

DAIRY ONE NUTRITIONAL DATA from MATCHED PAIRS of FRESH & ENSILED SAMPLES, ILLUSTRATING CHANGE DURING ENSILEMENT

AVERAGE VALUES across species		% Moisture	% DM	Crude P %DM	Adj CP %DM	Sol P % CP	Solub P % DM	Degrble P % CP	Deg P % DM	ADF %DM	NDF %DM	NFC %DM	WSC %DM	Crude Fat %DM	Ash %DM	TDN
	2022-2023 Fresh aves, 20 samples, 19 species	59.59	40.41	12.52	12.28	11.58	1.45	28.17	3.53	25.83	40.14	35.57	10.73	5.67	6.28	67.35
	2025 Fresh aves, 4 paired samples	66.48	33.53	14.50		14.00	2.19	40.33	6.44	20.55	32.30	43.15	15.28	4.25	5.83	69.25
	Ave all Fresh	60.74	39.26	12.85		11.99	1.57	30.19	4.01	24.95	38.83	36.83	11.48	5.43 * Fat data missing		
	2022-2023 Ensiled aves, 20 samples, 19 species	61.72	38.28	13.23	8.32	14.71	1.95	25.46	3.37	28.15	42.59	31.28	6.86	5.94	6.84	61.65
	2025 Ensiled aves, 4 paired samples	66.85	33.15	16.23	12.93	Not requested due to clogging filters.				20.68	31.10	41.88	10.80	4.71	6.09	66.75
	Ave all Ensiled	62.58	37.43	13.73	9.08					26.90	40.68	33.04	7.52	5.74 * Fat chart below		
DIFFERENCES, Ensiled minus Fresh	2022-2023 data, 20 pairs (varied palatability): (19 species = 14 tree + 5 shrub species)	% Moisture	% DM	Crude P %DM	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	TDN
	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	-5.35
	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	-14
	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	1
	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	15
DIFFERENCES, Ensiled minus Fresh	2025 data, 4 pairs only (all tasty, all season): (Y Birch, H Willow, Apple, P Dogwood)	% Moisture	% DM	Crude P %DM	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	TDN
	AVERAGE DIFF Ensiled minus Fresh	0.375	-0.375	1.725						0.125	-1.2	-1.275	-4.475	0.465	0.26	-2.50
	MINIMUM DIFF Ensiled minus Fresh	-4.7	-4.1	-0.1						-1.3	-4.4	-9.4	-9.2	-0.1	-0.5	-5
	MAXIMUM DIFF Ensiled minus Fresh	4.1	4.7	5.1						3.1	2.4	2.4	2.7	0.93	1.25	1
	RANGE of DIFF Ensiled minus Fresh	8.80	8.80	5.20	0.00	0.00	0.00	0.00	0.00	4.40	6.80	11.80	11.90	1.03	1.75	6
DIFFERENCES, Ensiled minus Fresh	All 2022-2025 data, 24 pairs: (23 species = 17 tree + 6 shrub species)	% Moisture	% DM	Crude P %DM	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	TDN
	AVERAGE DIFF Ensiled minus Fresh	1.83	-1.83	0.96	-2.70	3.75	0.54	-4.90	-0.31	1.92	1.81	-3.21	-3.93	-0.09	-0.18	-5.17
	MINIMUM DIFF Ensiled minus Fresh	*-4.7	-5.9	-0.8	-8.2	-2	-0.32	-23	-1.69	-1.6	-4.4	-9.4	-9.3	-8.1	-6.89	-14.00
	MAXIMUM DIFF Ensiled minus Fresh	5.9	4.7	5.1	8.7	13	1.43	3	0.94	9.2	6.7	2.4	2.8	1.3	1.54	1.00
	RANGE of DIFF Ensiled minus Fresh	10.6	10.6	5.9	16.9	15	1.745	26	2.63	10.8	11.1	11.8	12.1	9.4	8.43	15
DIFFERENCES, Ensiled minus Fresh	All 2022-2025 Tree Species data, 18 pairs: (17 species)	% Moisture	% DM	Crude P %DM	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	TDN
	AVERAGE DIFF Ensiled minus Fresh	1.63	-1.63	0.68	-2.15	4.30	0.58	-0.86	0.08	1.28	0.97	-2.11	-3.08	0.07	0.04	-5
	MINIMUM DIFF Ensiled minus Fresh	-4.7	-5.7	-0.4	-8.2	-2	-0.318	-8	-0.909	-1.6	-4.4	-9.2	-8.7	-8.1	-5.07	-14
	MAXIMUM DIFF Ensiled minus Fresh	5.7	4.7	2.3	8.7	13	1.427	3	0.943	9.2	5.4	2.4	2.8	1.3	1.54	1
	RANGE of DIFF Ensiled minus Fresh	10.40	10.40	2.70	16.90	15.00	1.75	11.00	1.85	10.80	9.80	11.60	11.50	9.40	6.61	15.00
DIFFERENCES, Ensiled minus Fresh	All 2022-2025 Shrub Species data, 6 pairs:	% Moisture	% DM	Crude P %DM	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	TDN
	AVERAGE DIFF Ensiled minus Fresh	2.45	-2.45	1.81667	-3.925	2.5	0.4598	-13	-1.08175	3.95	4.4667	-6.517	-6.6333	-0.515	-0.8283	-5.667
	MINIMUM DIFF Ensiled minus Fresh	-0.7	-5.9	-0.8	-5.6	0	0.055	-23	-1.687	1	-1.2	-9.4	-9.3	-5.2	-6.89	-8
	MAXIMUM DIFF Ensiled minus Fresh	5.9	0.7	5.1	-1.4	6	0.81	-3	-0.2	5.6	6.7	0	-2.6	0.7	1.25	-2
	RANGE of DIFF Ensiled minus Fresh	6.6	6.6	5.9	4.2	6	0.755	20	1.487	4.6	7.9	9.4	6.7	5.9	8.14	6.00

AVERAGE VALUES across species

	NEL	NEM	NEG	pH
2022-2023 Fresh aves	0.71	0.70	0.43	5.26
2025 Fresh aves	0.75	0.73	0.46	5.125
2022-2023 Ensiled aves	0.65	0.62	0.35	5.23
2025 Ensiled aves	0.73	0.70	0.43	4.80

DIFFERENCES, Ensiled–Fresh

<u>2022-2023 data, 20 pairs:</u> (19 species = 14 tree + 5 shrub sp.)	NEL	NEM	NEG	pH
AVERAGE DIFF Ensiled minus Fresh	-0.06	-0.03	-0.33	-0.08
MINIMUM DIFF Ensiled minus Fresh	-0.18	-0.25	-7	-0.7
MAXIMUM DIFF Ensiled minus Fresh	0.01	1	2	0.7
RANGE of DIFF Ensiled minus Fresh	0.19	1.25	9	1.4

DIFFERENCES, Ensiled–Fresh

<u>2025 data, 4 pairs only:</u> (Y Birch, H Willow, Apple, P Dogwood)	NEL	NEM	NEG	pH
AVERAGE DIFF Ensiled minus Fresh	-0.02	-0.03	-0.03	-0.33
MINIMUM DIFF Ensiled minus Fresh	-0.05	-0.06	-0.06	-1.3
MAXIMUM DIFF Ensiled minus Fresh	0.03	0.02	0.02	0.2
RANGE of DIFF Ensiled minus Fresh	0.08	0.08	0.08	1.5

