

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	% Moistur	% DM	Crude P %DM	Avail Protein	ADIC P	Adj Cr. Protein	Sol P %CP	Sol P %DM	Degr P %CP	Degr P %DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM	Cr Fat %DM	Ash %DM	TDN	TDN1 X
HA2	(Hay)	08/24/23	D. Flood 2ND CUT HAY (fed AH)	18.6	81.4	18.6			18.6	33	6.1	70	13.0	35.9	57.6	13.9	7.5			57	57
HA1	(Hay)	08/25/23	J. Morse 1ST CUT HAY (fed AL)	17	83	9.4			9.4	28	2.6	62	5.8	38.5	64.3	16.3	9.7			55	55
			Dairy One Ave 2004-'24 Grass Hay			11.03				33.94	3.7	65.02	7.2			19.40	11.33	2.63			
			Dairy One Ave 2004-'24 Grass Silage			15.48				53.19	8.2	70.70	10.9			16.80	7.96	3.97			
PF2	Qt bag	10/4 & -6/22	LAUFERS RED OAK FRESH	48.3	51.7	12				failed		failed		30.5	48.1	29.3	8.3	3.2	5.26	60	60
PE2	Bucket	10/4 & -6/22	LAUFERS RED OAK ENSEILED	50.1	49.9	13.2	8.8	4.3	failed	failed		failed		30.5	51.5		5.2	not req		56	56
B4	#4 2022	10/4 & -6/22	LAUFERS' OAK ENSEILED	47.1	52.9	13.3	10.6	2.7	11.6	failed		failed		28.8	45		not req	6.5		64	64
B2	#3 FVF	09/28/23	FVF RED OAK ENSEILED	56.3	43.7	16.4	13.9	2.5	failed	failed		failed		27.8	42.5		2.9	not req		61	61
C14	#11 FVF	10/08/23	FVF RED OAK (above Gr Ash)	58.6	41.4	15.6	13.1	2.5	failed	failed		failed		27.3	40.4		6.6	not req		61	61
A1	#12	10/09/23	FVF RED OAK ENSEILED	52.5	47.5	14.8	12.8	2	failed	failed		failed		28.6	50.4		6.7	not req		59	59
			Ensiled Red Oak Aves	52.92	47.08	14.66	11.84	2.80						28.60	45.96		5.35	6.50		60.20	60.20
A7	#14	07/08/23	MOFGA QUAKING ASPEN ENSILE	55.8	44.2	12.9	9	3.9	10	10	1.3	failed		24.7	35.5		11.1	not req		61	61
B6	#16	07/11/23	MOFGA QUAKING ASPEN ENSILE	61.2	38.8	15.6	13	2.5	14	22	3.4	26	4.1	23.6	31.3		7.9	not req		64	64
A4	#19	07/12/23	MOFGA QUAKING ASPEN ENSILE	62	38	15.2	10.7	4.5	11.7	10	1.5	failed		26.1	36.6		7.2	not req		60	60
C11	#20	07/12/23	MOFGA QUAKING ASPEN ENSILE	57.9	42.1	12.9	8.6	4.4	9.6	10	1.3	12	1.5	23	31.2		10	not req		62	62
A6	#21	07/13/23	MDFGA QUAKING ASPEN ENSILE	59.9	40.1	13.6	9.5	4.1	10.5	9	1.2	failed		20	29.1		18	not req		63	63
B8	#25	07/15/23	MOFGA QUAKING ASPEN ENSILE	60	40	15.2	10	5.2	11	10	1.5	10	1.5	23.6	32.9		10	not req		61	61
A3	#35	07/20/23	MOFGA QUAKING ASPEN ENSILE	61.5	38.5	12.6	8.4	4.2	9.4	8	1.0	failed		23	33.5		12.8	not req		61	61
			Ensiled Quaking Aspen Aves	59.76	40.24	14.00	9.89	4.11	10.89	11.29	1.61	16.00	2.37	23.43	32.87		11.00			61.71	61.71
PF16B	Qt bag	10/11/23	YKF BIG TOOTHED ASPEN FRESH	56.4	43.6	9.8			9.8	12	1.2	16.0	1.6	27.1	38.8	38.3	14	8.1	5.07	72	72
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSIL	57.9	42.1	10.9	5.3	5.6	6.3	17	1.9	18	2.0	28.2	39.9		11.8	not req		58	58
C6	#56	10/10-11/23	BIG TOOTHED ASPEN ENSEILED	58.6	41.4	10.3	5.9	4.4	6.9	11	1.1	12	1.2	26.3	37.9		10.1	not req		59	59
Fer#1	Bucket	09/28/23	YKF BT ASPEN Hand-str ENS 1+yr	59.4	40.6	11.1	5.4	5.7	6.4					30.3	41.1	33.7	4.1	8.6	5.53	66	66
			Ensiled Big-Toothed Aspen Aves	58.25	41.75	10.60	5.60	5.00	6.60	14.00	1.39	15.00	1.60	27.25	38.90		10.95			58.50	58.5
PF1	Qt bag	09/18/23	YKF WHITE ASH FRESH	66.6	33.4	11			11	13	1.4	19.00	2.1	25.3	36.4	42.1	7.9	4.5	5.9	63	63
PE1	(Pair)	09/18/23	YKF WHITE ASH ENSEILED	64.9	35.1	10.6	5.3	5.3	6.3	18	1.9	21	2.2	24.8	35		7	not req		60	60
PF20	Qt bag	10/06/23	FVF WHITE ASH FRESH	59.8	40.2	8.8			8.8	17	1.5	32.00	2.8	24.9	37.8	39.7	7.2	6.6	7.01	69	69
A13	#10 FVF	10/06/23	FVF WHITE ASH ENSEILED	61.1	38.9	9.3	6.6	2.7	7.6	30	2.8	failed		26.4	39.4		8.2	not req		61	61
B15	#53	9/18-20/23	YKF WHITE ASH ENSEILED	59.6	40.4	10.8	6.4	4.3	7.4	17	1.8	19	2.1	29.3	43.6		8.1	not req		58	58
C18	#54	09/20/23	YKF WHITE ASH ENS (below BT As	50.7	49.3	11	6	5	7	12	1.3	15	1.7	26	37.6		7.3	not req		59	59
B13	#1 FVF	09/26/23	FVF WHITE ASH ENSEILED	61.6	38.4	12.4	6.9	5.5	7.9	12	1.5	17	2.1	28.5	40.9		9.7	not req		58	58
C2	#2 FVF	09/27/23	FVF WHITE ASH ENSEILED	50.6	49.4	12.4	8.3	4.1	9.3	19	2.4	24	3.0	25.5	38.7		10	not req		60	60
			Ensiled White Ash Aves	58.08	41.92	11.08	6.58	4.48	7.58	18.00	1.95	19.20	2.20	26.75	39.20		8.38			59.33	59.33
PF18	Qt bag	06/30/23	MOFGA GREEN ASH FRESH	56.1	43.9	15.4			15.4	7	1.1	20	3.1	26.9	43.3	32.1	8.3	4	5.23	66	66
PE18	Bucket	06/30/23	MOFGA GREEN ASH ENSEILED	60.9	39.1	16.7	6.2	10.5	7.2	15	2.5	23	3.8	36.1	48.7	22.9	5.5	4.9	6.77	55	55
N#7	#40	07/26/23	MOFGA GREEN ASH ENS (wirth Hc	52.8	47.2	11.9	8.4	3.5	9.4					27.5	39.5	40	11.7	3.3	5.28	62	62
C12	#7 FVF	10/02/23	FVF GREEN ASH ENSEILED	56.8	43.2	12.2	8.7	3.5	9.7	19	2.3	28	3.4	24.1	36.6		6.8	not req		61	61
C5	#9	10/05/23	FVF GREEN ASH ENSEILED	55.3	44.7	12.7	9.4	3.3	10.4	26	3.3	29	3.7	25.3	38.4		10.1	not req		61	61
C4	#11 FVF	10/08/23	FVF GREEN ASH ENSEILED	59.5	40.5	10.3	7.6	2.7	8.6	27	2.8	31	3.2	28.9	41.2		7.4	not req		60	60
			Ensiled Green Ash Aves	58.13	41.88	12.98	7.98	5.00	8.98	21.75	2.73	27.75	3.53	28.60	41.23	22.90	7.45	4.90	6.77	59.25	59.25

