

2022 Orchardgrass			Use the 18# fed													
Nutrient		As Received Basis	Amount per 18#	KIS Trace			Flax (avg) per 2oz	Hay Plus Concentrate and Suplmnt	Need to Add	TOTAL						
Moisture	%			0.00 gm	0 gm	0 gm	14 gm	1026.5 gm	gm	1026.5 gm	Protein Goal = ____ % % Protein this page = 11.9 Hay and Total ratios shown as "whole number" ex: 2:1 shown as 2 ex: 1:3 shown as 3 Targets shown as full ratio					
Crude Protein	%	12.40	1012.46 gm													
Acid Det. Fiber	%	0.00														
Neutral Det. Fiber	%	0.00														
Total Dig. Nutrients	%	0.00														
NFC(Non Fiber Carbs)	%	0.00														
NSC (Non Structural)	%	0.00														
Horse TDN	%	0.00		0.00	0 Mcal	Mcal	Mcal	0.0 Mcal	0.0 Mcal							
Dig energy - Mcal/lb		0.00	0.00 Mcal													
Starch	%	0.00		0 gm												
Sugar	%	0.00	0.00 gm	0.00 gm												
Fat	%	0.00	0.00 gm	0.00 gm						0 gm		0 gm	15 gm	15.0 gm	gm	15.0 gm
Phosphorus (P)	%	0.39	31.84 gm	0.0 gm						0.00 gm		gm	0.36 gm	32.2 gm	12 gm	44.2 gm
Calcium (Ca)	%	0.54	44.09 gm	1.0 gm						0.00 gm		gm	0.18 gm	45.3 gm	gm	45.3 gm
Potassium (K)	%	2.86	233.52 gm	0.0 gm	0.00 gm	gm	gm	233.5 gm	gm	233.5 gm						
Magnesium (Mg)	%	0.22	17.96 gm	4.0 gm	0.00 gm	gm	gm	22.0 gm	15 gm	37.0 gm						
Sodium (Na)	%	0.02	1.39 gm	0.00 gm	0 gm	gm	gm	1.4 gm	22 gm	23.4 gm						
Cobalt	ppm	0.00	0.00 mg	mg	0 mg	0 mg	mg	0.0 mg	mg	0.0 mg						
Copper (Cu)	ppm	6.00	49.09 mg	285.00 mg	0 mg	0.00 mg	mg	334.1 mg	mg	334.1 mg						
Iron (Fe)	ppm	109.00	891.82 mg	0.00 mg	0 mg	0.00 mg	mg	891.8 mg	mg	891.8 mg						
Zinc (Z)	ppm	15.00	122.73 mg	850.00 mg	0 mg	0.00 mg	mg	972.7 mg	mg	972.7 mg						
Manganese (Mn)	ppm	48.00	392.73 mg	0.00 mg	0 mg	0.00 mg	mg	392.7 mg	mg	392.7 mg						
Molybdenum	ppm	11.10	90.82 mg	mg	0 mg	mg	mg	90.8 mg	mg	90.8 mg						
Vitamin B6	mg		mg	0.00 mg	0 mg	0 mg	mg	0.0 mg	mg	0.0 mg						
Biotin 2-5	mg		mg	mg	0 mg	0 mg	mg	0 mg	mg	0 mg						
Selenium	ppm	0.00	0.00 mg	3.00 mg	0 mg	0 mg	mg	3.0 mg	mg	3.0 mg						
Vitamin E	IU		IU	750 IU	0 IU	0 IU	IU	750 IU	IU	750 IU						
Vitamin A	IU		IU	30,000 IU	0 IU	0 IU	IU	30,000 IU	IU	30,000 IU						
Vitamin C	mg		mg	0 mg	0 mg	0 mg	mg	0.0 mg	mg	0.0 mg						
Vitamin D	IU		IU	3,000 IU	0 IU	0 IU	IU	3,000 IU	IU	3,000 IU						
Bioflavonoids (2200mg)	mg		mg	mg	mg	0 mg	mg	0.0 mg	mg	0.0 mg						
Iodine	ppm	0.00	0.00 mg	3 mg	mg	0 mg	mg	3.0 mg	2 mg	5.0 mg						
Chromium	mg		mg	mg	mg	0 mg	mg	0.0 mg	5 mg	5.0 mg						
EFA's (flax 2-4 oz)	gm		gm	gm	gm	0 gm	gm	0.0 gm	gm	0.0 gm						
Lysine (AA 2-4gm)	gm	0.00	gm	gm	gm	0 gm	gm	0.0 gm	gm	0.0 gm						
Methionine (AA 2-4gm)	gm		gm	gm	gm	0 gm	gm	0.0 gm	gm	0.0 gm						
Lignin	%	0.00	0.00 gm													
Sulfur	%	0.00	0.00 gm													
Ratios - 18# Hay																
Hay*		Total*		Target												
Ca : Mg		Ca : Mg		Ca : Mg												
2.5		1.2		1.5-2 : 1												
Ca : P		Ca : P		Ca : P												
1.4		1.0		1.5-2 : 1												
Fe : Cu		Fe : Cu		Fe : Cu												
18.2		2.7		4 : 1												
Cu : Z		Cu : Z		Cu : Z												
2.5		2.9		1 : 3												
Cu : Mn		Cu : Mn		Cu : Mn												
8.0		1.2		1 : 3												
Cu : Mo		Cu : Mo		Cu : Mo												
0.5		3.7		>6 : 1												
K : Na		K : Na		K : Na **												
168.2		10.0		3.3 : 1												
Fe:Cu <10 : 1 acceptable K:Na <10:1 acceptable																

Sodium: Na =11.2 gm/per oz plain salt

Iodine = 2.1 mg/per oz iodized salt