

**Table 1. Soil Nitrate-Nitrogen Limits and Phosphorus Thresholds**

Nutrient Management Zone and Agriculture Capability		Residual <sup>†</sup> soil nitrate-nitrogen limits within the top 60 cm (24 inches) of soil
Zone	Soil Class	kg/ha (lb/ac)
N1	class 1, 2 and 3 except any 3M* subclass	157.1 (140)
N2	any 3M* subclass, class 4 and 5M* subclass if it is being irrigated	101 (90)
N3	class 5 except 5M <sup>§</sup> under irrigation	33.6 (30)
N4	class 6, 7, and unimproved organic	no nitrogen applications
NB	not applicable	no nitrogen applications

Nutrient Management Zone	Soil phosphorus (P) thresholds within the top 15 cm (6 inches) of soil (Olsen P)	Allowable application rate of P expressed as P <sub>2</sub> O <sub>5</sub>
Zone	Parts per million (ppm)	kg/ha (lb/ac)
N1	<60	no restriction
	between 60 and <120 (ppm)	two times the crop removal rate **
N2 and	between 120 and <180	one times the crop removal rate **
N3	180 and more	no application without approval by the director
N4	no phosphorus applications	
NBZ	no phosphorus applications	

\* A “3M” subclass includes soil classes 3M, 3ME, 3MI, 3MN, 3MP, 3MT, 3MW and any other subclass of soil class 3 having an “M” subclass designation.

§ A “5M” subclass includes soil classes 5M, 5ME, 5MP, 5MT or 5RM and any other subclass of soil class 5 having an “M” subclass designation.

NBZ Nutrient Buffer Zone (Table 2)

\*\* May apply manure at up to five times the annual crop removal rate provided the next application does not occur until the equivalent number of application years have passed or soil test phosphorus levels at any place in the field do not exceed the soil test values prior to the manure application. However, the annual nitrate nitrogen limits must not be exceeded.

† At the end of the growing season after the production of a crop.

Information on soil class (agriculture capability) may be accessed via Agri-Maps at the following link:  
<http://geoapp2.gov.mb.ca/website/mafri/index3.html>