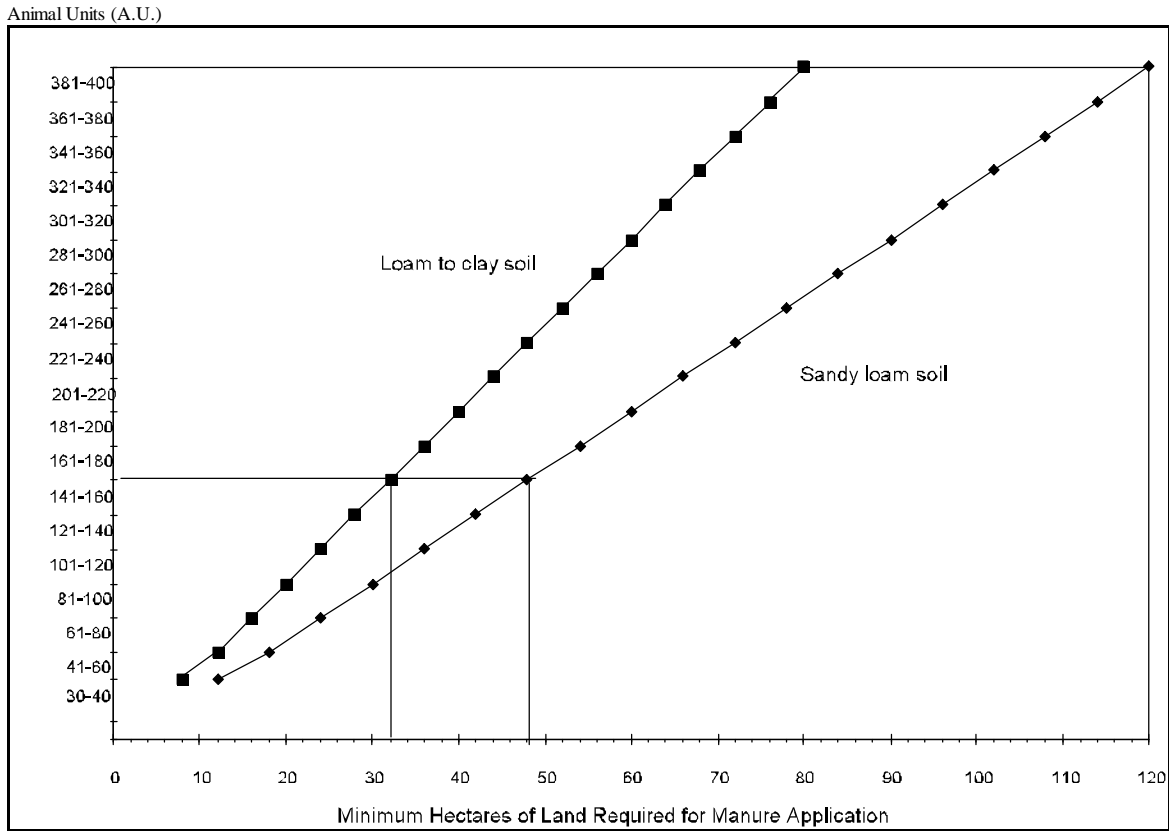


APPENDIX C

Recommended Minimum Land Area for Manure Applications



Note: For example, a farrow to finish hog operation with 160 sows (equal to 160 animal units (AU) as shown in Table C.1 [1 sow = 1 AU]) would require a minimum of 32 hectares of loam soil or 48 hectares of sandy loam soil. This is calculated by extending a horizontal line from the 141-160 AU point on the vertical axis over to the two heavy lines and then drawing another line downwards to the horizontal axis to 32 and 48 hectares, respectively. This same process can be repeated for any sized operation once the AUs have been determined from Table C.1.

TABLE C.1**Animal Unit Equivalents (A.U.)**

Type of Livestock	Av. Weight Per Animal (kg)	Number of Livestock = 1 AU	Number of A.U. per Livestock
Dairy Cows	545.0-640.0	1	1.20-1.41
Heifers	300.0	2	1.30 (0.66 each)
Veal	91.0	5	1 (0.20 each)
Bulls	545.0	1	1.20
Beef Cattle	360.0	2	1.60 (0.79 each)
Sows (F to F)	454.0	1	1
Sows	150.0	3	1 (0.33 each)
Hogs	75.0	6	1 (0.165 each)
Boars	150.0	3	1 (0.33 each)
Sheep (Ewe)	54.0	8	1 (0.119 each)
Sheep (Lamb)	27.0	16	1 (0.059 each)
Goats	64.0	7	1 (0.141 each)
Foxes (w/Litter)	11.35	40	1 (0.025 each)
Mink	3.0	150	1 (0.007 each)
Rabbits	2.27	200	1 (0.005 each)

Note: One animal unit is equivalent to 454 kg (1,000 lb) live weight.

Source: Newfoundland and Labrador Department of Forest Resources and Agrifoods.