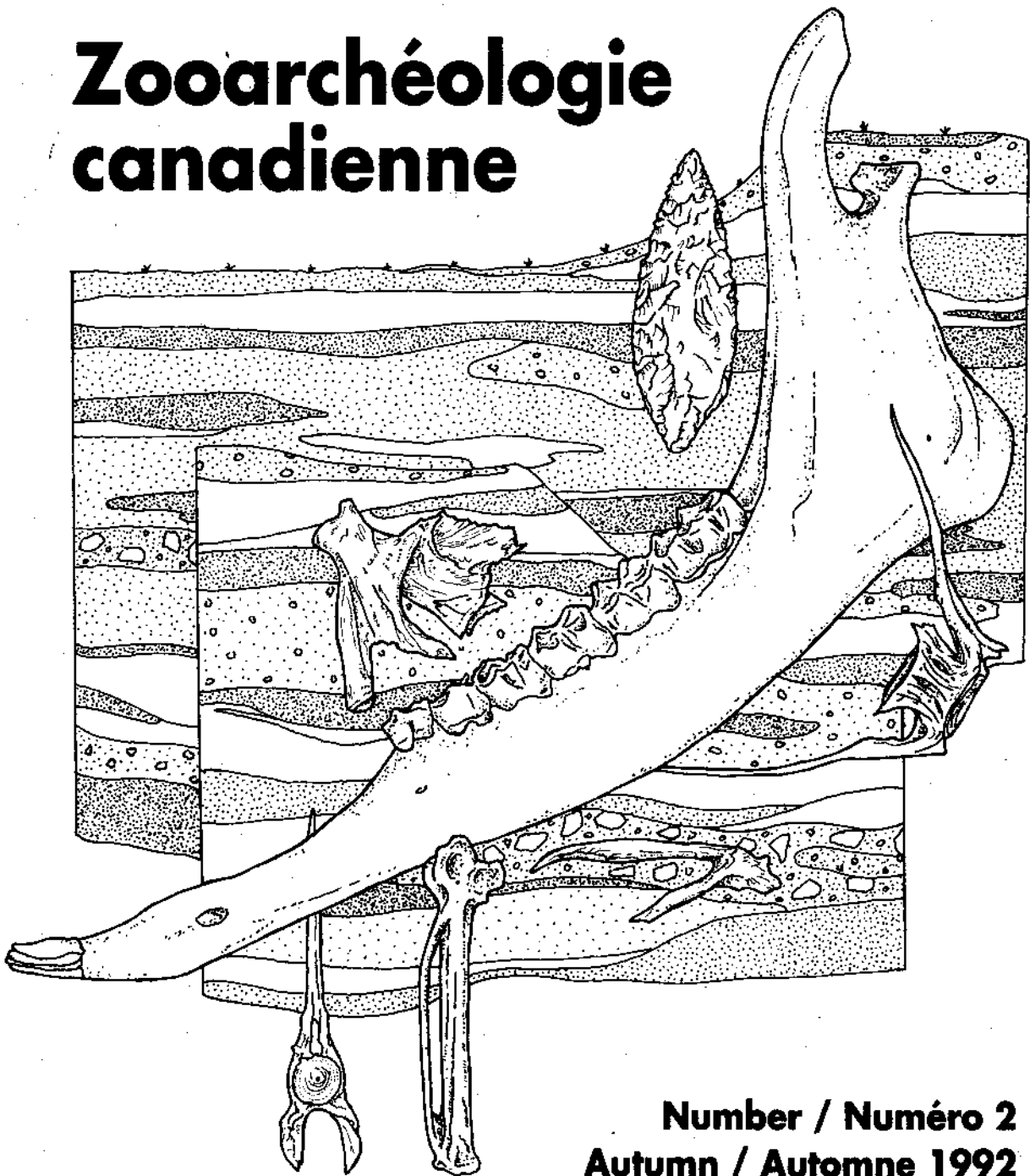


# Canadian Zooarchaeology

## Zoarchéologie canadienne



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 EDITOR'S NOTE/NOTE DE L'EDITEUR

When I first thought of collecting and listing titles of unpublished faunal reports in Canada, I had no idea of the number of reports in existence. When I started receiving dozens of titles I realised I couldn't possibly publish them all, so have only included those written in the last 5 years. Some regions have not been covered very well in this issue, particularly the Plains region, and I hope to correct this situation when these reports are updated in a future issue.

Because there is such a wealth of unpublished data out there, I would like to compile a database on all faunal reports in Canada, as an extension of this issue of CZ. Please send in a list of any reports which you may have written but which are not in the following listing. This database will be available to anyone interested.

Thanks to everyone who has sent in subscriptions for CZ. The interest shown confirms what many people have thought - that there are more than enough

zooarchaeologists in Canada to support a newsletter specifically for them. The next issue will look at the history of zooarchaeology in Canada. As always, I welcome suggestions, criticisms, advice on future issues! Have a good winter!

