

Ammonia Losses from Beef Cattle Manure

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Abstract This poster will outline work done during the summer of 2000 to quantify ammonia emissions from feedlot manure composting. The work was carried out at the Lethbridge research station of Agriculture and Agri-food Canada, and used manure mixed with two types of bedding: wood chips and straw. Two compost windrows were formed with each manure-bedding mixture and these were turned at intervals with a mechanical compost turner. Simple acid traps were used to capture ammonia that was emitted from the windrows. Results from the acid traps were compared with nitrogen analyses performed on samples taken from the windrows when they were formed and at each turning. Initial results indicate that significantly more ammonia was lost from the straw bedding mixture.