



Maryland Department of Agriculture

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Office of Resource Conservation

Nutrient Management Program

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor
Joseph Bartenfelder, Secretary
Julianne A. Oberg, Deputy Secretary

The Wayne A. Cawley, Jr. Building
50 Harry S. Truman Parkway
Annapolis, Maryland 21401
www.mda.maryland.gov

410.841.5959 Baltimore/Washington
410.841.5950 Fax
800.492.5590 Toll Free

Farmers Encouraged to Use Phosphorus Tools to Ensure Proper Crop Nutrient Applications

With spring planting fast approaching, the Maryland Department of Agriculture’s Nutrient Management Program would like to remind farmers, especially vegetable growers, of the importance of properly managing phosphorus applications.

For farm fields with phosphorus Fertility Index Value (FIV) in the range of 101-149, farmers are encouraged to consult the NuMan Pro software footnotes of their nutrient management plan for phosphorus recommendations, typically given as a starter fertilizer recommendation. For fields with phosphorus FIV of 150 or greater, the consultant writing the nutrient management plan must run the Phosphorus Site Index (PSI) to determine a rate of phosphorus application. As a reminder, no phosphorus may be applied to fields with an FIV of 500 or greater.

Dr. Patricia Steinhilber of the University of Maryland provides the following guidance concerning PSI: “For fields where the soil test phosphorus, expressed as a Fertility Index Value (FIV-P) is between 101 and 149, growers may apply phosphorus starter for those crops where a starter is recommended or the crop's phosphate removal. For fields where the FIV-P is 150 or greater, a Phosphorus Site Index must be calculated for each field.”

Phosphorus Site Index (PSI) and Consequences for Further Phosphate Application

PSI Score	Relative Score	Commercial Phosphate Fertilizer Allowed	Organic Nutrient Source Allowed
0 - 50	low	up to crop's phosphate removal	nitrogen-based rate
51-75	medium	up to crop's phosphate removal	nitrogen-based rate 1 year in 3; up to crop's phosphate removal year's 2 and 3
76-100	high	up to crop's phosphate removal	up to crop's phosphate removal every year
greater than 100	very high	none allowed	none allowed

Growers with questions about PSI or phosphorus application policy may contact the Maryland Department of Agriculture’s Nutrient Management Program at 410-841-5959.