

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

7 Sample-Pairs Incomplete below; Scroll down for 20 completed pairs of 19 species (2 pairs W Ash), & Fresh/Ensiled Comparison plus discussion. Data to Jan 1, 2025 (will add to, summer 2025).

Samp ID	Barrel	Harvest Date	Harvest Site, Species (7)	% Moisture	% DM	Crude P %DM	Avail Protein	ADICP	Adj Cr. Protein	Sol P %CP	Sol P %DM	Degr P %CP	Degr P %DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM
PE21	Bucket	07/01/23	MOFGA PIN CHERRY ENSEILED	66.2	33.8	17	11.5	5.5	12.5	14	2.38	18	3.06	27.8	33.5	37.8	5.9
PE22	Bucket	7/5-6/23	MOFGA AUTUMN OLIVE ENSEILED	60.7	39.3	21	16.6	4.3	17.6	23	4.83	50	10.5	33.7	52.3	17.9	5.6
A6	#21	07/13/23	MOFGA QUAKING ASPEN ENSEILED	59.9	40.1	13.6	9.5	4.1	10.5	9	1.224 failed			20	29.1		18
N#1	Qt bag	06/24/24	BB FIELD STRIPED MAPLE FRESH	75.2	24.8	15.9			15.9					23.6	35.8	38	9.4
N#2	Qt bag	06/25/24	N#2 YKF STAGHORN SUMAC FRESH	66.7	33.3	14.9			14.9					16.9	22.9	52.2	27
N#3	Qt bag	6/28-29/24	N#3 FVF BITTERSWEET FRESH*	76	24	17			17					25.4	36.5	31.5	8.6
* Bittersweet was/is not in our initial plan. This was hand-stripped. Will try with machine next summer.																	
N#4	Qt bag	06/30/24	N#4 FVF MULTI-FLORA ROSE FRESH	76.7	23.3	14.1			14.1					21.7	32.7	41.1	17.8

*Missing 3 fresh samples: Autumn Olive, Pin Cherry (sent for Cyanide), Q Aspen

*Missing 3 Entire Pairs: Pagoda Dogwood, Hybrid Willow, White Birch

Missing 3ensiled samples: Striped Maple, Staghorn Sumac, Multiflora Rose** (**Bittersweet was not planned; may also do matched pair next summer if machine-separable.)

DIFFS, Ensiled minus Fresh			% Moisture	% DM	%DM Crude P	Adj Cr. Protein	Sol P %CP	Sol P %DM	Degrble P %CP	Degrble P %DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM	Cr Fat %DM	Ash %DM
Harvest Date	Harvest Site, Species (19)															
07/11/23	MOFGA GRAY BIRCH		3.2	-3.2	-0.1						-1.6	-1.1	0	2.8	-7.8	0
09/18/23	YKF WHITE ASH		-1.7	1.7	-0.4	-4.7	5	0.48	2	0.14	-0.5	-1.4	1.5	-0.9	1.3	0.33
10/06/23	FVF WHITE ASH		1.3	-1.3	0.5	-1.2	13	1.29			1.5	1.6		1		
10/4-6/22	LAUFERS RED OAK		1.8	-1.8	1.2						0	3.4	-4.8	-3.1	0.7	0.5
06/27/23	MOFGA BLACK CHERRY ENSEILED		0.8	-0.8	0.1	8.7	4.4	0.41	0	0.02	1.7	0.8	-1.2	-1.8	0.5	1
06/26/23	MOFGA BOX ELDER		0.9	-0.9	2.3	1.2	2	0.76	0	0.94	0.3	-0.2	-3.8	-2	1.3	0.33
10/04/23	FVF BLACK LOCUST		-0.8	0.8	2.3	-6.3	-2	-0.32	-5	-0.81	1.1	0.4	-1.7	-4.7	0.7	0.5
09/29/23	FVF BASSWOOD		2.6	-2.6	0.4						0.8	2.7	-4.7	-5.9	0.5	1
06/25/23	MOFGA ARROW WOOD		2.9	-2.9	0.8	-5.6	3	0.48	-3	-0.20	4.8	6.7	-7.2	-4.3	0	-0.24
6/25-26/23	MOFGA HONEYSUCKLE		5.9	-5.9	3.8	-1.4	0	0.49	-23	-1.60	1	-1.2	0	-9.3	-5.2	-6.89
10/01/23	FVF AMERICAN ELM		0.6	-0.6	1						0.6	0.6	-2.2	-4	0.2	0.49
07/01/23	MOFGA ROCK MAPLE		5.7	-5.7	-0.4						4.3	2.7	-2.9	-8.7	0.7	-0.04
10/01/23	YKF NORWAY MAPLE HAND-STR.		5.5	-5.5	0.8						0.4	1.8	-3.7	-4.5	1	0.31
7/20-21/23	MOFGA BEECH FRESH		3.6	-3.6	0.3	-3.2	-1	-0.11	-8	-0.91	5	4.4	-4	-4.9	-0.6	-0.1
09/07/23	YKF SMOOTH BUCKTHORN		0.8	-0.8	1.1						5.6	6.4	-8.4	-8.8	0.7	0.3
09/15/23	YKF WINTERBERRY		1.7	-1.7	0.9	-3.6	6	0.81	-9	-0.84	3.8	5.8	-7.5	-5.6	0.2	0.5
10/11/23	YKF BIG TOOTHED ASPEN		1.5	-1.5	1.1	-3.5	5	0.68	2	0.39	1.1	1.1	0	-2.2	-8.1	-5.07
09/14/23	YKF LEATHER WOOD		-0.7	0.7	-0.8	-5.1	1	0.06	-17	-1.69	5.4	6.7	-6.6	-2.6	0.6	0.11
06/30/23	MOFGA GREEN ASH		4.8	-4.8	1.3	-8.2	8	1.43	3	0.76	9.2	5.4	-9.2	-2.8	0.9	1.54
09/29/22	2022 YKF RED MAPLE POLLARD		2.2	-2.2	0.1						1.8	2.5	-3.4	-5	0.7	0.03

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DIFFS, Ensiled minus Fresh

	% Moisture	%DM % DM	%DM Crude P	Adj Cr. Protein	Sol P %CP	Sol P %DM	Degrble P %CP	Degrble P %DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM	Cr Fat %DM	Ash %DM
AVERAGE DIFF Ensiled minus Fresh	2.13	-2.13	0.82	-2.74	3.70	0.54	-5.27	-0.34	2.32	2.46	-3.67	-3.87	-0.62	-0.28
MINIMUM DIFF Ensiled minus Fresh	-1.7	-5.9	-0.8	-8.2	-2	-0.32	-23.00	-1.69	-1.6	-1.4	-9.2	-9.3	-8.1	-6.89
MAXIMUM DIFF Ensiled minus Fresh	5.9	1.7	3.8	8.7	13	1.43	3.00	0.94	9.2	6.7	1.5	2.8	1.3	1.54
RANGE of DIFF Ensiled minus Fresh	7.6	7.6	4.6	16.9	15	1.75	26.00	2.63	10.8	8.1	10.7	12.1	9.4	8.43

