

*The application of phosphorous and potassium to turf areas should be based on soil test results. Soil samples should be taken to a depth of 15 cm.

Fertilizer recommendations are often based on pounds of actual (elemental) Nitrogen applied. By using the following calculation you can determine the application rate of any Nitrogen fertilizer formulation.

To apply 1 pound actual N/1000 sq.ft. (0.5kgN/100m2)

$$\frac{100}{\% \text{ nitrogen in the fertilizer}} \times 1 \text{ lb.N/1000 sq.ft.} = \text{lbs. fertilizer/1000 sq. ft.}$$

or

$$\frac{100}{\% \text{ nitrogen in the fertilizer}} \times 0.5 \text{ kgN/100m}^2 = \text{kg fertilizer/100 m}^2$$

Example:

How much 25-10-10 fertilizer would be required to apply 0.5 lbsN per 100 sq ft?

$$\frac{100}{25} \times 0.5 \text{ lbsN} = 2 \text{ lbs. 25-10-10}$$

(to convert this to lbs./acre, multiply by 43.56. $2 \times 43.56 = 174.24 \text{ lbs/acre}$ 25-10-10 are required.

TO OBTAIN 1 LB.N (0.5 KgN)

% Nitrogen in Fertilizer	LBS /1000 FT ² (KG/100 M ²)	LBS/ ACRE (KG/HA)
5	20.0 (9.75)	871 (975)
6	16.7 (8.14)	727 (814)
7	14.3 (6.98)	623 (698)
8	12.5 (6.1)	545 (610)
9	11.0 (5.36)	479 (536)
10	10.0 (4.88)	436 (488)
11	9.0 (4.39)	392 (439)
12	8.0 (3.91)	349 (391)
13	7.7 (3.75)	335 (375)
14	7.0 (3.42)	305 (342)
15	6.7 (3.27)	292 (327)
16	6.3 (3.07)	274 (307)
17	5.9 (2.88)	257 (288)
18	5.6 (2.73)	244 (273)
19	5.2 (2.54)	227 (254)
20	5.0 (2.44)	218 (244)
21	4.8 (2.34)	209 (234)
22	4.5 (2.20)	196 (220)
23	4.4 (2.15)	192 (215)
24	4.2 (2.05)	183 (205)
25	4.0 (1.95)	174 (195)
26	3.9 (1.90)	170 (190)
27	3.7 (1.80)	161 (180)
28	3.6 (1.76)	157 (176)
29	3.5 (1.700)	152 (170)
30	3.3 (1.61)	144 (161)

Report on Second Annual Turfgrass Research Field Day

The second annual Turfgrass Research Field Day was held at the OMAF Horticulture Research Station at Cambridge on August 27, 1987. This event was sponsored by the Ontario Turfgrass Research Foundation (OTRF), The Guelph Turfgrass Institute (GTI), and the Ontario Ministry of Agriculture and Food (OMAF).

The field day was started at noon with a barbeque lunch, which was followed by a tour of the turfgrass research plots and several equipment demonstrations. A large caliper tree was also planted on the site by Douglas Woods Large Tree Sales Limited.

According to Annette Anderson, OMAF's Turf Extension Specialist, over 250 people had been registered to attend the field day. This event attracted people from all sectors of the

turfgrass industry, including athletic field managers, golf course superintendents, sod growers, lawn care professionals, and parks and recreation personnel.

Participants were invited to view the plots at their own leisure after a welcome from GTI Director Lee Burpee. All research plots were numbered and participants were given a corresponding book which outlined the objectives, methods and observations of each experiment. Individual researchers were also on hand to answer more specific questions.

Photo: GTI Director Dr. Lee Burpee welcomes delegates to the second annual turfgrass research field day, held in Cambridge on August 27. Article and photo courtesy of Horticulture Review.

