

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

Differences of Ensiled minus Fresh Levels of Nutrients and Measurements in Paired Samples, grouped into 3 Harvest-Date Categories, to look at Effects of Fermentation-Time (before winter coolness)

			%		Crude P	Adj Cr.	Sol P	Sol P	Degr P	Degr P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	NEL	NEM	NEG	RFV	pH
June 25 - July 20, 2023			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
06/25/23	MOFGA ARROW WOOD	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	0	-0.24	-8	-0.11	-0.12	-0.11	-25.79	-0.4
6/25-26/23	MOFGA HONEYSUCKLE	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			-8	-0.1	-0.14	-0.13	2.38	-0.1
06/26/23	MOFGA BOX ELDER	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	1.3	0.33	1	0.01	0.02	0.02	-7.41	0.1
06/27/23	MOFGA BLACK CHERRY	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	0.5	1	-3	-0.02	-0.04	-0.03	-7	0.1
06/30/23	MOFGA GREEN ASH	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	0.9	1.54	-11	-0.12	-0.16	-0.14	-29.87	-0.1
07/01/23	MOFGA ROCK MAPLE	Diff Ensiled minus Fresh	5.7	-5.7	-0.4						4.3	2.7	-2.9	-8.7	0.7	-0.04	-3	-0.04	-0.05	-0.04	-30.18	-0.2
07/11/23	MOFGA GRAY BIRCH	Diff Ensiled minus Fresh	3.2	-3.2	-0.1						-1.6	-1.1		2.8			-13	-0.15	-0.22	-0.2	6.42	-0.1
7/20-21/23	MOFGA BEECH	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	-0.6	-0.1	-5	-0.08	-0.09	-0.08	-15.20	0.3
	AVERAGE DIFF	Ensiled minus Fresh	3.475	-3.475	1.0125	-3.4333	2.5	0.577	-5.167	-0.165	3.088	2.188	-8.586	-3.875	0.467	0.415	-6.25	-0.08	-0.1	-0.09	-13.33	-0.05
	MAXIMUM DIFF	Ensiled minus Fresh	5.9	-0.8	3.8	1.2	8	1.427	3	0.943	9.2	6.7	-1.2	2.8	1.3	1.54	1	0.01	0.02	0.02	6.4165	0.3
	MINIMUM DIFF	Ensiled minus Fresh	0.8	-5.9	-0.4	-8.2	-1	-0.111	-23	-1.603	-1.6	-1.2	-31.8	-9.3	-0.6	-0.24	-13	-0.15	-0.22	-0.2	-30.18	-0.4
	RANGE of DIFF	Ensiled minus Fresh	5.1	5.1	4.2	9.4	9	1.538	26	2.546	10.8	7.9	30.6	12.1	1.9	1.78	14	0.16	0.24	0.22	36.593	0.7
September 7 - September 18, 2023			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
09/07/23	YKF SMOOTH BUCKTHOR	Diff Ensiled minus Fresh	0.8	-0.8	1.1						5.6	6.4	-8.4	-8.8	0.7	0.3	-3	-0.05	-0.05	-0.05	-44.85	0.1