DIFFERENCES, Ensiled–Fresh

<u>All 2022-2025 data, 24 pairs:</u> (23 species = 17 tree + 6 shrub species)	NEL	NEM	NEG	pH
AVERAGE DIFF Ensiled minus Fresh	-0.06	-0.08	-0.07	-0.13
MINIMUM DIFF Ensiled minus Fresh	-0.18	-0.25	-0.23	-1.30
MAXIMUM DIFF Ensiled minus Fresh	0.03	0.02	0.02	0.70
RANGE of DIFF Ensiled minus Fresh	0.21	0.27	0.25	2

DIFFERENCES, Ensiled–Fresh

<u>All 2022-2025 Tree Species data, 17 prs:</u>	NEL	NEM	NEG	pH
AVERAGE DIFF Ensiled minus Fresh	-0.05	-0.08	-0.07	-0.094
MINIMUM DIFF Ensiled minus Fresh	-0.18	-0.25	-0.23	-0.7
MAXIMUM DIFF Ensiled minus Fresh	0.03	0.02	0.02	0.7
RANGE of DIFF Ensiled minus Fresh	0.21	0.27	0.25	1.40

DIFFERENCES, Ensiled–Fresh

<u>All 2022-2025 Shrub Species data, 6 prs:</u>	NEL	NEM	NEG	pH
AVERAGE DIFF Ensiled minus Fresh	-0.08	-0.09	-0.08	-0.233
MINIMUM DIFF Ensiled minus Fresh	-0.11	-0.14	-0.13	-1.3
MAXIMUM DIFF Ensiled minus Fresh	-0.03	-0.03	-0.02	0.6
RANGE of DIFF Ensiled minus Fresh	0.08	0.11	0.11	1.90

2025 dates were 6/3-7/7, an earlier range than 2022-'23 6/25-10/6 dates. Because DM and fiber were lower in these earlier-dated 2025 samples (by 6-7% & 5-8% respectively), I computed protein levels AS FED, below: This showed that difference in protein levels between these sample-groups does not change how much animals must eat to get their protein. Earlier-dated ensiled samples also had lower acidity, probably from longer summertime high-temperature period in which to ferment.

PROTEINS AS FED: AND FIBER	Cr P		CP	Adj	Adj CP	SP		Deg P		ADF % as fed	NDF % as fed
	% as	CP	% as	Sol P	% as	Deg P	% as				
	DM	%DM	fed	%DM	fed	% DM	fed	% DM	fed		
2022-2023 Fresh aves	40.41	12.52	5.06			1.45	0.59	3.53	1.43	10.44	16.22
2025 Fresh aves	33.53	14.50	4.86			2.19	0.73	6.44	2.16	6.89	10.83
	39.26	12.85	5.03			1.57	0.61	4.01	1.55	9.80	15.25
2022-2023 Ensiled aves	38.28	13.23	5.06	8.32	3.18	1.95	0.75	3.37	1.29	10.77	16.30
2025 Ensiled aves	33.15	16.23	5.38	12.93	4.28					6.85	10.31
	37.43	13.73	5.12	9.08	3.40					10.12	15.30

Samp ID	Barrel	Harvest Date	Harvest Site, Species (24)	% 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
PF2	Qt bag	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	60
PE2	Bucket	10/4 & -6/22	LAUFERS RED OAK ENSEILED	50.1	49.9	13.2						30.5	51.5	24.5	5.2	3.9	5.76	56
			Diff Ensiled minus Fresh	1.8	-1.8	1.2						0	3.4	-4.8	-3.1	0.7	0.5	-4
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	3.7	4.19	64
PE13	Bucket	7/20-21/23	MOFGA BEECH ENSEILED	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
			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		-0.1	-5
#5	Qt bag	07/08/25	* MOFGA QUAKING ASPEN, FRESH	48.1	51.9	11.6						18	26.7	49.3	24.5	8.52	3.8	78
A7	#14	07/08/23	* MOFGA QUAKING ASPEN ENSEILED	55.8	44.2	12.9	10	10	1.3	failed		24.7	35.5		11.1	not req		61
			* Differing years caused greater differences	7.7	-7.7	1.3						6.7	8.8		-13.4		-3.8	-17
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	8.1	5.07	72
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSEILED	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
			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
PR3F	Qt jar	06/21/25	MOFGA HYBRID WILLOW, FRESH	60.3	39.7	17.7		10	1.77	33	5.841	28.4	44	26.9	6.6	3.49	7.99	63
PR3E	Qt jar	06/21/25	MOFGA HYBRID WILLOW, ENSEILED	55.6	44.4	17.6	13.1					27.1	42.2	29.3	9.3	3.39	7.49	59
			Diff Ensiled minus Fresh	-4.7	4.7	-0.1						-1.3	-1.8	2.4	2.7	-0.1	-0.5	-4
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	4.5	5.9	63
PE1	Qt bag	09/18/23	YKF WHITE ASH ENSEILED	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
			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
Samp ID	Barrel	Harvest Date	Harvest Site, Species (24), continued	% 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
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	6.6	7.01	69
	#10 FVf	10/06/23	FVF WHITE ASH ENSEILED	61.1	38.9	9.3	7.6	30	2.79	failed		26.4	39.4		8.2	not req	not req	61
			Diff Ensiled minus Fresh	1.3	-1.3	0.5	-1.2	13	1.29			1.5	1.6		1			-8
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	4	5.23	66
PE18	Bucket	06/30/23	MOFGA GREEN ASH ENSEILED	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
			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
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	6.4	10.02	62
PE3	Bucket	06/27/23	MOFGA BLACK CHERRY ENSEILED	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
			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
PR4F	Qt jar	07/07/25	3SF APPLE, NEW GROWTH FRESH	66.5	33.5	10.8		11	1.188	26	2.808	24.8	39	41.5	12	3.99	4.72	67
PR4E	Qt jar	07/07/25	3SF APPLE, NEW GROWTH ENSEILED	67.5	32.5	11.7	10.3					24	34.6	43.9	7.7	4.92	4.99	68
			Diff Ensiled minus Fresh	1	-1	0.9						-0.8	-4.4	2.4	-4.3	0.93	0.27	1
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
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSEILED	62	38	14		failed		54		29.1	41.9		9.6	not req	not req	59
			Diff Ensiled minus Fresh	3.2	-3.2	-0.1						-1.6	-1.1		2.8			-13
PR2F	Qt jar	06/08/25	3SF YELLOW BIRCH, FRESH	63.8	36.2	12.3						18.7	30.8	47.7	13.5	4.1	5.1	70
PR2E	Qt jar	06/08/25	3SF YELLOW BIRCH, ENSEILED	64.9	35.1	13.3	7.6					18.2	29.8	47.2	6.4	4.52	5.12	65
			Diff Ensiled minus Fresh	1.1	-1.1	1						-0.5	-1	-0.5	-7.1	0.42	0.02	-5
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	9.1	4.79	79
PE19	Bucket	09/29/22	2022 YKF RED MAPLE POLLARD ENSEILED	56.8	43.2	11		failed		failed		18.6	27.6	46.8	13	9.8	4.82	77
			Diff Ensiled minus Fresh	2.2	-2.2	0.1						1.8	2.5	-3.4	-5	0.7	0.03	-2

