

Appendix A

Fiber Content

and

Water Soluble

Carbohydrate Methodology

Table __ Prehydrolysis Fiber and Sugar Analysis

	ADF %	NDF %	LIGNIN %	LIGNIN CONTENT CHANGE	AVG	ADF-LIGNIN CELLULOSE %	CELLULOSE CONTENT CHANGE	AVG	NDF-ADF HEMI-CELLULOSE %	HEMI-CELLULOSE CONTENT CHANGE	AVG	Cellulose + Hemicellulose TOTAL FIBER %	TOTAL FIBER CHANGE	AVG	SUGAR FROM SOLIDS SAMPLE %	AVG	PRE-HYDROLYSIS SUGAR CONTENT CHANGE %	EXTRACT SAMPLE SUGAR %	EXTRACT DILUTION FACTOR	SUGAR FROM EXTRACT SAMPLE %	TOTAL SUGAR FROM SOLID AND EXTRACT SAMPLES %	POST-HYDROLYSIS SUGAR CONTENT CHANGE	
sd1	69.0	88.2	16.1			52.9			19.2			72.1			0.8								
sd2	56.6	72.0	10.1	-37.27%		46.5	-12.10%		15.4	-19.79%		61.9	-14.15%		4.5		462.50%						
sd3	58.9	60.3	7.6	-52.80%	-50.93%	51.3	-3.02%		1.4	-92.71%		52.7	-26.91%		4.1	4.8	500.00%						
sd4	55.7	59.3	8.2	-49.07%		47.5	-10.21%	-6.62%	3.6	-81.25%	-86.98%	51.1	-29.13%		5.5								
phsd3a	59.4	77.4	12.1	-24.84%		47.3	-10.59%		18.0	-6.25%		65.3	-9.43%		2.8			0.60	4.16	2.50	5.30	562.00%	
phsd3b	60.3	75.1	12.1	-24.84%		48.2	-8.86%		14.8	-22.92%		63.0	-12.62%		2.3			0.90	4.15	3.74	6.04	654.38%	
ws1	50.0	75.7	9.3			40.7			25.7			66.4			1.5								
ws2	52.9	63.3	6.6	-29.03%		46.3	13.76%		10.4	-59.53%		56.7	-14.61%		6.6		340.00%						
ws3	43.6	46.5	7.3	-21.51%		36.3	-10.81%		2.9	-86.72%		39.2	-40.96%		7.5		400.00%						
phws3a	57.8	69.5	10.1			47.7			11.7			59.4			2.1			0.60	7.75	4.65	6.75	350.00%	
phws3b	40.1	59.6	11.4			28.7			19.5			48.2			4.6			0.70	7.17	5.02	9.62	541.27%	
cc1	40.3	82.5	6.3			34.0			42.2			76.2			1.7								
cc2	38.8	63.7	7.0	11.11%		31.8	-6.47%		24.9	-41.00%		56.7	-25.59%		7.3		329.41%						
cc3	44.0	61.7	6.2	-1.59%		37.8	11.18%		17.7	-58.06%		55.5	-27.17%		5.4		217.65%						

Appendix B

Haselkorn Methodology

Enzyme Hydrolysis (Sawdust)

	Wt. (lb)
Sample: SD3-A (Post fruiting, sawdust substrate)	
Date: March 11, 2008 – 10:30 a.m.	
Pre-hydrolysis weight:	1.25
Pre-hydrolysis moisture:	11.0%
Dry weight:	1.11
Water added:	7.56
Total Moisture:	7.70
Post-hydrolysis weight (wet pressed solids):	2.54
Post-hydrolysis weight (dried solids):	0.694
Percent hydrolyzed :	37.6%
Aqueous extract:	4.63
Dilution factor (lb. extract / lb. dry pre-hydr. solids)	4.16
Inoculation: 0.2 ml Genecor Cellulase Enzyme GC220	
Temperature: 130° F pH: 4.0	
Percent water soluble carbohydrates:	0.60%
Weight of water soluble carbohydrates:	0.02778
Water soluble carbohydrates per lb. of dry substrate:	0.024971
Water soluble carbohydrates per 1,000 of dry substrate:	25