09/14/23	YKF LEATHER WOOD	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	0.6	0.11	-6	-0.08	-0.09	-0.08	-35.88	0.6
09/15/23	YKF WINTERBERRY	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	0.2	0.5	-7	-0.08	-0.1	-0.08	-22.63	-0.3
09/18/23	YKF WHITE ASH	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	1.3	0.33	-3	-0.02	-0.04	-0.04	8	-0.5
	AVERAGE DIFF	Ensiled minus Fresh	0.025	-0.025	0.2	-4.4667	4	0.448	-8	-0.796	3.575	4.375	-5.25	-4.475	0.7	0.31	-4.75	-0.06	-0.07	-0.06	-23.84	-0.02
	MAXIMUM DIFF	Ensiled minus Fresh	1.7	1.7	1.1	-3.6	6	0.81	2	0.136	5.6	6.7	1.5	-0.9	1.3	0.5	-3	-0.02	-0.04	-0.04	8	0.6
	MINIMUM DIFF	Ensiled minus Fresh	-1.7	-1.7	-0.8	-5.1	1	0.055	-17	-1.687	-0.5	-1.4	-7.5	-5.6	0.2	0.11	-7	-0.08	-0.1	-0.08	-44.85	-0.5
	RANGE of DIFF	Ensiled minus Fresh	3.4	3.4	1.9	1.5	5	0.755	19	1.823	6.1	8.1	9	4.7	1.1	0.39	4	0.06	0.06	0.04	52.849	1.1
September 29 - October 11, 2023			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
09/29/23	FVF BASSWOOD FRESH	Diff Ensiled minus Fresh	2.6	-2.6	0.4						0.8	2.7	-4.7	-5.9	0.5	1	-4	-0.04	-0.05	-0.04	-10.42	-0.7
10/01/23	YKF NORWAY MAPLE HAM	Diff Ensiled minus Fresh	5.5	-5.5	0.8						0.4	1.8	-3.7	-4.5	1	0.31	-3	-0.02	-0.03	-0.02	-7.41	-0.4
10/01/23	FVF AMERICAN ELM FRES	Diff Ensiled minus Fresh	0.6	-0.6	1						0.6	0.6	-2.2	-4	0.2	0.49	-4	-0.04	-0.06	-0.05	-2.18	-0.1
10/04/23	FVF BLACK LOCUST FRES	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	0.7	0.5	-6	-0.06	-0.09	-0.08	-7.41	
10/06/23	FVF WHITE ASH FRESH	Diff Ensiled minus Fresh	1.3	-1.3	0.5	-1.2	13	1.29			1.5	1.6		1			-8	-0.11	-0.15	-0.14	-10.04	-0.1
10/11/23	YKF BIG TOOTHED ASPEN	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			-14	-0.18	-0.25	-0.23	-6.52	-0.3
	AVERAGE DIFF	Ensiled minus Fresh	1.783333	-1.783	0.66667	-3.6667	5.333	0.551	-1.5	-0.21	0.917	1.367	-10.12	-3.383	0.6	0.575	-6.5	-0.08	-0.11	-0.09	-7.329	-0.32
	MAXIMUM DIFF	Ensiled minus Fresh	5.5	0.8	1.1	-1.2	13	1.294	2	0.394	1.5	2.7	-1.7	1	1	1	-3	-0.02	-0.03	-0.02	-2.178	-0.1
	MINIMUM DIFF	Ensiled minus Fresh	-0.8	-5.5	0.2	-6.3	-2	-0.318	-5	-0.813	0.4	0.4	-38.3	-5.9	0.2	0.31	-14	-0.18	-0.25	-0.23	-10.42	-0.7
	RANGE of DIFF	Ensiled minus Fresh	6.3	6.3	0.9	5.1	15	1.612	7	1.207	1.1	2.3	36.6	6.9	0.8	0.69	11	0.16	0.22	0.21	8.2393	0.6