WSC/CP Ratio: 0.5742

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	% Moistur	% DM	Crude P %DM	Avail Protein	ADIC P	Adj Cr. Protein	Sol P %CP	Sol P %DM	Degr P %CP	Degr P %DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM	Cr Fat %DM	Ash %DM	TDN	TDN1 X
N#5	Qt bag	6/15/24	YKF BLACK CHERRY FRESH (did c	63.5	36.5	20.8			20.8					21.9	31.4	37.4	10.2	6	4.41	73	73
PF3	(Pair)	06/27/23	MOFGA BLACK CHERRY FRESH	67	33	13.1			13.1	17	2.2	21.00	2.8	29.3	38.3	38.1	7.9	6.4	10.02	62	62
PE3	(Pair)	06/27/23	MOFGA BLACK CHERRY ENSEILED	67.8	32.2	13.2	8.7	4.4	9.7	20	2.6	21	2.8	31	39.1		6.1	not req		59	59
C9	2022	9/30-10/01/22	YKF BLACK CHERRY ENSEILED	55	45	11.9	9.9	2.1	10.9	27	3.2	27	3.2	15.3	21.7		13.4	not req		68	64
B10	#7	06/30/23	MOFGA BLACK CHERRY ENSEILED	62.3	37.7	16.3	11.1	5.2	12.1	18	2.9	22	3.6	22.6	29.9		8.7	not req		62	62
C8	#9	07/01/23	MOFGA BLACK CHERRY ENSEILED	59.7	40.3	14.6	11.4	3.3	12.4	19	2.8	22	3.2	21.4	29.4		9	not req		64	68
B1	#11	7/5 -6/23	MOFGA BLACK CHERRY ENSEILED	58	42	12.5	9.1	3.4	10.1	18	2.3	failed		24.1	31.8		7.2	not req		63	63
B5	#12	7/5-6/23	MOFGA BLACK CHERRY ENSEILED	58.5	41.5	14.5	11.8	2.8	12.8	20	2.9	21	3.0	20.5	28		9.2	not req		65	65
A5	#37	07/25/23	MOFGA BLACK CHERRY ENSEILED	62.4	37.6	14.2	11.5	2.6	12.5	19	2.7	failed		21.9	29.9		7.2	not req		64	64
A12	#39	07/26/23	MOFGA BLACK CHERRY ENSEILED	59.1	40.9	13.2	10.3	2.9	11.3	17	2.2	failed		22.2	31.6		8.8	not req		63	63
YK9	Unmarked, Gedo & Susn	08/03/23	YKF BLACK CHERRY ENSEILED	48.9	51.1	7.8	4.8	2.9				9	0.7	30.8	40.8	42.5	6.4	4.9	4	66	66
C3	#46	09/02/23	YKF BLACK CHERRY ENSEILED	58.1	41.9	14.6	11.8	2.8	12.8	19	2.8	19	2.8	16.3	22.9		9.2	not req		66	66
C7	Bucket	10/11-12/23	YKF WW BLACK CHERRY ENSEILED	57.9	42.1	15.4	12.7	2.7	13.7	20	3.1	25	3.9	18	25.1		11.3	not req		66	66
			Ensiled Black Cherry Aves	58.88	41.12	13.47	10.28	3.19	11.83	19.70	2.75	20.75	2.89	22.19	30.02	42.50	8.77	4.90	4.00	64.18	64.18
			*Above spring-harvested Black Cherry, fresh, for comparison																		
			*Note higher CP in spring (above)																		
			WSC/CP Ratio: 0.6511																		
			*Note higher Fat in this spring sample (above)																		
PE21	Pair	07/01/23	MOFGA PIN CHERRY ENSEILED	66.2	33.8	17	11.5	5.5	12.5	14	2.4	18	3.1	27.8	33.5	37.8	5.9	5.9	5.76	66	66
PF13		7/20-21/23	MOFGA AM BEECH FRESH	48.9	51.1	12.3			12.3	5	0.6	33.00	4.1	31	52.6	27.2	7.7	3.7	4.19	64	64
PE13		7/20-21/23	MOFGA AM BEECH ENSEILED	52.5	47.5	12.6	8.1	4.5	9.1	4	0.5	25.00	3.2	36	57	23.2	2.8	3.1	4.09	59	59
Fer#2	Bucket	7/20-21/23	MOFGA AM BEECH ENSEILED 1YR	55.2	44.8	12.7	8.4	4.3	9.4					35.5	54.2	24.6	3	3.7	4.78	59	59
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	7.8	3.74	72	72
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSEILED	62	38	14	10.2	3.8	failed	failed		54	7.6	29.1	41.9		9.6	not req		59	59
YK7	2022	09/30/22	2022 YKF (Gray/Red?) BIRCH ENSI	46.1	53.9	9	4	5	5					36	47.5	32.4	4.6	7.7	3.35	67	67
YK6	#26	07/15/23	MOFGA GRAY BIRCH ENSEILED	57.7	42.3	11.5	5.9	5.6	6.9					35.7	49.2	29.5	4	6.8	3.02	65	65
B12	#27	07/17/23	MOFGA GRAY BIRCH ENSEILED	60.5	39.5	13.5	8.4	5.1	failed	failed		failed		29.8	41.2		10	not req		58	58
A9	#30	07/19/23	MOFGA GRAY BIRCH ENSEILED	60.4	39.6	13.2	8.7	4.5	failed	failed		failed		29.3	43.3		10.4	not req		58	58
YK4	#43B	08/03/23	YKF GRAY BIRCH at bottom* ENS	47.1	52.9	9.9	4.6	5.3	5.6					30.4	42.8	36.6	10.3	7.7	3.04	68	68
YK5	#43	08/03/23	YKF GRAY BIRCH ENSEILED	44.8	55.2	9.8	4.8	4.9	5.8					32.8	44.9	36.6	8.8	5.7	2.93	66	66
			*1/2 full 1+ months Ensiled Gray Birch Aves	54.09	45.91	11.56	6.66	4.89	5.83					31.87	44.40	33.78	8.24	6.98	3.09	63.00	63.00
PF19	Qt bag	09/29/22	2022 YKF RED MAPLE FRESH	54.6	45.4	10.9				failed		failed		16.8	25.1	50.2	18	9.1	4.79	79	79
PE19	Bucket	09/29/22	2022 YKF RED MAPLE ENSEILED	56.8	43.2	11	8.6	2.4		failed		failed		18.6	27.6	46.8	13	9.8	4.82	77	77
YK1	#8B	06/30/23	MOFGA RED MAPLE ENSEILED	54.1	45.9	7.9	4.2	3.7	5.2	12	0.9	43	3.4	39.8	55.5	28.4	7	3.3	4.81	59	59
YK2	#36	07/25/23	MOFGA RED MAPLE ENSEILED	52.6	47.4	10.1	8.1	2		12	1.2	failed		23.3	32.9	43.7	12.3	9	4.34	75	75
B11	#44	09/01/23	YKF RED MAPLE ENSEILED	52.7	47.3	11.2	9.6	1.6	failed	failed		failed		16.8	24.9		14.8	not req		67	67
C13	#50	09/15/23	YKF RED MAPLE ENSEILED	59.5	40.5	9.7	7.8	1.8	8.8	17	1.6	22	2.1	19	25.6		25.3	not req		66	66
			Ensiled Red Maple Aves	55.14	44.86	9.98	7.66	2.30	7.00	13.67	1.27	32.50	2.77	23.50	33.30	39.63	14.48	7.37	4.66	68.80	68.80