Sample: SD3-B (Post fruiting, sawdust substrate)	
Date: March 12, 2008 – 10:30 a.m.	
Pre-hydrolysis weight:	1.04
Pre-hydrolysis moisture:	11.0%
Dry weight:	0.93
Water added:	6.00
Total Moisture:	6.11
Post-hydrolysis weight (wet pressed solids):	2.11
Post-hydrolysis weight (dried solids):	0.688
Percent hydrolyzed :	25.7%
Aqueous extract:	3.84
Dilution factor (lb. extract / lb. dry pre-hydr. solids)	4.15
Inoculation: 0.2 ml Genecor Cellulase Enzyme CP	
Temperature: 130° F pH: 4.0	
Percent water soluble carbohydrates:	0.90%
Weight of water soluble carbohydrates:	0.03456
Water soluble carbohydrates per lb. of dry substrate:	0.037338
Water soluble carbohydrates per 1,000 of dry substrate:	37

Sample: SD-4 (Sawdust - baseline)	
Date: March 17, 2008	
Wet weight:	1.3
Pre-hydrolysis moisture:	39.7%
Dry weight:	0.78
Water added:	6.00
Total Moisture:	6.52
Post-hydrolysis weight (wet pressed solids):	2.14
Post-hydrolysis weight (dried solids):	0.71
Percent hydrolyzed :	9.0%
Aqueous extract:	3.43
Dilution factor (lb. extract / lb. dry pre-hydr. solids)	4.38
Inoculation: 0.2 ml Genecor Cellulase Enzyme GC220	
Temperature: 130° F pH: 4.0	
Percent water soluble carbohydrates:	0.30%
Weight of water soluble carbohydrates:	0.01029
Water soluble carbohydrates per lb. of dry substrate:	0.013127
Water soluble carbohydrates per 1,000 of dry substrate:	13

Enzyme Hydrolysis (Wheat Straw)

	Wt. (lb)
Sample: WS3-A (Post fruiting, wheat straw substrate)	
Date: March 18, 2008 - 2:30 p.m.	
Pre-hydrolysis weight:	0.781
Pre-hydrolysis moisture:	21.7%
Dry weight:	0.61
Water added:	7.93
Total Moisture:	8.09
Post-hydrolysis weight (wet pressed solids):	0.00
Post-hydrolysis weight (dried solids):	0.39
Percent hydrolyzed :	35.6%
Aqueous extract:	4.74
Dilution factor (lb. extract / lb. dry pre-hydr. solids)	7.75
Inoculation: 0.2 ml Genecor Cellulase Enzyme GC220	
Temperature: 190° F pH: 5.0	
Percent water soluble carbohydrates:	0.60%
Weight of water soluble carbohydrates:	0.02844
Water soluble carbohydrates per lb. of dry substrate:	0.046507
Water soluble carbohydrates / 1,000 of dry substrate:	47

Sample: WS3-B (Post fruiting, wheat straw substrate)	
Date: March 19, 2008 - 2:30 p.m.	
Pre-hydrolysis weight:	0.825
Pre-hydrolysis moisture:	21.7%
Dry weight:	0.65
Water added:	7.79
Total Moisture:	7.97
Post-hydrolysis weight (wet pressed solids):	2.11
Post-hydrolysis weight (dried solids):	0.39
Percent hydrolyzed :	39.8%
Aqueous extract:	4.63
Dilution factor (lb. extract / lb. dry pre-hydr. solids)	7.17
Inoculation: 0.2 ml Genecor Cellulase Enzyme GC220	
Temperature: 130° F pH: 5.0	
Percent water soluble carbohydrates:	0.70%
Weight of water soluble carbohydrates:	0.03241
Water soluble carbohydrates per lb. of dry substrate:	0.050172
Water soluble carbohydrates per 1,000 of dry substrate:	50

