

North Dakota Fertilizer Recommendation Tables and Equations

Based on Soil Test Levels and Yield Goals

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Contents

Table 1.	Soil Test Calibration Levels Used in North Dakota	5
Nutrient Recommendations		
Table 2.	Alfalfa	5
Table 3.	Barley, feed	6
Table 4.	Barley, malting	6
Table 5.	Buckwheat	6
Table 6.	Canola	6
Table 7.	Clovers (alsike, red, birdsfoot trefoil, grass-legume)	7
Table 8.	Corn, grain and popcorn	7
Table 9.	Corn, silage	7
Table 10.	Corn, sweet	7
Table 11.	Crambe	8
Table 12.	Dry bean (pinto, navy, other)	8
Table 13.	Flax	8
Table 14.	Forage/hay grasses, established, irrigated, new seedings, native grass	8
Table 15.	Millet and canary seed	9
Table 16.	Mustard	9
Table 17.	Oat	9
Table 18.	Pea, field, lentil and chickpea (garbanzo bean)	9
Table 19.	Potato	10
Table 20.	Safflower	10
Table 21.	Sorghum, grain	10
Table 22.	Sorghum, forage, sudangrass	10
Table 23.	Soybean	11
Table 24.	Sugarbeet	11
Table 25.	Sunflower	11
Table 26.	Wheat, spring, durum, winter and rye	11

The following soil test recommendation tables are based mainly on field research data obtained in North Dakota, South Dakota, western Minnesota and the Canadian prairie provinces. In the case of some crops, data in the literature were also used to supplement data available from this area.

These tables were developed in cooperation with South Dakota State University and the University of Minnesota under the Tri-State Recommendation Program.

Note that phosphorus and potassium soil test results in these tables are in parts per million (ppm). Some laboratories express results for P and K in terms of pounds per acre instead of ppm. Parts per million (ppm) times two is equal to pounds per acre for a zero- to 6-inch deep sample.

There are changes in this bulletin from previous publications. Please dispose of older editions. Changes in comparison to previous tables were made based on new data.

Recommendations for a limited number of yield goals are found in each table. Use the formulas directly below each table to determine recommendations for a yield goal not found in the table. Recommendations in the P and K tables are the values obtained from the average soil test within response category (very low, low, medium, high, very high) for the yield goal.



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