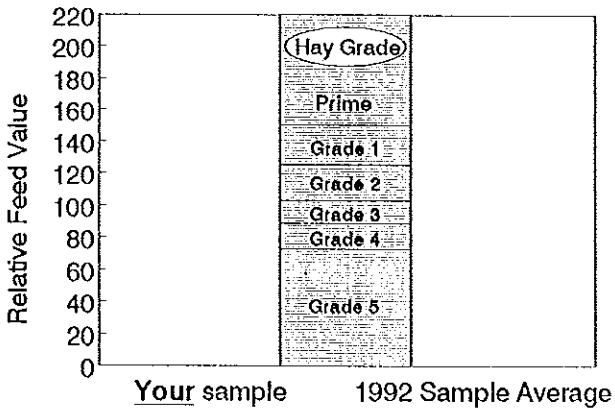
Comparison of your sample with average of 1992 samples



Energy Values

TDN *(Estimate)*	70.5%	69.6%
Nonfiber carbohydrates	37.3%	37.7%
NE/Lactation (MCal/lb)	0.732	0.721
NE/Maint (MCal/lb)	0.804	0.788
NE/Gain (MCal/lb)	0.521	0.507

Relative Feed Value	148



Minerals

Calcium	0.17%	0.35%
Phosphorus	0.20%	0.24%
Potassium	1.29%	1.04%
Magnesium	0.24%	0.21%

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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4552

Sample Name	5
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	66.2%	62.7%
Dry Matter	33.8%	37.3%
Crude Protein (CP)	8.1%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	24.8%	26.1%
Neutral Detergent Fiber	41.5%	43.0%

Energy Values

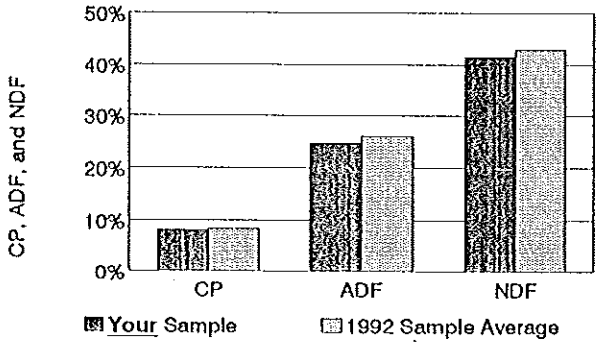
TDN *(Estimate)*	70.5%	69.6%
Nonfiber carbohydrates	39.4%	37.7%
NE/Lactation (MCal/lb)	0.732	0.721
NE/Maint (MCal/lb)	0.804	0.788
NE/Gain (MCal/lb)	0.521	0.507
Relative Feed Value	148	

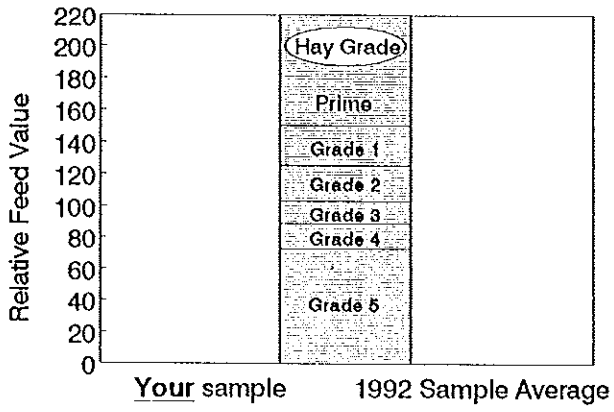
Minerals

Calcium	0.17%	0.35%
Phosphorus	0.21%	0.24%
Potassium	1.32%	1.04%
Magnesium	0.24%	0.21%

Notes

Comparison of your sample with average of 1992 samples





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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4553

Sample Name	6
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	63.4%	62.7%
Dry Matter	36.6%	37.3%
Crude Protein (CP)	9.0%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	22.9%	26.1%
Neutral Detergent Fiber	40.6%	43.0%