Appendix C

Ethanol Production Worksheet

THEORETICAL ETHANOL PRODUCTION CALCULATIONS

PRE-HYDROLYSIS SAWDUST/SHIITAKE SUBSTRATE 5,200 BLOCKS PER YEAR PRODUCTION			POST-HYDROLYSIS SAWDUST/SHIITAKE SUBSTRATE USING GENECOR CELLULASE ENZYME GC220 5,200 BLOCKS PER YEAR PRODUCTION			POST-HYDROLYSIS SAWDUST/SHIITAKE SUBSTRATE USING GENECOR CELLULASE ENZYME CP 5,200 BLOCKS PER YEAR PRODUCTION	
6.00	wet lbs/block		6.00	wet lbs/block		6.00	wet lbs/block
0.35	dry % of block		0.35	dry % of block		0.35	dry % of block
2.10	dry lb/block		2.10	dry lb/block		2.10	dry lb/block
5200.00	blocks/yr		5200.00	blocks/yr		5200.00	blocks/yr
10920.00	dry lb/yr		10920.00	dry lb/yr		10920.00	dry lb/yr
524.16	lb sugar/yr		578.76	lb sugar/yr		655.20	lb sugar/yr
267.32	lb ethanol		295.17	lb ethanol		334.15	lb ethanol
40.81	gal		45.06	gal		51.02	gal
PRE-HYDROLYSIS WHEATSTRAW/OYSTER SUBSTRATE 5,200 BLOCKS PER YEAR PRODUCTION			POST-HYDROLYSIS WHEATSTRAW/OYSTER SUBSTRATE USING GENECOR CELLULASE ENZYME GC220 5,200 BLOCKS PER YEAR PRODUCTION			POST-HYDROLYSIS WHEATSTRAW/OYSTER SUBSTRATE USING GENECOR CELLULASE ENZYME CP 5,200 BLOCKS PER YEAR PRODUCTION	
6.00	wet lbs/block		6.00	wet lbs/block		6.00	wet lbs/block
0.35	dry % of block		0.35	dry % of block		0.35	dry % of block
2.10	dry lb/block		2.10	dry lb/block		2.10	dry lb/block
5200.00	blocks/yr		5200.00	blocks/yr		5200.00	blocks/yr
10920.00	dry lb/yr		10920.00	dry lb/yr		10920.00	dry lb/yr
819.00	lb sugar/yr		742.56	lb sugar/yr		1048.32	lb sugar/yr
417.69	lb ethanol		378.71	lb ethanol		534.64	lb ethanol
63.77	gal		57.82	gal		81.62	gal

Conversion: 1 lb sugar --> 0.51 lb ethanol

Appendix D

Lab Analysis

Pre-hydrolysis Sawdust (solid)



Dairy One

FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

Sampled	Recvd	Printed	ST	CO
	02/08/08	02/13/08		

SD 1 HARDWOOD SAWDUST SAMPLE
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

 |Sample Description |Farm|Code| Sample |
 |WOOD/SAW DUST, Dry | |696 |12121160|

PRE-MYCELIAL GROWTH

 Analysis Results

Components	As Fed	DM
% Moisture	5.3	
% Dry Matter	94.7	
% Acid Detergent Fiber	65.3	69.0
% Neutral Detergent Fiber	83.5	88.2
% Lignin	15.3	16.1
% WSC (Water Sol. Carbs.)	.8	.8



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

Sample Description	Farm Code	Sample
WOOD/SAW DUST, Dry	696	12121170

POST-MYCELIAL GROWTH & PRE MUSH FRUIT

Analysis Results

Sampled	Recvd	Printed	ST/CO
	02/08/08	02/13/08	

SD 2 HARDWOOD SAWDUST SAMPLE
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

Components	As Fed	DM
% Moisture	7.2	
% Dry Matter	92.8	
% Acid Detergent Fiber	52.5	56.6
% Neutral Detergent Fiber	66.8	72.0
% Lignin	9.4	10.1
% WSC (Water Sol. Carbs.)	4.2	4.5



FORAGE TESTING LABORATORY
DAIRY ONE, INC.
730 WARREN ROAD
ITHACA, NEW YORK 14850
607-257-1272 (fax 607-257-1350)

Sample Description	Farm	Code	Sample
WOOD/SAW DUST, Dry		696	12121180

POST- MUSH FRUITING

Analysis Results

Components	As Fed	DM
------------	--------	----

% Moisture	6.1	
% Dry Matter	93.9	
% Acid Detergent Fiber	55.3	58.9
% Neutral Detergent Fiber	56.6	60.3
% Lignin	7.2	7.6
% WSC (Water Sol. Carbs.)	3.9	4.1

