

Table 4. Comparison of NRC daily nutrient requirements and hay and grass pasture daily nutrient intakes after balancing on Fe.

	Ca (g)	P (g)	Mg (g)	Ca/Mg	Ca/P	CP (g)	DE (Mcal)
NRC Pleasure	20	14	7.5	2.7	1.4	630	16.7
Grass Hay-Y	49	30	16	3.1	1.6	990	19.1
NRC Endurance	35	21	11.5	3.0	1.7	768	23.3
Pasture-G	54	36	20	2.7	1.5	2240	24.9
	Fe (mg)	Cu	Zn	Mn	Mo	Se	Co
NRC Pleasure	400	100	400	400	None	1.0	0.5
NRC Endurance	450	112.5	450	450	None	1.1	0.6
Grass Hay-Y	760	80	200	620	12	0.9	2.6
Fe balance		190	570	570			
Supplement	None	110	370	None			
Pasture-G	1260	150	310	440	18	n/a	n/a
Fe balance		315	945	945			
Supplement	None	165	635	235*			

Note: K and Na are not represented in this table. K deficiency is rare. Na supplementation is required for both maintenance and moderate workload plus any additional sweat losses. Compare Tables 2 and 3. Chloride (Cl) is not included in the nutrient profiles but daily intake from grass hay can be estimated based on an average value of 6.7 g Cl per 1 kg hay (= 67 g Cl per day 2% BW). NRC requirements are 40 g and 53 g per day for average maintenance and moderate workload, respectively.

*Target for Mn is 150% NRC, or at least 50% Zn. In this case, total Mn = 440 + 235 mg = 675 mg, which meets both targets. Final Fe:Cu:Zn:Mn ratio is 1260:315:945:675, or 4:1:3:2.