Samp ID	Barrel	Harvest Date	Harvest Site, Species (19)	% Moisture	%DM % DM	%DM Crude P	Avail Protein	ADICP	Adj Cr. Protein	Sol P %CP	Sol P %DM	Degr P %CP	Degr P %DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM
PF2	Qt bag	10/4 & -6/22	LAUFERS RED OAK FRESH	48.3	51.7	12								30.5	48.1	29.3	8.3
PE2	Bucket	10/4 & -6/22	LAUFERS RED OAK ENSILED	50.1	49.9	13.2	8.8	4.3						30.5	51.5	24.5	5.2
			Diff Ensiled minus Fresh	1.8	-1.8	1.2								0	3.4	-4.8	-3.1
PF13	Qt bag	7/20-21/23	MOFGA BEECH FRESH	48.9	51.1	12.3			12.3	5	0.62	33.00	4.06	31	52.6	27.2	7.7
PE13	Bucket	7/20-21/23	MOFGA BEECH ENSILED	52.5	47.5	12.6	8.1	4.5	9.1	4	0.50	25.00	3.15	36	57	23.2	2.8
			Diff Ensiled minus Fresh	3.6	-3.6	0.3			-3.2	-1	-0.11	-8.00	-0.91	5	4.4	-4	-4.9
PF16B	Qt bag	10/11/23	YKF BIG TOOTHED ASPEN FRESH	56.4	43.6	9.8			9.8	12	1.18	16.00	1.57	27.1	38.8	38.3	14
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSILED	57.9	42.1	10.9	5.3	5.6	6.3	17	1.85	18.00	1.96	28.2	39.9		11.8
			Diff Ensiled minus Fresh	1.5	-1.5	1.1			-3.5	5	0.68	2.00	0.39	1.1	1.1	-38.3	-2.2
PF1	Qt bag	09/18/23	YKF WHITE ASH FRESH	66.6	33.4	11			11	13	1.43	19.00	2.09	25.3	36.4	42.1	7.9
PE1	Qt bag	09/18/23	YKF WHITE ASH ENSILED	64.9	35.1	10.6	5.3	5.3	6.3	18	1.91	21.00	2.23	24.8	35	43.6	7
			Diff Ensiled minus Fresh	-1.7	1.7	-0.4			-4.7	5	0.48	2.00	0.14	-0.5	-1.4	1.5	-0.9
PF20	Qt bag	10/06/23	FVF WHITE ASH FRESH	59.8	40.2	8.8			8.8	17	1.50	32.00	2.82	24.9	37.8	39.7	7.2
	#10 FVI	10/06/23	FVF WHITE ASH ENSILED	61.1	38.9	9.3	6.6	2.7	7.6	30	2.79	failed		26.4	39.4		8.2
			Diff Ensiled minus Fresh	1.3	-1.3	0.5			-1.2	13	1.29			1.5	1.6		1
PF18	Qt bag	06/30/23	MOFGA GREEN ASH FRESH	56.1	43.9	15.4			15.4	7	1.08	20.00	3.08	26.9	43.3	32.1	8.3
PE18	Bucket	06/30/23	MOFGA GREEN ASH ENSILED	60.9	39.1	16.7	6.2	10.5	7.2	15	2.51	23.00	3.84	36.1	48.7	22.9	5.5
			Diff Ensiled minus Fresh	4.8	-4.8	1.3			-8.2	8	1.43	3.00	0.76	9.2	5.4	-9.2	-2.8
PF3	Qt bag	06/27/23	MOFGA BLACK CHERRY FRESH	67	33	13.1			13.1	17	2.23	21.00	2.75	29.3	38.3	38.1	7.9
PE3	Bucket	06/27/23	MOFGA BLACK CHERRY ENSILED	67.8	32.2	13.2	8.7	4.4	9.7	20	2.64	21.00	2.77	31	39.1	36.9	6.1
			Diff Ensiled minus Fresh	0.8	-0.8	0.1			-3.4	3	0.41	0.00	0.02	1.7	0.8	-1.2	-1.8
PF4	Qt bag	07/11/23	MOFGA GRAY BIRCH FRESH	58.8	41.2	14.1			14.1					30.7	43	31.3	6.8
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSILED	62	38	14	10.2	3.8			failed		54	29.1	41.9		9.6
			Diff Ensiled minus Fresh	3.2	-3.2	-0.1								-1.6	-1.1		2.8
PF19	Qt bag	09/29/22	2022 YKF RED MAPLE POLLARD FRESH	54.6	45.4	10.9					failed		failed	16.8	25.1	50.2	18
PE19	Bucket	09/29/22	2022 YKF RED MAPLE POLLARD ENSILED	56.8	43.2	11	8.6	2.4			failed		failed	18.6	27.6	46.8	13
			Diff Ensiled minus Fresh	2.2	-2.2	0.1								1.8	2.5	-3.4	-5
PF11	Qt bag	07/01/23	MOFGA ROCK MAPLE FRESH	48	52	11					failed		failed	18.7	32.5	49.5	20.1
PE11	Bucket	07/01/23	MOFGA ROCK MAPLE ENSILED	53.7	46.3	10.6	6.5	4.1	7.5	9	0.95	29.00	3.07	23	35.2	46.6	11.4
			Diff Ensiled minus Fresh	5.7	-5.7	-0.4								4.3	2.7	-2.9	-8.7

