

References for the Manitoba Land Calculator

1. Alberta Agriculture and Food. 2008. The Beef Cow-Calf Manual. 4th ed. Alberta Agriculture and Food. Edmonton, AB.
2. Alberta Agriculture, Food and Rural Development. 2004. Beef Ration Rule of Thumb. Agdex 420/52-4.
3. Alberta Agriculture and Rural Development, 2011. CowBytes Version 5. Agdex420/52-5. [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/agdex12486](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex12486)
4. American Society of Agricultural Engineers, 2005. D384.2 Manure Production and Characteristics. <http://www.agronext.iastate.edu/immag/pubs/manure-prod-char-d384-2.pdf>
5. Anele, U.Y., Domby, E.M. and M. L. Galyean. 2014. Predicting dry matter intake by growing and finishing beef cattle: Evaluation of current methods and equation development. J ANIM SCI 92:2660-2667.
6. Bachand, Charles. 1999. Les rejets d'azote et de phosphore par les bovins laitiers. Le producteur de lait du Québec – Octobre 1999.
7. Bernier, J.N. Undi, M. Ominski, K.H, Donohoe G., Tenuta, M. Flaten, D. Plaizier, J.C. and Wittenberg, K.M. 2014. Nitrogen and phosphorus utilization and excretion by beef cows fed a low quality forage diet supplemented with dried distillers grains with solubles under thermal neutral and prolonged cold conditions. Animal Feed Science and Technology 193 (2014) 9–20.
8. Csapo, J et al. 1996. Protein, Fats, Vitamin and Mineral Concentrations in Porcine Colostrum and Milk from Parturition to 60 Days. Int, Dairy Journal 6: 881-902.
9. Dong, R. L. Zhao, G. Y. Chai, L and K. A. Beauchemin. 2014. Prediction of urinary and fecal nitrogen excretion by beef cattle. J ANIM SCI 92:4669-4681.
10. Erickson, Galen E.; Auvermann, B.; Eigenberg, R. A.; Greene, L. W.; Klopfenstein, Terry J.; and Koelsch, Richard K. 2003. Proposed Beef Cattle Manure Excretion and Characteristics Standard for ASAE. Conference Presentations and White Papers: Biological Systems Engineering. Paper 2. <http://digitalcommons.unl.edu/biosysengpres/2>
11. Erickson, G. and T. Milton. 2001. Using Dietary Strategies to Reduce the Nutrient Excretion of Feedlot Cattle (Lesson 13). Published in the Livestock and Poultry Environmental Stewardship Curriculum. MWPS.
12. Fernandez, J.A. et al. 1999. Nitrogen and Phosphorus Consumption, Utilization and Losses in Pig Production : Denmark. Livestock Production Science 58 (1999) 225-242.
13. Field J. 1991. Feeding and Managing Replacement Heifers. Factsheet, Agdex#: 420/01; Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA). Available at: <http://www.omafra.gov.on.ca/english/livestock/beef/facts/91-067.htm>; accessed on 14 January 2015.