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R1	Fresh	03/02/24	35F RED MAPLE RIS (twigs with bu	48.6	51.4	6.8	not requ	not req	6.8	32	2.2	36	2.4	41.8	53.8		16.4	2.3		not	not
PF11	Qt bag	07/01/23	MOFGA ROCK MAPLE FRESH	48	52	11				failed		failed		18.7	32.5	49.5	20.1	3.2	3.75	69	69
PE11		07/01/23	MOFGA ROCK MAPLE ENSEILED	53.7	46.3	10.6	6.5	4.1	7.5	9	1.0	29	3.1	23	35.2	46.60	11.40	3.90	3.71	66.00	66.00
YK3	#55	09/24/23	MOFGA ROCK MAPLE ENSEILED	52.1	47.9	8.3	4.6	3.7	5.6	9	1.0	31	2.6	22.8	32.9	46.8	17.2	5	6.92	66	66
				52.9	47.1	9.45	5.55	3.9	6.55	9	0.95	30	2.82	22.9	34.05	46.7	14.3	4.45	5.315	66	66.00
PF12	Qt bag	10/01/23	YKF NORWAY MAPLE HAND-STR.	55.3	44.7	12				failed		failed		23.6	41	33.3	9.3	6.4	7.19	68	68
PE12		10/01/23	YKF NORWAY MAPLE Hand-str EN	60.8	39.2	12.8	9.2	3.6		failed		failed		24	42.8	29.6	4.8	7.4	7.5	65	65
N#1	Qt bag	06/24/24	BBF STRIPED MAPLE FRESH	75.2	24.8	15.9			15.9					23.6	35.8	38	9.4	5.5	4.73	71	71
PF5		06/26/23	MOFGA BOX ELDER FRESH	76.9	23.1	13.8			13.8	19	2.6	41.00	5.7	23	32.5	43.3	6.8	4.5	5.9	69	69
PE5		06/26/23	MOFGA BOX ELDER ENSEILED	77.8	22.2	16.1	14	2.1	15	21	3.4	41	6.6	23.3	32.3	39.5	4.8	5.8	6.23	70	70
PF6		10/04/23	FVF BLACK LOCUST FRESH	59.3	40.7	17.1			17.1	14	2.4	26.00	4.4	25.5	36.9	37.4	10	3.2	5.26	67	67
PE6		10/04/23	FVF BLACK LOCUST ENSEILED	58.5	41.5	17.3	9.8	7.5	10.8	12	2.1	21	3.6	26.6	37.3	35.7	5.3	3.9	5.76	61	61
PF7		09/29/23	FVF BASSWOOD FRESH	65	35	19.4				failed		failed		24	42.6	21.6	9.5	6.4	10.02	65	65
PE7		09/29/23	FVF BASSWOOD ENSEILED	67.6	32.4	19.8	16.2	3.7		15	3.0	failed		24.8	45.3	16.9	3.6	6.9	11.02	61	61
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	58	58
PE10		10/01/23	FVF AMERICAN ELM ENSEILED	63.1	36.9	12.1	7.9	4.2		failed		failed		23.7	54	16.2	4.3	5.3	12.48	54	54
PF9		6/25-26/23	MOFGA HONEYSUCKLE FRESH	68.7	31.3	11.1			11.1	13	1.4	48.00	5.3	29.9	45	31.8	13.6	5.2	6.89	65	65
C15	Bucket	06/25/24	MOFGA HONEYSUCKLE ENSEILED	74.6	25.4	14.9	8.7	6.2	9.7	13	1.9	25	3.7	30.9	43.8		4.3	not req		57	57
A11	#1	06/23/23	MOFGA HONEYSUCKLE ENSEILED	66	34	13	6.8	6.2	7.8	12	1.6	failed		25.1	38.3		12.5	not req		58	58
YK8	#8B	06/30/23	MOFGA HONEYSUCKLE ENSEILED	48.7	51.3	9.5	6.4	3		failed		14	1.3	22.7	31.7	47.2	14.1	6.6	5	71	71
B3	#5	06/29/23	MOFGA HONEYSUCKLE ENSEILED	67.5	32.5	14.4	7.3	7.1	8.3	11	1.6	failed		28.2	41.2		8.8	not req		56	56
A2	#10	07/06/23	MOFGA HONEYSUCKLE ENSEILED	52.4	47.6	12.5	6.4	6.2	7.4	9	1.1	failed		29.1	42.2		12.3	not req		57	57
N#6	#43	08/03/23	YFK HONEYSUCKLE ENSEILED, Ge	44.7	55.3	9.4	3.7	5.7	4.7					30.9	41.6	37.6	11.2	6.2	5.24	63	63
			Ensiled Honeysuckle Aves	61.84	38.16	12.86	7.12	5.74	8.3	11.25	1.55	19.50	2.53	27.2	39.44	47.2	10.4	6.6	5	59.8	59.80
PF14		09/07/23	YKF SMOOTH BUCKTHORN FRES	67.4	32.6	14.3				failed		failed		20.3	32.5	39.8	15.3	6.3	7.06	70	70
PE14		09/07/23	YKF SMOOTH BUCKTHORN ENSIL	68.2	31.8	15.4	12.4	3		failed		failed		25.9	38.9	31.4	6.5	7	7.36	67	67
PF15		09/15/23	YKF WINTERBERRY FRESH	56.5	43.5	11.7			11.7	6	0.7	33.00	3.9	27.6	43.4	34.5	9.6	5.9	4.58	69	69
PE15		09/15/23	YKF WINTERBERRY ENSEILED	58.2	41.8	12.6	7.1	5.5	8.1	12	1.5	24	3.0	31.4	49.2	27	4	6.1	5.08	62	62
PF17		09/14/23	YKF LEATHER WOOD FRESH	54.8	45.2	9.5			9.5	4	0.4	26.00	2.5	27	36.5	40.9	16.5	7.4	5.68	72	72
PE17		09/14/23	YKF LEATHERWOOD ENSEILED	54.1	45.9	8.7	3.4	5.3	4.4	5	0.4	9	0.8	32.4	43.2	34.3	13.9	8	5.79	66	66

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	% Moistur	% DM	Crude P %DM	Avail Protein	ADIC P	Adj Cr. Protein	Sol P %CP	Sol P %DM	Degr P %CP	Degr P %DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM	Cr Fat %DM	Ash %DM	TDN	TDN1 X
PE22		7/5-6/23	MOFGA AUTUMN OLIVE ENSILED	60.7	39.3	21	16.6	4.3	17.6	23	4.8	50	10.5	33.7	52.3	17.9	5.6	3.1	5.68	59	59
PF8		06/25/23	MOFGA ARROW WOOD FRESH	60.9	39.1	12			12	12	1.4	23.00	2.8	31.4	43	32.5	9.4	6.4	6.08	68	68
PE8		06/25/23	MOFGA ARROW WOOD ENSILED	63.8	36.2	12.8	5.4	7.4	6.4	15	1.9	20	2.6	36.2	49.7	25.3	5.1	6.4	5.84	60	60
N#2	Qt bag	06/25/24	YKF STAGHORN SUMAC FRESH	66.7	33.3	14.9			14.9					16.9	22.9	52.2	27	5.1	4.92	74	74
N#3	Qt bag	6/28-29/24	FVF BITTERSWEET FRESH	76	24	17			17					25.4	36.5	31.5	8.6	6.3	8.72	67	67
N#4	Qt bag	06/30/24	FVF MULTI-FLORA ROSE FRESH	76.7	23.3	14.1			14.1					21.7	32.7	41.1	17.8	4.4	7.74	67	67
Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	Calcium	Phosph	Magnes	Potassi	Sodi	Iron	Zinc	Coppe	Mang	PPM Moly	Sulfur	pH	% Am (CPE)	ME 1xlb	ME 1xkg	NEL	NEM	NEG
HA2	(Hay)	08/24/23	D. Flood 2ND CUT HAY (fed AH)	0.55	0.5	0.2	3.3	0.018	604	45	11	73	2.8	0.31			1.01	2.22	0.53	0.52	0.26
HA1	(Hay)	08/25/23	J. Morse 1ST CUT HAY (fed AL)	0.59	0.22	0.16	1.02	0.113	122	40	5	343	1.1	0.17			0.91	2.01	0.47	0.48	0.23
			Dairy One Ave 2004-'24 Grass Hay																2.63		
			Dairy One Ave 2004-'24 Grass Silage																3.97		
PF2	Qt bag	10/4 & -6/22	LAUFERS RED OAK FRESH	0.95	0.17	0.13	0.66	0.008	90	32	4	569	0	0.13	5.5		1.01	2.23	0.6	0.56	0.3
PE2	(Pair)	10/4 & -6/22	LAUFERS RED OAK ENSILED	0.89	0.17	0.13	0.6	0.006	103	36	5	562	0.2	0.13	5.3	0.12	0.93	2.04	0.55	0.51	0.25
B4	#4 2022	10/4 & -6/22	LAUFERS' OAK ENSILED	(minerals not requested)													1.1	2.42	0.67	0.66	0.39
B2	#3 FVF	09/28/23	FVF RED OAK ENSILED	0.79	0.23	0.2	0.98	0.01	62	39	6	723	0	0.15	5.3	0.11	1.05	2.31	0.63	0.59	0.33
C14	#11 FVF	10/08/23	FVF RED OAK (above Gr Ash)	0.82	0.21	0.18	1.04	0.01	92	38	5	897	0	0.14	5.5	0.03	1.06	2.33	0.64	0.6	0.34
A1	#12	10/09/23	FVF RED OAK ENSILED	0.84	0.22	0.19	0.92	0.018	60	39	6	939	0	0.14	5.8	0.05	1.01	2.22	0.58	0.55	0.3
			Ensiled Red Oak Aves	0.84	0.21	0.18	0.89	0.01	79.25	38.00	5.50	780.25	0.05	0.14	5.48	0.08	1.03	2.26	0.61	0.58	0.32
A7	#14	07/08/23	MOFGA QUAKING ASKEN ENSILE	0.95	0.23	0.24	0.77	0.01	43	172	8	96	0	0.14	5.4	0.06	1.02	2.26	0.65	0.6	0.34
B6	#16	07/11/23	MOFGA QUAKING ASPEN ENSILE	1.13	0.27	0.25	1.21	0.013	63	28	7	127	0	0.12	4.5	0.6	1.1	2.44	0.69	0.65	0.38
A4	#19	07/12/23	MOFGA QUAKING ASPEN ENSILE	1.07	0.27	0.22	1.05	0.009	52	150	8	144	0	0.17	5.4	0.06	1.02	2.25	0.64	0.59	0.33
C11	#20	07/12/23	MOFGA QUAKING ASPEN ENSILE	1.19	0.23	0.24	0.85	0.007	83	137	7	114	0	0.16	5.2	0	1.04	2.29	0.67	0.62	0.36
A6	#21	07/13/23	MDFGA QUAKING ASPEN ENSILEI	1.04	0.25	0.25	0.88	0.009	44	150	7	112	0	0.16	5.6	0.06	1.06	2.34	0.68	0.64	0.37
B8	#25	07/15/23	MOFGA QUAKING ASPEN ENSILE	1.09	0.23	0.24	0.99	0.01	56	127	7	97	0	0.17	5.4	0.06	1.03	2.26	0.65	0.6	0.34
A3	#35	07/20/23	MOFGA QUAKING ASPEN ENSILE	1.23	0.2	0.2	0.84	0.008	47	123	7	95	0	0.15	5.4	0.06	1.02	2.26	0.66	0.61	0.35
			Ensiled Quaking Aspen Aves	1.10	0.24	0.23	0.94	0.01	55.43	126.71	7.29	112.14	0.00	0.15	5.27	0.13	1.04	2.30	0.66	0.62	0.35
PF16B	Qt bag	10/11/23	YKF BIG TOOTHED ASPEN FRESH	(minerals not requested)											5.5		1.25	2.76	0.79	0.8	0.52
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSIL	1.41	0.17	0.23	0.62	0.014	58	286	10	427	0	0.16	5.2	0.09	0.94	2.07	0.61	0.55	0.29
C6	#56	10/10-11/23	BIG TOOTHED ASPEN ENSILED	1.22	0.18	0.19	0.62	0.012	58	261	9	451	0	0.16	5	0.12	0.97	2.15	0.63	0.58	0.32
Fer#1	Bucket	09/28/23	YKF BT ASPEN Hand-str ENS 1+yr	(minerals not requested)											4.4		1.11	2.45	0.72	0.71	0.44
			Ensiled Big-Toothed Aspen Aves	1.315	0.175	0.21	0.62	0.013	58	273.5	9.5	439	0	0.16	5.1	0.105	0.955	2.11	0.62	0.565	0.305