Samp ID	Barrel	Harvest Date	Harvest Site, Species (24)	NEL	NEM	NEG	pH	ME 1X lb	ME 1X kg	DE M cal/kg	A % CP	B % CP	C % CP	Kd CP	HDE	
PF2	Qt bag	10/4-6/22	LAUFERS RED OAK FRESH	0.6	0.56	0.3	5.5	1.01	2.23		3	57	33	10	9	1.09
PE2	Bucket	10/4-6/22	LAUFERS RED OAK ENSILED	0.55	0.51	0.25	5.3	0.93	2.04		2	57	33	10	9	
			Diff Ensiled minus Fresh	-0.05	-0.05	-0.05	-0.2	-0.08	-0.19		-1	0	0	0	0	
PF13	Qt bag	7/20-21/23	MOFGA BEECH FRESH	0.63	0.63	0.36	5.4	1.1	2.42		3	31	62	7	12	
PE13	Bucket	7/20-21/23	MOFGA BEECH ENSILED	0.55	0.54	0.28	5.7	0.97	2.14		3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.08	-0.09	-0.08	0.3	-0.13	-0.28		0	0	0	0	0	
		07/08/25	MOFGA QUAKING ASPEN, FRESH	0.88	0.9	0.6	5.8									
A7	#14	07/08/23	MOFGA QUAKING ASPEN ENSILED	0.65	0.6	0.34	5.4				3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.23	-0.3	-0.26	-0.4									
PF16B	Qt bag	10/11/23	YKF BIG TOOTHED ASPEN FRESH	0.79	0.8	0.52	5.5	1.25	2.76		3	31	62	7	12	
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSILED	0.61	0.55	0.29	5.2	0.94	2.07		2	31	62	7	12	
			Diff Ensiled minus Fresh	-0.18	-0.25	-0.23	-0.3	-0.31	-0.69		-1	0	0	0	0	
PR3F		06/21/25	MOFGA HYBRID WILLOW, FRESH	0.64	0.62	0.35	5.2									
PR3E		06/21/25	MOFGA HYBRID WILLOW, ENSILED	0.62	0.57	0.31	5.4									
			Diff Ensiled minus Fresh	-0.02	-0.05	-0.04	0.2									
PF1	Qt bag	09/18/23	YKF WHITE ASH FRESH	0.66	0.62	0.36	5.4	1.07	2.35		3	57	33	10	9	1.24
PE1	Qt bag	09/18/23	YKF WHITE ASH ENSILED	0.64	0.58	0.32	4.9	0.97	2.14		3	57	33	10	9	
			Diff Ensiled minus Fresh	-0.02	-0.04	-0.04	-0.5	-0.1	-0.21		0	0	0	0	0	
Samp ID	Barrel	Harvest Date	Harvest Site, Species (24)	NEL	NEM	NEG	pH	ME 1X lb	ME 1X kg	DE M cal/kg	A % CP	B % CP	C % CP	Kd CP	HDE	
PF20	Qt bag	10/06/23	FVF WHITE ASH FRESH	0.75	0.74	0.47	5.7	1.18	2.6		3	31	62	7	12	
	#10 FV	10/06/23	FVF WHITE ASH ENSILED	0.64	0.59	0.33	5.6	1	2.21		3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.11	-0.15	-0.14	-0.1	-0.18	-0.39		0	0	0	0	0	
PF18	Qt bag	06/30/23	MOFGA GREEN ASH FRESH	0.68	0.67	0.4	5	1.15	2.54		3	31	62	7	12	
PE18	Bucket	06/30/23	MOFGA GREEN ASH ENSILED	0.56	0.51	0.26	4.9	0.9	1.98		2	31	62	7	12	
			Diff Ensiled minus Fresh	-0.12	-0.16	-0.14	-0.1	-0.25	-0.56		-1	0	0	0	0	
PF3	Qt bag	06/27/23	MOFGA BLACK CHERRY FRESH	0.65	0.61	0.35	4.9	1.07	2.36		3	57	33	10	9	1.2
PE3	Bucket	06/27/23	MOFGA BLACK CHERRY ENSILED	0.63	0.57	0.32	5	0.99	2.19		3	57	33	10	9	
			Diff Ensiled minus Fresh	-0.02	-0.04	-0.03	0.1	-0.08	-0.17		0	0	0	0	0	
PR4F		07/07/25	3SF APPLE, NEW GROWTH FRESH	0.71	0.7	0.43	4.8									
PR4E		07/07/25	3SF APPLE, NEW GROWTH ENSILED	0.74	0.72	0.45	4.9									
			Diff Ensiled minus Fresh	0.03	0.02	0.02	0.1									
PF4	Qt bag	07/11/23	MOFGA GRAY BIRCH FRESH	0.77	0.79	0.51	5.3	1.28	2.81		3	31	62	7	12	
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSILED	0.62	0.57	0.31	5.2	1	2.21		3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.15	-0.22	-0.2	-0.1	-0.28	-0.6		0	0	0	0	0	
PR2F		06/08/25	3SF YELLOW BIRCH, FRESH	0.76	0.74	0.47	4.8									
PR2E		06/08/25	3SF YELLOW BIRCH, ENSILED	0.71	0.68	0.41	4.5									
			Diff Ensiled minus Fresh	-0.05	-0.06	-0.06	-0.3									
PF19	Qt bag	09/29/22	2022 YKF RED MAPLE POLLARD FRES	0.9	0.91	0.61	5	1.38	3.04		3	31	62	7	12	
PE19	Bucket	09/29/22	2022 YKF RED MAPLE POLLARD ENSIL	0.88	0.89	0.6	5.7	1.34	2.95		3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.02	-0.02	-0.01	0.7	-0.04	-0.09		0	0	0	0	0	

Samp ID	Barrel	Harvest Date	Harvest Site, Species (24), continued	%		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
				Moisture	% DM													
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
PE11	Bucket	07/01/23	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
			Diff Ensiled minus Fresh	5.7	-5.7	-0.4						4.3	2.7	-2.9	-8.7	0.7	-0.04	-3
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	6.4	7.19	68
PE12	Bucket	10/01/23	YKF NORWAY MAPLE HAND-STR. ENSILED	60.8	39.2	12.8		failed		failed		24	42.8	29.6	4.8	7.4	7.5	65
			Diff Ensiled minus Fresh	5.5	-5.5	0.8						0.4	1.8	-3.7	-4.5	1	0.31	-3
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	4.5	5.9	69
PE5	Bucket	06/26/23	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
			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
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	3.2	5.26	67
PE6	Qt bag	10/04/23	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
			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
PF7	Qt bag	09/29/23	FVF BASSWOOD FRESH	65	35	19.4		failed		failed		24	42.6	21.6	9.5	6.4	10.02	65
PE7	Qt bag	09/29/23	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
			Diff Ensiled minus Fresh	2.6	-2.6	0.4						0.8	2.7	-4.7	-5.9	0.5	1	-4
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	5.1	11.99	58
PE10	Qt bag	10/01/23	FVF AMERICAN ELM ENSILED	63.1	36.9	12.1		failed		failed		23.7	54	16.2	4.3	5.3	12.48	54
			Diff Ensiled minus Fresh	0.6	-0.6	1						0.6	0.6	-2.2	-4	0.2	0.49	-4
Samp ID	Barrel	Harvest Date	Harvest Site, Species (24), continued	%		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
				Moisture	% DM													
PR1F	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, FRESH	75.3	24.7	17.2		21	3.612	62	10.664	10.3	15.4	56.5	29	5.4	5.5	77
PR1E	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, ENSILED	79.4	20.6	22.3	20.7					13.4	17.8	47.1	19.8	6.01	6.75	75
			Diff Ensiled minus Fresh	4.1	-4.1	5.1						3.1	2.4	-9.4	-9.2	0.61	1.25	-2
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	5.2	6.89	65
C15	Bucket	06/25/23	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
			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
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	6.3	7.06	70
PE14	Bucket?	09/07/23	YKF SMOOTH BUCKTHORN ENSILED	68.2	31.8	15.4		failed		failed		25.9	38.9	31.4	6.5	7	7.36	67
			Diff Ensiled minus Fresh	0.8	-0.8	1.1						5.6	6.4	-8.4	-8.8	0.7	0.3	-3
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	5.9	4.58	69
PE15	Bucket	09/15/23	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
			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
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	7.4	5.68	72
PE17	Bucket?	09/14/23	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
			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
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	6.4	6.08	68
PE8	Bucket	06/25/23	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
			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

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 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.