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Samp ID	Barrel	Harvest Date	Harvest Site, Species (19)	% Moisture		Crude P %DM	Avail Protein	ADICP	Adj Cr. Protein	Sol P %CP	Sol P %DM	Degr P %CP	Degr P %DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM
				%DM	%DM												
PF12	Qt bag	10/01/23	YKF NORWAY MAPLE HAND-STR. FRESH	55.3	44.7	12				failed		failed		23.6	41	33.3	9.3
PE12	Bucket	10/01/23	YKF NORWAY MAPLE HAND-STR. ENSILED	60.8	39.2	12.8	9.2	3.6		failed		failed		24	42.8	29.6	4.8
			Diff Ensiled minus Fresh	5.5	-5.5	0.8								0.4	1.8	-3.7	-4.5
PF5	Qt bag	06/26/23	MOFGA BOX ELDER FRESH	76.9	23.1	13.8			13.8	19	2.62	41.00	5.66	23	32.5	43.3	6.8
PE5	Bucket	06/26/23	MOFGA BOX ELDER ENSILED	77.8	22.2	16.1	14	2.1	15	21	3.38	41.00	6.60	23.3	32.3	39.5	4.8
			Diff Ensiled minus Fresh	0.9	-0.9	2.3			1.2	2	0.76	0.00	0.94	0.3	-0.2	-3.8	-2
PF6	Qt bag	10/04/23	FVF BLACK LOCUST FRESH	59.3	40.7	17.1			17.1	14	2.39	26.00	4.45	25.5	36.9	37.4	10
PE6	Qt bag	10/04/23	FVF BLACK LOCUST ENSILED	58.5	41.5	17.3	9.8	7.5	10.8	12	2.08	21.00	3.63	26.6	37.3	35.7	5.3
			Diff Ensiled minus Fresh	-0.8	0.8	0.2			-6.3	-2	-0.32	-5.00	-0.81	1.1	0.4	-1.7	-4.7
PF7	Qt bag	09/29/23	FVF BASSWOOD FRESH	65	35	19.4					failed		failed	24	42.6	21.6	9.5
PE7	Qt bag	09/29/23	FVF BASSWOOD ENSILED	67.6	32.4	19.8	16.2	3.7		15	2.97	failed		24.8	45.3	16.9	3.6
			Diff Ensiled minus Fresh	2.6	-2.6	0.4								0.8	2.7	-4.7	-5.9
PF10	Qt bag	10/01/23	FVF AMERICAN ELM FRESH	62.5	37.5	11.1					failed		failed	23.1	53.4	18.4	8.3
PE10	Qt bag	10/01/23	FVF AMERICAN ELM ENSILED	63.1	36.9	12.1	7.9	4.2		failed		failed		23.7	54	16.2	4.3
			Diff Ensiled minus Fresh	0.6	-0.6	1								0.6	0.6	-2.2	-4
PF9	Qt bag	6/25-26/23	MOFGA HONEYSUCKLE FRESH	68.7	31.3	11.1			11.1	13	1.44	48.00	5.33	29.9	45	31.8	13.6
C15	Bucket	06/25/24	MOFGA HONEYSUCKLE ENSILED	74.6	25.4	14.9	8.7	6.2	9.7	13	1.94	25.00	3.73	30.9	43.8		4.3
	Qt bag		Diff Ensiled minus Fresh	5.9	-5.9	3.8			-1.4	0	0.49	-23.00	-1.60	1	-1.2	-31.8	-9.3
PF14	Qt bag	09/07/23	YKF SMOOTH BUCKTHORN FRESH	67.4	32.6	14.3					failed		failed	20.3	32.5	39.8	15.3
PE14	Bucket?	09/07/23	YKF SMOOTH BUCKTHORN ENSILED	68.2	31.8	15.4	12.4	3		failed		failed		25.9	38.9	31.4	6.5
			Diff Ensiled minus Fresh	0.8	-0.8	1.1								5.6	6.4	-8.4	-8.8
PF15	Qt bag	09/15/23	YKF WINTERBERRY FRESH	56.5	43.5	11.7			11.7	6	0.70	33.00	3.86	27.6	43.4	34.5	9.6
PE15	Bucket	09/15/23	YKF WINTERBERRY ENSILED	58.2	41.8	12.6	7.1	5.5	8.1	12	1.51	24.00	3.02	31.4	49.2	27	4
			Diff Ensiled minus Fresh	1.7	-1.7	0.9			-3.6	6	0.81	-9.00	-0.84	3.8	5.8	-7.5	-5.6
PF17	Qt bag	09/14/23	YKF LEATHER WOOD FRESH	54.8	45.2	9.5			9.5	4	0.38	26.00	2.47	27	36.5	40.9	16.5
PE17	Bucket?	09/14/23	YKF LEATHERWOOD ENSILED	54.1	45.9	8.7	3.4	5.3	4.4	5	0.44	9.00	0.78	32.4	43.2	34.3	13.9
			Diff Ensiled minus Fresh	-0.7	0.7	-0.8			-5.1	1	0.06	-17.00	-1.69	5.4	6.7	-6.6	-2.6
PF8	Qt bag	06/25/23	MOFGA ARROW WOOD FRESH	60.9	39.1	12			12	12	1.44	23.00	2.76	31.4	43	32.5	9.4
PE8	Bucket	06/25/23	MOFGA ARROW WOOD ENSILED	63.8	36.2	12.8	5.4	7.4	6.4	15	1.92	20.00	2.56	36.2	49.7	25.3	5.1
			Diff Ensiled minus Fresh	2.9	-2.9	0.8			-5.6	3	0.48	-3.00	-0.20	4.8	6.7	-7.2	-4.3

SP went up by 32% with ensiling, on average across the 12 species on which we had full results*, and including exceptions of Black Locust and Beech, which had less when ensiled, and Honeysuckle which RDP went down in 6 pairs, up in 3, and stayed the same in 2. High intra-species variance invalidates any summary of RDP (see "ALL ensiled Samples" spreadsheet). *8 species had failed RDP tests on on

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Samp ID	Barrel	Harvest Date	Harvest Site, Species	Moisture	DM	Crude P	Avail		Adj Crude		Solub P		Degrble P		% Crude			
							Protein	ADICP	Protein	% CP	% CP	ADF	NDF	NFC	%WSC	Fat EE	Ash	
PF4		07/11/23	MOFGA GRAY BIRCH FRESH	58.8	41.2	14.1			14.1				30.7	43	31.3	6.8	7.8	3.74
PF1		09/18/23	YKF WHITE ASH FRESH	66.6	33.4	11			11	13	19		25.3	36.4	42.1	7.9	4.5	5.9
PF20		10/06/23	FVF WHITE ASH FRESH	59.8	40.2	8.8			8.8	17	32		24.9	37.8	39.7	7.2	6.6	7.01
PF2		10/4-6/22	LAUFERS RED OAK FRESH	48.3	51.7	12							30.5	48.1	29.3	8.3	3.2	5.26
PF3		06/27/23	MOFGA BLACK CHERRY FRESH	67	33	13.1			13.1	17	21		29.3	38.3	38.1	7.9	6.4	10.02
PF5		06/26/23	MOFGA BOX ELDER FRESH	76.9	23.1	13.8			13.8	19	41		23	32.5	43.3	6.8	4.5	5.9
PF6		10/04/23	FVF BLACK LOCUST FRESH	59.3	40.7	17.1			17.1	14	26		25.5	36.9	37.4	10	3.2	5.26
PF7		09/29/23	FVF BASSWOOD FRESH	65	35	19.4			failed	failed			24	42.6	21.6	9.5	6.4	10.02
PF8		06/25/23	MOFGA ARROW WOOD FRESH	60.9	39.1	12			12	12	23		31.4	43	32.5	9.4	6.4	6.08
PF9		6/25-26/23	MOFGA HONEYSUCKLE FRESH	68.7	31.3	11.1			11.1	13	48		29.9	45	31.8	13.6	5.2	6.89
PF10		10/01/23	FVF AMERICAN ELM FRESH	62.5	37.5	11.1			failed	failed			23.1	53.4	18.4	8.3	5.1	11.99
PF11		07/01/23	MOFGA ROCK MAPLE FRESH	48	52	11			failed	failed			18.7	32.5	49.5	20.1	3.2	3.75
PF12		10/01/23	YKF NORWAY MAPLE HAND-STR. FRESH	55.3	44.7	12			failed	failed			23.6	41	33.3	9.3	6.4	7.19
PF13		7/20-21/23	MOFGA BEECH FRESH	48.9	51.1	12.3			12.3	5	33		31	52.6	27.2	7.7	3.7	4.19
PF14		09/07/23	YKF SMOOTH BUCKTHORN FRESH	67.4	32.6	14.3			failed	failed			20.3	32.5	39.8	15.3	6.3	7.06
PF15		09/15/23	YKF WINTERBERRY FRESH	56.5	43.5	11.7			11.7	6	33		27.6	43.4	34.5	9.6	5.9	4.58
PF16B		10/11/23	YKF BIG TOOTHED ASPEN FRESH	56.4	43.6	9.8			9.8	12	16		27.1	38.8	38.3	14	8.1	5.07
PF17		09/14/23	YKF LEATHER WOOD FRESH	54.8	45.2	9.5			9.5	4	26		27	36.5	40.9	16.5	7.4	5.68
PF18		06/30/23	MOFGA GREEN ASH FRESH	56.1	43.9	15.4			15.4	7	20		26.9	43.3	32.1	8.3	4	5.23
PF19		09/29/22	2022 YKF RED MAPLE POLLARD FRESH	54.6	45.4	10.9			failed	failed			16.8	25.1	50.2	18	9.1	4.79
			Fresh aves	59.59	40.41	12.52			12.28	11.58	28.17		25.83	40.14	35.57	10.73	5.67	6.28

