

# HOW MUCH NITRATE IS TOO MUCH?

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<b>NO<sub>3</sub><sup>-</sup>-N</b>	<b>NO<sub>3</sub><sup>-</sup></b>	<b>Category</b>	<b>Recommendation</b>
	<b>ppm</b>		
<b>0 to 550</b>	<b>0 to 2,500</b>	<b>SAFE</b>	Forage is generally safe to feed to all classes of livestock.
<b>550 to 1,100</b>	<b>2,500 to 5,000</b>	<b>CAUTION</b>	Forage with this nitrate (NO <sub>3</sub> <sup>-</sup> ) content can cause a problem with pregnant and young animals. Do not feed forage with nitrate levels this high in combination with non-protein nitrogen supplements, and limit forage with NO <sub>3</sub> levels this high to one-half of total ration.
<b>1,100 to 3400</b>	<b>5,000 to 15,000</b>	<b>DANGER TOXIC</b>	Limit forage with this NO <sub>3</sub> <sup>-</sup> level to one-fourth of total ration. Should supplement forage of this type with energy, minerals and vitamin A.
<b>More than 3,400</b>	<b>More than 15,000</b>	<b>EXTREMELY TOXIC</b>	Forage with this NO <sub>3</sub> <sup>-</sup> level or higher is toxic and should not be fed under any circumstance. If forage with this NO <sub>3</sub> <sup>-</sup> concentration must be fed, it should be mixed with other feed and make up no more than 15 percent of the total ration.