Sampled	Recvd	Printed	ST	CO
	02/08/08	02/13/08		

SD 3 HARDWOOD SAWDUST SAMPLE
FLOWER CITY MUSHROOMS LLC
535 FIVE POINTS RD
RUSH, NY 14543



FORAGE TESTING LABORATORY
DAIRY ONE, INC.
730 WARREN ROAD
ITHACA, NEW YORK 14850
607-257-1272 (fax 607-257-1350)

|Sample Description |Farm|Code| Sample |
|WOOD/SAW DUST, Wet | |796 |12121190|

POST- MUSH FRUITING ALT FORMULATION

Analysis Results

|Sampled | Recvd |Printed |ST|CO|
| |02/08/08|02/13/08| | |

SD 4 HARDWOOD SAWDUST SAMPLE
FLOWER CITY MUSHROOMS LLC
535 FIVE POINTS RD
RUSH, NY 14543

Components	As Fed	DM
% Moisture	53.3	
% Dry Matter	46.7	
% Acid Detergent Fiber	26.0	55.7
% Neutral Detergent Fiber	27.7	59.3
% Lignin	3.9	8.2
% WSC (Water Sol. Carbs.)	2.5	5.5

Appendix E

Lab Analysis

Pre-hydrolysis Wheat Straw (solid)



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

 |Sampled | Recvd | Printed | ST|CO|
 | | | |02/08/08|02/13/08| | |

 WS 1 WHEAT STRAW SAMPLE
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

 |Sample Description |Farm|Code| Sample |
 |STRAW | |178 |12121200|

PRE MYCELIAL GROWTH

Analysis Results

Components	As Fed	DM
% Moisture	10.1	
% Dry Matter	89.9	
% Acid Detergent Fiber	45.0	50.0
% Neutral Detergent Fiber	68.1	75.7
% Lignin	8.4	9.3
% WSC (Water Sol. Carbs.)	1.4	1.5
Relative Feed Value		61



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

Sampled	Recvd	Printed	ST	CO						

WS 2 WHEAT STRAW SAMPLE
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

 |Sample Description |Farm|Code| Sample |
 |STRAW | | |178 |12121210|

POST MYCELIAL GROWTH & PRE MUSH FRUITI

Analysis Results

Components	As Fed	DM
% Moisture	13.0	
% Dry Matter	87.0	
% Acid Detergent Fiber	46.0	52.9
% Neutral Detergent Fiber	55.1	63.3
% Lignin	5.7	6.6
% WSC (Water Sol. Carbs.)	5.8	6.6
Relative Feed Value		70



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

 |Sampled | Recvd | Printed | ST|CO|
 | | | |02/08/08|02/13/08| | |

 WS 3 WHEAT STRAW SAMPLE
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

 |Sample Description |Farm|Code| Sample |
 |STRAW | |178 |12121220|

 POST MUSH FRUITING

Analysis Results

Components	As Fed	DM
% Moisture	18.1	
% Dry Matter	81.9	
% Acid Detergent Fiber	35.7	43.6
% Neutral Detergent Fiber	38.1	46.5
% Lignin	6.0	7.3
% WSC (Water Sol. Carbs.)	6.1	7.5
Relative Feed Value		110

Appendix F

Lab Analysis

**Pre-hydrolysis Corncob
(solid)**



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

 |Sampled | Recvd | Printed | ST|CO|
 | | | |02/08/08|02/13/08| | |

 CC 1 CORN COB SAMPLE
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

 |Sample Description |Farm|Code| Sample |
 |CORN COBS, Dry | |433 |12121230|

 PRE - MYCELIAL GROWTH

Analysis Results

Components	As Fed	DM
% Moisture	13.3	
% Dry Matter	86.7	
% Acid Detergent Fiber	34.9	40.3
% Neutral Detergent Fiber	71.6	82.5
% Lignin	5.5	6.3
% WSC (Water Sol. Carbs.)	1.4	1.7



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

Sampled	Recvd	Printed	ST	CO					

CC 2 CORN COB SAMPLE
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

 |Sample Description |Farm|Code| Sample |
 |CORN COBS, Dry | | |433 |12121240|

POST - MYCELIAL GROWTH & PRE MUSH FRUI

Analysis Results

Components	As Fed	DM
% Moisture	9.9	
% Dry Matter	90.1	
% Acid Detergent Fiber	35.0	38.8
% Neutral Detergent Fiber	57.4	63.7
% Lignin	6.3	7.0
% WSC (Water Sol. Carbs.)	6.5	7.3

Appendix G

Lab Analysis

Post-hydrolysis Sawdust (solid)



FORAGE LABORATORY

730 Warren Road, Ithaca, NY 14850
Ph: 800.496.3344 Fax: 607.257.1350
<http://www.dairyone.com>

DATE SAMPLED	LAB RECEIVED	DATE PRINTED	LAB USE
	02/03/09	02/11/09	.953
PHSD3B			
ADDITIONAL DESCRIPTIONS			

FLOWER CITY MUSHROOMS LLC
535 FIVE POINTS RD
RUSH, NY 14543

COMMENTS

This sample was tested twice for % WSC to confirm the value listed.