Samp ID	Barrel	Harvest Date	Harvest Site, Species	Moisture	DM	Crude P	Avail		Adj Crude		Solub P		Degrble P		% Crude			
							Protein	ADICP	Protein	% CP	% CP	ADF	NDF	NFC	%WSC	Fat EE	Ash	
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSILED	62	38	14	10.2				failed		54	29.1	41.9	9.6	not req	not req
PE1		09/18/23	YKF WHITE ASH ENSILED	64.9	35.1	10.6	5.3	5.3	6.3	18	21		24.8	35	43.6	7	5.8	6.23
PE2		10/4-6/22	LAUFERS RED OAK ENSILED	50.1	49.9	13.2	8.8	4.3					30.5	51.5	24.5	5.2	3.9	5.76
PE3		06/27/23	MOFGA BLACK CHERRY ENSILED	67.8	32.2	13.2	8.7	4.4	9.7	20	21		31	39.1	36.9	6.1	6.9	11.02
PE5		06/26/23	MOFGA BOX ELDER ENSILED	77.8	22.2	16.1	14	2.1	15	21	41		23.3	32.3	39.5	4.8	5.8	6.23
PE6		10/04/23	FVF BLACK LOCUST ENSILED	58.5	41.5	17.3	9.8	7.5	10.8	12	21		26.6	37.3	35.7	5.3	3.9	5.76
PE7		09/29/23	FVF BASSWOOD ENSILED	67.6	32.4	19.8	16.2	3.7			15	failed	24.8	45.3	16.9	3.6	6.9	11.02
PE8		06/25/23	MOFGA ARROW WOOD ENSILED	63.8	36.2	12.8	5.4	7.4	6.4	15	20		36.2	49.7	25.3	5.1	6.4	5.84
C15	Bucket	06/25/24	MOFGA HONEYSUCKLE ENSILED	74.6	25.4	14.9	8.7	6.2	9.7	13	25		30.9	43.8		4.3	not req	not req
PE10		10/01/23	FVF AMERICAN ELM ENSILED	63.1	36.9	12.1	7.9	4.2			failed	failed	23.7	54	16.2	4.3	5.3	12.48
PE11		07/01/23	MOFGA ROCK MAPLE ENSILED	53.7	46.3	10.6	6.5	4.1	7.5	9	29		23	35.2	46.6	11.4	3.9	3.71
PE12		10/01/23	YKF NORWAY MAPLE HAND-STR. ENSILED	60.8	39.2	12.8	9.2	3.6			failed	failed	24	42.8	29.6	4.8	7.4	7.5
PE13		7/20-21/23	MOFGA BEECH ENSILED	52.5	47.5	12.6	8.1	4.5	9.1	4	25		36	57	23.2	2.8	3.1	4.09
PE14		09/07/23	YKF SMOOTH BUCKTHORN ENSILED	68.2	31.8	15.4	12.4	3			failed	failed	25.9	38.9	31.4	6.5	7	7.36

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Barrel	Harvest Date	Harvest Site, Species	Moisture	DM	Crude P	Avail Protein	ADICP	Adj Crude Protein	Solub P %DM	Degrble P %DM	ADF	NDF	NFC	%WSC	Fat EE	Ash
PE15		09/15/23	YKF WINTERBERRY ENSILED	58.2	41.8	12.6	7.1	5.5	8.1	12	24	31.4	49.2	27	4	6.1	5.08
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSILED	57.9	42.1	10.9	5.3	5.6	6.3	17	18	28.2	39.9		11.8	not req	not req
PE17		09/14/23	YKF LEATHERWOOD ENSILED	54.1	45.9	8.7	3.4	5.3	4.4	5	9	32.4	43.2	34.3	13.9	8	5.79
PE18		06/30/23	MOFGA GREEN ASH ENSILED	60.9	39.1	16.7	6.2	10.5	7.2	15	23	36.1	48.7	22.9	5.5	4.9	6.77
PE19		09/29/22	2022 YKF RED MAPLE POLLARD ENSILED	56.8	43.2	11	8.6	2.4	failed	failed		18.6	27.6	46.8	13	9.8	4.82
	#10 FVI	10/06/23	FVF WHITE ASH ENSILED	61.1	38.9	9.3	6.6	2.7	7.6	30	failed	26.4	39.4		8.2	not req	not req
			Ensilaged aves	61.72	38.28	13.23	8.42	4.81	8.32	14.71	25.46	28.15	42.59	31.28	6.86	5.94	6.84

	Moisture	DM	Crude P	Avail Protein	ADICP	Adj Crude Protein	Solub P %CP	Solub P %DM	Degrble P %CP	Degrble P %DM	ADF	NDF	NFC	%WSC
Fresh aves	59.59	40.41	12.52			12.28	11.58	1.45	28.17	3.53	25.83	40.14	35.57	10.73
Ensilaged aves	61.72	38.28	13.23	8.42	4.81	8.32	14.71	1.95	25.46	3.37	28.15	42.59	31.28	6.86

a bit wetter ensiled a bit more Crude Protein ensiled WSC down 36%

Harvest Date	Harvest Site, Species	fat ee ensiled	fat ee fresh	Ensilaged SP %DM averaged 103% of Fresh ave.	Ensilaged Degr P %DM averaged 95% of Fresh ave.	less NFC ensiled, way less WSC ensiled, quite a bit more Fat EE ensiled.
07/11/23	MOFGA GRAY BIRCH	not req	7.8			
09/18/23	YKF WHITE ASH	5.8	4.5			
10/4 & -6/22	LAUFERS RED OAK	3.9	3.2			
06/27/23	MOFGA BLACK CHERRY	6.9	6.4			
06/26/23	MOFGA BOX ELDER	5.8	4.5			
10/04/23	FVF BLACK LOCUST	3.9	3.2			
09/29/23	FVF BASSWOOD	6.9	6.4			
06/25/23	MOFGA ARROW WOOD	6.4	6.4 same			
6/25-26/23	MOFGA HONEYSUCKLE	not req	5.2			
10/01/23	FVF AMERICAN ELM	5.3	5.1			
07/01/23	MOFGA ROCK MAPLE	3.9	3.2			
10/01/23	YKF NORWAY MAPLE HAND-STR.	7.4	6.4			
7/20-21/23	MOFGA BEECH FRESH	3.1	3.7	.6 lower ensiled		
09/07/23	YKF SMOOTH BUCKTHORN	7	6.3			
09/15/23	YKF WINTERBERRY	6.1	5.9			
10/11/23	YKF BIG TOOTHED ASPEN	not req	8.1	BT aspen fresh very high; no figure for ensiled		
09/14/23	YKF LEATHER WOOD	8	7.4			
06/30/23	MOFGA GREEN ASH	4.9	4			
09/29/22	2022 YKF RED MAPLE POLLARD	9.8	9.1			
9/18/23 & 10/06/23	YKF & FVF WHITE ASH	not req	6.6	(.58 higher ave ensiled)		
	Complete pairs only, averages:	5.94	5.36	Fat EE went up 11% from ensiling		

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Barrel	Harvest Date		Cr %DM	Fat %DM	Ash	TDN	NEL	NEM	NEG	RFV	Calcium	Phosp	Magne	Potas	Sodiu	Iron	Zinc	Copper	ppm			
																				Mang	Molyb	Sulfur	
PE21	Bucke	07/01/23	MOFGA PIN CHERRY ENSEILED	5.9	5.76	66	0.73	0.71	0.43	187	0.96	0.33	0.28	1.4	0.008	86	29			6	54	0.5	0.15
PE22	Bucke	7/5-6/23	MOFGA AUTUMN OLIVE ENSEILED	3.1	5.68	59	0.58	0.56	0.3	111	0.7	0.18	0.12	1.98	0.009	106	23			9	295	0.3	0.21
A6	#21	07/13/23	MOFGA QUAKING ASPEN ENSEILED	not req	not re	63	0.68	0.64	0.37	234	1.04	0.25	0.25	0.88	0.009	44	150			7	112	0	0.16
N#1	Qt baç	06/24/24	BB FIELD STRIPED MAPLE FRESH	5.5	4.73	71	0.76	0.76	0.48	183	0.74	0.3	0.24	1.29	0.004	87	21			6	1700	0	
N#2	Qt baç	06/25/24	N#2 YKF STAGHORN SUMAC FRESH	5.1	4.92	74	0.83	0.82	0.53	308	0.64	0.32	0.16	1.64	0.003	57	24			4	26	1.1	
N#3	Qt baç	6/28-29/24	N#3 FVF BITTERSWEET FRESH	6.3	8.72	67	0.73	0.72	0.45	176	1.37	0.23	0.46	2.3	0.005	94	17			3	31	0	
N#4	Qt baç	06/30/24	N#4 FVF MULTI-FLORA ROSE FRESH	4.4	7.74	67	0.73	0.7	0.43	205	1.17	0.24	0.3	2.06	0.005	180	17			8	113	0.1	