Samp ID	Barrel	Harvest Date	Harvest Site, Species (24)	NEL	NEM	NEG	pH	ME 1X lb	ME 1X kg	DE M cal/kg	A % CP	B % CP	C % CP	Kd CP	HDE
PF11	Qt bag	07/01/23	MOFGA ROCK MAPLE FRESH	0.75	0.73	0.46	4.3	1.2	2.63	3	31	62	7	12	
PE11	Bucket	07/01/23	MOFGA ROCK MAPLE ENSILED	0.71	0.68	0.42	4.1	1.11	2.44	3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.04	-0.05	-0.04	-0.2	-0.09	-0.19	0	0	0	0	0	
PF12	Qt bag	10/01/23	YKF NORWAY MAPLE HAND-STR. FRE	0.72	0.72	0.44	5.7	1.17	2.58	3	31	62	7	12	
PE12	Bucket	10/01/23	YKF NORWAY MAPLE HAND-STR. ENS	0.7	0.69	0.42	5.3	1.12	2.46	3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.02	-0.03	-0.02	-0.4	-0.05	-0.12	0	0	0	0	0	
PF5	Qt bag	06/26/23	MOFGA BOX ELDER FRESH	0.75	0.73	0.46	3.4	1.2	2.66	3	31	62	7	12	
PE5	Bucket	06/26/23	MOFGA BOX ELDER ENSILED	0.76	0.75	0.48	3.5	1.22	2.7	3	31	62	7	12	
			Diff Ensiled minus Fresh	0.01	0.02	0.02	0.1	0.02	0.04	0	0	0	0	0	
PF6	Qt bag	10/04/23	FVF BLACK LOCUST FRESH	0.71	0.69	0.42		1.18	2.6	3	31	62	7	12	
PE6	Qt bag	10/04/23	FVF BLACK LOCUST ENSILED	0.65	0.6	0.34	6.2	1.03	2.27	3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.06	-0.09	-0.08	6.2	-0.15	-0.33	0	0	0	0	0	
PF7	Qt bag	09/29/23	FVF BASSWOOD FRESH	0.69	0.67	0.4	6.2	1.16	2.55	3	31	62	7	12	
PE7	Qt bag	09/29/23	FVF BASSWOOD ENSILED	0.65	0.62	0.36	5.5	1.08	2.39	3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.04	-0.05	-0.04	-0.7	-0.08	-0.16	0	0	0	0	0	
PF10	Qt bag	10/01/23	FVF AMERICAN ELM FRESH	0.57	0.55	0.29	6.1	0.97	2.14	3	31	62	7	12	
PE10	Qt bag	10/01/23	FVF AMERICAN ELM ENSILED	0.53	0.49	0.24	6	0.89	1.96	2	31	62	7	12	
			Diff Ensiled minus Fresh	-0.04	-0.06	-0.05	-0.1	-0.08	-0.18	-1	0	0	0	0	
Samp ID	Barrel	Harvest Date	Harvest Site, Species (24)	NEL	NEM	NEG	pH	ME 1X lb	ME 1X kg	DE M cal/kg	A % CP	B % CP	C % CP	Kd CP	HDE
PR1F		06/03/25	YKFW PAGODA DOGWOOD, FRESH	0.88	0.86	0.57	5.7								
PR1E		06/03/25	YKFW PAGODA DOGWOOD, ENSILED	0.85	0.83	0.55	4.4								
			Diff Ensiled minus Fresh	-0.03	-0.03	-0.02	-1.3								
PF9	Qt bag	6/25-26/23	MOFGA HONEYSUCKLE FRESH	0.68	0.67	0.4	5.3	1.12	2.46	3	31	62	7	12	
C15	Bucket	06/25/23	MOFGA HONEYSUCKLE ENSILED	0.58	0.53	0.27	5.2	0.94	2.07	2	31	62	7	12	
	Qt bag		Diff Ensiled minus Fresh	-0.1	-0.14	-0.13	-0.1	-0.18	-0.39	-1	0	0	0	0	
PF14	Qt bag	09/07/23	YKF SMOOTH BUCKTHORN FRESH	0.77	0.76	0.49	5.3	1.23	2.72	3	31	62	7	12	
PE14	Bucket	09/07/23	YKF SMOOTH BUCKTHORN ENSILED	0.72	0.71	0.44	5.4	1.17	2.58	3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.05	-0.05	-0.05	0.1	-0.06	-0.14	0	0	0	0	0	
PF15	Qt bag	09/15/23	YKF WINTERBERRY FRESH	0.72	0.73	0.45	5.7	1.19	2.63	3	31	62	7	12	
PE15	Bucket	09/15/23	YKF WINTERBERRY ENSILED	0.64	0.63	0.37	5.4	1.05	2.31	3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.08	-0.1	-0.08	-0.3	-0.14	-0.32	0	0	0	0	0	
PF17	Qt bag	09/14/23	YKF LEATHER WOOD FRESH	0.78	0.79	0.51	5.2	1.23	2.72	3	31	62	7	12	
PE17	Bucket	09/14/23	YKF LEATHERWOOD ENSILED	0.7	0.7	0.43	5.8	1.09	2.39	3	31	62	7	12	
			Diff Ensiled minus Fresh	-0.08	-0.09	-0.08	0.6	-0.14	-0.33	0	0	0	0	0	
PF8	Qt bag	06/25/23	MOFGA ARROW WOOD FRESH	0.72	0.72	0.45	5	1.18	2.6	3	31	62	7	12	
PE8	Bucket	06/25/23	MOFGA ARROW WOOD ENSILED	0.61	0.6	0.34	4.6	0.99	2.18	3	31	62	7	11.01	
			Diff Ensiled minus Fresh	-0.11	-0.12	-0.11	-0.4	-0.19	-0.42	0	0	0	0	-0.99	

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 one or both samples. The lab said their mixture gelled and clogged filter-cloths.

ALL CHARTS BELOW ARE SAME DATA, REARRANGED FOR COMPUTATIONS AT TOP.