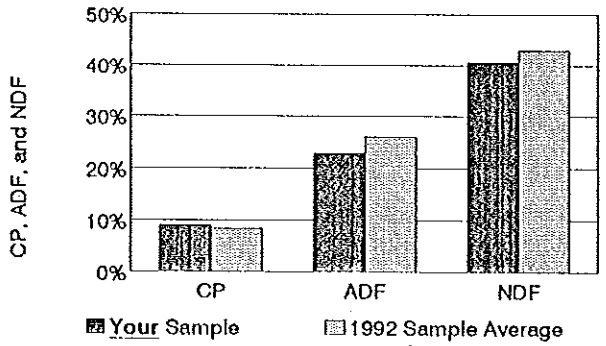
Energy Values

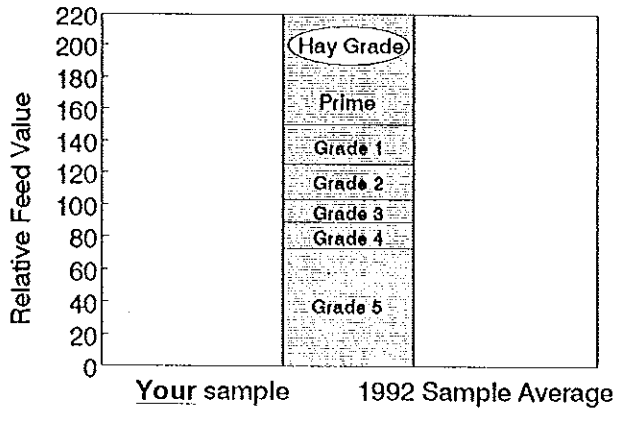
TDN *(Estimate)*	71.8%	69.6%
Nonfiber carbohydrates	39.4%	37.7%
NE/Lactation (MCal/lb)	0.746	0.721
NE/Maint (MCal/lb)	0.827	0.788
NE/Gain (MCal/lb)	0.541	0.507
Relative Feed Value	163	

Minerals

Calcium	0.16%	0.35%
Phosphorus	0.21%	0.24%
Potassium	1.45%	1.04%
Magnesium	0.28%	0.21%

Comparison of your sample with average of 1992 samples





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UNIVERSITY OF WISCONSIN MADISON

Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4554

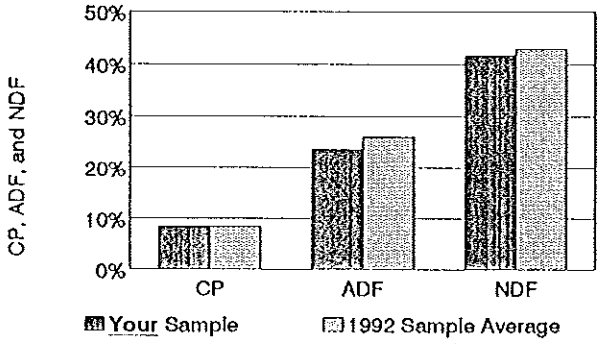
Sample Name	7
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	63.1%	62.7%
Dry Matter	36.9%	37.3%
Crude Protein (CP)	8.4%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	23.6%	26.1%
Neutral Detergent Fiber	41.7%	43.0%

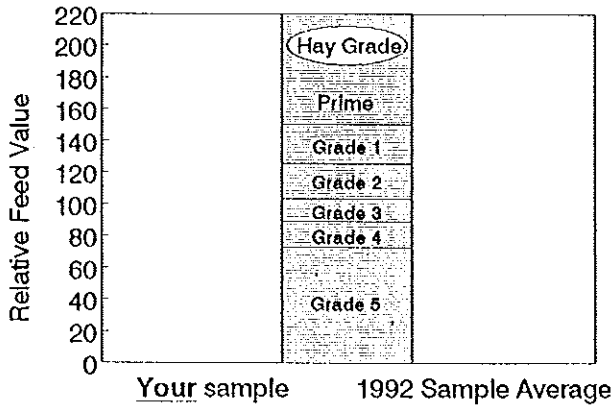
Comparison of your sample with average of 1992 samples



Energy Values

TDN *(Estimate)*	71.3%	69.6%
Nonfiber carbohydrates	38.9%	37.7%
NE/Lactation (MCal/lb)	0.740	0.721
NE/Maint (MCal/lb)	0.818	0.788
NE/Gain (MCal/lb)	0.533	0.507

Relative Feed Value	157



Minerals

Calcium	0.16%	0.35%
Phosphorus	0.24%	0.24%
Potassium	1.49%	1.04%
Magnesium	0.27%	0.21%

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UNIVERSITY OF WISCONSIN MADISON

Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4555

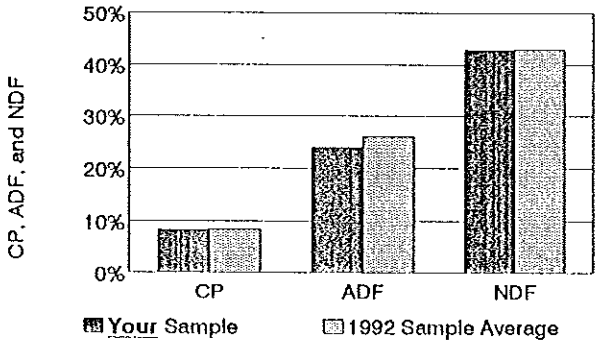
Sample Name	8
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

