

Table 1. Survey of Mineral Content of Grass & Clover Hay in Douglas County (Douglas County Hay Survey. 1998. Shelby Filley, OSU Extension Service and Rex Heard, DC Farmers Cooperative).

Minerals	Average (range) of 40 samples
Calcium (%) ^a	0.43 (.23 - .70)
Cobalt (ppm)	Not done
Copper (ppm)	5.60 (4-7)
Iodine (ppm)	Not done
Iron (ppm)	153.00 (49-726)
Magnesium (%)	0.20 (.14-.29)
Manganese (ppm)	172.13 (34-366)
Molybdenum (ppm)	1.20 (<1-1.9)
Nickel (ppm)	Not done
Phosphorus (%)	0.22 (.15-.29)
Potassium (%)	1.78 (1.6-2.5)
Selenium (ppm)	Not done, widely deficient
Sodium (%)	0.09 (.02-.27)
Sulfur (%)	Not done
Zinc (ppm)	20.50 (15-28)

^a ppm = parts per million (1 ppm = 0.0001%; 1% = 10,000 ppm) and 1 mg/kg = 1 ppm.