*Kathlyn Stewart, Editor*

*Canadian Zooarchaeology is published twice a year at the Canadian Museum of Nature. News, letters, articles, books or papers for review should be sent to:*

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**Cover drawn by Debbi Yee Cannon**

## **ORGANISATIONS WHICH CONDUCT ZOOARCHAEOLOGICAL ANALYSIS**

As part of the focus on unpublished zooarchaeological data, following are brief descriptions of four of the organisations which do zooarchaeological research in Canada by contract.

**Bison Historical Services Ltd.**  
#3, 227-14 Street NW,  
Calgary, Alberta, T2N 1Z6

Bison Historical Services was established in 1986 to provide cost-effective archaeological consulting to government and private industry. It provides a variety of archaeological services, and at present it employs 3 full time faunal analysts - Wendy Unfreed, Thayer Smith and Beth Mann. Their most recent large projects are the analysis of large quantities of faunal material-primarily bison- from the Oldman River Dam project and the DkPi-2 project (near Fort MacLeod).

**Ostéothèque de Montréal inc.**  
Laboratoire d'archéologie,  
Université du Québec à Montréal  
CP 8888, Succ.A  
Montréal, Québec H3C 3P8

Le Centre a été créé en janvier 1982 grâce à l'appui conjoint du Ministère d'Etat au Développement culturel et scientifique du Québec, du Centre d'études et de Recherches nordiques de l'Université McGill, du Ministère du Loisir, de la Chasse et de la Pêche et de l'Hydro-Québec. L'Ostéothèque regroupe une collection de squelettes représentant les Mammifères, Oiseaux, Reptiles, Amphibiens et Poissons du Québec.

L'Ostéothèque procède au catalogage des ossements, à l'identification anatomique et zoologique, à la quantification, à l'analyse et à la rédaction de rapports.

The Ostéothèque was created in January 1982 through the combined efforts of the Ministère d'Etat au Développement culturel et scientifique, the Centre for Northern Studies and Research of McGill University, the Ministère du Loisir, de la Chasse et de la Pêche du Québec and Hydro-Québec. The Ostéothèque houses a collection of skeletons representing mammals, birds, reptiles, amphibians and fishes of Québec. Ostéothèque undertakes the cataloguing, zoological and anatomical identification, quantification, interpretation and preparation of reports.

**Pacific Identifications**  
4053 Nelthorpe Street,  
Victoria, BC, V8X 2A2

Pacific ID was set up in 1987 as a formal business partnership between Susan Crockford and Rebecca Wigen. Pacific ID offers identifications which include otoliths, scales, cranial and post cranial elements from marine and freshwater fish, land and sea mammals, birds and shellfish from western North America. Pacific ID uses the comparative reference collections at the University of Victoria and occasionally the Royal BC Museum, which cover an exceptionally broad range of species. Analysis of taxa from local sites provides the bulk of revenue, but biological samples provide an increasing proportion of business, particularly analysis of fish bone from fecal remains and stomach contents of marine mammals and predatory fishes.

### Zooarchaeological Analysis Programme (ZAP)

Canadian Museum of Nature,  
P O Box 3443, Station D,  
Ottawa, Ontario, K1P 6P4

The Zooarchaeological Analysis Programme (ZAP) was established in 1972 by Anne Rick at the Canadian Museum of Nature. Formerly named ZIC, it has served archaeologists and biologists for 20 years. ZAP's scope includes studies of all vertebrate classes and some invertebrates from prehistoric and historic sites throughout all regions of Canada and the US. Prey studies and other biological projects are also conducted. ZAP's in-house osteological collection is one of the largest in North America. Anne Rick currently runs the Programme with CMN and contract assistance.

### UNPUBLISHED FAUNAL REPORTS

The following listings are based completely on submissions received from zooarchaeologists. Listings are from 1987 to present, by province of site and author. Reports written for contract organisations or as part of university coursework are identified as such (see below). Limited space means only reports on Canadian sites are included.

If you would like further information on any report listed, contact the author (most are listed with address in the Spring 1992 CZ issue), or the contract organisation, or Dr. Savage for U. of Toronto Faunal Archaeo-Osteology course reports, or contact CZ. Costs for xeroxing reports should be arranged for by the requester.

B=Bison Historical Services Ltd

O=Ostéothèque

P=Pacific Identifications

S=Produced for U.of Toronto's Faunal Archaeo-osteology course under Dr.H.G.Savage

Z=ZAP

### ALBERTA

Head, T.H. 1988. Faunal Analysis, EhPm-34: Balzac Site.(B)  
-primarily bison; Late Prehistoric.

Head, T.H. 1992. Final Report, Historical Resources Impact Mitigation: EeOv-67 and 68, Cessford Section North Lateral Loop no.2.(B)  
-bison; Middle Prehistoric occupations.