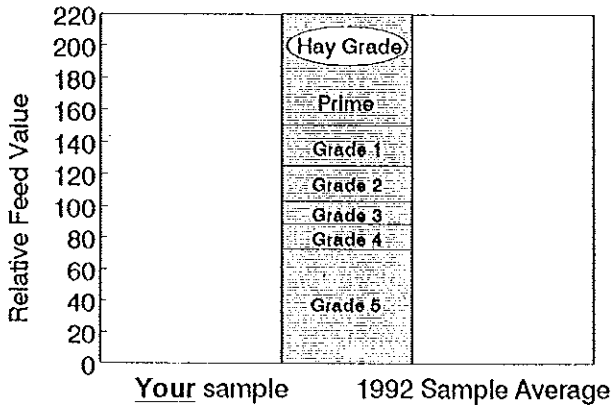
Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	61.3%	62.7%
Dry Matter	38.7%	37.3%
Crude Protein (CP)	8.2%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	24.0%	26.1%
Neutral Detergent Fiber	42.8%	43.0%
Energy Values		
TDN *(Estimate)*	71.1%	69.6%
Nonfiber carbohydrates	38.0%	37.7%
NE/Lactation (MCal/lb)	0.738	0.721
NE/Maint (MCal/lb)	0.814	0.788
NE/Gain (MCal/lb)	0.530	0.507
Relative Feed Value	153	
Minerals		
Calcium	0.14%	0.35%
Phosphorus	0.21%	0.24%
Potassium	1.32%	1.04%
Magnesium	0.23%	0.21%

Comparison of your sample with average of 1992 samples





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UNIVERSITY OF WISCONSIN MADISON

Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4556

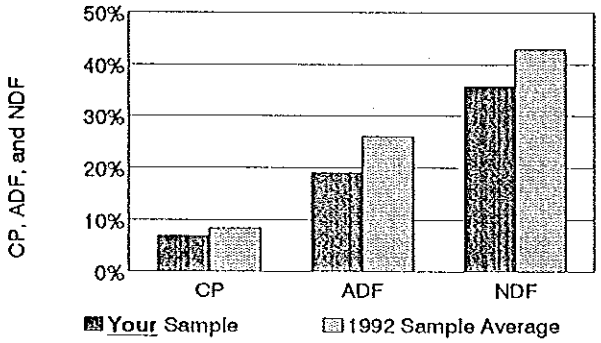
Sample Name	9
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

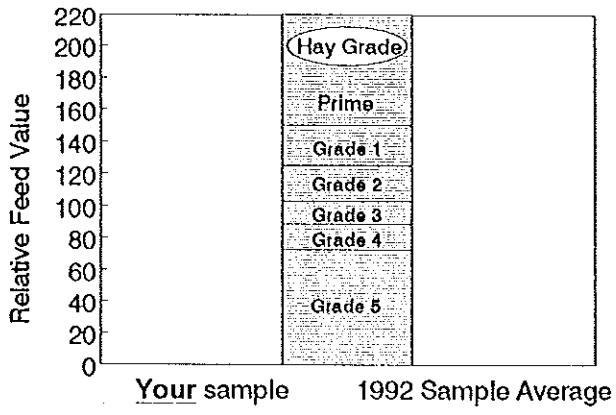
Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	59.5%	62.7%
Dry Matter	40.5%	37.3%
Crude Protein (CP)	6.8%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	19.1%	26.1%
Neutral Detergent Fiber	35.8%	43.0%
Energy Values		
TDN *(Estimate)*	74.5%	69.6%
Nonfiber carbohydrates	46.4%	37.7%
NE/Lactation (MCal/lb)	0.776	0.721
NE/Maint (MCal/lb)	0.872	0.788
NE/Gain (MCal/lb)	0.581	0.507
Relative Feed Value	192	
Minerals		
Calcium	0.15%	0.35%
Phosphorus	0.19%	0.24%
Potassium	1.20%	1.04%
Magnesium	0.23%	0.21%

Comparison of **your** sample with average of 1992 samples





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UNIVERSITY OF WISCONSIN MADISON

Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4557

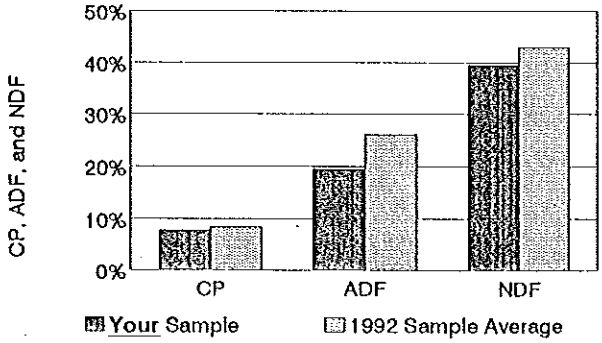
Sample Name	10
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	62.0%	62.7%
Dry Matter	38.0%	37.3%
Crude Protein (CP)	7.7%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	19.4%	26.1%
Neutral Detergent Fiber	39.5%	43.0%

