

# DISCUSSION PAPERS IN ECONOMICS

Working Paper No. 11-06

!"#\$%&'\$()\*#" +, +%&&-" .)

*Abstract*

pp 781-82 in B. G. H.

pp 150 p. W. W.

pp 111-112

pp 111-112 Fy

pp 111-112

pp 111-112

pp 111-112

pp 111-112



~~Whitney~~

(2002; 2006) ~~1166~~ 670 6846 n

*Petit Nord, ta*

~~1166~~ 670 6846 n

*Grand Nord*

~~initially~~

20 p



Belmont, H. H.

CH 1782. 1b

CH 1782

CH 1782

CH 1782

CH 1782

CH 1781-82

CH 1782

CH 1782

CH 1782

CH 1782

CH 1782

CH 1782

CH 1782: k. N 1782, 1782 b

CH 1782

HBC, *Post Journals: York Factory*. F 1782

CH 1782

CH 1782

CH 1782

CH 1782

CH 1782

CH 1782

CH 1782

CH 1782





CH<sub>2</sub>(d).

~~CH<sub>2</sub>(d)~~

~~CH<sub>2</sub>(d)~~

~~CH<sub>2</sub>(d)~~

~~CH<sub>2</sub>(d)~~

~~CH<sub>2</sub>(d)~~

1999 (F). Ph

1999 (F) 8,600. f

14,300 1999 (F) H

1999 (F) H

1999 (F) p

1999 (F) H

1999 (F) 2h (F)

1999 (F) ... H (F) C

1999 (F) 4h (F)

1999 (F) H

1999 (F) H

1999 (F) 4h (F)

1999 (F) H

1999 (F) H

1999 (F)

1999 (F) H

1999 (F) H

1999 (F) H

1999 (F) H

1999 (F) H

1999 (F) 25 to 50 H

1999 (F) H

1999 (F) 50. A

1999 (F) 20 p

*Mortality from Smallpox: A brief review of the evidence*

1998, p. 10

1998, p. 10

22

1998, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

*Smallpox and its Eradication*, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

1961-69, p. 10

1998, p. 10

1998, p. 10

23

1998, p. 10

1998, p. 10

1998, p. 10

1998, p. 10

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1878: 1309).

1991: 166)

1991: 166)

Fr(2001: 26) p. 166)

1991: 166)

1991: 166)

1976: 291-92; Fr(1988: 166).

26

1991: 166)

1991: 166)

1991: 166)

1991: 166)

1991: 166)

1991: 166)

1991: 166) As Fr(2001)

1991: 166)

1991: 166)

1991: 166)

1991: 166)

1991: 166)

1991: 166) Fr(1988: 22, 50).

1991: 166)

1991: 166)

1991: 166)

1991: 166)

1991: 166)

1988

1989

1990

1991

1992

1993

1994

1995

1996

1997

1998

1999

2000

2001

2002

2003

2004 (Feb 1988: 200). 2005

2006

2007

2008

2009

2010

2011

2012

~~1106~~ ~~Ally~~



~~CH<sub>3</sub>COOH~~

~~CH<sub>3</sub>CHO~~

~~CH<sub>3</sub>CO~~

~~CH<sub>3</sub>COOH~~ Ag

~~CH<sub>3</sub>COOH~~ Be

~~CH<sub>3</sub>COOH~~ Fe

~~CH<sub>3</sub>COOH~~ HCl

~~CH<sub>3</sub>COOH~~ Ag, h

Ch

Diploid genome

115 chromosomes, 1783 Mb <sup>31</sup>

115 chromosomes, 150 Mb

ph

115 chromosomes

mb, 115

115 chromosomes

115 chromosomes

178], ~~and~~ ~~W~~ ~~br~~ ~~an~~

~~the~~ ~~5~~ ~~of~~ ~~2,348~~ ~~to~~ ~~2,007~~ ~~to~~ ~~the~~

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~50~~

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~788~~, ~~to~~ ~~3,856~~

*mb id*

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~20~~ ~~p~~

*more* ~~the~~ ~~city~~ ~~of~~ ~~78~~.

