Seasonal Variability in Soil Test Results Using Morgan and Mehlich-III Extractions in New York. (S08ketterings195602-Poster)

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Abstract:

A study was initiated in the spring of 2001 to study seasonal fluctuations in soil test results and the implications for fertilizer recommendations and environmental risk indices in New York. A total of 41 sites were sampled over two depth (0 to 5 and 0 to 15 cm depth) in May, June, July, October and November of 2001 and April, May, June, July, and October of 2002. Sites were selected to include calcareous and acidic soils and low and high fertility soils. Samples were analyzed for pH, organic matter, Morgan extractable P, K, Ca, Mg, Fe, Al, Mn, Zn, and nitrate as well as for Mehlich extractable nutrients and Bray 1 P. Temperature measurements were taken and samples were analyzed for moisture content at the time of sampling. Initial results showed an increase in available P and K with soil temperature increase while pH remained unaffected.

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