Head, T.H. and T. Head. 1991. Final Report, Historical Resources Impact Mitigation, S.R.597: The George Larkin Site (FbPh-9) and the Carl Peterson Site (FbPg-14).(B)  
-mainly bison; Late/Middle Prehistoric

Mann, E.H. 1991. Cultural Formation Processes at Fort Dunvegan, Northwest Alberta: A Zooarchaeological and Historic Documentary Approach.  
-Boreal Forest mammals, birds, fish.

Van Dyke, S. 1992. Final report, The North Campsite Stratigraphic Correlation Project: Archaeological Studies in 1991 at the Welsch Locality of DjPm-36.(B)  
-bison; between 8300 and 7670 BP.

Van Dyke, S. and T.H. Head. 1987. Final Report, Historical Resources Impact Assessment: Milk River Dam and Reservoir.(B)

- primarily bison; various dates between 11,180 and 200 BP.
- Van Dyke, S. and W.Unfreed.1992. 1990 Oldman River Dam Prehistoric Archaeology Mitigation Project: Campsites Programme. (B)  
-bison; dates between 8000 and 1600 BP
- Van Dyke,S., Hanna,S., Unfreed,W.,and B.Neal. 1989. 1989 Oldman River Dam Prehistoric Archaeology Mitigation Program:Campsites Component.(B)  
-mainly bison, canid; various dates from 9600 to 225 BP
- Unfreed,W.1992. Final Report, Historical Resources Impact Assessment and Mitigation:the 1992 Field Investigation of Site DkPi-2, Junction Hwy2/3, West of Fort MacLeod.(B)  
-primarily bison, some canid; dates about 910 to 380 BP
- BRITISH COLUMBIA**
- Baxter, C. 1987. Fauna. Canal Site, DeRt-2, B.C.(S)
- Bianco, A. 1987. Fauna. Canal Site, DeRt-2, B.C.(S)
- Cannon, D. 1989. Fauna. Pender Island Site, DeRt-2, B.C.(S)
- Crockford, S.J. 1990. Faunal Analysis, Vertebrates and Invertebrates. In Archaeological Investigations at DgS1-61, Chesterman Beach, West Coast Vancouver Island. (P)
- Crockford, S.J. 1991. Preliminary Subsistence Analysis: Vertebrates. In 1989 and 1990 Crescent Beach Excavations, H.Pratt, R.G.Matson and L.Rankin eds.(P)
- Crockford,S.J.1992. Shellfish seasonality analysis report. Appendix to Archaeological Investigations at Tsawwassen, B.C.,Arcas Consulting Archeologists.(P)
- Hanson, D.K.1986. Faunal material from the Pender Canal excavations of 1984 and 1985. In the 1985 Excavations at the Canal Site (DeRt 1 and DeRt 2), R.L. Carlson, ed.
- Hanson, D.K.1987. Faunal material from the Pender Canal excavations. In Studies of Faunal remains from the Pender Canal Excavations,DeRt 1 and DeRt 2:A Report to the Heritage Conservation Branch Parliament Buildings, Victoria,BC,R.L.Carlson,ed.
- Hanson, D.K. 1991. Fauna from Excavation Unit 2, DfSj-100, Ucluelet, British Columbia.
- Kusmer, K.D.1988. Faunal Remains from Site EeQw-30. In Archaeological Excavations at the Sahlhalkum Bridge Site (EeQw-30), Chase, B.C.
- Kusmer, K.D. 1989. Analysis of faunal remains from Stskiitl and Nusqualst, Bella Coola, British Columbia.
- Kusmer, K.D.1989. Faunal remains from Site DgRs 2, Tsawwassen,B.C. In Detailed Impact Assessment, Site DgRs 2, Tsawwassen, B.C.

Kusmer, K.D. 1989. Faunal remains from Sites EfQv 121 and EfQv 123, Squilax, B.C. *In* Archaeological excavations at Sites EfQv 121, EfQv 123, and EfQv 133 near Squilax, B.C.

Kusmer, K.D. 1991. Report of analysis of faunal remains from Site DgRs-2 Tsawwassen, B.C.

Kusmer, K.D. 1992. Faunal analysis: The Keatley Creek Site, Lillooet, B.C.

Lepofsky, D., Lawhead, S., Stryd, A., and K.D.Kusmer. 1987. Archaeological investigations of Site EeRI-12, Lillooet, B.C.

McKee, D. 1987. Fauna. Canal Site, DeRt-2, B.C. (S)

Rasheva, I. 1987. Fauna. Canal Site, DeRt-2, B.C. (S)

Stryd, A.H. and K.D. Kusmer. 1989. Archaeological excavations and construction monitoring (1988), DhRs 1, Marpole, Vancouver, B.C.

#### NEW BRUNSWICK

Black, D.W. 1987. Faunal analysis of two sites from the Trent Valley: BeGr1 and BeGq2.  
-prehistoric; mixed fauna

Black, D.W. 1987. Zoological Identification of shell pendant fragments from the Augustine Mound (DfD12), N.B.