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Comparison of Fresh to Ensiled Changes in 3 Harvest-Date Groups of Samples

(Longest ensilement = earliest harvest-date.) (Differing Sites may confound this comparison.)

Harvest Date-Category & Description		Site	%		Crude P	Adj Cr.	Sol P	Sol P	Degr P	Degr P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	NEL	NEM	NEG	RFV	pH
			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
June 25 – July 20	AVE FRESH SAMPLE DATA		60.66	39.34	12.85	13.11	12.17	1.57	31.00	3.94	27.61	41.28	35.73	10.08	5.15	5.73	66.88	0.70	0.69	0.42	156.63	4.83
	Mofga S Parking Field, 6 trees & 2 shrubs	AVE DIFFERENCE Ensiled minus Fresh	3.475	-3.475	1.0125	-3.4333	2.5	0.577	-5.167	-0.165	3.088	2.188	-8.586	-3.875	0.467	0.415	-6.25	-0.08	-0.1	-0.09	-13.33	-0.05
Sum of all differences, treated as positive numbers =																						58.1653
Sept 7 – Sept 18	AVE FRESH SAMPLE DATA		61.325	38.675	11.625	10.733	7.667	0.837	26	2.807	25.05	37.2	39.33	12.33	6.55	6.083	70	0.755	0.755	0.48	174.42	5.475
	YKF, mostly WW Way, Fungal damage on White Ash; other 3 are shrubs	AVE DIFFERENCE Ensiled minus Fresh	0.025	-0.025	0.2	-4.4667	4	0.448	-8	-0.796	3.575	4.375	-5.25	-4.475	0.7	0.31	-4.75	-0.06	-0.07	-0.06	-23.84	-0.02
Sum of all differences, treated as positive numbers =																						65.3353
Sept 29 - Oct 11	AVE FRESH SAMPLE DATA		59.71667	40.283	13.0333	11.9	14.33	1.689	24.667	2.9433	24.7	41.75	31.45	9.717	5.967	7.757	66.5	0.705	0.695	0.42	157.4	5.84
	4 FVF, Healthy tree leaves 2 YKF, BT Aspen leaves senescing	AVE DIFFERENCE Ensiled minus Fresh	1.783333	-1.783	0.66667	-3.6667	5.333	0.551	-1.5	-0.21	0.917	1.367	-10.12	-3.383	0.6	0.575	-6.5	-0.08	-0.11	-0.09	-7.329	-0.32
Sum of all differences, treated as positive numbers =																						46.7276
Harvest Date	Samp ID	Harvest Site, Species	%		Crude P	Adj Cr.	Sol P	Sol P	Degr P	Degr P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	NEL	NEM	NEG	RFV	pH
			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
06/25/23	PF8	MOFGA ARROW WOOD FRESH	60.9	39.1	12	12	12	1.44	23.00	2.76	31.4	43	32.5	9.4	6.4	6.08	68	0.72	0.72	0.45	139	5
6/25-26/23	PF9	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	5.2	6.89	65	0.68	0.67	0.4	136	5.3
06/26/23	PF5	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	4.5	5.9	69	0.75	0.73	0.46	203	3.4
06/27/23	PF3	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	6.4	10.02	62	0.65	0.61	0.35	161	4.9
06/30/23	PF18	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	4	5.23	66	0.68	0.67	0.4	146	5
07/01/23	PF11	MOFGA ROCK MAPLE FRESH	48	52	11		failed		failed		18.7	32.5	49.5	20.1	3.2	3.75	69	0.75	0.73	0.46	213	4.3
07/11/23	PF4	MOFGA GRAY BIRCH FRESH	58.8	41.2	14.1	14.1					30.7	43	31.3	6.8	7.8	3.74	72	0.77	0.79	0.51	141	5.3
7/20-21/23	PF13	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	3.7	4.19	64	0.63	0.63	0.36	115	5.4
		Ave	60.66	39.34	12.85	13.11	12.17	1.57	31.00	3.94	27.61	41.28	35.73	10.08	5.15	5.73	66.88	0.70	0.69	0.42	156.63	4.83
Harvest Date	Samp ID	Harvest Site, Species (19)	%		Crude P	Adj Cr.	Sol P	Sol P	Degr P	Degr P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	NEL	NEM	NEG	RFV	pH
			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
09/07/23	PF14	YKF SMOOTH BUCKTHORN FRESH	67.4	32.6	14.3		failed		failed		20.3	32.5	39.8	15.3	6.3	7.06	70	0.77	0.76	0.49	209	5.3
09/14/23	PF17	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	7.4	5.68	72	0.78	0.79	0.51	173	5.2
09/15/23	PF15	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	5.9	4.58	69	0.72	0.73	0.45	144	5.7
09/18/23	PF1	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	6.6	7.01	69	0.75	0.74	0.47	171	5.7
		Ave	61.325	38.675	11.625	10.733	7.667	0.837	26	2.807	25.05	37.2	39.33	12.33	6.55	6.083	70	0.755	0.755	0.48	174.42	5.475
Harvest Date	Samp ID	Harvest Site, Species (19)	%		Crude P	Adj Cr.	Sol P	Sol P	Degr P	Degr P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	NEL	NEM	NEG	RFV	pH
			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
09/29/23	PF7	FVF BASSWOOD FRESH	65	35	19.4		failed		failed		24	42.6	21.6	9.5	6.4	10.02	65	0.69	0.67	0.4	153	6.2
10/01/23	PF12	YKF NORWAY MAPLE HAND-STR. FRE	55.3	44.7	12		failed		failed		23.6	41	33.3	9.3	6.4	7.19	68	0.72	0.72	0.44	160	5.7
10/01/23	PF10	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	0.57	0.55	0.29	124	6.1
10/04/23	PF6	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	3.2	5.26	67	0.71	0.69	0.42	174	
10/06/23	PF20	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	6.6	7.01	69	0.75	0.74	0.47	171	5.7
10/11/23	PF16B	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	8.1	5.07	72	0.79	0.8	0.52	163	5.5
		Ave	59.71667	40.283	13.0333	11.9	14.33	1.689	24.667	2.9433	24.7	41.75	31.45	9.717	5.967	7.757	66.5	0.705	0.695	0.42	157.4	5.84

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Averages of Fresh-Sample Nutrient Levels and Measures for 3 Date Categories Compared