14. Flaten, D. 2003. The Risk of Phosphorus Transfer to Water from Manure Application onto Agricultural Land. Presentation to the 46th annual MSSS Meeting, 2003.
15. Gibson, C. P, G. W. Horn. and C. R. Krehbiel. 2002. Soil Phosphorus Removal by Stocker Cattle Grazing Winter Wheat. Animal Science Research Report Agricultural Experiment Station, Oklahoma-State University.
16. Hall, J. B. 1997. Feeding replacement heifers (Lesson 3). University of Minnesota Extension Service. Available at:
<http://www.extension.umn.edu/agriculture/beef/components/homestudy/nlesson3.pdf>; accessed on 14 January 2015.
17. Hall J. 2001. The Cow-Calf Manager. http://www.sites.ext.vt.edu/newsletter-archive/livestock/aps-01_11/aps-0423.html; accessed on 14 January 2015.
18. Hidiroglou, M. and Proulx, J.G. 1982. Factors Affecting the Calcium, Magnesium and Phosphorus Content of Beef Cow Milk. *Can. J. comp. Med.* 46: 212-214.
19. Kopp, J. C., Wittenberg, K. M. and McCaughey, W. P. 2004. Management strategies to improve cow-calf productivity on meadow brome-grass pastures. *Can. J. Anim. Sci.* 84: 529–535.
20. Lynch, P.B. and Caffrey P.J. 1997. Phosphorus Requirements for Animal Production. Pp. 283-296 In H. Tunney, O.T. Carton, P.C. Brookes and A.E. Johnston, eds. *Phosphorus Loss from Soil to Water*. CAB International. Wallingford, UK.
21. Manitoba Agriculture. Feeding Replacement Beef Heifers. <http://www.gov.mb.ca/agriculture/livestock/production/beef/feeding-replacement-beef-heifers.html>
22. Manitoba Agriculture. 2013. Guidelines for Estimating Swine Farrow to Finish Costs Based on 500 Sows and 11920 Pigs Sold. http://www.gov.mb.ca/agriculture/business-and-economics/financial-management/pubs/cop_swine_farrowfinish.pdf
23. Manitoba Agriculture. 2009. Manure Management Facts: Managing Manure within Tillage Systems and Crop Rotations. http://www.gov.mb.ca/agriculture/environment/nutrient-management/pubs/mmf_manureillage_factsheet.pdf
24. National Research Council, 2001. *Nutrient Requirements of Dairy Cattle: Seventh Revised Edition*. Washington, DC: The National Academies Press.
25. National Research Council. 2012 *Nutrient Requirements of Swine: Eleventh Revised Edition*. Washington, DC: The National Academies Press.
26. Noblet, J. and M. Etienne. 1989. Estimation of Sow Milk Nutrient Output. *J. Anim. Sci.* 67:3352-3359.
27. Plazier, J.C., Gezaw, G., Ominski, K. H. and Flaten, D. 2012. Reducing Whole-Farm Surpluses of Phosphorus and Potassium in Intensive Livestock Operations: A Case Study of Dairy Farms in

Manitoba. Final Report to the Manitoba Livestock Manure Management Initiative.
http://www.manure.mb.ca/projects/pdfs/2009_08%20Plazier_Dairy%20Whole%20Farm%20Project_final%20report.pdf

28. Riekman, M., Loro, P. and Harte, R. 2009. Managing Feed and Crop Rotations to Reduce Land Base Requirements for Manure. Manitoba Swine Seminar 2009 Vol. 23.
29. Shields, R.G. et al. 1983. Changes in Swine Body Composition from Birth to 145 kg. J. Anim. Sci. 57: 43-54.
30. Sprott L.R. and Troxel, T.R. 2008. Management of replacement heifers for high reproduction and calving rate. Available at:
<http://gpvec.unl.edu/files/westernu/Randle/TAMU%20Replacement%20Heifers.pdf>; accessed on 14 January 2015.
31. Tamminga, S. 2006. Environmental Impacts of Beef Cattle. John Airy Symposium: Visions for Agriculture and the Environment. January 2006.
32. Underwood, L. 2013. Manitoba Swine Nutrition Survey Final Report. Final Report to the Manitoba Livestock Manure Management Initiative.
33. United States Department of Agriculture, 2008. Part 651 Agricultural Waste Management Field Handbook (AWMFH), Chapter 4 Agricultural Waste Characteristics.
34. Wagner, J.R., Schinckel, A.P., Chen, W., Forrest, J.C. and Coe, B.L. 1999. Analysis of Body Composition Changes of Swine During Growth and Development. J. Anim. Sci. 77:1442-1466.
35. Wilson, C., Undi, M., Tenuta, M., Wittenberg, K. M., Flaten, D., Krause, D. O., Entz, M. H., Holley, R. and Ominski, K. H. 2010. Pasture productivity, cattle productivity and metabolic status following fertilization of a grassland with liquid hog manure: A three-year study. Can. J. Anim. Sci. 90: 233-243.
36. Yitbarek, A.B. 2010. Evaluation of an Extant Model for the Excretion of Phosphorus and Nitrogen from Swine Fed Diets with and without Phytase. University of Manitoba Master of Science Thesis.
37. Zollinger, W. A. and J. B. Carr. 2002. How to select, grow and manage replacement heifers. Pages 745. 1-745.5 in J.R. Adams, ed. Cow-calf management guide, cattle producer's library. 2nd ed. University of Idaho Extension, Moscow, ID.