Black, D.W. 1988. More calcined fish bones from the Mud Lake Stream Site.

Gruspier, K. 1987. Fauna. Camp Site, BgDq-4. (S)

Stewart, F.L. 1992. Analysis of the faunal remains from an Acadian hearth on the Enclosure Site, Newcastle, N.B.

#### NEWFOUNDLAND AND LABRADOR

Murray, Maribeth. 1991. Faunal analysis of the Ferryland site: An Historic site in Newfoundland.

#### NORTHWEST TERRITORIES

Dawson, P. 1989. Fauna. Gupuk Site, NiTs-1. (S)

Diab, M. 1989. Fauna. Nelson River site, OhRh-3. (S)

Field, B. 1988. Fauna. Nelson River site, OhRh-3. (S)

O'Sullivan, A. 1987. Fauna. Nadlak Site, MbNs-1. (S)

Saxberg, N. 1989. Fauna. Gupuk site, NiTs-1. (S)

Still, L. 1987. Where the caribou cross the river: A faunal examination of a late prehistoric Copper Inuit summer hunting camp. (Z)

Still, L. 1989. The basket case: Deciphering subsistence patterns in the SW Anderson River Plain Region, NWT, in the late prehistoric. (Z)

Walters, N. 1989. Fauna. Nelson River site, OhRh-3. (S)

Whitridge, P. 1989. Fauna. Gupuk site, NiTs-1.(S)

## NOVA SCOTIA

Black, D.W. 1990. Report on faunal remains from Acadian Sites at Castle Frederick, Nova Scotia.

-historic; almost all mammal

Henderson, H.M. 1992. Analysis of Faunal Remains from the 1989-1991 Excavations at Fort Anne, Nova Scotia. -mid 17th century AD European; mixed wild and domestic species

Prevec, R. 1991. The Libby Site AdHo-20 Faunal Report.

-Late prehistoric Wolf Phase, mid 16th century.

Stewart, F.L. 1987. Analysis of the faunal remains from the Woodland Melanson Site in Nova Scotia.

## ONTARIO

de Almeida, C. 1992. Fauna. Pond Lily site, BcGe-13, Frontenac County. (S)

Berg, D. 1987. The Zimmerman site (AiGx-147) 1987 Excavation:Faunal Report.

Berg, D. 1988. The analysis of faunal material from flotation samples from 15 London (Ontario) region sites.

Berg, D. 1988. The Pretty River site (BcHb-22): Faunal analysis of 1987 surface collection material.

Berg, D. 1989. The analysis of faunal

material from heavy fraction flotation samples from the Wallace site (AkGx-1).

Bissell, C. 1989. Fauna. Roebuck Site, BeFv-4, Leeds and Grenville County.(S)

Black, D.W. 1989. An analysis of faunal remains from the 1980 excavations at the Bethune-Thompson House, Williamstown, Ontario. -historic; mixed fauna

Black, D.W. 1989. An examination of alleged faunal remains from the Thistle Hill site, Mount Hope Ontario.

Black, D.W. 1990. Report on faunal remains from the Alderson Site, Carlisle, Ontario. -historic; mixed fauna

Black, D.W. 1990. Report on faunal remains from the Ashbaugh Site, Hamilton, Ontario. -historic; mammals and birds

Black, D.W. 1990. Report on faunal remains from the Binkley Farm Site, Hamilton, Ontario. -historic; mammals and birds

Black, D.W. 1990. Report on faunal remains from the Carlisle Site, an Iroquoian village in Carlisle, Ontario. - prehistoric; mixed fauna

Black, D.W. 1990. Report on faunal remains from the Victoria Inn Site, Hamilton, Ontario.

Brearley, W. 1992. Fauna. Auger Site, BdGw-3, Simcoe County.(S)