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	Calcium	Phosph	Magnes	Potassi	Sodiu	Iron	Zinc	Coppe	Mang	PPM Moly	Sulfur	pH	% Am (CPE)	ME 1xlb	ME 1xkg	NEL	NEM	NEG
PF1	Qt bag	09/18/23	YKF WHITE ASH FRESH	1.36	0.3	0.23	1.01	0.016	88	24	14	53	0.4	0.17	5.4		1.07	2.35	0.66	0.62	0.36
PE1	(Pair)	09/18/23	WHITE ASH YKF ENSILED	1.55	0.3	0.23	0.95	0.012	71	25	10	49	0	0.16	4.9	0.51	0.97	2.14	0.64	0.58	0.32
PF20	Qt bag	10/06/23	FVF WHITE ASH FRESH	(minerals not requested)											5.7		1.18	2.6	0.75	0.74	0.47
A13	#10 FVF	10/06/23	FVF WHITE ASH ENSILED	1.61	0.16	0.4	1.11	0.01	110	14	8	76	0	0.2	5.6	0.42	1	2.21	0.64	0.59	0.33
B15	#53	9/18-20/23	YKF WHITE ASH ENSILED	1.2	0.39	0.18	1.08	0.008	62	18	11	52	0	0.16	5	0.31	0.95	2.09	0.6	0.55	0.29
C18	#54	09/20/23	YKF WHITE ASH ENS (below BT As	1.02	0.31	0.15	1.03	0.006	69	12	13	64	0	0.16	5.2	0.1	0.97	2.13	0.62	0.57	0.31
B13	#1 FVF	09/26/23	FVF WHITE ASH ENSILED	1.13	0.18	0.27	1.15	0.004	94	11	9	61	0	0.17	5.6	0.19	0.95	2.09	0.60	0.55	0.29
C2	#2 FVF	09/27/23	FVF WHITE ASH ENSILED	0.99	0.17	0.25	1.4	0.007	81	13	8	60	0	0.16	5.9	0.28	0.99	2.19	0.63	0.58	0.32
			Ensiled White Ash Aves	1.25	0.25	0.25	1.12	0.01	81.17	15.50	9.83	60.33	0.00	0.10	5.37	0.30	0.97	2.14	0.622	0.57	0.31
PF18	Qt bag	06/30/23	MOFGA GREEN ASH FRESH	(minerals not requested)											5		1.15	2.54	0.68	0.67	0.4
PE18	Bucket	06/30/23	MOFGA GREEN ASH ENSILED	1.37	0.28	0.28	1.48	0.004	99	38	26	85	0.7	0.21	4.9	0.09	0.9	1.98	0.56	0.51	0.26
N#7	#40	07/26/23	MOFGA GREEN ASH ENS (wirth Honeysuckle etc)	(minerals not requested)											5.6		1.05	2.31	0.66	0.62	0.36
C12	#7 FVF	10/02/23	FVF GREEN ASH ENSILED	1.02	0.19	0.28	1.07	0.006	103	12	8	51	0	0.22	5.6	0.41	1.02	2.25	0.65	0.6	0.34
C5	#9	10/05/23	FVF GREEN ASH ENSILED	1.11	0.21	0.31	1.2	0.005	92	11	9	48	0	0.24	5.7	0.38	1.02	2.25	0.64	0.59	0.33
C4	#11 FVF	10/08/23	FVF GREEN ASH ENSILED	1.12	0.15	0.27	1.17	0.009	96	13	10	85	0	0.15	5.1	0.34	1	2.2	0.63	0.58	0.32
			Ensiled Green Ash Aves	1.16	0.21	0.29	1.23	0.01	97.50	18.50	13.25	67.25	0.18	0.21	5.33	0.31	0.99	2.17	0.62	0.57	0.3125
N#5	Qt bag	6/15/24	YKF BLACK CHERRY FRESH (did cyanide test)	(minerals not requested)											4.8	1.39	1.33	2.92	0.8	0.8	0.52
PF3	(Pair)	06/27/23	MOFGA BLACK CHERRY FRESH	1.27	0.23	0.19	1.15	0.01	115	41	5	43	0.1	0.12	4.9		1.07	2.36	0.65	0.61	0.35
PE3	(Pair)	06/27/23	MOFGA BLACK CHERRY ENSILED	1.2	0.22	0.18	1.11	0.01	172	40	5	45	0.2	0.13	5	0.33	0.99	2.19	0.63	0.57	0.32
C9	2022	9/30-10/01/22	YKF BLACK CHERRY ENSILED	2.56	0.4	0.34	0.72	0.007	91	18	4	61	0	0.1	4.6	0.23	1.16	2.55	0.69	0.65	0.38
B10	#7	06/30/23	MOFGA BLACK CHERRY ENSILED	0.82	0.26	0.2	1.24	0.014	103	25	5	122	0	0.13	4.5	0.42	1.05	2.32	0.67	0.62	0.36
C8	#9	07/01/23	MOFGA BLACK CHERRY ENSILED	1.34	0.24	0.26	0.94	0.007	74	23	5	259	0	0.12	4.3	0.36	1.09	2.4	0.75	0.71	0.44
B1	#11	7/5 -6/23	NDFGA BLACK CHERRY ENSILED	1.11	0.24	0.23	1.25	0.009	55	18	6	145	0	0.1	4.5	0.26	1.05	2.32	0.68	0.63	0.37
B5	#12	7/5-6/23	MOFGA BLACK CHERRY ENSILED	1.17	0.27	0.26	1.13	0.02	63	18	6	149	0	0.11	4.5	0.35	1.11	2.45	0.7	0.66	0.4
A5	#37	07/25/23	MDFGA BLACK CHERRY ENSILED	1.58	0.24	0.29	1.32	0.01	63	20	5	231	0	0.11	4.6	0.4	1.1	2.42	0.7	0.65	0.39
A12	#39	07/26/23	MOFGA BLACK CHERRY ENSILED	1.43	0.24	0.23	1.17	0.011	51	18	5	184	0	0.1	4.7	0.27	1.07	2.37	0.68	0.64	0.37
YK9	Unmarked, Gedo & Susn	08/03/23	YKF BLACK CHERRY ENSILED	1.11	0.17	0.15	0.48	0.083	77	127	4	19	0.4	0.07	4.6	0.1	1.1	2.44	0.7	0.69	0.42
C3	#46	09/02/23	YKF BLACK CHERRY ENSILED	2.62	0.7	0.44	0.8	0.011	52	22	5	98	0	0.12	5.1	0.27	1.15	2.53	0.74	0.7	0.43
C7	Bucket	10/11-12/23	YKF WW WAY BLACK CHERRY EN	1.46	0.21	0.22	1.21	0.008	106	20	6	310	0	0.12	4.8	0.32	1.14	2.51	0.72	0.68	0.42
			Ensiled Black Cherry Aves	1.49	0.29	0.25	1.03	0.02	82.45	31.73	5.09	147.55	0.05	0.11	4.65	0.30	1.09	2.41	0.70	0.65	0.39
PE21	Pair	07/01/23	MOFGA PIN CHERRY ENSILED	0.96	0.33	0.28	1.4	0.008	86	29	6	54	0.5	0.15	4	0.48	1.15	2.53	0.73	0.71	0.43
PF13		7/20-21/23	MOFGA AM BEECH FRESH	(minerals not requested)											5.4		1.1	2.42	0.63	0.63	0.36
PE13		7/20-21/23	MOFGA AM BEECH ENSILED	0.65	0.14	0.17	0.85	0.011	256	37	6	201	0.3	0.13	5.7	0	0.97	2.14	0.55	0.54	0.28
Fer#2	Bucket	7/20-21/23	MOFGA AM BEECH ENSILED 1YR PLUS	(minerals not requested)											5.4		0.98	2.15	0.57	0.55	0.29