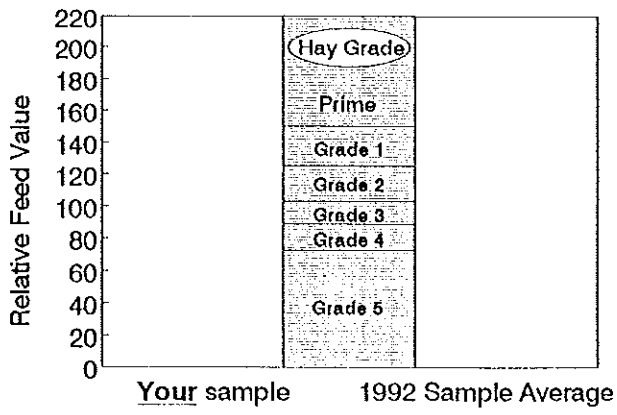
Comparison of your sample with average of 1992 samples



Energy Values

TDN *(Estimate)*	74.3%	69.6%
Nonfiber carbohydrates	41.8%	37.7%
NE/Lactation (MCal/lb)	0.774	0.721
NE/Maint (MCal/lb)	0.869	0.788
NE/Gain (MCal/lb)	0.577	0.507

Relative Feed Value	174



Minerals

Calcium	0.20%	0.35%
Phosphorus	0.18%	0.24%
Potassium	1.17%	1.04%
Magnesium	0.27%	0.21%

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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4558

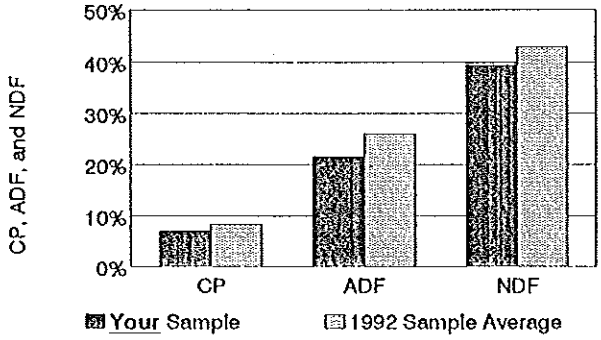
Sample Name	11
Material	Corn silage
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	60.9%	62.7%
Dry Matter	39.1%	37.3%
Crude Protein (CP)	7.0%	8.3%
ADF-CP		0.6%
Acid Detergent Fiber	21.4%	26.1%
Neutral Detergent Fiber	39.4%	43.0%

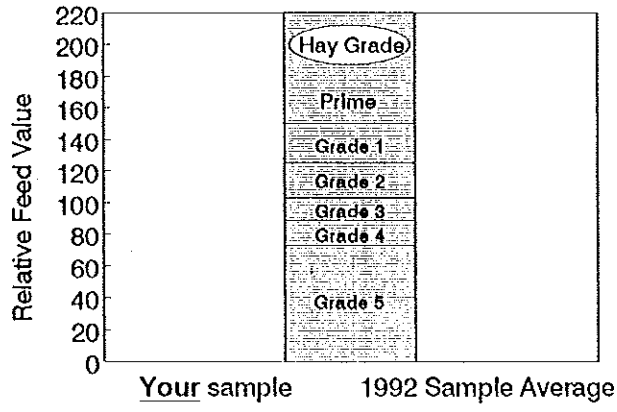
Comparison of your sample with average of 1992 samples



Energy Values

TDN *(Estimate)*	72.8%	69.6%
Nonfiber carbohydrates	42.6%	37.7%
NE/Lactation (MCal/lb)	0.757	0.721
NE/Maint (MCal/lb)	0.844	0.788
NE/Gain (MCal/lb)	0.556	0.507

Relative Feed Value	171



Minerals

Calcium	0.19%	0.35%
Phosphorus	0.19%	0.24%
Potassium	1.19%	1.04%
Magnesium	0.25%	0.21%

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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4559

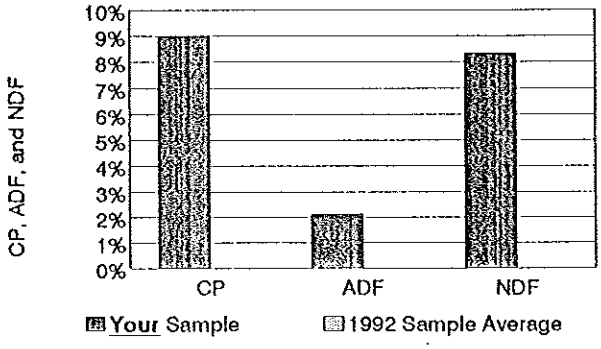
Sample Name	12
Material	High moisture shelled corn
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	34.1%	
Dry Matter	65.9%	
Crude Protein (CP)	9.0%	
ADF-CP		
Acid Detergent Fiber	2.1%	
Neutral Detergent Fiber	8.3%	

