

Minimum Maintenance Requirements for 1100 Lb Horse (500 kg) Daily Hay Intake 18 Lbs

NUTRIENT	HAY ANALYSIS RESULTS	REQUIREMENT	PROVIDED IN <u>18</u> LBS	Low/High*	Ratios		Need to Supplement	New Ratios After Supplement	Target
Calories (DE) Mcal	0.89	16.7	16.02	Low to OK			Depends on activity		BCS 4.5 to 5.5
	%	grams	grams						
Protein (CP)	9.2	630.0	751.2	High - OK					
Calcium (Ca)	0.44	20.1	35.9	High - OK					
Phosphorus (P)	0.23	14.0	18.8	OK	Ca/P	1.9 to 1	0 g	1.9 to 1	1.5 to 2:1
Magnesium (Mg)	0.20	7.5	16.3	High - OK	Ca/Mg	2.2 to 1	2 g	2.0 to 1	1.5 to 2:1
Potassium (K)	1.17	25.0	95.5	OK					
Sodium (from salt) (Na)	0.312	10.0	25.5	High - OK			1 oz salt*		
	ppm	mg	mg						
Iron (Fe)	211	400	1726	Excessive	Fe/Cu	35 to 1		4 to 1	4:1 to 10:1
Copper (Cu)	6	100	49	Low	Fe/Cu	35 to 1	380 mg	4 to 1	4:1 to 10:1
Zinc (Zn)	17	400	139	Low	Zn/Cu	3 to 1	1000 mg	3 to 1	3:1
Manganese (Mn)	61	400	499	OK	Mn/Zn	4 to 1		0.42 to 1	50-100% of zinc
Iodine (I)	not usually tested	3.5	—	None expected			3.5 mg		
Selenium (Se)	0.03	1.0	0.2	Low			1-2 mg		

For most minerals, providing 150% of NRC is a reasonable “insurance” goal

* Salt should be supplemented year round even if forage results indicate sufficient levels.