KIND DESCRIPTION	CODE	LAB SAMPLE
MISC., DRY	660	13403890
DESCRIPTION 1		
ANALYSIS RESULTS		
COMPONENTS	AS SAMPLED BASIS	DRY MATTER BASIS
% Moisture	4.7	
% Dry Matter	95.3	
% Acid Detergent Fiber	57.5	60.3
% Neutral Detergent Fiber	71.6	75.1
% Lignin	11.5	12.1
% WSC (Water Sol. Carbs.)	2.2	2.3



FORAGE LABORATORY
 730 Warren Road, Ithaca, NY 14850
 Ph: 800.496.3344 Fax: 607.257.1350
 http://www.dairyone.com

DATE SAMPLED	LAB RECEIVED	DATE PRINTED	LAB USE
	02/03/09	02/11/09	.950
ADDITIONAL DESCRIPTIONS			
PHSD3A			

FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

COMMENTS
 This sample was tested twice for % WSC to confirm the value listed.

KIND DESCRIPTION	CODE	LAB SAMPLE
MISC., DRY	660	13403880
DESCRIPTION 1		
ANALYSIS RESULTS		
COMPONENTS	AS SAMPLED BASIS	DRY MATTER BASIS
% Moisture	5.0	
% Dry Matter	95.0	
% Acid Detergent Fiber	56.5	59.4
% Neutral Detergent Fiber	73.6	77.4
% Lignin	11.5	12.1
% WSC (Water Sol. Carbs.)	2.7	2.8

Appendix H

Lab Analysis

Post-hydrolysis

Wheat Straw

(solid)



FORAGE LABORATORY

730 Warren Road, Ithaca, NY 14850
Ph: 800.496.3344 Fax: 607.257.1350
<http://www.dairyone.com>

DATE SAMPLED	LAB RECEIVED	DATE PRINTED	LAB USE
	02/03/09	02/11/09	.926
ADDITIONAL DESCRIPTIONS			
PHWS3A			

FLOWER CITY MUSHROOMS LLC
535 FIVE POINTS RD
RUSH, NY 14543

COMMENTS

This sample was tested twice for % WSC to confirm the value listed.

KIND DESCRIPTION	CODE	LAB SAMPLE
MISC., DRY	660	13403920
DESCRIPTION 1		
ANALYSIS RESULTS		
COMPONENTS	AS SAMPLED BASIS	DRY MATTER BASIS
% Moisture	7.4	
% Dry Matter	92.6	
% Acid Detergent Fiber	53.5	57.8
% Neutral Detergent Fiber	64.3	69.5
% Lignin	9.3	10.1
% WSC (Water Sol. Carbs.)	1.9	2.1



Dairy One

FORAGE LABORATORY

730 Warren Road, Ithaca, NY 14850
Ph: 800.496.3344 Fax: 607.257.1350
<http://www.dairyone.com>

DATE SAMPLED	LAB RECEIVED	DATE PRINTED	LAB USE
	02/03/09	02/11/09	.910
PHWS3B			
ADDITIONAL DESCRIPTIONS			

FLOWER CITY MUSHROOMS LLC
535 FIVE POINTS RD
RUSH, NY 14543

COMMENTS

This sample was tested twice for % WSC to confirm the value listed.

KIND DESCRIPTION	CODE	LAB SAMPLE
MISC., DRY	660	13403910
DESCRIPTION 1		
ANALYSIS RESULTS		
COMPONENTS	AS SAMPLED BASIS	DRY MATTER BASIS
% Moisture	9.0	
% Dry Matter	91.0	
% Acid Detergent Fiber	36.5	40.1
% Neutral Detergent Fiber	54.2	59.6
% Lignin	10.3	11.4
% WSC (Water Sol. Carbs.)	4.2	4.6

Appendix I

Lab Analysis

Post-hydrolysis Sawdust (extract)



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

 |Sampled | Recvd | Printed | ST | CO |
 | | | 03/25/08 | 03/27/08 | | |

SD3A
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

 |Sample Description | Farm | Code | Sample |
 |MISC., Dry | | 660 | 12249600 |

 Analysis Results

Components	As Fed	DM
% Moisture	97.2	
% Dry Matter	2.8	
% WSC (Water Sol. Carbs.)	.6	19.9