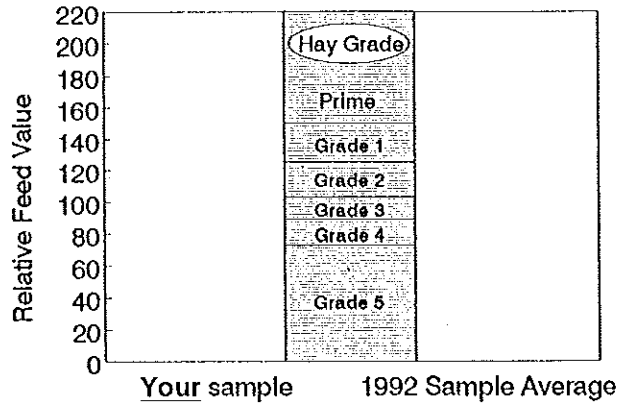
Comparison of your sample with average of 1992 samples



Energy Values

TDN *(Estimate)*	89.0%	
Nonfiber carbohydrates	71.7%	
NE/Lactation (MCal/lb)	0.937	
NE/Maint (MCal/lb)	1.109	
NE/Gain (MCal/lb)	0.780	

Relative Feed Value



Minerals

Calcium		
Phosphorus	0.34%	
Potassium	1.09%	
Magnesium	0.18%	

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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4560

Sample Name	13
Material	High moisture shelled corn
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	35.4%	
Dry Matter	64.6%	
Crude Protein (CP)	8.6%	
ADF-CP		
Acid Detergent Fiber	1.5%	
Neutral Detergent Fiber	9.8%	

Energy Values

TDN *(Estimate)*	90.0%	
Nonfiber carbohydrates	70.6%	
NE/Lactation (MCal/lb)	0.948	
NE/Maint (MCal/lb)	1.126	
NE/Gain (MCal/lb)	0.794	

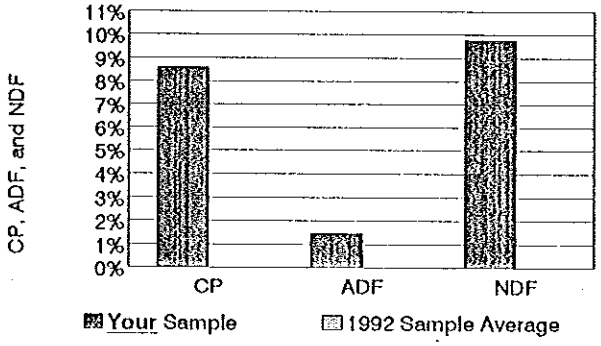
Relative Feed Value

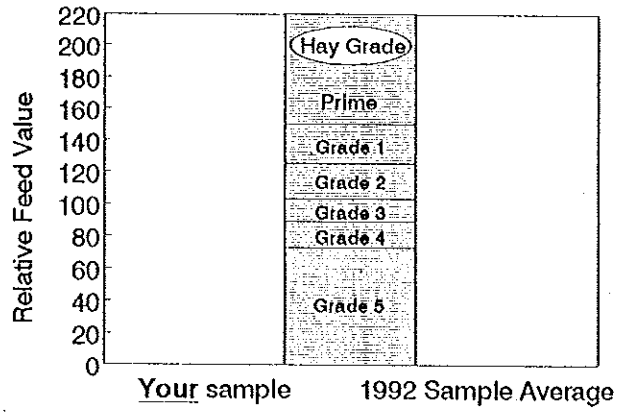
Minerals

Calcium		
Phosphorus	0.36%	
Potassium	1.09%	
Magnesium	0.17%	

Notes

Comparison of your sample with average of 1992 samples





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Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4561

Sample Name	14
Material	Legume silage
Harvest Date	03-Oct-93
Cutting	

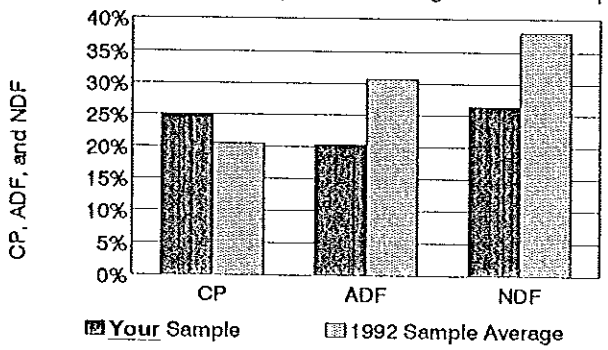
Date Received	30-Mar-94
Date Sent	04-Apr-94

