



Project Profile

Benefit Study on the Land Application of Pulp and Paper Mill Biosolids

Central Canada

One of the regulatory requirements to establish a land application program for the utilization of pulp and paper mill biosolids on agricultural land is the completion of a benefit study to demonstrate the value of the biosolids to soil and crops.

A greenhouse testing program was initially performed with pulp and paper biosolids on alfalfa, barley, corn and soybeans.

A 3 to 5 year field trial program on corn was initiated the following year using test plots with various treatments of biosolids and/or commercial fertilizer. A replicated block design trial was set up to determine the effects of spring and fall applied biosolids, on corn crop development, yield and soil. Soil, leaf and grain corn samples were collected at various periods throughout the growing season and were analysed and assessed with respect to the impacts of the biosolids. The second year of field trials and testing is currently in progress.

Services: research experimental design, soil and plant tissue collection, data analysis and compilation