Samp ID,	Barrel,	Harvest Date,	Harvest Site, Species,	Moisture,	DM	Crude P	Protein	% CP	%DM	P % CP	%DM	ADF	NDF	NFC	%WSC	Fat EE	Ash	TDN
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	72
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	63
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	69
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	60
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	62
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	69
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	67
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
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	68
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	65
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
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	69
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	68
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	64
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	70
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	69
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	72
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	72
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	66
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	79
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSILED	62	38	14	failed			54		29.1	41.9		9.6 not req	not req		59
PE1		09/18/23	YKF WHITE ASH ENSILED	64.9	35.1	10.6	6.3	18		21		24.8	35	43.6	7	5.8	6.23	60
PE2		10/4-6/22	LAUFERS RED OAK ENSILED	50.1	49.9	13.2						30.5	51.5	24.5	5.2	3.9	5.76	56
PE3		06/27/23	MOFGA BLACK CHERRY ENSILED	67.8	32.2	13.2	9.7	20		21		31	39.1	36.9	6.1	6.9	11.02	59
PE5		06/26/23	MOFGA BOX ELDER ENSILED	77.8	22.2	16.1	15	21		41		23.3	32.3	39.5	4.8	5.8	6.23	70
PE6		10/04/23	FVF BLACK LOCUST ENSILED	58.5	41.5	17.3	10.8	12		21		26.6	37.3	35.7	5.3	3.9	5.76	61
PE7		09/29/23	FVF BASSWOOD ENSILED	67.6	32.4	19.8		15		failed		24.8	45.3	16.9	3.6	6.9	11.02	61
PE8		06/25/23	MOFGA ARROW WOOD ENSILED	63.8	36.2	12.8	6.4	15		20		36.2	49.7	25.3	5.1	6.4	5.84	60
C15	Bucket	06/25/23	MOFGA HONEYSUCKLE ENSILED	74.6	25.4	14.9	9.7	13		25		30.9	43.8		4.3 not req	not req		57
PE10		10/01/23	FVF AMERICAN ELM ENSILED	63.1	36.9	12.1	failed			failed		23.7	54	16.2	4.3	5.3	12.48	54
PE11		07/01/23	MOFGA ROCK MAPLE ENSILED	53.7	46.3	10.6	7.5	9		29		23	35.2	46.6	11.4	3.9	3.71	66
PE12		10/01/23	YKF NORWAY MAPLE HAND-STR. ENSILED	60.8	39.2	12.8	failed			failed		24	42.8	29.6	4.8	7.4	7.5	65
PE13		7/20-21/23	MOFGA BEECH ENSILED	52.5	47.5	12.6	9.1	4		25		36	57	23.2	2.8	3.1	4.09	59
PE14		09/07/23	YKF SMOOTH BUCKTHORN ENSILED	68.2	31.8	15.4	failed			failed		25.9	38.9	31.4	6.5	7	7.36	67
PE15		09/15/23	YKF WINTERBERRY ENSILED	58.2	41.8	12.6	8.1	12		24		31.4	49.2	27	4	6.1	5.08	62
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSILED	57.9	42.1	10.9	6.3	17		18		28.2	39.9		11.8 not req	not req		58
PE17		09/14/23	YKF LEATHERWOOD ENSILED	54.1	45.9	8.7	4.4	5		9		32.4	43.2	34.3	13.9	8	5.79	66
PE18		06/30/23	MOFGA GREEN ASH ENSILED	60.9	39.1	16.7	7.2	15		23		36.1	48.7	22.9	5.5	4.9	6.77	55
PE19		09/29/22	2022 YKF RED MAPLE POLLARD ENSILED	56.8	43.2	11	failed			failed		18.6	27.6	46.8	13	9.8	4.82	77
PE2	#10 FVF	10/06/23	FVF WHITE ASH ENSILED	61.1	38.9	9.3	7.6	30		failed		26.4	39.4		8.2 not req	not req		61

Samp ID	Barrel	Harvest	Harvest Site, Species	NEL	NEM	NEG	pH	ME 1X	ME 1X	DE M	A %	B %	C %	Kd	HDE	
		Date						lb	kg	cal/kg	CP	CP	CP	CP		
PF4		07/11/23	MOFGA GRAY BIRCH FRESH	0.77	0.79	0.51	5.3	1.28	2.81		3	31	62	7	12	
PF1		09/18/23	YKF WHITE ASH FRESH	0.66	0.62	0.36	5.4	1.07	2.35		3	57	33	10	9	1.24
PF20		10/06/23	FVF WHITE ASH FRESH	0.75	0.74	0.47	5.7	1.18	2.6		3	31	62	7	12	
PF2		10/4-6/22	LAUFERS RED OAK FRESH	0.6	0.56	0.3	5.5	1.01	2.23		3	57	33	10	9	1.09
PF3		06/27/23	MOFGA BLACK CHERRY FRESH	0.65	0.61	0.35	4.9	1.07	2.36		3	57	33	10	9	1.2
PF5		06/26/23	MOFGA BOX ELDER FRESH	0.75	0.73	0.46	3.4	1.2	2.66		3	31	62	7	12	
PF6		10/04/23	FVF BLACK LOCUST FRESH	0.71	0.69	0.42		1.18	2.6		3	31	62	7	12	
PF7		09/29/23	FVF BASSWOOD FRESH	0.69	0.67	0.4	6.2	1.16	2.55		3	31	62	7	12	
PF8		06/25/23	MOFGA ARROW WOOD FRESH	0.72	0.72	0.45	5	1.18	2.6		3	31	62	7	12	
PF9		6/25-26/23	MOFGA HONEYSUCKLE FRESH	0.68	0.67	0.4	5.3	1.12	2.46		3	31	62	7	12	
PF10		10/01/23	FVF AMERICAN ELM FRESH	0.57	0.55	0.29	6.1	0.97	2.14		3	31	62	7	12	
PF11		07/01/23	MOFGA ROCK MAPLE FRESH	0.75	0.73	0.46	4.3	1.2	2.63		3	31	62	7	12	
PF12		10/01/23	YKF NORWAY MAPLE HAND-STR. FRE	0.72	0.72	0.44	5.7	1.17	2.58		3	31	62	7	12	
PF13		7/20-21/23	MOFGA BEECH FRESH	0.63	0.63	0.36	5.4	1.1	2.42		3	31	62	7	12	
PF14		09/07/23	YKF SMOOTH BUCKTHORN FRESH	0.77	0.76	0.49	5.3	1.23	2.72		3	31	62	7	12	
PF15		09/15/23	YKF WINTERBERRY FRESH	0.72	0.73	0.45	5.7	1.19	2.63		3	31	62	7	12	
PF16B		10/11/23	YKF BIG TOOTHED ASPEN FRESH	0.79	0.8	0.52	5.5	1.25	2.76		3	31	62	7	12	
PF17		09/14/23	YKF LEATHER WOOD FRESH	0.78	0.79	0.51	5.2	1.23	2.72		3	31	62	7	12	
PF18		06/30/23	MOFGA GREEN ASH FRESH	0.68	0.67	0.4	5	1.15	2.54		3	31	62	7	12	
PF19		09/29/22	2022 YKF RED MAPLE POLLARD FRES	0.9	0.91	0.61	5	1.38	3.04		3	31	62	7	12	
B13b	#18	07/11/23	MOFGA GRAY BIRCH ENSILED	0.62	0.57	0.31	5.2	1	2.21		3	31	62	7	12	
PE1		09/18/23	YKF WHITE ASH ENSILED	0.64	0.58	0.32	4.9	0.97	2.14		3	57	33	10	9	
PE2		10/4-6/22	LAUFERS RED OAK ENSILED	0.55	0.51	0.25	5.3	0.93	2.04		2	57	33	10	9	
PE3		06/27/23	MOFGA BLACK CHERRY ENSILED	0.63	0.57	0.32	5	0.99	2.19		3	57	33	10	9	
PE5		06/26/23	MOFGA BOX ELDER ENSILED	0.76	0.75	0.48	3.5	1.22	2.7		3	31	62	7	12	
PE6		10/04/23	FVF BLACK LOCUST ENSILED	0.65	0.6	0.34	6.2	1.03	2.27		3	31	62	7	12	
PE7		09/29/23	FVF BASSWOOD ENSILED	0.65	0.62	0.36	5.5	1.08	2.39		3	31	62	7	12	
PE8		06/25/23	MOFGA ARROW WOOD ENSILED	0.61	0.6	0.34	4.6	0.99	2.18		3	31	62	7	11.01	
C15	Bucket	06/25/23	MOFGA HONEYSUCKLE ENSILED	0.58	0.53	0.27	5.2	0.94	2.07		2	31	62	7	12	
PE10		10/01/23	FVF AMERICAN ELM ENSILED	0.53	0.49	0.24	6	0.89	1.96		2	31	62	7	12	
PE11		07/01/23	MOFGA ROCK MAPLE ENSILED	0.71	0.68	0.42	4.1	1.11	2.44		3	31	62	7	12	
PE12		10/01/23	YKF NORWAY MAPLE HAND-STR. ENS	0.7	0.69	0.42	5.3	1.12	2.46		3	31	62	7	12	
PE13		7/20-21/23	MOFGA BEECH ENSILED	0.55	0.54	0.28	5.7	0.97	2.14		3	31	62	7	12	
PE14		09/07/23	YKF SMOOTH BUCKTHORN ENSILED	0.72	0.71	0.44	5.4	1.17	2.58		3	31	62	7	12	
PE15		09/15/23	YKF WINTERBERRY ENSILED	0.64	0.63	0.37	5.4	1.05	2.31		3	31	62	7	12	
C1	#54	10/11/23	YKF BIG-TOOTHED ASPEN ENSILED	0.61	0.55	0.29	5.2	0.94	2.07		2	31	62	7	12	
PE17		09/14/23	YKF LEATHERWOOD ENSILED	0.7	0.7	0.43	5.8	1.09	2.39		3	31	62	7	12	
PE18		06/30/23	MOFGA GREEN ASH ENSILED	0.56	0.51	0.26	4.9	0.9	1.98		2	31	62	7	12	
PE19		09/29/22	2022 YKF RED MAPLE POLLARD ENSIL	0.88	0.89	0.6	5.7	1.34	2.95		3	31	62	7	12	
PE2	#10 FV	10/06/23	FVF WHITE ASH ENSILED	0.64	0.59	0.33	5.6	1	2.21		3	31	62	7	12	