- Campbell, I. 1988. Fauna. MacPherson Site, AhHa-21, Hamilton-Wentworth R.M.(S)
- Carscallen, C. 1988. Fauna. Wade Site, AhGx-19 Hamilton-Wentworth R.M.(S)
- Casey, J. 1987. Fauna. Winking Bull, AiHa-20, Hamilton-Wentworth.(S)
- Choi, J. 1990. Fauna. Seed-Barker site, AkGv-1, York R.M. (S)
- Conolly, J. 1989. Fauna. Seed-Barker Site, AkGv-1, York R.M.(S)
- Crane, G. 1990. Fauna. Carson Site, BbGw-9, Simcoe County.(S)
- Crump, E. 1989. Fauna. Mohawk Village Site, AgHb-2, Brant county.(S)
- Dale, J. 1988. Fauna. MacPherson site, AhHa-21, Hamilton-Wentworth R.M.(S)
- Davis, A. 1990. Fauna. Sifton Site, AfHh-85, Middlesex County.(S)
- Dieterman, F. 1987. Fauna. Auger Site, BdGw-3, Simcoe County.(S)
- Dompierre, H. 1990. Fauna. Carson Site, BbGw-9, Simcoe County.(S)
- Elliott, V., Cossette, E., Agin, G., Godin, L., Hudon, C-H., et C. Saint-Germain. 1989. Faunal Analysis of the McKeown Site, BeFv-1.(O)
- Fairgrieve, S. 1988. Fauna. Bennett Site, AiGx-1, Halton R.M.(S)
- Frame, S. 1987. Fauna. Crawford Lake, AiGx-6, Halton R.M.(S)
- Fry, J. 1987. Fauna. Cleary Site, BfFv-4, Grenville County.(S)
- Garden, M-C. 1988. Fauna. Cleary Site, BfFv-4, Grenville County. (S)
- Godin, L. et C. Saint-Germain. 1989. Identification d'ossements provenant de récoltes de surface en Ontario.(O)
- Haines, H. 1990. Fauna. Scout Site, AiGx-156, Halton R.M.(S)
- Hamers, J. 1987. Fauna. Crawford Lake, AiGx-6, Halton R.M.(S)
- Hawkins, A. 1991. Jubilee Point site, BaGn-3, Peterborough County. (S)
- Henderson, H.M. 1989. Report on the Faunal Remains of the Rideaucrest Development Project, Kingston, Ontario. In Rideaucrest Development Property Mitigation. S.Bazely, ed. -home of Molly Brant; historic; mixed domestic fauna and fish
- Henderson, H.M. 1992. Analysis of the Faunal remains: Dundurn Castle 1991 Excavations. Appendix in Archaeological Excavations at Dundurn Castle, by J. Triggs. -mixed deposits; historic - 19th century
- Henderson, H.M. 1992. The Faunal Assemblage. In The Strickler Site: Analysis of a Nineteenth to Twentieth Century Urban Farmstead in Markham, Ontario, by H.M.Henderson. -20th century AD middens



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- Hobberlin, C. 1990. Fauna. Lawson site, AgHh-1, Middlesex county. (S)
- James, D. 1991. Moose Factory site, EhHd-1, Cochrane district. (S)
- Kim, H. 1987. Fauna. Auger Site, BdGw-3, Simcoe County. (S)
- King, S. 1990. Fauna. Myers Road, AiHb-13, Waterloo R.M. (S)
- Kovacs, J. 1988. Fauna. Thompson-Walker Site, BeGv-1, Simcoe County. (S)
- Leavens, M. 1988. Fauna. MacPherson site, AhHa-21, Hamilton-Wentworth R.M. (S)
- Leventhal, A. 1989. Fauna. Carton Site, AjGx-3, Halton R.M. (S)
- Marti, C. 1988. Fauna. Bennett Site, AiGx-1, Halton R.M. (S)
- Mattila, H. 1987. Fauna. Winking Bull, AiHa-20, Hamilton-Wentworth R.M. (S)
- Microys, K. 1987. Fauna. Peden Site, BeGw-1, Simcoe County. (S)
- Misener, C. 1992. Fauna. Kingston Outer Station, BbGr-2, Frontenac County. (S)
- Mugnatto, A. 1987. Fauna. Washburn Island, Victoria county. (S)
- Murray, M. 1989. Faunal analysis of the Ball site, BdGv-3, Simcoe County. (S)
- Murray, M. 1990. Analysis of the faunal remains from the McLeod Site.
- Murray, M. 1990. Bone artifact analysis of the Carson site.
- Needs, S. 1990. Fauna. Myers Road Site, AiHb-13, Waterloo R.M. (S)
- Pegg, I. 1990. Fauna. Lawson site, AgHh-1, Middlesex county. (S)
- Primavesi, D. 1990. Fauna. Seed-Barker site, AkGv-1, York R.M. (S)
- Prevec, R. 1987. Brindle site faunal report. -Chippawa; Multicomponent, Archaic
- Prevec, R. 1987. Cripps site 1987 faunal report. -Bruce county; Algonkian, Odawa.
- Prevec, R. 1987. Dunks Bay Cemetery Backdirt 1987 faunal report. -Bruce county; Algonkian, Odawa, 1600's.
- Prevec, R. 1987. The Elliott site AfHc-2 1987 faunal report. -Haldimand-Norfolk; Glen Meyer, 1000-1200 A.D.
- Prevec, R. 1987. Three Pines site CgHa-6 faunal report. -District of Nipissing; Shield Archaic to 20th century. Predominantly mammals.
- Prevec, R. 1987. The Udora site BbGt-4 faunal report. -York county; Paleo-Indian, Gainey Complex.
- Prevec, R. 1988. Billy Biface site AdHa-10 faunal report. -Norfolk county; Middle Woodland.