DIFFS, Ensiled minus Fresh

Harvest Date	Harvest Site, Species (19)	TDN	NEL	NEM	NEG	pH	ME 1X lb	ME 1X kg	Mcal/k	A % CP	B % CP	C % CP	Kd	CP
07/11/23	MOFGA GRAY BIRCH	-13	-0.15	-0.22	-0.2	-0.1	-0.28	-0.6	-13	0	0	0	0	0
09/18/23	YKF WHITE ASH	-3	-0.02	-0.04	-0.04	-0.5	-0.1	-0.21	-3	0	0	0	0	0
10/06/23	FVF WHITE ASH	-8	-0.11	-0.15	-0.14	-0.1	-0.18	-0.39	-8	0	0	0	0	0
10/4-6/22	LAUFERS RED OAK	0	0	1	-7	-0.2	-0.08	-0.19	-4	-0.19	-4	0	0	0
06/27/23	MOFGA BLACK CHERRY ENSEILED	0	0	0	2	0.1	-0.08	-0.17	-3	-0.17	-3	0	0	0
06/26/23	MOFGA BOX ELDER	1	0.01	0.02	0.02	0.1	0.02	0.04	1	0	0	0	0	0
10/04/23	FVF BLACK LOCUST	-6	-0.06	-0.09	-0.08	0	-0.15	-0.33	-6	0	0	0	0	0
09/29/23	FVF BASSWOOD	-4	-0.04	-0.05	-0.04	-0.7	-0.08	-0.16	-4	0	0	0	0	0
06/25/23	MOFGA ARROW WOOD	-8	-0.11	-0.12	-0.11	-0.4	-0.19	-0.42	-8	0	0	0	0	-0.99
6/25-26/23	MOFGA HONEYSUCKLE	-8	-0.1	-0.14	-0.13	-0.1	-0.18	-0.39	-8	-1	0	0	0	0
10/01/23	FVF AMERICAN ELM	-4	-0.04	-0.06	-0.05	-0.1	-0.08	-0.18	-4	-1	0	0	0	0
07/01/23	MOFGA ROCK MAPLE	-3	-0.04	-0.05	-0.04	-0.2	-0.09	-0.19	-3	0	0	0	0	0
10/01/23	YKF NORWAY MAPLE HAND-STR.	-3	-0.02	-0.03	-0.02	-0.4	-0.05	-0.12	-3	0	0	0	0	0
7/20-21/23	MOFGA BEECH FRESH	-5	-0.08	-0.09	-0.08	0.3	-0.13	-0.28	-5	0	0	0	0	0
09/07/23	YKF SMOOTH BUCKTHORN	-3	-0.05	-0.05	-0.05	0.1	-0.06	-0.14	-3	0	0	0	0	0
09/15/23	YKF WINTERBERRY	-7	-0.08	-0.1	-0.08	-0.3	-0.14	-0.32	-7	0	0	0	0	0
10/11/23	YKF BIG TOOTHED ASPEN	-14	-0.18	-0.25	-0.23	-0.3	-0.31	-0.69	-14	-1	0	0	0	0
09/14/23	YKF LEATHER WOOD	-6	-0.08	-0.09	-0.08	0.6	-0.14	-0.33	-6	0	0	0	0	0
06/30/23	MOFGA GREEN ASH	-11	-0.12	-0.16	-0.14	-0.1	-0.25	-0.56	-11	-1	0	0	0	0
09/29/22	2022 YKF RED MAPLE POLLARD	-2	-0.02	-0.02	-0.01	0.7	-0.04	-0.09	-2	0	0	0	0	0

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Barrel	Harvest Date	Harvest Site, Species (19)	Cr %DM	Fat %DM	Ash %DM	TDN	NEL	NEM	NEG	RFV	Calcium	Phosph	Magnes	Potas	Sodiu	Iron	Zinc	Copper	ppm		
																				Mang	Mo	Sulfur
PF12	Qt bag	10/01/23	YKF NORWAY MAPLE HAND-STR. FRE	6.4	7.19	68	0.72	0.72	0.44	160												
PE12	Bucke	10/01/23	YKF NORWAY MAPLE HAND-STR. ENS	7.4	7.5	65	0.7	0.69	0.42	153	1.46	0.18	0.16	1.09	0.011	318	57	7	543	1.2	0.15	
Diff Ensiled minus Fresh				1	0.31	-3	-0.02	-0.03	-0.02	-7.41												
PF5	Qt bag	06/26/23	MOFGA BOX ELDER FRESH	4.5	5.9	69	0.75	0.73	0.46	203												
PE5	Bucke	06/26/23	MOFGA BOX ELDER ENSEILED	5.8	6.23	70	0.76	0.75	0.48	204	0.98	0.29	0.17	1.61	0.012	170	31	6	76	0.8	0.17	
Diff Ensiled minus Fresh				1.3	0.33	1	0.01	0.02	0.02	-7.41												
PF6	Qt bag	10/04/23	FVF BLACK LOCUST FRESH	3.2	5.26	67	0.71	0.69	0.42	174												
PE6	Qt bag	10/04/23	FVF BLACK LOCUST ENSEILED	3.9	5.76	61	0.65	0.6	0.34	170	1.05	0.24	0.13	1.37	0.009	120	20	6	53	0.6	0.16	
Diff Ensiled minus Fresh				0.7	0.5	-6	-0.06	-0.09	-0.08	-7.41												
PF7	Qt bag	09/29/23	FVF BASSWOOD FRESH	6.4	10.02	65	0.69	0.67	0.4	153												
PE7	Qt bag	09/29/23	FVF BASSWOOD ENSEILED	6.9	11.02	61	0.65	0.62	0.36	143	2.32	0.24	0.41	2.12	0.014	187	63	10	385	0.3	0.22	
Diff Ensiled minus Fresh				0.5	1	-4	-0.04	-0.05	-0.04	-10.42												
PF10	Qt bag	10/01/23	FVF AMERICAN ELM FRESH	5.1	11.99	58	0.57	0.55	0.29	124												
PE10	Qt bag	10/01/23	FVF AMERICAN ELM ENSEILED	5.3	12.48	54	0.53	0.49	0.24	121	1.89	0.26	0.31	1.92	0.011	127	22	8	498	0.9	0.13	
Diff Ensiled minus Fresh				0.2	0.49	-4	-0.04	-0.06	-0.05	-2.18												
PF9	Qt bag	6/25-26/23	MOFGA HONEYSUCKLE FRESH	5.2	6.89	65	0.68	0.67	0.4	136												
C15	Bucke	06/25/24	MOFGA HONEYSUCKLE ENSEILED	not req	ot req	57	0.58	0.53	0.27	138	1.37	0.24	0.32	1.69	0.011	349	53	7	227	0	0.17	
Diff Ensiled minus Fresh				###	###	-8	-0.1	-0.14	-0.13	2.38												
PF14	Qt bag	09/07/23	YKF SMOOTH BUCKTHORN FRESH	6.3	7.06	70	0.77	0.76	0.49	209												
PE14	Bucke	09/07/23	YKF SMOOTH BUCKTHORN ENSEILED	7	7.36	67	0.72	0.71	0.44	164	1.52	0.39	0.3	1.36	0.012	249	43	6	393	1.3	0.15	
Diff Ensiled minus Fresh				0.7	0.3	-3	-0.05	-0.05	-0.05	-44.85												
PF15	Qt bag	09/15/23	YKF WINTERBERRY FRESH	5.9	4.58	69	0.72	0.73	0.45	144												
PE15	Bucke	09/15/23	YKF WINTERBERRY ENSEILED	6.1	5.08	62	0.64	0.63	0.37	122	0.92	0.15	0.31	1.14	0.014	115	232	15	479	0.6	0.19	
Diff Ensiled minus Fresh				0.2	0.5	-7	-0.08	-0.1	-0.08	-22.63												
PF17	Qt bag	09/14/23	YKF LEATHER WOOD FRESH	7.4	5.68	72	0.78	0.79	0.51	173												
PE17	Bucke	09/14/23	YKF LEATHERWOOD ENSEILED	8	5.79	66	0.7	0.7	0.43	137	1.55	0.21	0.19	0.74	0.012	123	89	8	171	0.6	0.1	
Diff Ensiled minus Fresh				0.6	0.11	-6	-0.08	-0.09	-0.08	-35.88												
PF8	Qt bag	06/25/23	MOFGA ARROW WOOD FRESH	6.4	6.08	68	0.72	0.72	0.45	139												
PE8	Bucke	06/25/23	MOFGA ARROW WOOD ENSEILED	6.4	5.84	60	0.61	0.6	0.34	114	1.17	0.2	0.2	1.26	0.011	332	108	8	433	0.8	0.15	
Diff Ensiled minus Fresh				0	-0.24	-8	-0.11	-0.12	-0.11	-25.79												