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	Calcium	Phosph	Magnes	Potassi	Sodiu	Iron	Zinc	Coppe	Mang	PPM Moly	Sulfur	pH	% Am (CPE)	ME 1xlb	ME 1xkg	NEL	NEM	NEG
PF4	Qt bag	07/11/23	MOFGA GRAY BIRCH FRESH	(minerals not requested)											5.3		1.28	2.81	0.77	0.79	0.51
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSEILED	0.56	0.25	0.14	0.9	0.012	71	132	8	373	0	0.14	5.2	0.09	1	2.21	0.62	0.57	0.31
YK7	2022	09/30/22	2022 YKF GRAY? BIRCH ENSEILED	0.67	0.22	0.13	0.69	0.012	377	149	7	160	0.5	?	5.3	0	1.11	2.45	0.7	0.71	0.43
YK6	#26	07/15/23	MOFGA GRAY BIRCH ENSEILED	0.47	0.19	0.14	0.7	0.009	56	108	7	178	0.2	?	5.1	0	1.09	2.41	0.67	0.67	0.41
B12	#27	07/17/23	MOFGA GRAY BIRCH ENSEILED	0.51	0.22	0.16	0.8	0.008	77	87	7	286	0	0.13	5	0.06	0.97	2.13	0.61	0.55	0.3
A9	#30	07/19/23	MOFGA GRAY BIRCH ENSEILED	0.6	0.21	0.17	0.82	0.01	42	124	7	272	0	0.13	4.9	0.06	0.97	2.13	0.6	0.55	0.29
YK4	#43B	08/03/23	YKF GRAY BIRCH AT BOTTOM ENSEILED	(minerals not requested)											4.8	0	1.14	2.52	0.73	0.73	0.46
YK5	#43	08/03/23	YKF GRAY BIRCH ENSEILED	0.71	0.19	0.11	0.53	0.009	70	153	7	96	0.1	?	4.9	0	1.09	2.4	0.68	0.68	0.41
			Ensiled Gray Birch Aves	0.59	0.21	0.14	0.74	0.01	115.50	125.50	7.17	227.50	0.13	0.13	5.03	0.03	1.05	2.32	0.66	0.64	0.37
PF19	Qt bag	09/29/22	2022 YKF RED MAPLE POLLARD FRESH	(minerals not requested)											5		1.38	3.04	0.9	0.91	0.61
PE19	Bucket	09/29/22	2022 YKF RED MAPLE ENSEILED	0.83	0.25	0.15	0.63	0.01	2190	40	20	95	1.2	0.13	5.7	0.03	1.34	2.95	0.88	0.89	0.6
YK1	#8B	06/30/23	MOFGA RED MAPLE ENSEILED	0.85	0.18	0.25	1.25	0.017	130	32	6	150	0.2	0.11	5.8	0	0.95	2.09	0.56	0.54	0.29
YK2	#36	07/25/23	MOFGA RED MAPLE ENSEILED	0.83	0.18	0.17	0.81	0.096	66	150	8	194	0.3	0.1	4.2	0.05	1.3	2.86	0.84	0.85	0.56
B11	#44	09/01/23	YKF RED MAPLE ENSEILED	0.83	0.37	0.14	0.77	0.009	73	33	12	88	0	0.12	4.5	0.05	1.14	2.51	0.74	0.7	0.43
C13	#50	09/15/23	YKF RED MAPLE ENSEILED	0.99	0.22	0.16	0.77	0.006	59	31	6	87			4.4	0.06	1.12	2.47	0.73	0.69	0.42
			Ensiled Red Maple Aves	0.87	0.24	0.17	0.85	0.03	503.60	57.20	10.40	122.80	0.43	0.12	4.92	0.04	1.17	2.58	0.75	0.73	0.46
R1	Fresh	03/02/24	35F RED MAPLE RIS FRESH FROZ	0.73	0.13	0.06	0.37	0.009	21	23	7	290	0	0.06	5.2	not	not	not	not	not	not
PF11	Qt bag	07/01/23	MOFGA ROCK MAPLE FRESH	(minerals not requested)											4.3		1.2	2.63	0.75	0.73	0.46
PE11		07/01/23	MOFGA ROCK MAPLE ENSEILED	0.63	0.15	0.12	0.79	0.008	100	25	5	332	0.7	0.14	4.1	0	1.11	2.44	0.71	0.68	0.42
YK3	#55	09/24/23	MOFGA ROCK MAPLE ENSEILED	1.43	0.17	0.1	0.65	0.009	52	12	3	452	0.3	0.1	4.5	0	1.09	2.4	0.72	0.69	0.42
			Ensiled Rock Maple Aves	1.03	0.16	0.11	0.72	0.01	76.00	18.50	4.00	392.00	0.50	0.12	4.30	0.00	1.10	2.42	0.715	0.685	0.42
PF12	Qt bag	10/01/23	YKF NORWAY MAPLE HAND-STR. FRESH	(minerals not requested)											5.7		1.17	2.58	0.72	0.72	0.44
PE12		10/01/23	YKF NORWAY MAPLE Hand-str EN	1.46	0.18	0.16	1.09	0.011	318	57	7	543	1.2	0.15	5.3	0.03	1.12	2.46	0.7	0.69	0.42
N#1	Qt bag	06/24/24	BBF STRIPED MAPLE FRESH	0.74	0.3	0.24	1.29	0.004	87	21	6	1700	0		4.4	1.34	1.25	2.75	0.76	0.76	0.48
PF5		06/26/23	MOFGA BOX ELDER FRESH	(minerals not requested)											3.4		1.2	2.66	0.75	0.73	0.46
PE5		06/26/23	MOFGA BOX ELDER ENSEILED	0.98	0.29	0.17	1.61	0.012	170	31	6	76	0.8	0.17	3.5	0.28	1.22	2.7	0.76	0.75	0.48
																			NEL	NEM	NEG
PF6		10/04/23	FVF BLACK LOCUST FRESH	(minerals not requested)											5.1		1.18	2.6	0.71	0.69	0.42
PE6		10/04/23	FVF BLACK LOCUST ENSEILED	1.05	0.24	0.13	1.37	0.009	120	20	6	53	0.6	0.16	6.2	0.17	1.03	2.27	0.65	0.6	0.34
PF7		09/29/23	FVF BASSWOOD FRESH	(minerals not requested)											6.2		1.16	2.55	0.69	0.67	0.4
PE7		09/29/23	FVF BASSWOOD ENSEILED	2.32	0.24	0.41	2.12	0.014	187	63	10	385	0.3	0.22	5.5	0.45	1.08	2.39	0.65	0.62	0.36
PF10		10/01/23	FVF AMERICAN ELM FRESH	(minerals not requested)											6.1		0.97	2.14	0.57	0.55	0.29
PE10		10/01/23	FVF AMERICAN ELM ENSEILED	1.89	0.26	0.31	1.92	0.011	127	22	8	498	0.9	0.13	6	0.17	0.89	1.96	0.53	0.49	0.24

