

Table 4. Herbage production, nutritive values, and predicted milk production from the Wangsgard on-farm trial located in Young Ward, Utah. Treatments consisted of mixed pasture with applications of Chilean nitrate (Nitrate), high sulfur gypsum (Gypsum), elemental sulfur (Sulfur), and mixtures of nitrate and gypsum (Nit+Gyp), and gypsum and sulfur (Gyp+Sulf). Adapted from M. Rose M.S. thesis, 2019, Utah State University.

Trmt.	Herbage production		CP		NDF		IVTD		TDN	
	lb. acre ⁻¹		-----%		-----%		-----%		-----%	
Nit+Gyp	4740	a	14.2	a	56.2	a	77.4	ab	62.5	d
Nitrate	4244	ab	14.2	a	55.5	ab	77.4	ab	65.5	abc
Nothing	3765	b	14.7	a	52.7	b	79.8	a	67.1	ab
Gypsum	3667	bc	13.1	a	57.0	a	75.9	b	63.5	cd
Gyp+Sulf	3595	bc	14.8	a	53.8	ab	78.2	ab	65.0	bcd
Sulfur	2983	c	15.1	a	52.5	b	78.6	a	67.9	a
Mean S.E	265		n.s		1.1		0.9		1.1	

	RFQ		NE _L		Milk day ⁻¹ †		Milk acre ⁻¹ †	
			Mcal kg ⁻¹		-----lb.-----		-----lb.-----	
Nit+Gyp	141.2	b	0.6	d	53.1	b	7353.8	a
Nitrate	150.4	ab	0.7	abc	57.9	ab	6987.2	a
Nothing	163.9	a	0.7	ab	64.7	a	6455.3	ab
Gypsum	140.3	b	0.7	cd	52.8	b	5853.7	bc
Gyp+Sulf	158.4	ab	0.7	bcd	61.9	ab	5642.2	bc
Sulfur	165.6	a	0.7	a	65.6	a	5194.0	c
Mean S.E	6.6		0.01		3.3		399.1	

Pasture treatments followed by different letters (a,b,c,d,e) are significantly different ($p = 0.05$).

†Predicted milk values are intended for comparison between treatments rather than for precise numerical estimates