Site & sample-group comments	Site/s	Harvest-Date category	%		Crude P	Adj Cr.	Sol P	Sol P	Degr P	Degr P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	NEL	NEM	NEG	RFV	pH
			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
S Parking Field, trees & 2 shrubs	6 MOFGA	June 25 – July 20	60.66	39.34	12.85	13.11	12.17	1.57	31.00	3.94	27.61	41.28	35.73	10.08	5.15	5.73	66.88	0.70	0.69	0.42	156.63	4.83
YKF, mostly WW Way, Fungal damage on White Ash; other 3 are shrubs	YKF	Sept 7 – Sept 18	61.325	38.675	11.625	10.733	7.667	0.837	26	2.807	25.05	37.2	39.33	12.33	6.55	6.083	70	0.755	0.755	0.48	174.42	5.475
4 FVF, Healthy tree leaves 2 YKF, BT Aspen leaves senescing	FVF & YKF	Sept 29 - Oct 11	59.71667	40.283	13.0333	11.9	14.33	1.689	24.667	2.9433	24.7	41.75	31.45	9.717	5.967	7.757	66.5	0.705	0.695	0.42	157.4	5.84

Protein is and should be highest at earliest harvest.

ADF went down with later harvest.

YKF in early to mid- September scored highest*

FVF was probably richest site, guessing by highest yield/LFT & leaf-color observation, & included mature trees.

NDF possibly would, but confounded by richness of FVF?

on TDN, Energy and Feed Value.

Do NFC & WSC go up or down with senescence? (YKF was further into senescence than FVF)

Leaves from MOFGA had lowest pH Is this from early harvest, +/- or soil?

* YKF early to mid-Sept harvest has highest NFC, WSC, Fat, TDN, Energy and RFV fresh averages, with highest values for 2 shrubs, Leatherwood & Buckthorn (our 1st-pick staple browse with long leaf-season).

** FVF/YKF latest harvest-period fresh NFC, WSC, Fat, TDN, Energy and RFV figures are strangely lowest for FVF Basswood & American Elm, both known to be top-choice European fodder species. Some assets as staple fodders are that Basswood screened low (3, of 1-10, Zeller 2024) in Condensed Ttannins; and Elm in Europe had highest nutrition that stayed stable throughout the leaf-season (Austad & Hauge 20__, Pollarding in Western Norway).

Crude Fat was higher at farms than at MOFGA. Is this due to later harvest, or site richness?

5.0286 pH for MOFGA earliest harvest, if remove Box Elder

Harvest Date	Samp ID	Harvest Site, Species	%		Crude P	Adj Cr.	Sol P	Sol P	Degr P	Degr P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	NEL	NEM	NEG	RFV	pH
			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
06/25/23	PE8	MOFGA ARROW WOOD ENSILED	63.8	36.2	12.8	6.4	15	1.92	20.00	2.56	36.2	49.7	25.3	5.1	6.4	5.84	60	0.61	0.6	0.34	114	4.6
06/25/24	C15	MOFGA HONEYSUCKLE ENSILED	74.6	25.4	14.9	9.7	13	1.94	25.00	3.73	30.9	43.8		4.3	not req	not req	57	0.58	0.53	0.27	138	5.2
06/26/23	PE5	MOFGA BOX ELDER ENSILED	77.8	22.2	16.1	15	21	3.38	41.00	6.60	23.3	32.3	39.5	4.8	5.8	6.23	70	0.76	0.75	0.48	204	3.5
06/27/23	PE3	MOFGA BLACK CHERRY ENSILED	67.8	32.2	13.2	9.7	20	2.64	21.00	2.77	31	39.1	36.9	6.1	6.9	11.02	59	0.63	0.57	0.32	154	5
06/30/23	PE18	MOFGA GREEN ASH ENSILED	60.9	39.1	16.7	7.2	15	2.51	23.00	3.84	36.1	48.7	22.9	5.5	4.9	6.77	55	0.56	0.51	0.26	116	4.9
07/01/23	PE11	MOFGA ROCK MAPLE ENSILED	53.7	46.3	10.6	7.5	9	0.95	29.00	3.07	23	35.2	46.6	11.4	3.9	3.71	66	0.71	0.68	0.42	188	4.1
07/11/23	B13b	MOFGA GRAY BIRCH ENSILED	62	38	14		failed		54		29.1	41.9		9.6	not req	not req	59	0.62	0.57	0.31	147	5.2
7/20-21/23	PE13	MOFGA BEECH ENSILED	52.5	47.5	12.6	9.1	4	0.50	25.00	3.15	36	57	23.2	2.8	3.1	4.09	59	0.55	0.54	0.28	99	5.7
		Ave	64.1375	35.863	13.8625	9.2286	13.86	1.977	29.75	3.6747	30.7	43.46	32.4	6.2	5.167		60.63	0.628	0.594	0.34	144.92	4.775

