



Fermentation Analysis Results

Account Name: **J & T Consulting**
Farm Name: **Sycamore Creek**
Feed Type: **Corn Silage**
Description: **Corn Silage Trench 2**

Sample Number: **11784-119**
Date Reported: **05/25/2010**

		<u>Observed Range</u>	<u>Target Range</u>
Dry Matter:	31.8 %	30% to 35%	
pH	4.03	3.61 - 4.13	3.60 - 3.90
Titratable Acidity	10.60 (meq NaOH)	5.75 - 11.5	5.0 - 10.0
Ammonia	19.6 %CP	11.24 - 19.92	10.0 - 15.0
Total VFA	9.43 %DM	5.39 - 9.51	5.0 - 9.0
Lactic Acid % Total VFA	41 %	53.1 - 80.0	60 - 80

Lactic Acid and Volatile Fatty Acids:

Lactic Acid	4.33 %DM	3.37 - 6.57	3.50 - 6.50
Acetic Acid	4.45 %DM	1.36 - 3.64	1.35 - 3.55
Propionic Acid	0.65 %DM	0 - 0.81	0 - 0.40
Butyric Acid	ND %DM	0 - 0.57	0 - 0.10
Iso-butyric Acid	ND %DM	0 - 0.14	0 - 0.10

Alcohols, Acetates, and Lactates:

1,2 propanediol	ND %DM	0 - 2.52	0 - 2.00
1-propanol	0.770 %DM		0 - 0.10
Methanol	0.023 %DM		0 - 0.10
Ethanol	0.191 %DM		0 - 0.50
2-butanol	0.009 %DM		0 - 0.10
Methyl acetate	ND %DM		0 - 0.10
Ethyl acetate	0.007 %DM		0 - 0.10
Propyl acetate	0.131 %DM		0 - 0.10
Ethyl lactate	ND %DM		0 - 0.10
Propyl lactate	0.008 %DM		0 - 0.10

(ND = non detect; methods: ammonia and titratable acidity – titration; lactic acid – biochemistry analyzer; other constituents – gas chromatography; observed ranges are average +/- 1 SD based on the dry matter category of the silage; see www.foragelab.com for more information)