



A Private Ecological Agricultural Membership Association

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COMPARISON OF NATIVE PLANTS WITH ALFALFA (*Chart 1*)

	<i>Alfalfa</i>	<i>Dandelion</i>	<i>Lamb's Qtr</i>	<i>Chicory</i>	<i>Comfrey</i>	<i>Plantain</i>	<i>Nettle Leaf</i>	<i>Burdock</i>	<i>Cleavers</i>	<i>Curly Dock</i>	<i>Yarrow (In Bloom)</i>	<i>Purslane</i>	<i>Jewel Weed</i>
Protein (%)	20.97	25.0	31.7	19.5	23.7	19.6	25.7	29.0	11.7	32.7	15.2	18.6	24.9
Digestible Protein (%)				14.7	18.5	14.7	20.4	23.5	7.3	26.9	10.7	13.8	19.6
Soluble Protein (%)				4.7	2.7	2.9	4.3	3.9	1.2	1.6	1.3	5.2	2
Protein Solubility (%)	50.07	24.4	18.1	24.2	11.4	15.0	16.8	13.4	9.9	4.9	8.8	27.7	0.08
Nitrogen/Sulfur Ratio	11:1	10:1	12:1	8:1	14:1	6:1	4:1	5:1	7:1	15:1	14:1	12:1	14:1
Acid Detergent Fiber (%)	32.1	19.2	15.0	32.8	29.8	34.1	22.6	25.1	40.6	19.5	34.6	26.4	12.9
Neutral Detergent Fiber (%)	43.61	30.0	21.9	46.8	42.2	45.8	34.4	36.5	49.1	44.7	43	38.5	22.2
Relative Feed Value (%)	136.2	229.0	329.0	126	145	127	193	177	108	153	134	165	330
TDN* (est. %)	63.89	80.9	85.6	63.5	66.8	64.4	4.5	71.8	57.1	77.8	61.7	72.9	87.9
ME** (mcal/lb)		1.33	1.41	1.04	1.10	1.06	1.22	1.18	0.9	1.28	1.01	1.2	1.44
Est. NE*** (therms/cwt)		69.9	74.3	54.0	57.0	54.7	64	61.6	48	67.1	52.2	62.6	76.4
NE/Lact (mcal/lb)	0.65	0.85	0.9	0.65	0.69	0.66	0.77	0.75	0.58	0.81	0.63	0.76	0.92
NE/Maint (mcal/lb)		0.90	0.96	0.65	0.70	0.66	0.81	0.77	0.55	0.85	0.62	0.78	0.99
NE/Gain (mcal/lb)		0.6	0.66	0.38	0.43	0.40	0.52	0.49	0.26	0.56	0.36	0.50	0.68
Calcium (%)	1.58	1.04	1.1	0.89	2.73	1.84	4.38	2.10	1.3	0.83	0.99	1.3	1.21
Phosphorus (%)	0.37	0.33	0.39	0.31	0.20	0.26	0.41	0.34	0.39	0.37	0.43	0.38	0.32
Potassium (%)	2.05	4.46	7.66	3.59	3.94	2.97	3.01	3.28	2.46	3.53	3.25	3.17	2.05
Magnesium (%)	0.46	0.26	0.55	0.26	0.39	0.17	0.39	0.43	0.25	0.64	0.29	0.8	0.29
Sodium (ppm)	759			0.04	0.04	0.01	0.01	0.03	0.01	0.02	0.03		
Sulfur - total (%)	0.31	0.41	0.43	0.37	0.27	0.53	0.94	0.90	0.26	0.35	0.17	0.24	0.29
Iron (ppm)	171	657	91	195	176	83	349	149	70	111	100	4419	180
Copper (ppm)	15	15	8	14	29	12	11	26	13	13	17	37	12
Zinc (ppm)	30	34	46	43	46	44	40	32	127	38	40	265	52
Manganese (ppm)	23	35	138	36	192	30	36	47	66	36	71	163	48
Boron (ppm)	50	30	44	28	42	29	67	32	15	31	26	29	26

