

## **Runoff of Liquid Manure from Sloping Land**

R. Fleming, M. MacAlpine

CSBE08142

A field study was carried out in 2007 in an attempt to establish maximum liquid manure application rates on sloping fields. Manure was spread on several plots at 3 sites – representing slopes of 2 to 4%, 5 to 9% and greater than 9%. Liquid dairy manure was compared to liquid swine manure at all 3 sites and water was also applied at the 2 steeper sloping sites. The previous crop was wheat. Half of the sites were pre-tilled prior to application. Three rates of application were used, representing typical high rates (i.e. in an attempt to achieve a worst case scenario). In addition, rainfall simulation testing was carried out on a sampling of the plots at 24 hours following manure application. Runoff from the 1 m x 1 m plots was collected after manure spreading and again after simulated rainfall. The paper will detail the main findings.