- Prevec, R. 1988. Buddy Boers site AhHa-32 faunal report.**  
-R.M. Hamilton-Wentworth; Neutral, early 1500's.
- Prevec, R. 1988. Buddy Boers site AhHa-32 1988 surface collection faunal report.**  
-R.M. Hamilton-Wentworth; Neutral early 1500's.
- Prevec, R. 1988. Cripps site BhHj-17 1988 faunal report.**  
-Bruce county; Odawa, early 1600's.
- Prevec, R. 1988. Hunter site BdHh-5 1988 faunal report.**  
-Bruce county; Odawa, early 1600's.
- Prevec, R. 1988. Macklin site faunal report.**  
-Sarnia Township, Lambton county; Young Tradition/Young Phase.
- Prevec, R. 1988. MacPherson site AhHa-21 special features.**  
-R.M. Hamilton-Wentworth; Neutral 1550 A.D.
- Prevec, R. 1988. MacPherson site AhHa-21 1988 additional elements faunal report.**  
-R.M. Hamilton-Wentworth; Neutral, 1550 A.D.
- Prevec, R. 1988. Prevec site AdHa-11 faunal report.**  
-Norfolk county; Saugeen-Middle Woodland.
- Prevec, R. 1988. Robson Road site AaHp-20 faunal report.**  
-Essex county; Multicomponent, mainly Late Woodland.
- Prevec, R. 1988. Schoonertown site BcHa-18 1988 faunal report.**  
-Simcoe county; Saugeen, 2nd c. A.D.
- Prevec, R. 1988. Schoonertown BcHa-18 Habitation Area 1988 faunal report.**  
-Simcoe county; Saugeen and British Navy 1800's.
- Prevec, R. 1988. Sherman Site AdHl-16 Faunal Report.**  
-Kent County; Young Tradition /Springwell Phase 1250-1300.
- Prevec, R. 1988. Teal Slough Site AdHa-18 Faunal Report.**  
-Norfolk County; Early Late Woodland (900-1000 AD).
- Prevec, R. 1988. Turtle Point Site AdHa-12 Faunal Report.**  
-Norfolk County; Princess Point or Prehistoric Neutral.
- Prevec, R. 1988. Van Bommel Site AcHm-31 1988 Faunal Report.**  
-Kent County; Young Tradition.
- Prevec, R. 1988. Wooden Duck Site AdHa-17 Faunal Report.**  
-Norfolk county; Princess Point.
- Prevec, R. 1988. Zap Site AhHa-67 Faunal Report.**  
-Hamilton Wentworth RM; Neutral culture, early 1500's.
- Prevec, R. 1989. Bead Island ChHb-2 test pits faunal report.**  
-District of Nipissing; Late Woodland and 19th century.

- 
- Prevec, R. 1989. Boat Lake BeHh-6 1989 faunal report.  
-Bruce county; Multicomponent, probably Odawa.
- Prevec, R. 1989. The Cherry Lane AaHp-21 faunal report.  
-Essex county; Younger Tradition/Younger Phase 1000-1200 A.D.
- Prevec, R. 1989. Cowbird Point site ChHe-5 test pits faunal report.  
-District of Nipissing; 20th century.
- Prevec, R. 1989. Dunk's Bay 1989 faunal report.  
-Bruce county; Multicomponent, probably Late Prehistoric.
- Prevec, R. 1989. Ebenezer AkGv-73 test pits faunal report.  
-Vaughan county; Historic European.
- Prevec, R. 1989. Fletcher site AkGv-74 faunal report.  
-Vaughan; Historic European.
- Prevec, R. 1989. Fort Destruction ChHb-3 test pit faunal report.  
-District of Nipissing; culture unknown.
- Prevec, R. 1989. Fort Frontenac Cemetery site BbGc-8 faunal report.  
-Frontenac county; early 1700's Indian and possibly European.
- Prevec, R. 1989. Ghaul Portage ChHe-3 faunal report.  
-District of Nipissing; Late Woodland.
- Prevec, R. 1989. Kaboni Beach BkHj-1 faunal report.  
-Manitoulin; Historic Ottawa 1830-1890.
- Prevec, R. 1989. Katt Settlement ChHb-5 test pits faunal report.  
-District of Nipissing; early 20th century.
- Prevec, R. 1989. Kingfisher ChHe-1 test pits faunal report.  
-District of Nipissing; Late Woodland.
- Prevec, R. 1989. Libby-Miller faunal report.  
-Kent county; Late Prehistoric Wolf Phase 1500-1550 A.D.
- Prevec, R. 1989. The Lightfoot Foot AjGw-5 faunal report.  
-Missaussaga; Pickering, ca.1200 A.D.
- Prevec, R. 1989a. The Michael's Bay Townsite BjHm-2 1989a faunal report.  
-Manitoulin; Historic European, 19th c.
- Prevec, R. 1989b. The Michael's Bay Townsite BjHm-2 1989b faunal report.  
-Manitoulin; Historic European, 19th c.
- Prevec, R. 1989. Moodie Farmstead site BcGn-9 faunal report.  
-Peterborough county; Historic British, 1834-1890 A.D.
- Prevec, R. 1989. Orkney Crescent Ossuary faunal report.  
-London, Middlesex county; Aboriginal.
- Prevec, R. 1989. Prairie Point Site BlHj-3 faunal report.  
-Manitoulin; Multi-component Ottawa.
- Prevec, R. 1989. Providence Bay BkHn-3 1989 faunal report.  
-Manitoulin; Historic Ottawa, 1600's.