* Total Digestible Nutrients, ** Metabolizable Energy, *** Net Energy

COMPARISON OF NATIVE PLANTS WITH ALFALFA (*Chart 2*)

	<i>Day Lily Leaf</i>	<i>Day Lily Blossom</i>	<i>Echinacea Leaf</i>	<i>Wild Grape Leaf</i>	<i>Wild Rasp Leaf</i>	<i>Willow Leaf</i>	<i>Hazlenut Leaf</i>	<i>Mulberry Leaf</i>	<i>Chinese Chstnt Lf</i>	<i>Linden Leaf</i>	<i>Elder Leaf</i>	<i>Honey Locust Lf</i>
Protein	20.6	23.4	15.7	22.1	15.2	19.8	14.1	26.2	21.8	16.5	24.2	17
Digestible Protein	15.7	18.3	11.1	17.1	10.6	14.9	9.6	20.9	16.7	11.9	19.0	12.3
Soluble Protein	5.4	14.8	1.8	1.2	0.4	1.5	0.7	3.6	14.7	.06	2.5	1.3
Protein Solubility	26.4	63.0	11.4	5.6	2.8	7.5	4.9	13.7	67.7	3.4	10.4	7.4
Nitrogen/Sulfur Ratio	19:1	20:1	12:1	14:1	16:1	7:1	14:1	17:1	11:1	4:1	12:1	14:1
Acid Detergent Fiber	28.2	17.0	20	9.5	22.6	24.9	20.2	21.5	41.2	19.8	8.0	34.6
Neutral Detergent Fiber	35.7	23.5	29.3	34.6	43.1	37.6	42.3	34.2	70.9	35.3	27.4	48.2
Relative Feed Value	175	299	233	198	154	172	161	197	75	194	255	120
TDN (est.)	70.9	83.4	77.3	77.8	74.5	72	77.1	75.7	54.6	77.5	79.4	61.7
ME (mcals/lb)	1.16	1.37	1.27	1.28	1.22	1.18	1.27	1.24	0.9	1.27	1.30	1.01
Est. NE (therms/cwt)	60.7	72.2	66.6	67.1	64	61.8	66.4	65.1	45.7	66.8	68.6	52.2
NE/Lact (mcals/lb)	0.74	0.87	0.81	0.81	0.77	0.75	0.8	0.79	0.55	0.08	0.83	0.63
NE/Maint (mcals/lb)	0.756	0.93	0.85	0.85	0.81	0.77	0.84	0.82	0.51	0.85	0.88	0.62
NE Gain (mcals/lb)	0.48	0.63	0.56	0.56	0.52	0.49	0.56	0.54	0.26	0.56	0.58	0.36
Calcium	0.81	0.39	2.57	1.91	0.85	1.45	1.44	3.09	1.37	2.79	1.72	1.33
Phosphorus	0.25	0.43	0.25	0.32	0.16	0.23	0.12	0.26	0.2	0.20	0.25	0.24
Potassium	2.24	2.17	2.22	0.95	1.6	1.71	0.75	1.85	0.84	0.88	1.87	1.17
Magnesium	0.20	0.17	0.88	0.25	0.29	0.27	0.31	0.34	0.37	0.53	0.23	0.16
Sodium	0.03	0.05	0.02	0.02	0.01	0.01	0.04	0.02	0.02	0.02	0.03	0.02
Sulfur (total %)	0.17	0.19	0.21	0.25	0.15	0.44	0.16	0.24	0.31	0.19	0.31	0.19
Iron (ppm)	203	86	131	502	100	117	118	154	120	196	274	82
Copper (ppm)	10	22	21	16	18	13	19	12	15	19	14	11
Zinc (ppm)	25	66	32	32	35	105	27	36	61	26	21	33
Manganese (ppm)	54	40	132	89	210	101	373	63	160	65	48	52
Boron (ppm)	49	16	66	31	23	34	28	36	72	52	38	20