had same SP fresh and ensiled. But high intra-species variance invalidates this result (see "ALL ensiled Samples" spreadsheet). *8 species had failed SP tests on one or both samples. The lab said their mixture gelled and clogged filter-cloths.

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Barrel	Harvest Date	Harvest Site, Species	TDN	NEL	NEM	NEG	RFV	Calcium	Phosph	Magnes	Potas	Sodium	Iron	Zinc	Copper	Manganese	Molyb	Sulfur	pH	% Ammo (CPE)
PF4		07/11/23	MOFGA GRAY BIRCH FRESH	72	0.77	0.79	0.51														5.3
PF1		09/18/23	YKF WHITE ASH FRESH	63	0.66	0.62	0.36	177	1.36	0.3	0.23	1.01	0.016	88	24	14	53	0.4	0.17		5.4
PF20		10/06/23	FVF WHITE ASH FRESH	69	0.75	0.74	0.47														5.7
PF2		10/4-6/22	LAUFERS RED OAK FRESH	60	0.6	0.56	0.3	126	0.95	0.17	0.13	0.66	0.008	90	32	4	569	0	0.13		5.5
PF3		06/27/23	MOFGA BLACK CHERRY FRESH	62	0.65	0.61	0.35	161	1.27	0.23	0.19	1.15	0.01	115	41	5	43	0.1	0.12		4.9
PF5		06/26/23	MOFGA BOX ELDER FRESH	69	0.75	0.73	0.46														3.4
PF6		10/04/23	FVF BLACK LOCUST FRESH	67	0.71	0.69	0.42														
PF7		09/29/23	FVF BASSWOOD FRESH	65	0.69	0.67	0.4														6.2
PF8		06/25/23	MOFGA ARROW WOOD FRESH	68	0.72	0.72	0.45														5
PF9		6/25-26/23	MOFGA HONEYSUCKLE FRESH	65	0.68	0.67	0.4														5.3
PF10		10/01/23	FVF AMERICAN ELM FRESH	58	0.57	0.55	0.29														6.1
PF11		07/01/23	MOFGA ROCK MAPLE FRESH	69	0.75	0.73	0.46														4.3
PF12		10/01/23	YKF NORWAY MAPLE HAND-STR. FRE	68	0.72	0.72	0.44														5.7
PF13		7/20-21/23	MOFGA BEECH FRESH	64	0.63	0.63	0.36														5.4
PF14		09/07/23	YKF SMOOTH BUCKTHORN FRESH	70	0.77	0.76	0.49														5.3
PF15		09/15/23	YKF WINTERBERRY FRESH	69	0.72	0.73	0.45														5.7
PF16B		10/11/23	YKF BIG TOOTHED ASPEN FRESH	72	0.79	0.8	0.52														5.5
PF17		09/14/23	YKF LEATHER WOOD FRESH	72	0.78	0.79	0.51														5.2
PF18		06/30/23	MOFGA GREEN ASH FRESH	66	0.68	0.67	0.4														5
PF19		09/29/22	2022 YKF RED MAPLE POLLARD FRES	79	0.9	0.91	0.61														5
			Fresh aves	67.35	0.71	0.70	0.43														5.26

Samp ID	Barrel	Harvest Date	Harvest Site, Species	TDN	NEL	NEM	NEG	RFV	Calcium	Phosph	Magnes	Potas	Sodium	Iron	Zinc	Copper	Manganese	Molyb	Sulfur	pH	% Ammo (CPE)	
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSILED	59	0.62	0.57	0.31	147	0.56	0.25	0.14	0.9	0.012	71	132	8	373	0	0.14		5.2	0.09
PE1		09/18/23	YKF WHITE ASH ENSILED	60	0.64	0.58	0.32	185	1.55	0.3	0.23	0.95	0.012	71	25	10	49	0	0.16		4.9	0.51
PE2		10/4-6/22	LAUFERS RED OAK ENSILED	56	0.55	0.51	0.25	118	0.89	0.17	0.13	0.6	0.006	103	36	5	562	0.2	0.13		5.3	0.12
PE3		06/27/23	MOFGA BLACK CHERRY ENSILED	59	0.63	0.57	0.32	154	1.2	0.22	0.18	1.11	0.01	172	40	5	45	0.2	0.13		5	0.33
PE5		06/26/23	MOFGA BOX ELDER ENSILED	70	0.76	0.75	0.48		0.98	0.29	0.17	1.61	0.012	170	31	6	76	0.8	0.17		3.5	0.28
PE6		10/04/23	FVF BLACK LOCUST ENSILED	61	0.65	0.6	0.34		1.05	0.24	0.13	1.37	0.009	120	20	6	53	0.6	0.16		6.2	0.17
PE7		09/29/23	FVF BASSWOOD ENSILED	61	0.65	0.62	0.36		2.32	0.24	0.41	2.12	0.014	187	63	10	385	0.3	0.22		5.5	0.45
PE8		06/25/23	MOFGA ARROW WOOD ENSILED	60	0.61	0.6	0.34		1.17	0.2	0.2	1.26	0.011	332	108	8	433	0.8	0.15		4.6	0
C15	Bucke	06/25/24	MOFGA HONEYSUCKLE ENSILED	57	0.58	0.53	0.27	138	1.37	0.24	0.32	1.69	0.011	349	53	7	227	0	0.17		5.2	0
PE10		10/01/23	FVF AMERICAN ELM ENSILED	54	0.53	0.49	0.24		1.89	0.26	0.31	1.92	0.011	127	22	8	498	0.9	0.13		6	0.17
PE11		07/01/23	MOFGA ROCK MAPLE ENSILED	66	0.71	0.68	0.42		0.63	0.15	0.12	0.79	0.008	100	25	5	332	0.7	0.14		4.1	0
PE12		10/01/23	YKF NORWAY MAPLE HAND-STR. ENS	65	0.7	0.69	0.42		1.46	0.18	0.16	1.09	0.011	318	57	7	543	1.2	0.15		5.3	0.03
PE13		7/20-21/23	MOFGA BEECH ENSILED	59	0.55	0.54	0.28		0.65	0.14	0.17	0.85	0.011	256	37	6	201	0.3	0.13		5.7	0
PE14		09/07/23	YKF SMOOTH BUCKTHORN ENSILED	67	0.72	0.71	0.44		1.52	0.39	0.3	1.36	0.012	249	43	6	393	1.3	0.15		5.4	0.21