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	Calcium	Phosph	Magnes	Potassi	Sodiu	Iron	Zinc	Coppe	Mang	PPM Moly	Sulfur	pH	% Am (CPE)	ME 1xlb	ME 1xkg	NEL	NEM	NEG
PF9		6/25-26/23	MOFGA HONEYSUCKLE FRESH	(minerals not requested)										5.3		1.12	2.46	0.68	0.67	0.4	
C15	Bucket	06/25/24	MOFGA HONEYSUCKLE ENILED	1.37	0.24	0.32	1.69	0.011	349	53	7	227	0	0.17	5.2	0	0.94	2.07	0.58	0.53	0.27
A11	#1	06/23/23	MOFGA HONEYSUCKLE ENILED	1.09	0.23	0.3	1.59	0.013	348	45	7	123	0	0.15	5.3	0.04	0.95	2.1	0.61	0.55	0.3
YK8	#8B	06/30/23	MOFGA HONEYSUCKLE ENILED	0.72	0.16	0.17	0.67	0.015	60	37	5	149	0.4	0.09	4.4	0.07	1.2	2.64	0.78	0.77	0.49
B3	#5	06/29/23	MOFGA HONEYSUCKLE ENILED	1.31	0.26	0.35	1.86	0.017	234	38	6	151	0	0.16	5.4	0	0.92	2.04	0.59	0.53	0.27
A2	#10	07/06/23	MOFGA HONEYSUCKLE ENILED	1.33	0.23	0.3	1.77	0.018	126	30	6	130	0	0.14	5.1	0	0.93	2.04	0.59	0.53	0.28
N#6	#43	08/03/23	MOFGA HONEYSUCKLE ENILED,	(minerals not requested)										5.5		1.03	2.28	0.67	0.65	0.38	
			Ensiled Honeysuckle Aves	1.16	0.22	0.29	1.52	0.01	223.40	40.60	6.20	156.00	0.08	0.14	5.08	0.02	0.99	2.18	0.63	0.582	0.322
PF14		09/07/23	YKF SMOOTH BUCKTHORN FRES	(minerals not requested)										5.3		1.23	2.72	0.77	0.76	0.49	
PE14		09/07/23	YKF SMOOTH BUCKTHORN ENSIL	1.52	0.39	0.3	1.36	0.012	249	43	6	393	1.3	0.15	5.4	0.21	1.17	2.58	0.72	0.71	0.44
PF15		09/15/23	YKF WINTERBERRY FRESH	(minerals not requested)										5.7		1.19	2.63	0.72	0.73	0.45	
PE15		09/15/23	YKF WINTERBERRY ENILED	0.92	0.15	0.31	1.14	0.014	115	232	15	479	0.6	0.19	5.4	0.12	1.05	2.31	0.64	0.63	0.37
PF17		09/14/23	YKF LEATHER WOOD FRESH	(minerals not requested)										5.2		1.23	2.72	0.78	0.79	0.51	
PE17		09/14/23	YKF LEATHERWOOD ENILED	1.55	0.21	0.19	0.74	0.012	123	89	8	171	0.6	0.1	5.8	0.08	1.09	2.39	0.7	0.7	0.43
PE22		7/5-6/23	MOFGA AUTUMN OLIVE ENILED	0.7	0.18	0.12	1.98	0.009	106	23	9	295	0.3	0.21	4.8	0.13	1.04	2.29	0.58	0.56	0.3
PF8		06/25/23	MOFGA ARROW WOOD FRESH	(minerals not requested)										5		1.18	2.6	0.72	0.72	0.45	
PE8		06/25/23	MOFGA ARROW WOOD ENILED	1.17	0.2	0.2	1.26	0.011	332	108	8	433	0.8	0.15	4.6	0	0.99	2.18	0.61	0.6	0.34
N#2	Qt bag	06/25/24	YKF STAGHORN SUMAC FRESH	0.64	0.32	0.16	1.64	0.003	57	24	4	26	1.1		4.7	1.49	1.31	2.89	0.83	0.82	0.53
N#3	Qt bag	6/28-29/24	FVF BITTERSWEET FRESH	1.37	0.23	0.46	2.3	0.005	94	17	3	31	0		5.8	1.26	1.2	2.64	0.73	0.72	0.45
N#4	Qt bag	06/30/24	FVF MULTI-FLORA ROSE FRESH	1.17	0.24	0.3	2.06	0.005	180	17	8	113	0.1		4.9	1.31	1.17	2.57	0.73	0.7	0.43

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	DE Mcal/kg	A % CP	B % CP	C % CP	Kd CP	Ammon % of SP	AmCP E %CP	HDE	RFV
HA2	(Hay)	08/24/23	D. Flood 2ND CUT HAY (fed AH)	3	31	52	17	7			0.96	98
HA1	(Hay)	08/25/23	J. Morse 1ST CUT HAY (fed AL)	2	31	52	17	7			0.92	85
PF2	(Pair)	10/4 & -6/22	LAUFERS RED OAK FRESH	3	57	33	10	9			1.09	126
PE2	(Pair)	10/4 & -6/22	LAUFERS RED OAK ENILED	2	57	33	10	9		0.9		118
B4	#4 2022	10/4 & -6/22	LAUFERS' OAK ENILED	3	31	62	7	12				137
B2	#3 FVF	09/28/23	FVF RED OAK ENILED	3	31	62	7	12		0.7		147
C14	#11 FVF	10/08/23	FVF RED OAK (above Gr Ash)	3	31	62	7	12		0.2		156
A1	#12	10/09/23	FVF RED OAK ENILED	3	31	62	7	12		0.4		123
			Ensiled Red Oak Aves	2.8	36.2	56.2	7.6	11.4		0.55		136.2

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	DE Mcal/kg	A % CP	B % CP	C % CP	Kd CP	Ammon % of SP	AmCP E %CP	HDE	RFV
A7	#14	07/08/23	MOFGA QUAKING ASPEN ENSILE	3	31	62	7	12	4	0.4		183
B6	#16	07/11/23	MOFGA QUAKING ASPEN ENSILE	3	31	62	7	12	17	3.9		210
A4	#19	07/12/23	MOFGA QUAKING ASPEN ENSILE	3	31	62	7	12	4	0.4		174
C11	#20	07/12/23	MOFGA QUAKING ASPEN ENSILE	3	31	62	7	12	0	0		212
A6	#21	07/13/23	MDFGA QUAKING ASPEN ENSILE	3	31	62	7	12	5	0.4		234
B8	#25	07/15/23	MOFGA QUAKING ASPEN ENSILE	3	31	62	7	12	4	0.4		199
A3	#35	07/20/23	MOFGA QUAKING ASPEN ENSILE	3	31	62	7	12	6	0.5		197
			Ensiled Quaking Aspen Aves	3.00	31.00	62.00	7.00	12.00	5.71	0.86		201.32
PF16B		10/11/23	YKF BIG TOOTHED ASPEN FRESH	3	31	62	7	12				163
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSIL	2	31	62	7	12	5	0.8		156
Fer#1	Bucket	09/28/23	YKF BT ASPEN Hand-str ENS 1+yr	3	57	33	10	9				148
C6	#56	10/10-11/23	BIG TOOTHED ASPEN ENSILED	3	31	62	7	12	11	1.1		168
			Ensiled Big-Toothed Aspen Aves	2.50	31.00	62.00	7.00	12.00	5.00	0.95		161.98
PF1	(Pair)	09/18/23	YKF WHITE ASH FRESH	3	57	33	10	9			1.24	177
PE1	(Pair)	09/18/23	YKF WHITE ASH ENSILED	3	57	33	10	9	27	4.8		185
PF20		10/06/23	FVF WHITE ASH FRESH	3	31	62	7	12				171
A13	#10 FVF	10/06/23	FVF WHITE ASH ENSILED	3	31	62	7	12	15	4.5		161
B15	#53	9/18-20/23	YKF WHITE ASH ENSILED	3	31	62	7	12	17	2.9		141
C18	#54	09/20/23	YKF WHITE ASH ENS (below BT As	3	31	62	7	12	8	0.9		161
B13	#1 FVF	09/26/23	FVF WHITE ASH ENSILED	3	31	62	7	12	13	1.6		152
C2	#2 FVF	09/27/23	FVF WHITE ASH ENSILED	3	31	62	7	12	12	2.2		166
			Ensiled White Ash Aves	3.00	36.20	56.20	7.60	11.40	16.80	3.20		161.04
PF18		06/30/23	MOFGA GREEN ASH FRESH	3	31	62	7	12				146
PE18	Bucket	06/30/23	MOFGA GREEN ASH ENSILED	2	31	62	7	12	4	0.5		171
N#7	#40	07/26/23	MOFGA GREEN ASH ENS (wirth Hc	3	57	33	10	9				159
C12	#7 FVF	10/02/23	FVF GREEN ASH ENSILED	3	31	62	7	12	18	3.4		178
C5	#9	10/05/23	FVF GREEN ASH ENSILED	3	31	62	7	12	12	3		168
C4	#11 FVF	10/08/23	FVF GREEN ASH ENSILED	3	31	62	7	12	12	3.3		150
			Ensiled Green Ash Aves	2.75	31.00	62.00	7.00	12.00	11.50	2.55		165.25