		Moisture	DM	Crude P	Adj Cru Protein	Solub P %CP	Solub P %DM	P %CP	Degrble P %DM	ADF	NDF	NFC	%WSC	Cr Fat %DM	Ash	TDN	
2022-2023 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	5.67	6.28	67.35	
2022-2023 Ensiled aves		61.72	38.28	13.23	8.32	14.71	1.95	25.46	3.37	28.15	42.59	31.28	6.86	5.94	6.84	61.65	
		a bit wetter ensiled			a bit more Crude Protein ensiled						WSC down 36%				Fat up 5%; really 11% *		
															if skip pairs with missing data.		
Harvest Date	Harvest Site, Species	fat ee ensiled	fat ee fresh	Ensiled SP %DM averaged 103% of Fresh ave. Ensiled Degr P %DM aved 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					% DM	% a/fed	% DM	% a/fed						
09/18/23	YKF WHITE ASH	5.8	4.5	* Fat ee, ensiled				ensiled	fresh	fresh	fresh						
10/4 & -6/22	LAUFERS RED OAK	3.9	3.2	All Complete pairs:				5.8	2.17	4.5	1.77						
06/27/23	MOFGA BLACK CHERRY	6.9	6.4	2022-2025				3.9	1.46	3.2	1.26						
06/26/23	MOFGA BOX ELDER	5.8	4.5					6.9	2.58	6.4	2.51						
10/04/23	FVF BLACK LOCUST	3.9	3.2					5.8	2.17	4.5	1.77						
09/29/23	FVF BASSWOOD	6.9	6.4					3.9	1.46	3.2	1.26						
06/25/23	MOFGA ARROW WOOD	6.4	6.4 same					6.9	2.58	6.4	2.51						
6/25-26/23	MOFGA HONEYSUCKLE	not req	5.2					6.4	2.40	6.4	2.51	Ens same per DM, lower as fed					
10/01/23	FVF AMERICAN ELM	5.3	5.1					5.3	1.98	5.1	2.00	Ens similar as fed					
07/01/23	MOFGA ROCK MAPLE	3.9	3.2					3.9	1.46	3.2	1.26						
10/01/23	YKF NORWAY MAPLE HAND-STR.	7.4	6.4					7.4	2.77	6.4	2.51						
7/20-21/23	MOFGA BEECH FRESH	3.1	3.7	.6 lower ensiled				3.1	1.16	3.7	1.45	Ens lower per DM, lower as fed					
09/07/23	YKF SMOOTH BUCKTHORN	7	6.3					7	2.62	6.3	2.47						
09/15/23	YKF WINTERBERRY	6.1	5.9					6.1	2.28	5.9	2.32	Ens similar both DM & as fed					
10/11/23	YKF BIG TOOTHED ASPEN	not req	8.1	BT aspen fresh very high; no figure for ensiled				8	2.99	7.4	2.91	DM					
09/14/23	YKF LEATHER WOOD	8	7.4					4.9	1.83	4	1.57	39.26 Fresh 2022-'25					
06/30/23	MOFGA GREEN ASH	4.9	4					9.8	3.67	9.1	3.57	37.43 Ens 2022-'25					
09/29/22	2022 YKF RED MAPLE POLLARD	9.8	9.1					3.39	1.27	3.49	1.37	Ens lower per DM, lower as fed					
9/18/23 & 10/06/23	YKF & FVF WHITE ASH	not req	6.6	(.58 higher ave ensiled)				4.92	1.84	3.99	1.57						
2022-2023 Complete pairs only, averages:		5.94	5.36	Fat EE went up 11% from				4.52	1.69	4.1	1.61	2022-2025 FAT EE data					
										6.01	2.25	5.4	2.12	Ensiled still 111% of fresh %DM.			
						Aves	5.697	2.13	5.134	2.02	1.11 or 1.06 106% of fresh % as fed						

This (above plus next) & 2 prior pages are 2022-'23 data only. 2025 data follows, then compilation of all differences. (All data is from full per-sample data above.)

MORE ----->

	NEL	NEM	NEG	pH	ME 1X lb	ME 1X kg	DE M cal/kg	A % CP	B % CP	C % CP	Kd CP
2022-2023 Fresh aves	0.71	0.70	0.43	5.26	1.17	2.57	3.00	34.90	57.65	7.45	11.55
2022-2023 Ensiled aves	0.65	0.62	0.35	5.23	1.04	2.28	2.75	34.90	57.65	7.45	11.50

2025 data: only:

Samp ID	Barrel	Harvest Date	Harvest Site, Species	Moisture	DM	Crude P	Adj				Deg P %	ADF	NDF	NFC	%WSC	% Cr	Fat	Ash	TDN
							Crude Protein	Solub P % CP	Solub P % DM	Degr P % CP									
#5	Qt bag	07/08/25	* MOFGA QUAKING ASPEN, FRESH	48.1	51.9	11.6						18	26.7	49.3	24.5	8.52		3.8	78
A7	#14	07/08/23	* MOFGA QUAKING ASPEN ENSEILED	55.8	44.2	12.9	10	10	1.3	failed		24.7	35.5		11.1	not req			61
			* Same site & stand, same date but in diferent years = greater diff	7.7	-7.7	1.3						6.7	8.8		-13.4			-3.8	-17
PR3F	Qt jar	06/21/25	MOFGA HYBRID WILLOW, FRESH	60.3	39.7	17.7		10	1.77	33	5.841	28.4	44	26.9	6.6	3.49	7.99		63
PR3E	Qt jar	06/21/25	MOFGA HYBRID WILLOW, ENSEILED	55.6	44.4	17.6	13.1					27.1	42.2	29.3	9.3	3.39	7.49		59
			Diff Ensiled minus Fresh	-4.7	4.7	-0.1						-1.3	-1.8	2.4	2.7	-0.1	-0.5		-4
PR4F	Qt jar	07/07/25	3SF APPLE, NEW GROWTH FRESH	66.5	33.5	10.8		11	1.188	26	2.808	24.8	39	41.5	12	3.99	4.72		67
PR4E	Qt jar	07/07/25	3SF APPLE, NEW GROWTH ENSEILED	67.5	32.5	11.7	10.3					24	34.6	43.9	7.7	4.92	4.99		68
			Diff Ensiled minus Fresh	1	-1	0.9						-0.8	-4.4	2.4	-4.3	0.93	0.27		1
PR2F	Qt jar	06/08/25	3SF YELLOW BIRCH, FRESH	63.8	36.2	12.3						18.7	30.8	47.7	13.5	4.1	5.1		70
PR2E	Qt jar	06/08/25	3SF YELLOW BIRCH, ENSEILED	64.9	35.1	13.3	7.6					18.2	29.8	47.2	6.4	4.52	5.12		65
			Diff Ensiled minus Fresh	1.1	-1.1	1						-0.5	-1	-0.5	-7.1	0.42	0.02		-5
PR1F	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, FRESH	75.3	24.7	17.2		21	3.612	62	10.664	10.3	15.4	56.5	29	5.4	5.5		77
PR1E	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, ENSEILED	79.4	20.6	22.3	20.7					13.4	17.8	47.1	19.8	6.01	6.75		75
			Diff Ensiled minus Fresh	4.1	-4.1	5.1						3.1	2.4	-9.4	-9.2	0.61	1.25		-2
Samp ID	Barrel	Harvest Date	Harvest Site, Species	Moisture	DM	Crude P	Adj				Deg P %	ADF	NDF	NFC	%WSC	% Cr	Fat	Ash	TDN
							Cr Protein	Solub P % CP	Solub P % DM	Degr P % CP									
PR3F	Qt jar	06/21/25	MOFGA HYBRID WILLOW, FRESH	60.3	39.7	17.7		10	1.77	33	5.841	28.4	44	26.9	6.6	3.49	7.99		63
PR4F	Qt jar	07/07/25	3SF APPLE, NEW GROWTH FRESH	66.5	33.5	10.8		11	1.188	26	2.808	24.8	39	41.5	12	3.99	4.72		67
PR2F	Qt jar	06/08/25	3SF YELLOW BIRCH, FRESH	63.8	36.2	12.3						18.7	30.8	47.7	13.5	4.1	5.1		70
PR1F	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, FRESH	75.3	24.7	17.2		21	3.612	62	10.664	10.3	15.4	56.5	29	5.4	5.5		77
			2025 Fresh averages	66.48	33.53	14.50		14.00	2.19	40.33	6.44	20.55	32.30	43.15	15.28	4.25	5.83		69.25
Samp ID	Barrel	Harvest Date	Harvest Site, Species	Moisture	DM	Crude P	Adj				Deg P %	ADF	NDF	NFC	%WSC	% Cr	Fat	Ash	TDN
							Cr Protein	Solub P % CP	Solub P % DM	Degr P % CP									
PR3E	Qt jar	06/21/25	MOFGA HYBRID WILLOW, ENSEILED	55.6	44.4	17.6	13.1					27.1	42.2	29.3	9.3	3.39	7.49		59
PR4E	Qt jar	07/07/25	3SF APPLE, NEW GROWTH ENSEILED	67.5	32.5	11.7	10.3					24	34.6	43.9	7.7	4.92	4.99		68
PR2E	Qt jar	06/08/25	3SF YELLOW BIRCH, ENSEILED	64.9	35.1	13.3	7.6					18.2	29.8	47.2	6.4	4.52	5.12		65
PR1E	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, ENSEILED	79.4	20.6	22.3	20.7					13.4	17.8	47.1	19.8	6.01	6.75		75
			2025 Ensiled averages	66.85	33.15	16.23	12.93					20.68	31.10	41.88	10.80	4.71	6.09		66.75

Samp ID	Barrel	Harvest Date	Harvest Site, Species	NEL	NEM	NEG	pH
#5	Qt bag	07/08/25	MOFGA QUAKING ASPEN, FRESH	0.88	0.9	0.6	5.8
A7	#14	07/08/23	MOFGA QUAKING ASPEN ENSILED	0.65	0.6	0.34	5.4
			Diff Ensiled minus Fresh	-0.23	-0.3	-0.26	-0.4
PR3F	Qt jar	06/21/25	MOFGA HYBRID WILLOW, FRESH	0.64	0.62	0.35	5.2
PR3E	Qt jar	06/21/25	MOFGA HYBRID WILLOW, ENSILED	0.62	0.57	0.31	5.4
			Diff Ensiled minus Fresh	-0.02	-0.05	-0.04	0.2
PR4F	Qt jar	07/07/25	3SF APPLE, NEW GROWTH FRESH	0.71	0.7	0.43	4.8
PR4E	Qt jar	07/07/25	3SF APPLE, NEW GROWTH ENSILED	0.74	0.72	0.45	4.9
			Diff Ensiled minus Fresh	0.03	0.02	0.02	0.1
PR2F	Qt jar	06/08/25	3SF YELLOW BIRCH, FRESH	0.76	0.74	0.47	4.8
PR2E	Qt jar	06/08/25	3SF YELLOW BIRCH, ENSILED	0.71	0.68	0.41	4.5
			Diff Ensiled minus Fresh	-0.05	-0.06	-0.06	-0.3
PR1F	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, FRESH	0.88	0.86	0.57	5.7
PR1E	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, ENSILED	0.85	0.83	0.55	4.4
			Diff Ensiled minus Fresh	-0.03	-0.03	-0.02	-1.3

Samp ID	Barrel	Harvest Date	Harvest Site, Species	NEL	NEM	NEG	pH
PR3F	Qt jar	06/21/25	MOFGA HYBRID WILLOW, FRESH	0.64	0.62	0.35	5.2
PR4F	Qt jar	07/07/25	3SF APPLE, NEW GROWTH FRESH	0.71	0.7	0.43	4.8
PR2F	Qt jar	06/08/25	3SF YELLOW BIRCH, FRESH	0.76	0.74	0.47	4.8
PR1F	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, FRESH	0.88	0.86	0.57	5.7
				0.75	0.73	0.46	5.125

Samp ID	Barrel	Harvest Date	Harvest Site, Species	NEL	NEM	NEG	pH
PR3E	Qt jar	06/21/25	MOFGA HYBRID WILLOW, ENSILED	0.62	0.57	0.31	5.4
PR4E	Qt jar	07/07/25	3SF APPLE, NEW GROWTH ENSILED	0.74	0.72	0.45	4.9
PR2E	Qt jar	06/08/25	3SF YELLOW BIRCH, ENSILED	0.71	0.68	0.41	4.5
PR1E	Qt jar	06/03/25	YKFW PAGODA DOGWOOD, ENSILED	0.85	0.83	0.55	4.4
				0.73	0.70	0.43	4.8

Differences for All Dates compiled below.

