NMAN2001 - Comprehensive Nutrient Management Planning Software

Jake DeBruyn, Don Hilborn, Chris Brown and Kevin McKague Ontario Ministry of Agriculture, Food and Rural Affairs Box 666, Hwy 59 N Woodstock, ON N4S 7Z5 jake.debruyn@omafra.gov.on.ca

Abstract NMAN2001 (Nutrient Management Software, 2001) is a software tool developed by the Ontario Ministry of Agriculture, Food and Rural Affairs (Canada). Considered to be one of the most comprehensive and successful software packages of its kind, NMAN assists producers and agricultural consultants in developing nutrient management plans which take into consideration all aspects of agricultural operations. NMAN allows its users to consider all sources of nutrients available at a farm, field or sub-field basis, including

nutrients in commercial fertilizers, legume crops, manure, and bio-solids. Nutrients available from all sources are balanced with crop needs to maximize crop uptake while minimizing the risk of nutrient loss to surface water and ground water sources.

Specific features of NMAN include:

- Windows 95/98/2000/NT compatible.
- Farmer-friendly interface.
- Can track nutrient and manure applications on up to 50 fields.
- Considers both agronomic and crop removal nutrient application rates.
- Can be used for both field and horticultural crops.
- A database of manure analysis results provides the user with an estimate of the manure nutrient content of various manure types under a variety of management conditions.
- Determines manure application rates and actual equipment speeds.
- A manure storage sizing subroutine estimates manure storage volume requirements for new storages or existing livestock facility designs.
- An economic analysis shows the equivalent dollar value of the manure nutrients applied.
- A "Phosphorus Index" calculation identifies minimum recommended separation distances from watercourses to prevent pollution.
- Operates in metric, Imperial or US Imperial measurements.
- Allows field sketches, site specific maps or air photos to be displayed.
- On-line upgrades are available through the Ministry website.

Use of the NMAN software may be required in the future as part of a Nutrient Management Plan to meet regulatory requirements in Ontario.