- 
- Prevec, R. 1989. Providence Bay BkHn-3 Stratum III faunal report.**  
-Manitoulin; Prehistoric Ottawa.
- Prevec, R. 1989. Shawana site BkHk-1 faunal report.**  
-Manitoulin; Ottawa 1550-1700 A.D.
- Prevec, R. 1989. Sinclair Cove Cile-4 faunal report.**  
-Northern Ontario; Ojibwa + Late Woodland.
- Prevec, R. 1989. South Coleraine AkGw-17 test pit faunal report.**  
-Vaughan county; Historic European.
- Prevec, R. 1989. Tormore General Store AlGw-31 test pits faunal report.**  
-Vaughan county; Historic European.
- Prevec, R. 1989. Upper Bluff Pond AdHa-7 faunal report.**  
-Norfolk county; Prehistoric Neutral, 1500 A.D.
- Prevec, R. 1990. The Adder Orchard site AgHk-16 faunal report.**  
-Middlesex county; Archaic ca. 4000 B.P.
- Prevec, R. 1990. The Belle Island BbGc-6 faunal report.**  
-Frontenac county; Middle and Late Woodland 300-900 A.D.
- Prevec, R. 1990. The Boresma site AfHi-121 faunal report.**  
-Middlesex county; Middle Woodland.
- Prevec, R. 1990. The Cooper site AgHb-18 1990 faunal report.**  
-Brant county; European/Prehistoric.
- Prevec, R. 1990. Elgin Gaol faunal report.**  
-Historic European.
- Prevec, R. 1990. Dundurn Castle AhGx-26 faunal report.**  
-R.M. Hamilton Wentworth; Historic.
- Prevec, R. 1990. The Middleport site AgHa-2 faunal report.**  
-Brant county; Middleport 1350 A.D.
- Prevec, R. 1990. The Pfungstgraef Burial site AdHa-9 faunal report.**  
-Norfolk county; Princess Point A.D.840.
- Prevec, R. 1991. The Alder Creek site AiHd-75 faunal report.**  
-Waterloo county; Princess Point culture
- Prevec, R. 1991. The Bradley Avenue site AfHb-160.**  
-Middlesex county; prehistoric Neutral.
- Prevec, R. 1991. The Day site AiHd-73 faunal report.**  
-Waterloo county; Late Middleport or prehistoric Neutral cultures.
- Prevec, R. 1991. The Elgin courthouse faunal report.**  
-Elgin county; historic period.
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-Western Thule

## BOOK REVIEW/CRITIQUE DE LIVRE

Balkwill, Darlene McCuaig and Stephen L. Cumbaa, A Guide to the Identification of Postcranial Bones of *Bos taurus* and *Bison bison*. Ottawa: Canadian Museum of Nature, Syllogus No. 71, 1992. 267 pp. Illustrations, appendices. Price: Cdn\$ 14.92 (incl.GST). Paper.

Reviewed by : **Jack Brink**,  
Archaeological Survey,  
Provincial Museum of Alberta.

Any archaeologist working on the North American Plains has at some time wished

**Brink continued**

that this manual existed - finally it does. Building on the previous works of Olsen and Lawrence, this is now the most complete manual available for distinguishing the bones of cattle from those of bison. More importantly, it is far superior to previous efforts in the degree of confidence a researcher can place in separating faunal material of these astoundingly similar species.

The manual consists of short written descriptions of nearly two hundred morphological characters which appear to be species-specific. Nearly all of these are illustrated, using arrows, lines, dots and so forth to highlight and contrast the individual characters on the relevant portions of the bones. It is a very clear method of presentation, and I found that I could easily follow, and see, virtually every distinction the authors attempted.

Even more useful, however, is a technique the authors use to evaluate the effectiveness of each character. In what should become standard procedure in similar reference manuals, every character description is accompanied by a table which details the success of, and the confidence we can place in, using a given trait to separate Bison and Bos. The table first reports on the number of specimens examined and the number which exhibited the described character; these in turn provide a percentage success rate for species separation. Second, counts of specimens which conformed to, disagreed with, or were intermediate to the description are provided. Finally, the table presents a preference factor rating, which expresses the statistical probability of a particular trait belonging to either Bison

or Bos. The latter I found confusing: being unfamiliar with maximum likelihood theory, the range of numeric values was meaningless to me, and the appendix explaining how these were derived was of no assistance in telling me what it means to have a score of 0.12 as opposed to one of 64.18. But the inclusion of tabulated data, which clearly delineates not only the successful application of the distinguishing criteria but also the problematical "gray area", represents a enormous step forward in the methods of faunal identification.