Analysis Type: Wet Chemistry

Analysis Results

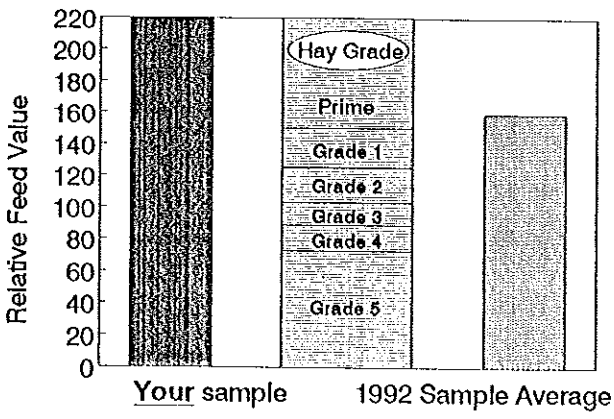
	Your sample	1992 Sample Avg
Moisture	32.8%	57.0%
Dry Matter	67.2%	43.0%
Crude Protein (CP)	24.7%	20.5%
ADF-CP		1.4%
Acid Detergent Fiber	20.3%	30.7%
Neutral Detergent Fiber	26.4%	37.9%

Comparison of your sample with average of 1992 samples



Energy Values

	Your sample	1992 Sample Avg
TDN *(Estimate)*	73.1%	65.0%
Nonfiber carbohydrates	37.9%	30.6%
NE/Lactation (MCal/lb)	0.760	0.670
NE/Maint (MCal/lb)	0.848	0.707
NE/Gain (MCal/lb)	0.560	0.435
Relative Feed Value	257	160



Minerals

	Your sample	1992 Sample Avg
Calcium	1.35%	1.27%
Phosphorus	0.31%	0.32%
Potassium	2.98%	3.06%
Magnesium	0.29%	0.41%

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Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4562

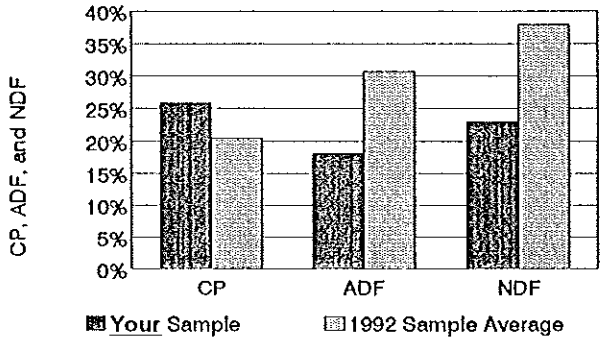
Sample Name	15
Material	Legume silage
Harvest Date	03-Oct-93
Cutting	

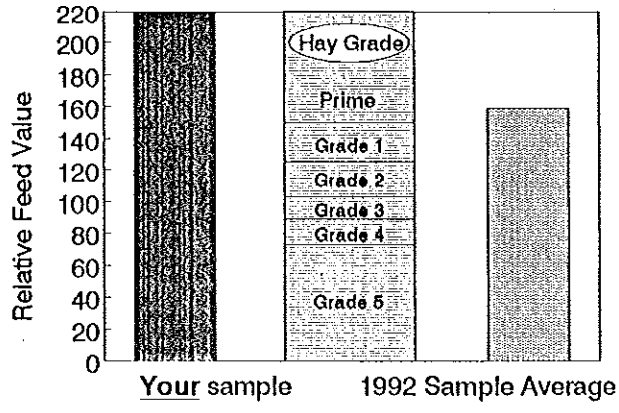
Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	31.9%	57.0%
Dry Matter	68.1%	43.0%
Crude Protein (CP)	25.8%	20.5%
ADF-CP		1.4%
Acid Detergent Fiber	18.1%	30.7%
Neutral Detergent Fiber	23.0%	37.9%
Energy Values		
TDN *(Estimate)*	74.8%	65.0%
Nonfiber carbohydrates	40.2%	30.6%
NE/Lactation (MCal/lb)	0.779	0.670
NE/Maint (MCal/lb)	0.877	0.707
NE/Gain (MCal/lb)	0.585	0.435
Relative Feed Value	303	160
Minerals		
Calcium	1.31%	1.27%
Phosphorus	0.38%	0.32%
Potassium	2.71%	3.06%
Magnesium	0.30%	0.41%

Comparison of your sample with average of 1992 samples





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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4563

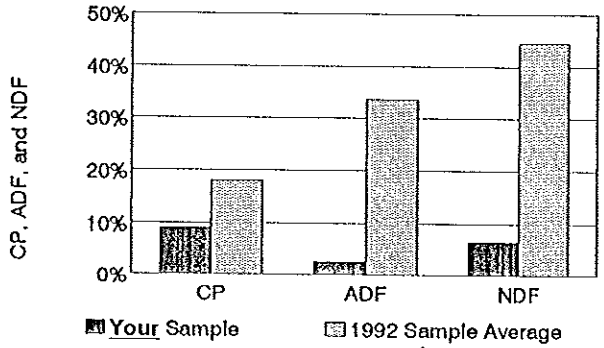
Sample Name	16
Material	Dry shelled corn
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