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

 |Sampled | Recvd | Printed |ST|CO|
 | | |03/25/08|03/27/08| | |

SD3B
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

Sample Description	Farm	Code	Sample
MISC., Dry		660	12249610
Analysis Results			
Components	As Fed	DM	
% Moisture	96.7		
% Dry Matter	3.3		
% WSC (Water Sol. Carbs.)	.9	26.9	

Appendix J

Lab Analysis

Post-hydrolysis

Wheat Straw

(extract)



Dairy One

FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

Sampled	Recvd	Printed	ST	CO
	03/25/08	03/27/08		

WS3A
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

Sample Description	Farm Code	Sample
MISC., <i>Dry Enzyme</i>	660	12249580
Analysis Results		
Components	As Fed	DM
% Moisture	97.2	
% Dry Matter	2.8	
% WSC (Water Sol. Carbs.)	.6	20.1



FORAGE TESTING LABORATORY
 DAIRY ONE, INC.
 730 WARREN ROAD
 ITHACA, NEW YORK 14850
 607-257-1272 (fax 607-257-1350)

 |Sampled | Recvd | Printed | ST | CO |
 | | | 03/25/08 | 03/27/08 | | |

WS3B
 FLOWER CITY MUSHROOMS LLC
 535 FIVE POINTS RD
 RUSH, NY 14543

 |Sample Description | Farm | Code | Sample |
 |MISC., *Dry Silage* | | 660 | 12249590 |

Analysis Results

Components	As Fed	DM
% Moisture	96.8	
% Dry Matter	3.2	
% WSC (Water Sol. Carbs.)	.7	22.3

Appendix K

Alcohol Fuel Producers Permit

DEPARTMENT OF THE TREASURY
ALCOHOL AND TOBACCO TAX AND TRADE BUREAU

**ALCOHOL FUEL PRODUCER PERMIT
UNDER 26 U.S.C. 5181**

1. EFFECTIVE DATE

SEP 10 2007

2. PERMIT NUMBER

AFP-NY-15039

3. OWNER NAME/OPERATING NAME/PLANT PREMISES ADDRESS

John Morelli
535 Five Points Road
Rush, NY 14543

4. DATE OF APPLICATION

July 25, 2007

5. DATE OF AMENDMENT

6. ORIGINAL PERMIT
 AMENDED PERMIT

7. REASON(S) FOR AMENDMENT

8. PLANT SIZE

SMALL (10,000 Proof Gallons or less*)
 MEDIUM (10,001 – 500,000 Proof Gallons*)
 LARGE (More than 500,000 Proof Gallons*)

*Produced and received in a single calendar year

Pursuant to the application submitted on TTB F 5110.74, Application for an Alcohol Fuel Producer, and subject to applicable law and regulations and to the conditions set forth below the permittee identified above is hereby authorized and permitted at the premises described above to produce, process and store, and use or distribute distilled spirits (*Not including distilled spirits produced from petroleum, natural gas or coal*) exclusively for fuel use. The quantity to be produced and received during a calendar year may not exceed the quantity authorized by this permit.

This permit is continuing, and will remain in force until suspended, revoked, voluntarily surrendered, or automatically terminated. This permit does not authorize operations in violation of State or local laws.

THIS PERMIT IS NOT TRANSFERABLE. In the event of any lease, sale, or other transfer of the operations authorized, or of any other change in the ownership or control of such operations, this permit shall automatically terminate. (See 27 CFR 19.920)

9. SIGNATURE


DIRECTOR, NATIONAL REVENUE CENTER, ALCOHOL AND TOBACCO TAX AND TRADE BUREAU (TTB)

CONDITIONS

1. That the permittee in good faith complies with the provisions of Chapter 51 of Title 26 of the United States Code and regulations issued thereunder.
2. That the permittee has made no false statements as to any material fact in his application for this permit.
3. That the permittee discloses all of the material information required by law and regulation.
4. That the permittee shall not violate or conspire to violate any law of the United States relating to intoxicating liquor and shall not be convicted of any offense which is punishable under Title 26 of the United States Code as a felony or of any conspiracy to commit such an offense.
5. That all persons employed by the permittee in good faith observe and conform to all of the terms and conditions of this permit.
6. That the permittee at no time allows a period of 2 years or more to pass without conducting any authorized operations.
7. That the permittee fully complies with the Clean Water Act (33 U.S.C. 1341(a)).