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Barrel	Harvest Date	Harvest Site, Species	TDN	NEL	NEM	NEG	RFV	Calcium	Phosph	Magnes	Potas	Sodium	Iron	Zinc	Copper	Manga	Molyb	Sulfur	pH	% Ammo (CPE)	
PE15		09/15/23	YKF WINTERBERRY ENSILED	62	0.64	0.63	0.37		0.92	0.15	0.31	1.14	0.014	115	232	15	479	0.6	0.19	5.4	0.12	
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSILED	58	0.61	0.55	0.29	156	1.41	0.17	0.23	0.62	0.014	58	286	10	427	0	0.16	5.2	0.09	
PE17		09/14/23	YKF LEATHERWOOD ENSILED	66	0.7	0.7	0.43		1.55	0.21	0.19	0.74	0.012	123	89	8	171	0.6	0.1	5.8	0.08	
PE18		06/30/23	MOFGA GREEN ASH ENSILED	55	0.56	0.51	0.26		1.37	0.28	0.28	1.48	0.004	99	38	26	85	0.7	0.21	4.9	0.09	
PE19		09/29/22	2022 YKF RED MAPLE POLLARD ENSI	77	0.88	0.89	0.6		0.83	0.25	0.15	0.63	0.01	2190	40	20	95	1.2	0.13	5.7	0.03	
	#10 F	10/06/23	FVF WHITE ASH ENSILED	61	0.64	0.59	0.33	161	1.61	0.16	0.4	1.11	0.01	110	14	8	76	0	0.2	5.6	0.42	
			Ensiled aves	61.65	0.65	0.62	0.35	151.29	1.25	0.22	0.23	1.17	0.01	266.00	69.55	9.20	275.15	0.52	0.16	5.23	0.16	
			% Crude Fat																			
			Fresh aves	5.67	6.28	67.35	0.71	0.70	0.43													
			Ensiled aves	5.94	6.84	61.65	0.65	0.62	0.35	151.29	1.25	0.22	0.23	1.17	0.01	266.00	69.55	9.20	275.15	0.52	0.16	
			Fat up 5%; really 10% *																			
			*See Fat EE below.																			

MORE ----->

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Barrel	Harvest Date		pH	% Ammo (CPE)	ME 1X lb	ME 1X kg	TDN1X	DE M cal/kg	A % CP	B % CP	C % CP	Kd CP	Amm % SP	Amm-CPE % CP	HDE
PE21	Bucket	07/01/23	MOFGA PIN CHERRY ENSILED	4	0.48	1.15	2.53	66	3	31	62	7	12	21	2.8	
PE22	Bucket	7/5-6/23	MOFGA AUTUMN OLIVE ENSILED	4.8	0.13	1.04	2.29	59	3	31	62	7	12	3	0.6	
A6	#21	07/13/23	MOFGA QUAKING ASPEN ENSILED	5.6	0.06	1.06	2.34	63	3	31	62	7	12	5	0.4	
N#1	Qt bag	06/24/24	BB FIELD STRIPED MAPLE FRESH	4.4	1.34	1.25	2.75	71	3	57	33	10	9			
N#2	Qt bag	06/25/24	N#2 YKF STAGHORN SUMAC FRESH	4.7	1.49	1.31	2.89	74	3	57	33	10	9			
N#3	Qt bag	6/28-29/24	N#3 FVF BITTERSWEET FRESH	5.8	1.26	1.2	2.64	67	3	57	33	10	9			
N#4	Qt bag	06/30/24	N#4 FVF MULTI-FLORA ROSE FRESH	4.9	1.31	1.17	2.57	67	3	57	33	10	9			

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Barrel	Harvest Date	Harvest Site, Species (19)	pH	% Ammo (CPE)	ME 1X		TDN1X	DE			Kd CP	Amm % SP	Amm-CPE % CP	HDE
						lb	kg		Mcal/ kg	A % CP	B % CP				
PF12	Qt bag	10/01/23	YKF NORWAY MAPLE HAND-STR. FRE	5.7		1.17	2.58	68	3	31	62	7	12		
PE12	Bucket	10/01/23	YKF NORWAY MAPLE HAND-STR. ENS	5.3	0.03	1.12	2.46	65	3	31	62	7	12		0.2
			Diff Ensiled minus Fresh	-0.4											
PF5	Qt bag	06/26/23	MOFGA BOX ELDER FRESH	3.4		1.2	2.66	69	3	31	62	7	12		
PE5	Bucket	06/26/23	MOFGA BOX ELDER ENSEILED	3.5	0.28	1.22	2.7	70	3	31	62	7	12	8	1.7
			Diff Ensiled minus Fresh	0.1		0.02	0.04	1	0	0	0	0	0		
PF6	Qt bag	10/04/23	FVF BLACK LOCUST FRESH			1.18	2.6	67	3	31	62	7	12		
PE6	Qt bag	10/04/23	FVF BLACK LOCUST ENSEILED	6.2	0.17	1.03	2.27	61	3	31	62	7	12	8	1
			Diff Ensiled minus Fresh			-0.15	-0.33	-6	0	0	0	0	0		
PF7	Qt bag	09/29/23	FVF BASSWOOD FRESH	6.2		1.16	2.55	65	3	31	62	7	12		
PE7	Qt bag	09/29/23	FVF BASSWOOD ENSEILED	5.5	0.45	1.08	2.39	61	3	31	62	7	12	16	2.3
			Diff Ensiled minus Fresh	-0.7											
PF10	Qt bag	10/01/23	FVF AMERICAN ELM FRESH	6.1		0.97	2.14	58	3	31	62	7	12		
PE10	Qt bag	10/01/23	FVF AMERICAN ELM ENSEILED	6	0.17	0.89	1.96	54	2	31	62	7	12		1.4
			Diff Ensiled minus Fresh	-0.1											
PF9	Qt bag	6/25-26/23	MOFGA HONEYSUCKLE FRESH	5.3		1.12	2.46	65	3	31	62	7	12		
C15	Bucket	06/25/24	MOFGA HONEYSUCKLE ENSEILED	5.2	0	0.94	2.07	57	2	31	62	7	12	0	0
	Qt bag		Diff Ensiled minus Fresh	-0.1											
PF14	Qt bag	09/07/23	YKF SMOOTH BUCKTHORN FRESH	5.3		1.23	2.72	70	3	31	62	7	12		
PE14	Bucket	09/07/23	YKF SMOOTH BUCKTHORN ENSEILED	5.4	0.21	1.17	2.58	67	3	31	62	7	12		1.4
			Diff Ensiled minus Fresh	0.1											
PF15	Qt bag	09/15/23	YKF WINTERBERRY FRESH	5.7		1.19	2.63	69	3	31	62	7	12		
PE15	Bucket	09/15/23	YKF WINTERBERRY ENSEILED	5.4	0.12	1.05	2.31	62	3	31	62	7	12	8	0.9
			Diff Ensiled minus Fresh	-0.3											
PF17	Qt bag	09/14/23	YKF LEATHER WOOD FRESH	5.2		1.23	2.72	72	3	31	62	7	12		
PE17	Bucket	09/14/23	YKF LEATHERWOOD ENSEILED	5.8	0.08	1.09	2.39	66	3	31	62	7	12	18	0.9
			Diff Ensiled minus Fresh	0.6											
PF8	Qt bag	06/25/23	MOFGA ARROW WOOD FRESH	5		1.18	2.6	68	3	31	62	7	12		
PE8	Bucket	06/25/23	MOFGA ARROW WOOD ENSEILED	4.6	0	0.99	2.18	60	3	31	62	7	11.01	0	0
			Diff Ensiled minus Fresh	-0.4											

mixture gelled and clogged filter-cloths.