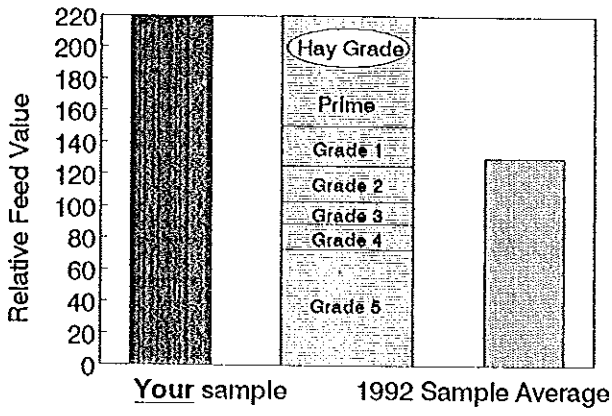
	Your sample	1992 Sample Avg
Moisture	14.2%	58.5%
Dry Matter	85.8%	41.5%
Crude Protein (CP)	9.0%	18.0%
ADF-CP		1.4%
Acid Detergent Fiber	2.5%	33.7%
Neutral Detergent Fiber	6.5%	44.6%

Comparison of **your** sample with average of 1992 samples



Energy Values

	Your sample	1992 Sample Avg
TDN *(Estimate)*	86.9%	62.6%
Nonfiber carbohydrates	73.5%	26.4%
NE/Lactation (MCal/lb)	0.914	0.644
NE/Maint (MCal/lb)	1.077	0.665
NE/Gain (MCal/lb)	0.754	0.398
Relative Feed Value	1246	131



Minerals

	Your sample	1992 Sample Avg
Calcium		1.09%
Phosphorus	0.27%	0.29%
Potassium	0.85%	2.93%
Magnesium	0.16%	0.38%

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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4564

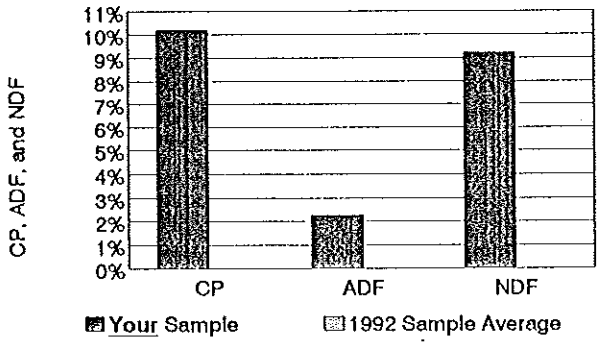
Sample Name	17
Material	Dry shelled corn
Harvest Date	03-Oct-93
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	15.0%	
Dry Matter	85.0%	
Crude Protein (CP)	10.2%	
ADF-CP		
Acid Detergent Fiber	2.2%	
Neutral Detergent Fiber	9.2%	

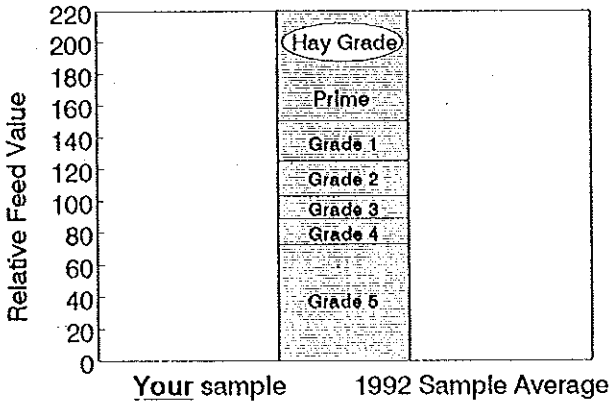
Comparison of your sample with average of 1992 samples



Energy Values

TDN *(Estimate)*	88.8%	
Nonfiber carbohydrates	69.6%	
NE/Lactation (MCal/lb)	0.935	
NE/Maint (MCal/lb)	1.107	
NE/Gain (MCal/lb)	0.778	

Relative Feed Value



Minerals

Calcium		
Phosphorus	0.29%	
Potassium	0.95%	
Magnesium	0.18%	

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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4565

Sample Name	18
Material	Dry shelled corn
Harvest Date	
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	13.8%	
Dry Matter	86.2%	
Crude Protein (CP)	10.3%	
ADF-CP		
Acid Detergent Fiber	1.4%	
Neutral Detergent Fiber	9.4%	