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	DE Mcal/kg	A % CP	B % CP	C % CP	Kd CP	Ammon % of SP	AmCP E %CP	HDE	RFV
N#5	Qt bag	6/15/24	YKF BLACK CHERRY FRESH (did c	3	57	33	10	9				213
PF3	(Pair)	06/27/23	MOFGA BLACK CHERRY FRESH	2	31	62	7	12	4	0.5		160
PE3	(Pair)	06/27/23	MOFGA BLACK CHERRY ENSEILED	3	57	33	10	9	13	2.5		154
B10	#7	06/30/23	MOFGA BLACK CHERRY ENSEILED	3	31	62	7	12	14	2.6		222
C8	#9	07/01/23	MOFGA BLACK CHERRY ENSEILED	3	31	62	7	12	13	2.5		330
B1	#11	7/5 -6/23	MOFGA BLACK CHERRY ENSEILED	3	31	62	7	12	12	2.1		205
B5	#12	7/5-6/23	MOFGA BLACK CHERRY ENSEILED	3	31	62	7	12	12	2.4		242
A5	#37	07/25/23	MDFGA BLACK CHERRY ENSEILED	3	31	62	7	12	15	2.8		224
A12	#39	07/26/23	MOFGA BLACK CHERRY ENSEILED	3	31	62	7	12	12	2		211
YK9	Unmarked, Gedo & Susn	08/03/23	YKF BLACK CHERRY ENSEILED	3	31	62	7	12		1.3		148
C3	#46	09/02/23	YKF BLACK CHERRY ENSEILED	3	31	62	7	12	10	1.8		310
C9	2022	9/30-10/01/22	YFK BLACK CHERRY ENSEILED	3	31	62	7	12	7	1.9		229
C7	Bucket	10/11-12/23	YKF WW WAY BLACK CHERRY EN	3	31	62	7	12	10	2.1		278
			Ensiled Black Cherry Aves	3.00	33.36	59.36	7.27	11.73	11.80	2.18		240.32
PE21	Pair	07/01/23	MOFGA PIN CHERRY ENSEILED	3	31	62	7	12	21	2.8		187
PF13		7/20-21/23	MOFGA AM BEECH FRESH	3	31	62	7	12				115
PE13		7/20-21/23	MOFGA AM BEECH ENSEILED	3	31	62	7	12	0	0		99
Fer#2	Bucket	7/20-21/23	MOFGA AM BEECH ENSEILED 1YR	3	57	33	10	9				105
												102.16
PF4	Pair	07/11/23	MOFGA GRAY BIRCH FRESH	3	31	62	7	12				
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSEILED	3	31	62	7	12	not enough?	0.6		147
YK7	2022	09/30/22	*2022 YKF GRAY? (Red?) BIRCH E	3	31	62	7	12		0		119
YK6	#26	07/15/23	MOFGA GRAY BIRCH ENSEILED	3	31	62	7	12		0		116
B12	#27	07/17/23	MOFGA GRAY BIRCH ENSEILED	3	31	62	7	12	not enough?	0.4		148
A9	#30	07/19/23	MOFGA GRAY BIRCH ENS (packed	3	31	62	7	12	not enough?	0.4		142
YK4	#43B	08/03/23	YKF GRAY BIRCH AT BOTTOM EN	3	31	62	7	12		0		142
YK5	#43	08/03/23	YKF GRAY BIRCH ENSEILED	3	31	62	7	12		0		131
			Ensiled Gray Birch Aves	3.00	31.00	62.00	7.00	12.00		0.20		135.00
			*This birch was highly palatable and fully consumed; all others poorly utilized.									
PF19	Pair	09/29/22	2022 YKF RED MAPLE POLLARD F	3	31	62	7	12				281
PE19	Bucket	09/29/22	2022 YKF RED MAPLE POLLARD E	3	31	62	7	12		0.3		251
YK1	#8B	06/30/23	MOFGA RED MAPLE ENSEILED	3	31	62	7	12	0	0		97
YK2	#36	07/25/23	MOFGA RED MAPLE ENSEILED	3	31	62	7	12	4	0.5		200
B11	#44	09/01/23	YKF RED MAPLE ENSEILED	3	31	62	7	12	not enough?	0.5		283
C13	#50	09/15/23	YKF RED MAPLE ENSEILED	3	31	62	7	12	4	0.6		269
			Ensiled Red Maple Aves	3.00	31.00	62.00	7.00	12.00		0.38		276.24
R1	Fresh	03/02/24	3SF RED MAPLE RIS FRESH FROZ	not	0	0	0	0	not requer	not reque		97

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	DE Mcal/kg	A % CP	B % CP	C % CP	Kd CP	Ammon % of SP	AmCP E %CP	HDE	RFV
PF11		07/01/23	MOFGA ROCK MAPLE FRESH	3	31	62	7	12				213
PE11		07/01/23	MOFGA ROCK MAPLE ENSILED	3	31	62	7	12	0	0		188
YK3	#55	09/24/23	MOFGA ROCK MAPLE ENSILED	3	31	62	7	12	0	0		201
			EnsiLED Rock Maple Aves	3	31	62	7	12				194.36
PE12		10/01/23	YKF NORWAY MAPLE Hand-str EN	3	31	62	7	12		0.2		153
N#1	Qt bag	06/24/24	BBF STRIPED MAPLE FRESH	3	57	33	10	9				183
PF5		06/26/23	MOFGA BOX ELDER FRESH	3	31	62	7	12				203
PE5		06/26/23	MOFGA BOX ELDER ENSILED	3	31	62	7	12	8	1.7		204
PF6		10/04/23	FVF BLACK LOCUST FRESH	3	31	62	7	12				174
PE6		10/04/23	FVF BLACK LOCUST ENSILED	3	31	62	7	12	8	1		170
PF7		09/29/23	FVF BASSWOOD FRESH	3	31	62	7	12				153
PE7		09/29/23	FVF BASSWOOD ENSILED	3	31	62	7	12	16	2.3		143
PF10		10/01/23	FVF AMERICAN ELM FRESH	3	31	62	7	12				124
PE10		10/01/23	FVF AMERICAN ELM ENSILED	2	31	62	7	12		1.4		121
PF9		6/25-26/23	MOFGA HONEYSUCKLE FRESH	3	31	62	7	12				136
C15	Bucket	06/25/24	MOFGA HONEYSUCKLE ENSILED	2	31	62	7	12	0	0		138
A11	#1	06/23/23	MOFGA HONEYSUCKLE ENSILED	3	31	62	7	12	2	0.3		168
B3	#5	06/29/23	MOFGA HONEYSUCKLE ENSILED	2	31	62	7	12	0	0		151
YK8	#8B	06/30/23	MOFGA HONEYSUCKLE ENSILED	3	31	62	7	12		0.7		209
A2	#10	07/06/23	MOFGA HONEYSUCKLE ENSILED	2	31	62	7	12	0	0		148
N#6	#43	08/03/23	MOFGA HONEYSUCKLE ENSILED	3	57	33	10	9				145
			EnsiLED Honeysuckle Aves	2.4	31	62	7	12	0.5	0.2		151.25
PF14		09/07/23	YKF SMOOTH BUCKTHORN FRES	3	31	62	7	12				209
PE14		09/07/23	YKF SMOOTH BUCKTHORN ENSIL	3	31	62	7	12		1.4		164
PF15		09/15/23	YKF WINTERBERRY FRESH	3	31	62	7	12				144
PE15		09/15/23	YKF WINTERBERRY ENSILED	3	31	62	7	12	8	0.9		122
PF17		09/14/23	YKF LEATHER WOOD FRESH	3	31	62	7	12				173
PE17		09/14/23	YKF LEATHERWOOD ENSILED	3	31	62	7	12	18	0.9		137
PE22		7/5-6/23	MOFGA AUTUMN OLIVE ENSILED	3	31	62	7	12	3	0.6		111

Samp ID	Barrel	Harvest Date	Site, Species, Condition, notes	DE Mcal/kg	A % CP	B % CP	C % CP	Kd CP	Ammon % of SP	AmCP E %CP	HDE	RFV
PF8		06/25/23	MOFGA ARROW WOOD FRESH	3	31	62	7	12				139
PE8		06/25/23	MOFGA ARROW WOOD ENSILED	3	31	62	7	11.01	0	0		114
N#2	Qt bag	06/25/24	YKF STAGHORN SUMAC FRESH	3	57	33	10	9				308
N#3	Qt bag	6/28-29/24	FVF BITTERSWEET FRESH	3	57	33	10	9				176
N#4	Qt bag	06/30/24	FVF MULTI-FLORA ROSE FRESH	3	57	33	10	9				205

