

Figure 1

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Thompson River University
Continuing Education

Manure

Province: British Columbia Region: Lower Mainland
 Station: Abbotsford Airport
 Enter your location and application date (uses weather data and forecast) From: May 12, 2014
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AMMONIA LOSS FROM APPLIED SLURRY MANURE Abbotsford Airport May 12, 2014

Ammonia Loss As Percent Of Ammonia Applied

Loss of Ammonia-N as % of applied

Time (Hours)

Ammonia Loss In kg/ha
(for lb/ac multiply by 0.9)

Estimated ammonia-N loss in kg N/ha

Time (Hours)

Soil Moisture
 Dry
 Wet

Air Temperature
 0 C
 32 F

Wind Speed
 6.4 km/hr
 4 mi/hr

Slurry Type
 Cattle
 Pig

DM%
 4 %

Ammonia-N Content
 2 g N/kg

Application Technique
 Broad Spread
 Sleighfoot
 Band Spread/Trailing Hose
 Shallow Injection
 Deep Injection

Application Rate
 3188 gal/ha
 40 t/ha

Slurry Incorporation
 No
 Shallow Cultivation

Total Ammonia N Loss 33.4 %
(% of applied)

Time to 50% loss of Ammonia-N 9.8 h

Tool for calculating ammonia from www.farmwest.com; click on manure tab on top right of home page.