Harvest Date	Samp ID	Harvest Site, Species	%		Crude P	Adj Cr.	Sol P	Sol P	Degr P	Degr P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	NEL	NEM	NEG	RFV	pH
			Moisture	% DM	%DM	Protein	%CP	%DM	%CP	%DM	%DM	%DM	%DM	%DM	%DM	%DM						
09/07/23	PE14	YKF SMOOTH BUCKTHORN ENSILED	68.2	31.8	15.4		failed		failed		25.9	38.9	31.4	6.5	7	7.36	67	0.72	0.71	0.44	164	5.4
09/14/23	PE17	YKF LEATHERWOOD ENSILED	54.1	45.9	8.7	4.4	5	0.44	9.00	0.78	32.4	43.2	34.3	13.9	8	5.79	66	0.7	0.7	0.43	137	5.8
09/15/23	PE15	YKF WINTERBERRY ENSILED	58.2	41.8	12.6	8.1	12	1.51	24.00	3.02	31.4	49.2	27	4	6.1	5.08	62	0.64	0.63	0.37	122	5.4
09/18/23	PE1	YKF WHITE ASH ENSILED	64.9	35.1	10.6	6.3	18	1.91	21.00	2.23	24.8	35	43.6	7	5.8	6.23	60	0.64	0.58	0.32	185	4.9
		Ave	61.35	38.65	11.825	6.2667	11.67	1.285	18	2.011	28.63	41.58	34.08	7.85	6.725	6.115	63.75	0.675	0.655	0.39	152.07	5.375

(Continued on Next Page)

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

Harvest Date	Samp ID	Harvest Site, Species	% Moisture	% DM	Crude P %DM	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	NEL	NEM	NEG	RFV	pH
09/29/23	PE7	FVF BASSWOOD ENSILED	67.6	32.4	19.8		15	2.97	failed		24.8	45.3	16.9	3.6	6.9	11.02	61	0.65	0.62	0.36	143	5.5
10/01/23	PE12	YKF NORWAY MAPLE HAND-STR. ENS	60.8	39.2	12.8		failed		failed		24	42.8	29.6	4.8	7.4	7.5	65	0.7	0.69	0.42	153	5.3
10/01/23	PE10	FVF AMERICAN ELM ENSILED	63.1	36.9	12.1		failed		failed		23.7	54	16.2	4.3	5.3	12.48	54	0.53	0.49	0.24	121	6
10/04/23	PE6	FVF BLACK LOCUST ENSILED	58.5	41.5	17.3	10.8	12	2.08	21.00	3.63	26.6	37.3	35.7	5.3	3.9	5.76	61	0.65	0.6	0.34	170	6.2
10/06/23		FVF WHITE ASH ENSILED	61.1	38.9	9.3	7.6	30	2.79	failed		26.4	39.4		8.2	not req	not req	61	0.64	0.59	0.33	161	5.6
10/11/23	C1	YKF BIG-TOOTHED ASPEN ENSILED	57.9	42.1	10.9	6.3	17	1.85	18.00	1.96	28.2	39.9		11.8	not req	not req	58	0.61	0.55	0.29	156	5.2
		Ave	61.5	38.5	13.7	8.2333	18.5	2.422	19.5	2.7975	25.62	43.12	24.6	6.333	5.875	9.19	60	0.63	0.59	0.33	150.64	5.633

Averages of Ensiled-Sample Nutrient Levels and Measures for 3 Date Categories Compared

Site & sample-group comments	Site/s	Harvest-Date category	% Moisture	% DM	Crude P %DM	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	NEL	NEM	NEG	RFV	pH
S Parking Field, trees & 2 shrubs	6 MOFGA	June 25 – July 20	64.1375	35.863	13.8625	9.2286	13.86	1.977	29.75	3.6747	30.7	43.46	32.4	6.2	5.167		60.63	0.628	0.594	0.34	144.92	4.775
YKF, mostly WW Way, Fungal damage on White Ash; other 3 are shrubs	YKF	Sept 7 – Sept 18	61.35	38.65	11.825	6.2667	11.67	1.285	18	2.011	28.63	41.58	34.08	7.85	6.725	6.115	63.75	0.675	0.655	0.39	152.07	5.375
4 FVF, Healthy tree leaves 2 YKF, BT Aspen leaves senescing	FVF & YKF	Sept 29 - Oct 11	61.5	38.5	13.7	8.2333	18.5	2.422	19.5	2.7975	25.62	43.12	24.6	6.333	5.875	9.19	60	0.63	0.59	0.33	150.64	5.633

Crude Protein and SP were mostly higher when ensiled.

YKF early to mid-September Silages not as much ahead in TDN, Energy & RFV as the Fresh samples were. Fats higher ensiled, but WSC dropped.

Protein Digestibility is possibly improved by Ensiling.