Species Ensiled Aves (10 species with multiple samples)	Moisture	Dry Matter	Crude Protein	Availab Protein	ADIC P	Adj Crud Protein	Sol P %CP	R Degr P %CP	SP %DM	RDP %DM	ADF	NDF	Dig F	NFC	WSC	Cr Fat	Ash	TDN
2ND CUT HAY PACKED 12/21/23	18.60	81.40	18.60			18.60	33	70.00	6.14	13.02	35.90	57.60	21.70	13.90	7.50			57.00
1ST CUT HAY PACKED 12/21/23	17.00	83.00	9.40			9.40	28	62.00	2.63	5.83	38.50	64.30	25.80	16.30	9.70			55.00
Dairy One Ave 2004-'24 Grass Hay		9.27	11.03				33.94	65.02	3.74	7.17	38.05	61.19		19.40	11.33	2.63	7.83	58.86
Dairy One Ave 2004-'24 Grass Silage		38.25	15.48				53.19	70.70	8.23	10.94	37.22	57.33		16.80	7.96	3.97	9.51	61.67
Ave of Species Aves, 10 Woody Species (ensiled only)	57.30	42.70	12.37	8.24	4.13	8.54	14.53	23.31	1.84	2.77	26.05	37.70	11.66	38.78	9.93	5.96	4.80	62.30
Red Oak Aves	52.92	47.08	14.66	11.84	2.80						28.60	45.96	17.36		5.35	6.50		60.20
Honeysuckle Aves	61.84	38.16	12.86	7.12	5.74	8.30	11.25	19.50		2.51	27.20	39.44	12.24	47.20	10.40	6.60	5.00	59.80
Quaking Aspen Aves	60.07	39.93	14.18	10.10	4.07	11.10	11.50	18.00	1.63	2.55	23.50	33.15	9.65		11.17			61.67
Big-Toothed Aspen Aves	60.95	39.05	13.52	8.61	4.90	9.70	11.38	18.75	1.59	2.51	25.35	36.30	10.95		10.78			60.74
White Ash Aves	58.08	41.92	11.08	6.58	4.48	7.58	18.00	19.20	1.99	2.13	26.75	39.20	12.45		8.38			59.33
Green Ash Aves	58.13	41.88	12.98	7.98	5.00	8.98	21.75	27.75	2.82	3.60	28.60	41.23	12.63	22.90	7.45	4.90	6.77	59.25
Black Cherry Aves	58.88	41.12	13.47	10.28	3.19	11.83	19.70	20.75	2.65	2.80	22.19	30.02	7.83	42.50	8.77	4.90	4.00	64.18
Gray Birch Aves	54.09	45.91	11.56	6.66	4.89	5.83		(54)			31.87	44.40	12.53	33.78	8.24	6.98	3.09	63.00
Red Maple Aves	55.14	44.86	9.98	7.66	2.30	7.00	13.67	32.50	1.36	3.24	23.50	33.30	9.80	39.63	14.48	7.37	4.66	68.80
Rock Maple Aves	52.90	47.10	9.45	5.55	3.90	6.55	9.00	30.00	0.85	2.84	22.90	34.05	11.15	46.70	14.30	4.45	5.32	66.00
Ave of Species Aves, 10 Woody Species (ensiled only)	57.30	42.70	12.37	8.24	4.13	8.54	14.53	23.31	1.84	2.46	26.05	37.70	11.66	38.78	9.93	5.96	4.80	62.30

NEL	NEM	NEG	Species Aves	Calcium	Phosph	Magnes	Potassi	Sodiu	Iron	Zinc	Copper	Mang	PPM	Sulfur	pH	% Am	ME	ME	TDN1
								m					Moly		(CPE)	1xlb	1xkg	X	
0.53	0.52	0.26	2ND CUT HAY PACKED 12/21/23	0.55	0.50	0.20	3.30	0.02	604.00	45.00	11.00	73.00	2.80	0.31		1.01	2.22	57.00	
0.47	0.48	0.23	1ST CUT HAY PACKED 12/21/23	0.59	0.22	0.16	1.02	0.11	122.00	40.00	5.00	343.00	1.10	0.17		0.91	2.01	55.00	
0.52	0.53	0.28	Dairy One Ave 2004-'24 Grass Hay	0.466	0.243	0.211	1.865	0.084	207.84	29.22	7.85	88.1	1.38	0.184	6.28				
0.56	0.59	0.33	Dairy One Ave 2004-'24 Grass Silage	0.115	0.334	0.226	2.506	0.142	673.665	37.97	9.76	101.13	1.649	0.222	4.7				
0.66	0.64	0.38	Ave of species aves across species	1.08	0.22	0.21	0.97	0.01	137.23	74.57	7.82	250.48	0.14	0.14	5.05	0.13	1.04	2.29	62.08
0.61	0.58	0.32	Red Oak Aves	0.84	0.21	0.18	0.89	0.01	79.25	38.00	5.50	780.25	0.05	0.14	5.48	0.08	1.03	2.26	60.20
0.63	0.58	0.32	Honeysuckle Aves	1.16	0.22	0.29	1.52	0.01	223.40	40.60	6.20	156.00	0.08	0.14	5.08	0.02	0.99	2.18	59.80
0.66	0.62	0.35	Quaking Aspen Aves	1.10	0.24	0.23	0.94	0.01	55.43	126.71	7.29	112.14	0.00	0.15	5.27	0.13	1.04	2.30	61.71
0.65	0.60	0.34	Big-Toothed Aspen Aves	1.32	0.18	0.21	0.62	0.01	58.00	273.50	9.50	439.00	0.00	0.16	5.10	0.11	0.96	2.11	58.50
0.62	0.57	0.31	White Ash Aves	1.25	0.25	0.25	1.12	0.01	81.17	15.50	9.83	60.33	0.00	0.10	5.37	0.30	0.97	2.14	59.33
0.62	0.57	0.31	Green Ash Aves	1.16	0.21	0.29	1.23	0.01	97.50	18.50	13.25	67.25	0.18	0.21	5.33	0.31	0.99	2.17	59.25
0.70	0.65	0.39	Black Cherry Aves	1.49	0.29	0.25	1.03	0.02	82.46	31.73	5.09	147.55	0.05	0.11	4.66	0.30	1.09	2.41	64.18
0.66	0.64	0.37	Gray Birch Aves	0.59	0.21	0.14	0.74	0.01	115.50	125.50	7.17	227.50	0.13	0.13	5.03	0.03	1.05	2.32	63.00
0.75	0.73	0.46	Red Maple Aves	0.87	0.24	0.17	0.85	0.03	503.60	57.20	10.40	122.80	0.43	0.12	4.92	0.04	1.17	2.58	68.80
0.72	0.69	0.42	Rock Maple Aves	1.03	0.16	0.11	0.72	0.01	76.00	18.50	4.00	392.00	0.50	0.12	4.30	0.00	1.10	2.42	66.00
0.66	0.64	0.38	Ave of species aves across species	1.08	0.22	0.21	0.97	0.01	137.23	74.57	7.82	250.48	0.14	0.14	5.05	0.13	1.04	2.29	62.08
									Ammoni	Amm-									
			Species Aves	DE	A % CP	B % CP	C % CP	Kd CP	a % of SP	CPE %CP	HDE	RFV							
			2ND CUT HAY PACKED 12/21/23	3	31	52	17	7			0.96	98							
			1ST CUT HAY PACKED 12/21/23	2	31	52	17	7			0.92	85							
			Dairy One Ave 2004-'24 Grass Hay									130.5							
			Dairy One Ave 2004-'24 Grass Silage						9.56	1.228		98.71							
			Ave of Species Aves, 10 Woody Species (ensiled only)	2.85	32.28	60.58	7.15	11.85	7.33	1.11		184.06							
			Red Oak Aves	2.80	36.20	56.20	7.60	11.40		0.55		136.20							
			Honeysuckle Aves	2.40	31.00	62.00	7.00	12.00	0.50	0.20		151.25							
			Quaking Aspen Aves	3.00	31.00	62.00	7.00	12.00	5.71	0.86		201.32							
			Big-Toothed Aspen Aves	2.50	31.00	62.00	7.00	12.00	5.00	0.95		161.98							
			White Ash Aves	3.00	36.20	56.20	7.60	11.40	16.80	3.20		161.04							
			Green Ash Aves	2.75	31.00	62.00	7.00	12.00	11.50	2.55		165.25							
			Black Cherry Aves	3.00	33.36	59.36	7.27	11.73	11.80	2.18		240.32							
			Gray Birch Aves	3.00	31.00	62.00	7.00	12.00		0.20		162.92							
			Red Maple Aves	3.00	31.00	62.00	7.00	12.00		0.38		276.24							
			Rock Maple Aves	3.00	31.00	62.00	7.00	12.00	0.00	0.00									
			Ave of Species Aves, 10 Woody Species (ensiled only)	2.85	32.28	60.58	7.15	11.85	7.33	1.11		184.06							