Excluding the skull, the manual proceeds through the axial then the appendicular skeleton. Bones are discussed both in groups and individually, and character traits are often described in terms of their assistance in separating some but not all members of a group. For example, a certain trait is said to be useful to distinguish the 3rd to 5th cervical vertebrae but not the 6th and 7th. A great contribution of this manual is the inclusion of bones often ignored in other guides - carpals, tarsals and phalanges. These durable and frequently discarded elements form the bulk of many archaeological assemblages, and as such have the potential to yield enormous information.

The great majority of the traits used to distinguish the two species represent variation in the physical form of the some aspect of the element. Occasionally, however, distinctions are based on size. To wit: in Bison the length of the neural spine of the thoracic vertebrae is greater, the distal ends of the ribs have a smaller circumference, and the scapula is longer and thinner than in Bos. These seem less useful criteria than variations in form, as

**Brink continued**

they beg the existence of a database of metric standards for the two species.

Measuring the circumference of a distal rib end recovered from an archaeological site would only assist in species assignment if we had some knowledge of expected values for Bison and Bos. The authors could have provided a greater service by providing means and ranges for these measurements as obtained from the reference specimens they utilized.

My greatest concern with this manual is in the rather erratic attention paid to such factors as sex, age and sub-specific differences in cattle and buffalo. In the very brief introductory text there is no mention of the potential confusion or misinterpretation which may arise as a result of sexual dimorphism or of age related variability. It is unclear if the manual is intended for use with all age groups or only adults. On a few occasions these concerns surface in the body of the work, such as when we are informed that a certain character for carpal 2+3 should not be used because it may be sex or size dependent, or that the depth of the neural spine for young Bison is very similar to Bos, and that female Bison differ slightly from adult Bos in this same character. Some background to these issues should have been presented in the introductory text.

Also, both Bison bison and B. athabasca, as well as several breeds of cattle, were employed in formulating the manual. Research indicates that there is variability in bone between the subspecies of bison (van Zyll de Jong 1986) and in different breeds of cattle (Jones et al. 1978). Furthermore, bison and cattle

differ in a number of anatomical ways that have an important bearing on the skeletal frame; for example, bison are considerably heavier in the muscles connecting the neck to the thoracic limb, and markedly lighter in the abdominal wall (Berg and Butterfield 1976:190-1). It is far too much to ask that any manual attempt to incorporate all variability associated with these factors, but some discussion of them would have assisted in defining the applicability and limits of the manual.

The true test of any manual is the application to a collection, and I have not attempted this. As a quick check, I compared the carpals and tarsals of bison and cattle from our reference collection. The results were impressive; most of the characteristics identified by the authors were readily apparent.

Although I have tried to suggest a few ways in which the manual could have been improved, this is not to detract from the tremendous contribution this work makes to faunal identification. Certainly the most apparent application will be to sites which straddle the threshold of the Historic Period, when cattle ranching and buffalo hunting co-existed for several decades. It would be a mistake, however, to dismiss the prehistoric relevance of this report - as will be attested by those who have excavated on the windswept prairies, cursing the drifting soil and the inevitable juxtaposition of artifacts from this century with those of centuries, or millennia, before.

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**FORTHCOMING CONFERENCES**

**Canadian Archaeological Association**  
April/May 1993  
Montréal, Québec

**25th Annual Chacmool Conference**  
November 12-15, 1992  
University of Calgary, Calgary, Alberta.  
Theme: The Archaeology of Contact:  
Processes and Consequences

**50th Plains Conference**  
November 11-14 1992  
Hilton Hotel, Lincoln Nebraska, USA

**REQUESTS, EXCHANGES, NOTICES/  
DEMANDES, ECHANGES, AVIS**

- David Black (Dept. of Anthropology,  
University of New Brunswick) is in the  
process of developing a database for  
faunal remains from archaeological sites  
in the Quoddy region. He would like to  
contact people who have previously  
developed faunal databases (computerised  
or otherwise) and who are willing to let

him look at the structures (field and  
record formats) and the types of data they  
have recorded.

-Relating to David Black's request, Sue  
Crockford (Pacific Identifications,  
Victoria) is working with Doug Campana  
(co-editor, ZRN) to create a subprogram  
for the ANIMALS computer data base for  
archaeological collections (ANIMALS was  
created by Campana and Pam Crabtree).  
This will manage direct entry of  
archaeological fish collections (for BC) as  
well as for birds and mammals.

-Heather Henderson (contact CZ for  
address) is looking for documentary  
sources for French and/or Acadian faunal  
use in the 17th and 18th centuries, in  
particular, information on animal  
husbandry, butchering, preserving and  
cooking practices, as well as breeds  
brought in from Europe. She is also  
interested in sources of commercial  
butcher's retail prices for meat cuts in the  
19th to the early 20th centuries.

-My own request: CZ has had several  
requests for a listing of Canadian  
graduate theses on zooarchaeology; I plan  
to compile these for the next issue. Could  
people send in their thesis title and date  
if it has zooarchaeological relevance.