Energy Values

TDN *(Estimate)*	90.0%	
Nonfiber carbohydrates	69.3%	
NE/Lactation (MCal/lb)	0.949	
NE/Maint (MCal/lb)	1.126	
NE/Gain (MCal/lb)	0.794	

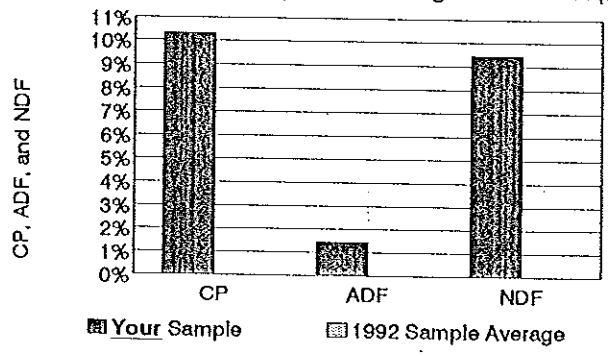
Relative Feed Value

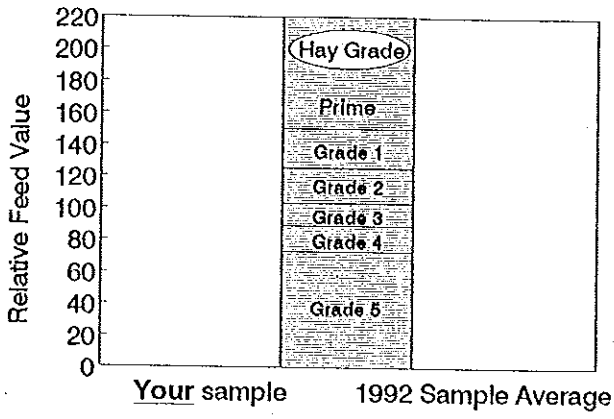
Minerals

Calcium		
Phosphorus	0.28%	
Potassium	0.86%	
Magnesium	0.17%	

Notes

Comparison of **your** sample with average of 1992 samples





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Account Information

Account Number 901

Mailing Address
O'Brien Farms, Inc.
552 Glenway Road
Brooklyn, WI 53521

This report is for a sample from:
O'Brien Farms, Inc.

Sample Information

Lab Number 1F4566

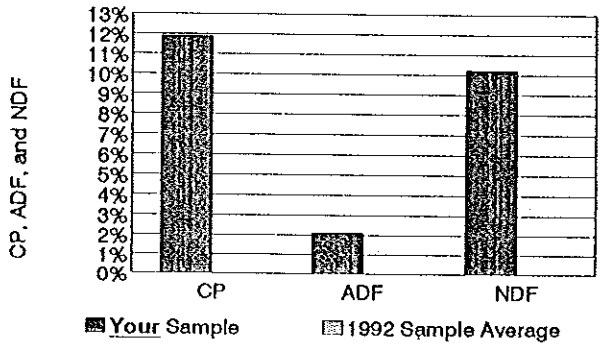
Sample Name	19
Material	Dry shelled corn
Harvest Date	10-Oct-91
Cutting	

Date Received	30-Mar-94
Date Sent	04-Apr-94
Analysis Type	Wet Chemistry

Analysis Results

	Your sample	1992 Sample Avg
Moisture	12.8%	
Dry Matter	87.2%	
Crude Protein (CP)	11.9%	
ADF-CP		
Acid Detergent Fiber	2.1%	
Neutral Detergent Fiber	10.2%	

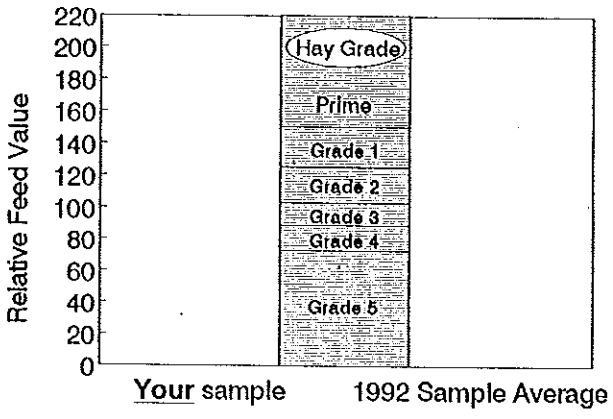
Comparison of **your** sample with average of 1992 samples



Energy Values

TDN *(Estimate)*	89.0%	
Nonfiber carbohydrates	66.9%	
NE/Lactation (MCal/lb)	0.937	
NE/Maint (MCal/lb)	1.110	
NE/Gain (MCal/lb)	0.781	

Relative Feed Value



Minerals

Calcium		
Phosphorus	0.40%	
Potassium	1.11%	
Magnesium	0.21%	

Notes

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