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~the~~

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~the~~

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~the~~

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~the~~

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~the~~

~~of~~ ~~the~~ ~~city~~ ~~of~~ ~~the~~



in

*Carrying Capacity and the Native Population*

1781-1782, p. 10

1750-1800, p. 10

1781-1782, p. 10

1781-1782, p. 10

1781-1782, p. 10

1781-1782, p. 10

1776, p. 10

1800-1808, p. 105

1850, p. 10

1897: 522-23, p. 10

1850, p. 10

1850, p. 10

1850, p. 10

1869: 303, p. 10

1850, p. 10

1850, p. 10

1808, p. 10

67,650 to 9,350, p. 10

1850, p. 10

1850, p. 10

1850, p. 10

1850, p. 10

District, 1,500 to 5,000 sq ft

Industrial

four (1.8 to 1.98: 14). 100

Industrial

Industrial

Industrial

Industrial

Industrial

Industrial

Industrial

1800 g

1990-1995

0.21

2

1998). 0.05

0.79

By C

0.30

2 38

0.5

2 39

(1981: 609) For

10,000

1000

40

22,000 to 50,000

41

40,000

1000

36.5

42

4,600

10,000 to 18,000

1000

By

0.5

2

10,000

(to 2,000)

2

1000

50 km<sup>2</sup>





of the world

in the world

of the world

of the world

of the world

of the world

*Interpreting the Epidemic*

H786. H...G

1962: 236). H...H

H781. C...6

H...

D...

H...

H...H...H...0 65

H...p A...

H...5 20 p H

H...H...

H...H...

H...H...

H781-82 H...H H

H...20 65 p A...H

H...H...

H...H...H...

H...H...

H...H...

H...H...H...

H...H...H...

H...H...20 p...

H...H...H...H...

H...H...H...H...

H...H...H...H...

1782, 1783

1784, 1785

1786, 1787

1788, 1789

1790, 1791

1792, 1793

1794, 1795

1796, 1797

1780-1821, 1782-1821

1782 (1774, 99-110). 1782

1783, 1784

1785

1786, 1787

1788, 1789

1790, 1791

1111111111

1111111111

1111111111

106, 183; C 2010: 113). 111111

1111111111

1111111111

**R**

BhMfAChAn

Figure 1

*Post Journals: Cumberland House, 1774-1777, 1782-89, M20 B49/a-4 d4-20.*

*Post Journals: York Factory, 1782, M20 B239/a80.*

~~BA., B.D.B. d. B.D.B.~~

~~F~~ *Ecology* 52 (1971): 147-52.

~~K.D.S. d. N.H.~~

*American Ethnologist* 5 (1978): 710-32.

~~M.T.H. B. d. M.H.W.~~

*Infectious Diseases* 122 (1970): 478-88.

~~M.G. d. W.M.~~

*Field Notes* (2006).

<http://www.usgs.gov> (12/09/2010).

~~M.C. d. C.H. d. A.H.~~

CA.A.D.1500." *American Antiquity* 75 (2010): 707-26.

~~M.V. d. A.H. d. E.H.~~

*Canadian Journal of Zoology* 76 (1998): 1922-31.

~~N.D. d. W.P. d. B.H.~~

*Historical Atlas of Canada, M, RCH d. B. d. H.*

1987.

~~L.C.S. R.C.B., E.V. d. L.H.~~

*Disease and Demography in*

*the Americas, H. d. B. d. H.* 25-39. *H.*

1992.

~~O.W. d. D.H. d. H.H.~~

*Disease and Demography in the Americas*, *H. d. B.*

- 75-86. 1992.
- RG.R *Biology of the Kamiuriak Population of Barren Ground Caribou.* *Can J Zool* 50: 661-672.
- RAF. *Vectors of Death: The Archaeology of European Contact.* *Am J Archaeol* 91: 1-1987.
- RAH *Indians in the Fur Trade: Their Role as Hunters, Trappers and Middlemen in the Lands Southwest of Hudson Bay, 1660-1870.* *Can J Archaeol* 20: 1-1974.
- RE.E., d *Cumberland House Journals and Inland Journals: 1775-82,* 2 *vol.* *Hudson's Bay Co. Rep.* 1952.
- RE.E. *Hudson's Bay Company 1670-1870,* 2 *vol.* *Hudson's Bay Co. Rep.* 1958. *Fieldiana* 6: 1-1960.
- RE.S. G. E. *Handbook of North American Indians,* 66, *Subarctic,* 130-45. *U.S. Gov. Print. Off.* 1981.
- RE.S. E. *Human Capital and Institutions: A Long-Run View,* *Demography* 46: 27-45. *NYUP* 2009.
- RE.S., RE.M. *The Backbone of History: Health and Nutrition in the Western Hemisphere,* *Am J Anthropol* 115: 61-93. *NYUP* 2002.
- RE.B., d *Journals of Samuel Hearne and Philip Turnor Between the Years 1774 and*



1792. FCH 934.

HEMMAIR

1991

*American Anthropologist, New Series* 93 (1991): 28-

45.

