

NITRATE LEVELS IN FORAGE

	REPORTED METHOD (Dry Matter Basis)				COMMENTS
	Nitrate Nitrogen (NO ₃ -N)		Nitrate (NO ₃)		
	% (lons)	ppm	% (lons)	ppm	
	<0.10	<1,000	<0.44	<4,400	Generally safe to feed. University of Missouri Extension states problems can already commence at 550 ppm NO ₃ -N (2,500 ppm NO ₃), especially if feeding along with non-protein N sources.
	0.10 - 0.15	1,000 - 1,500	0.44 - 0.66	4,400 - 6,600	Safe for non-pregnant animals. Limit to 50% or less (DM basis) for pregnant animals. Some abortions possible at this level.
	0.15 - 0.20	1,500 - 2,000	0.66 - 0.88	6,600 - 8,800	Limit use to 50% total ration (DM basis) for all animals. Missouri Extension recommends limiting to only 25% of total ration between 1,100 - 3,400 ppm NO ₃ -N (5,000 - 15,000 ppm NO ₃).
	0.20 - 0.35	2,000 - 3,500	0.88 - 1.54	8,800 - 15,400	Limit use to 35% or less of total ration (DM basis) for non-pregnant animals. DO NOT FEED to pregnant animals.
	0.35 - 0.40	3,500 - 4,000	1.54 - 1.76	15,400 - 17,600	Limit use to 25% or less of total ration (DM basis) for non-pregnant animals. DO NOT FEED to pregnant animals. Missouri Extension says anything over 3,400 ppm NO ₃ -N (15,000 ppm NO ₃) should not be fed.... but if it must be fed, limit to less than 15% of total ration.
	>0.40	>4,000	>1.76	17,600	Potentially toxic. DO NOT FEED.

REFERENCES:

University of Missouri, University of Wisconsin, University of Tennessee, North Carolina State University, South Dakota State University

THIS IS ONLY A GUIDE. La Crosse Seed makes no claims and makes no guarantees/warranties regarding performance and function of feedstuffs or their detrimental effects. Test results will vary by testing lab and by method of sample collection, forage management, climate and other environmental factors.