DIFFS, ENSILED MINUS FRESH	Harvest Date	Harvest Site, Species (19)	%	%DM	Adj Cr.	Sol P			Degrble P	ADF	NDF	NFC	WSC	Cr Fat	Ash	TDN	
			Moisture	% DM	Crude P	Protein	%CP		%DM	%DM	%DM	%DM	%DM	%DM	%DM		
							Sol P	Degrble									
							%DM	P %CP									
	07/11/23	MOFGA GRAY BIRCH	3.2	-3.2	-0.1					-1.6	-1.1	0	2.8		0	-13	
	06/08/25	3SF YELLOW BIRCH	1.1	-1.1	1					-0.5	-1	-0.5	-7.1	0.42	0.02	-5	
	10/11/23	YKF BIG TOOTHED ASPEN	1.5	-1.5	1.1	-3.5	5		0.39	1.1	1.1	0	-2.2	-8.1	-5.07	-14	
	06/21/25	MOFGA HYBRID WILLOW	-4.7	4.7	-0.1		0.68	2		-1.3	-1.8	2.4	2.7	-0.1	-0.5	-4	
	09/18/23	YKF WHITE ASH	-1.7	1.7	-0.4	-4.7	5		0.14	-0.5	-1.4	1.5	-0.9	1.3	0.33	-3	
	10/06/23	FVF WHITE ASH	1.3	-1.3	0.5	-1.2	13	0.48	2	1.5	1.6		1			-8	
	06/30/23	MOFGA GREEN ASH	4.8	-4.8	1.3	-8.2	8	1.29		0.76	9.2	5.4	-9.2	-2.8	0.9	1.54	-11
	10/4-6/22	LAUFERS RED OAK	1.8	-1.8	1.2			1.43	3	0	3.4	-4.8	-3.1	0.7	0.5	-4	
	06/27/23	MOFGA BLACK CHERRY	0.8	-0.8	0.1	8.7	4.4		0.02	1.7	0.8	-1.2	-1.8	0.5	1	-3	
	07/07/25	3SF APPLE, NEW GROWTH	1	-1	0.9			0.41	0	-0.8	-4.4	2.4	-4.3	0.93	0.27	1	
	10/04/23	FVF BLACK LOCUST	-0.8	0.8	2.3	-6.3	-2		-0.81	1.1	0.4	-1.7	-4.7	0.7	0.5	-6	
	09/29/23	FVF BASSWOOD	2.6	-2.6	0.4			-0.32	-5	0.8	2.7	-4.7	-5.9	0.5	1	-4	
	10/01/23	FVF AMERICAN ELM	0.6	-0.6	1					0.6	0.6	-2.2	-4	0.2	0.49	-4	
	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	-2	
	07/01/23	MOFGA ROCK MAPLE	5.7	-5.7	-0.4					4.3	2.7	-2.9	-8.7	0.7	-0.04	-3	
	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	-3	
	06/26/23	MOFGA BOX ELDER	0.9	-0.9	2.3	1.2	2		0.94	0.3	-0.2	-3.8	-2	1.3	0.33	1	
	7/20-21/23	MOFGA BEECH FRESH	3.6	-3.6	0.3	-3.2	-1	0.76	0	-0.91	5	4.4	-4	-4.9	-0.6	-0.1	-5
	06/25/23	MOFGA ARROW WOOD	2.9	-2.9	0.8	-5.6	3	-0.11	-8	-0.20	4.8	6.7	-7.2	-4.3	0	-0.24	-8
	6/25-26/23	MOFGA HONEYSUCKLE	5.9	-5.9	3.8	-1.4	0	0.48	-3	-1.60	1	-1.2	0	-9.3	-5.2	-6.89	-8
	09/07/23	YKF SMOOTH BUCKTHORN	0.8	-0.8	1.1			0.49	-23	5.6	6.4	-8.4	-8.8	0.7	0.3	-3	
	09/15/23	YKF WINTERBERRY	1.7	-1.7	0.9	-3.6	6		-0.84	3.8	5.8	-7.5	-5.6	0.2	0.5	-7	
	09/14/23	YKF LEATHER WOOD	-0.7	0.7	-0.8	-5.1	1	0.81	-9	-1.69	5.4	6.7	-6.6	-2.6	0.6	0.11	-6
	06/03/25	YKFW PAGODA DOGWOOD	4.1	-4.1	5.1			0.06	-17	3.1	2.4	-9.4	-9.2	0.61	1.25	-2	
NOT USING Q Aspen sample diffs below, as diffs were much greater than in actual pairs. This was same-stand, same-day data but Fresh & Ensiled were from diferent years:																	
	07/08/23-25	MOFGA QUAKING ASPEN	7.7	-7.7	1.3					6.7	8.8		-13.4		-3.8	-17	

DIFFS, Ensiled
minus Fresh

Harvest Date	Harvest Site, Species (19)	NEL	NEM	NEG	pH
07/11/23	MOFGA GRAY BIRCH	-0.15	-0.22	-0.2	-0.1
06/08/25	3SF YELLOW BIRCH	-0.05	-0.06	-0.06	-0.3
10/11/23	YKF BIG TOOTHED ASPEN	-0.18	-0.25	-0.23	-0.3
06/21/25	MOFGA HYBRID WILLOW	-0.02	-0.05	-0.04	0.2
09/18/23	YKF WHITE ASH	-0.02	-0.04	-0.04	-0.5
10/06/23	FVF WHITE ASH	-0.11	-0.15	-0.14	-0.1
06/30/23	MOFGA GREEN ASH	-0.12	-0.16	-0.14	-0.1
10/4-6/22	LAUFERS RED OAK	-0.05	-0.05	-0.05	-0.2
06/27/23	MOFGA BLACK CHERRY	-0.02	-0.04	-0.03	-0.1
07/07/25	3SF APPLE, NEW GROWTH	0.03	0.02	0.02	0.1
10/04/23	FVF BLACK LOCUST	-0.06	-0.09	-0.08	0
09/29/23	FVF BASSWOOD	-0.04	-0.05	-0.04	-0.7
10/01/23	FVF AMERICAN ELM	-0.04	-0.06	-0.05	-0.1
09/29/22	2022 YKF RED MAPLE POLLARD	-0.02	-0.02	-0.01	0.7
07/01/23	MOFGA ROCK MAPLE	-0.04	-0.05	-0.04	-0.2
10/01/23	YKF NORWAY MAPLE HAND-STR.	-0.02	-0.03	-0.02	-0.4
06/26/23	MOFGA BOX ELDER	0.01	0.02	0.02	0.1
7/20-21/23	MOFGA BEECH FRESH	-0.08	-0.09	-0.08	0.3
06/25/23	MOFGA ARROW WOOD	-0.11	-0.12	-0.11	-0.4
6/25-26/23	MOFGA HONEYSUCKLE	-0.1	-0.14	-0.13	-0.1
09/07/23	YKF SMOOTH BUCKTHORN	-0.05	-0.05	-0.05	0.1
09/15/23	YKF WINTERBERRY	-0.08	-0.1	-0.08	-0.3
09/14/23	YKF LEATHER WOOD	-0.08	-0.09	-0.08	0.6
06/03/25	YKFW PAGODA DOGWOOD	-0.03	-0.03	-0.02	-1.3
NOT USING Q Aspen sample diffs below, as diffs were much greater than in actual pairs. This was same-stand, same-day data but Fresh & Ensiled were from diferent years:					
07/08/23-25	MOFGA QUAKING ASPEN	-0.23	-0.3	-0.26	-0.4