LDH. MAPS CPH

*Disease and Demography in the Americas, LDH.*

169-76. D.C.: 1992.

LDH. BCUN

*Handbook of North American*

*Indians, 13, Environment, Origins and Population, DHD 694-*

702. D.C.: 2006.

WE.A. ASB

*The Population History of England, 1541-1871: A*

*Reconstruction. NYCHP 1989.*

1. Frosch, A. (1964) *...*
2. Frosch, A. (1920-1930s) *...*
3. Frosch, A. (1980s) *...*
4. Frosch, A. (1992) *...*
5. Frosch, A. (1991: 42-45).
6. Ash (1992: 35) *...*
7. Frosch, A. (1973) *...*
8. D. (1992) *...*
9. Frosch, A. (1975) *...*

11. ~~Handwritten text~~
12. ~~Handwritten text~~
13. ~~Handwritten text~~ (1987: 147).
14. A ~~Handwritten text~~ 6
15. ~~Handwritten text~~ 78/2 (G952: 236). ~~Handwritten text~~
16. ~~Handwritten text~~ (1952: 223-56 & 262-91).
17. ~~Handwritten text~~ (1974: 105), ~~Handwritten text~~ (1981: 590), ~~Handwritten text~~

25. *Chlamydia pneumoniae*  
in the human eye  
Hajjeh MG, et al  
J Clin Microbiol (1988; 22, 38, 50).

26. *Chlamydia pneumoniae*  
in the human eye  
(Hajjeh MG, et al  
J Clin Microbiol 1988; 166). HIA, hC3, k100 (in  
Hajjeh MG, et al 1990: 1050) H  
Hajjeh MG, et al  
to HIA, hC3, k100  
to HIA, hC3, k100  
to HIA, hC3, k100  
Dr. J. F. A. M.

27. *Chlamydia pneumoniae*  
in the human eye  
of 07 of CDC, HIA, hC3, k100  
HIA, hC3, k100

28. 1808, *Chlamydia pneumoniae*  
1855,000 k100 4,000 k100 (1974: 95, 101 -  
1821).

2

29. *Chlamydia pneumoniae*  
in the human eye  
(mb) HIA, hC3, k100 A  
HIA, hC3, k100  
HIA, hC3, k100

mb HIA, hC3, k100

30. *Chlamydia pneumoniae*  
in the human eye  
HIA, hC3, k100  
HIA, hC3, k100  
HIA, hC3, k100  
HIA, hC3, k100

31. *Chlamydia pneumoniae*  
in the human eye  
HIA, hC3, k100  
HIA, hC3, k100  
HIA, hC3, k100

32. *Chlamydia pneumoniae*  
in the human eye

33. *Chlamydia pneumoniae*  
in the human eye  
(HIA, hC3, k100 1987).

34. *Chlamydia pneumoniae*  
in the human eye

es. 61.61.61.61  
61.61.61.61  
61.61.61.61

~~10. G. H. H. H.~~  
h(1991: 32).

45. R. 1974: III) ~~1974: III)~~  
~~geten~~

46. H. H. H. H.

Table 1. Number of Smallpox Deaths based on reports to Hudson House and Cumberland House

	Hudson House	Cumberland House	Total
<i>Reported number of deaths by</i>			
Company	25	63	88
Indians	9	6	15
<i>Reported deaths by Indians based on tents</i>			
Low estimate	167	177	344
High estimate	220	263	483
<i>Total reported deaths</i>			
Low estimate	201	246	447
High estimate	254	332	586
<i>Deaths based on gener90H Tf 76.94</i>			





