

## **Project #9073 Establishing a Pre-Sidedress Soil Nitrogen Test (PSNT) for peppers**

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### **BRIEF**

#### **DESCRIPTION**

The rising cost of fertilizers and increasing pressure from society to protect consumers and the environment may encourage growers to re-evaluate their nutrient management strategies and look for methods to optimize nutrient use efficiency. One method to increase N efficiency may be the pre-sidedress soil nitrogen test (PSNT), which gives an estimate of the N supplying capacity of soil throughout the season. The proposed research will establish the PSNT for peppers

Determine crop N uptake and removal values based on current grower N rates and production systems to ensure that current and accurate data is used in Ontario's nutrient management (Nman) program, and

Assess soil residual N at harvest after applying zero N fertilizer compared to various N rate. The proposed project consists of one year of field studies on 9—12 fresh market pepper fields. This expands on the previous three years of small plot trials with peppers (var. Aristotle)

### **PROJECT**

#### **OBJECTIVE**

To establish the pre-sidedress soil nitrogen test (PSNT) for peppers

To determine pepper crop N uptake and removal values based on current grower N rates and production systems to ensure that current and accurate data is used in Ontario's nutrient management (Nman) program,

To assess soil residual N at harvest of applying zero N fertilizer compared to various N rate