

Project #9069
Evaluation of controlled release Fertilizers
for Vegetable Production

BRIEF

DESCRIPTION

This project is designed to address issues of “Environmental Sustainability” by evaluating controlled release nitrogen fertilizers for cabbage and pepper crops in terms of yield, quality, nutrient removal and potential loss of nitrogen to the environment. Recommendations for use of controlled release fertilizer products will be developed and the release rate of these products will be determined to facilitate selection of formulations for other vegetable crops. There could be great benefit to the vegetable industry in terms of reduced production inputs and nitrogen loss. Collaborators will include industry representatives and extension personnel.

PROJECT

OBJECTIVE

- Compare controlled release fertilizers to conventional split application nitrogen regimes in terms of nitrogen required, estimated uptake, loss, and optimum amount for yield and quality of cabbage.
- Compare controlled release fertilizers to conventional fertigation nitrogen regimes in terms of yield and quality of bell peppers.
- Determine release rates of new products in soils under Ontario conditions to facilitate selection for use with various vegetables.