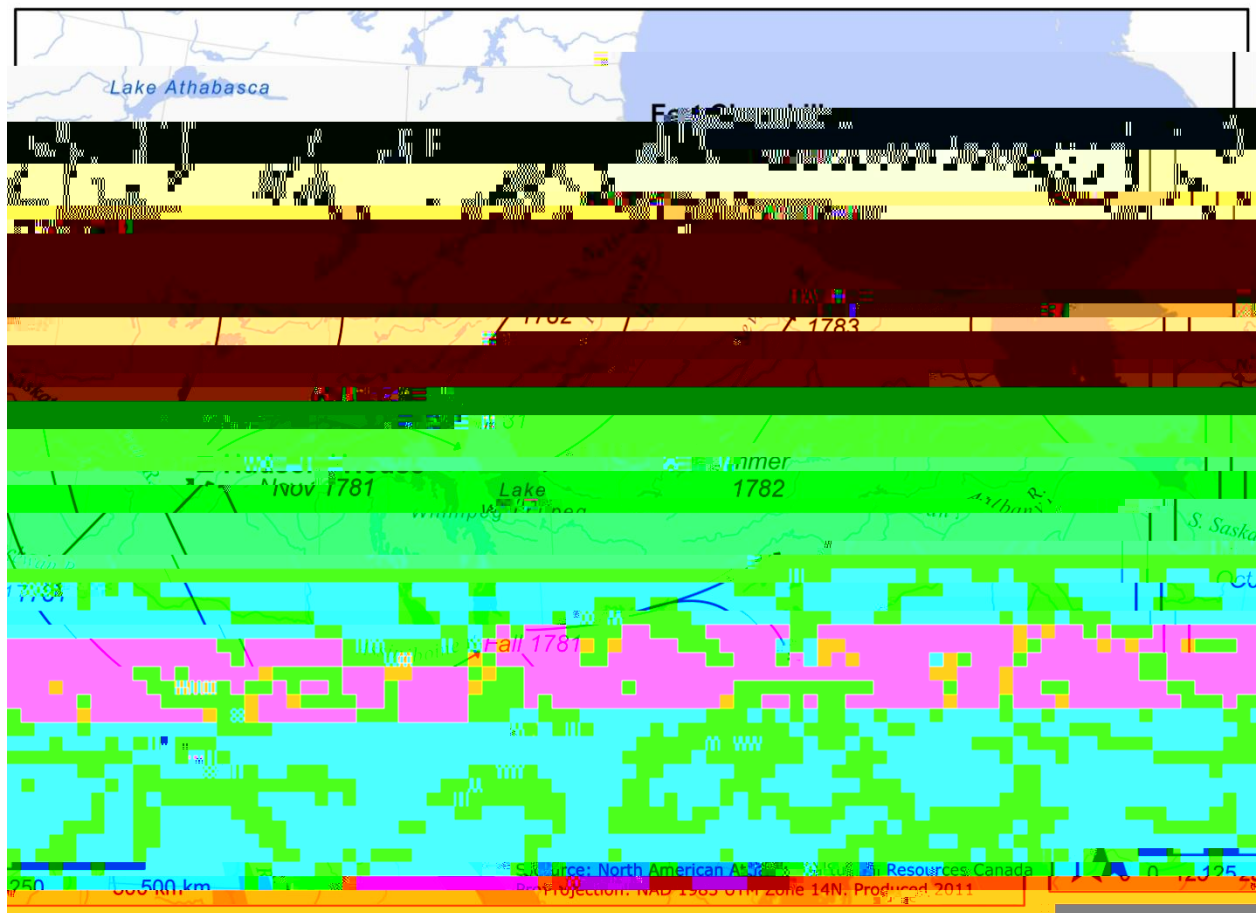
Table 3. Trade Goods Sent from York Factory to Cumberland House, 1781 and 1785

---

---

Trade Good	1781	1785	1781	1785
------------	------	------	------	------

Figure 1. Hudson House, Cumberland House and the Principal Paths of Diffusion of the Smallpox Epidemic, 1781-1782



Sources: Ray (1974:107); Hackett (2002:98).

Map: Hilary Dugan 2011.

Figure 2. The Value in *Made Beaver* of Trade Goods Sent from York Factory to Cumberland House, 1777 ±1789



*Note:* Includes trade goods sent to Hudson House.

*Source:* HBC, *Post Accounts: York Factory, 1777-89.*