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Harvest Barrel	Harvest Date	Harvest Site, Species	ME		DE			B %		C %		Kd	Amm %	Amm-SP %	CPE %	HDE
				1X lb	1X kg	TDN1X	Mcal/kg	A %	CP	CP	CP	CP					
PF4		07/11/23	MOFGA GRAY BIRCH FRESH	1.3	2.81	72	3	31	62	7	12						
PF1		09/18/23	YKF WHITE ASH FRESH	1.1	2.35	63	3	57	33	10	9					1.24	
PF20		10/06/23	FVF WHITE ASH FRESH	1.2	2.6	69	3	31	62	7	12						
PF2		10/4-6/22	LAUFERS RED OAK FRESH	1	2.23	60	3	57	33	10	9					1.09	
PF3		06/27/23	MOFGA BLACK CHERRY FRESH	1.1	2.36	62	3	57	33	10	9					1.2	
PF5		06/26/23	MOFGA BOX ELDER FRESH	1.2	2.66	69	3	31	62	7	12						
PF6		10/04/23	FVF BLACK LOCUST FRESH	1.2	2.6	67	3	31	62	7	12						
PF7		09/29/23	FVF BASSWOOD FRESH	1.2	2.55	65	3	31	62	7	12						
PF8		06/25/23	MOFGA ARROW WOOD FRESH	1.2	2.6	68	3	31	62	7	12						
PF9		6/25-26/23	MOFGA HONEYSUCKLE FRESH	1.1	2.46	65	3	31	62	7	12						
PF10		10/01/23	FVF AMERICAN ELM FRESH	1	2.14	58	3	31	62	7	12						
PF11		07/01/23	MOFGA ROCK MAPLE FRESH	1.2	2.63	69	3	31	62	7	12						
PF12		10/01/23	YKF NORWAY MAPLE HAND-STR. FRE	1.2	2.58	68	3	31	62	7	12						
PF13		7/20-21/23	MOFGA BEECH FRESH	1.1	2.42	64	3	31	62	7	12						
PF14		09/07/23	YKF SMOOTH BUCKTHORN FRESH	1.2	2.72	70	3	31	62	7	12						
PF15		09/15/23	YKF WINTERBERRY FRESH	1.2	2.63	69	3	31	62	7	12						
PF16B		10/11/23	YKF BIG TOOTHED ASPEN FRESH	1.3	2.76	72	3	31	62	7	12						
PF17		09/14/23	YKF LEATHER WOOD FRESH	1.2	2.72	72	3	31	62	7	12						
PF18		06/30/23	MOFGA GREEN ASH FRESH	1.2	2.54	66	3	31	62	7	12						
PF19		09/29/22	2022 YKF RED MAPLE POLLARD FRES	1.4	3.04	79	3	31	62	7	12						
			Fresh aves	1.17	2.57	67.35	3.00	34.90	57.65	7.45	11.55					1.18	

Samp ID	Harvest Barrel	Harvest Date	Harvest Site, Species	ME		DE			B %		C %		Kd	Amm %	Amm-SP %	CPE %	HDE
				1X lb	1X kg	TDN1X	Mcal/kg	A %	CP	CP	CP	CP					
B13b #18		07/11/23	MOFGA GRAY BIRCH ENSILED	1	2.21	59	3	31	62	7	12	not en				0.6	
PE1		09/18/23	YKF WHITE ASH ENSILED	1	2.14	60	3	57	33	10	9	27				4.8	
PE2		10/4-6/22	LAUFERS RED OAK ENSILED	0.9	2.04	56	2	57	33	10	9					0.9	
PE3		06/27/23	MOFGA BLACK CHERRY ENSILED	1	2.19	59	3	57	33	10	9	13				2.5	
PE5		06/26/23	MOFGA BOX ELDER ENSILED	1.2	2.7	70	3	31	62	7	12	8				1.7	
PE6		10/04/23	FVF BLACK LOCUST ENSILED	1	2.27	61	3	31	62	7	12	8				1	
PE7		09/29/23	FVF BASSWOOD ENSILED	1.1	2.39	61	3	31	62	7	12	16				2.3	
PE8		06/25/23	MOFGA ARROW WOOD ENSILED	1	2.18	60	3	31	62	7	11	0				0	
C15 Bucket		06/25/24	MOFGA HONEYSUCKLE ENSILED	0.9	2.07	57	2	31	62	7	12	0				0	
PE10		10/01/23	FVF AMERICAN ELM ENSILED	0.9	1.96	54	2	31	62	7	12					1.4	
PE11		07/01/23	MOFGA ROCK MAPLE ENSILED	1.1	2.44	66	3	31	62	7	12	0				0	
PE12		10/01/23	YKF NORWAY MAPLE HAND-STR. ENS	1.1	2.46	65	3	31	62	7	12					0.2	
PE13		7/20-21/23	MOFGA BEECH ENSILED	1	2.14	59	3	31	62	7	12	0				0	
PE14		09/07/23	YKF SMOOTH BUCKTHORN ENSILED	1.2	2.58	67	3	31	62	7	12					1.4	

DairyOne spreadsheet 40 fresh & ens & YKF,NFC added, May 2025

Samp ID	Barrel	Harvest Date	Harvest Site, Species	ME 1X	DE			B %	C %	Kd	Amm	Amm-CPE	HDE
				lb	ME 1X kg	TDN1X	Mcal/kg	A %	CP	CP	CP	CP	
PE15		09/15/23	YKF WINTERBERRY ENSILED	1.1	2.31	62	3	31	62	7	12	8	0.9
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSILED	0.9	2.07	58	2	31	62	7	12	5	0.8
PE17		09/14/23	YKF LEATHERWOOD ENSILED	1.1	2.39	66	3	31	62	7	12	18	0.9
PE18		06/30/23	MOFGA GREEN ASH ENSILED	0.9	1.98	55	2	31	62	7	12	4	0.5
PE19		09/29/22	2022 YKF RED MAPLE POLLARD ENSI	1.3	2.95	77	3	31	62	7	12		0.3
	#10 FV	10/06/23	FVF WHITE ASH ENSILED	1	2.21	61	3	31	62	7	12	15	4.5
Ensiled aves				1.04	2.28	61.65	2.75	34.90	57.65	7.45	11.50	8.71	1.24

pH	% Ammo (CPE)	ME 1X	ME 1X	DE			Kd	CP	Amm	% SP	Amm-CPE	% CP	HDE
		lb	kg	TDN1X	Mcal/kg	A %							
MORE ----->	Fresh aves	5.26	1.17	2.57	67.35	3.00	34.90	57.65	7.45	11.55			#DIV/0!
	Ensiled aves	5.23	1.04	2.28	61.65	2.75	34.90	57.65	7.45	11.50	8.71	1.24	