

Soil Test Analysis Recommendations— Trees, Shrubs and Fruits

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Nitrogen Recommendations

Nitrogen (N) fertilizer recommendations for landscape trees and shrubs, fruit trees, and small fruits are based on the organic matter content of the soil, the age of the planting (new vs. established), and the level of maintenance or degree of desired growth.

NITROGEN RECOMMENDATIONS FOR ESTABLISHED TREE FRUITS, LANDSCAPE TREES AND SHRUBS

Soil organic matter level ¹	Amount of nitrogen (N) to apply	
	Low maintenance level ² lb. N/100 ft ²	High maintenance level ³ lb. N/100 ft ²
Low	0.10	0.20
Medium to high	0.07	0.15

¹Low organic matter = less than 3.1%, medium to high = 3.1 to 19%

²Use the low maintenance level:

- a) for newly planted fruit trees and landscape plants
- b) to maintain health of mature trees and shrubs where rapid growth is not desirable.
- c) for established fruit trees
- d) for young trees and shrubs under restricted growing conditions

³Use the high maintenance level on young non-fruiting trees and young landscape plants when rapid growth is desired

NITROGEN RECOMMENDATIONS FOR SMALL FRUITS

Soil organic matter level	Amount of nitrogen (N) to apply lb. N/100 ft ² .
Low	0.20
Medium to high	0.15

Phosphorus and Potassium Recommendations

Phosphorus (P) and potassium (K) fertilizer recommendations for small fruits, tree fruits, and landscape trees and shrubs are very important in new plantings, because both elements are relatively immobile in most soils. Topdress applications following establishment move very slowly through the soil.

PHOSPHORUS RECOMMENDATIONS FOR FRUITS, TREES AND SHRUBS

Phosphorus (P) soil test level		Amount of phosphate (P ₂ O ₅) to apply lb. P ₂ O ₅ /100 ft ²
Bray-P1 ppm	Olsen-P ppm	
0-5	0-3	0.20
6-10	4-7	0.10
11-25	8-18	0.05
over 25	over 18	0

POTASSIUM RECOMMENDATIONS FOR FRUITS, TREES AND SHRUBS

Potassium (K) soil test level ppm	Amount of potash (K ₂ O) to apply lb. K ₂ O/100 ft ²
0-50	0.20
51-100	0.10
101-150	0.05
over 150	0.00