

## Index

### A

- Arrow, (see Bow and arrow)
- Arrowhead, 82–4
- Assiniboine, 166, 169–70, 214–5, 227
- Audubon, John, 29, 32, 33, 35, 36, 40, 51, 58, 88, 112, 129, 157, 158, 163, 172, 198, 218, 233, 252

### B

- Bear, (see Plains Grizzly Bear)
- Belly River, 192, 198
- Berries, (see Chokecherries; Saskatoon berries)
- Big Smoke, Hazel, 195–198
- Bioenergetics, 54–60
- Bison, (see Buffalo)
- Blackfoot, 10, 12, 24–6, 88, 95, 110, 115, 120, 136, 137, 138, 170, 221–2, 231, 233, 235, 243, 257, 266–7, 272–284, 289–90
- Blood, (see Kainai)
- Bone,
  - boiling, 194
  - burned, 164, 167
  - burning, 164–8
  - grease, 190–1
  - marrow, 188–90
  - spiritual importance of, 113
  - tools, 245
- Bone Boiling Pits,
  - experiments with, 192–205
  - hide liners, 192–3, 200, 204
  - making of, 191–2
  - occurrence at Head-Smashed-In, 193, 197, 203, 229
  - Quartzite cobbles, 205
  - use of, 192, 194
- Bonfire Shelter, 19, 22
- Bow and arrow,
  - metal tips, 250, 254, 255
  - Native expertise with, 57, 247, 249
  - preference over gun, 246–9
  - historic references to, 18, 154, 247–9
  - stone tips, 82–3, 249–50
  - use in hunting, 18, 246–50
- Brackenridge, Henry,

36, 43, 55, 56, 116, 148

Bradbury, John,

36, 69, 105, 114, 116, 157, 214, 227

Buffalo,

Aboriginal knowledge of,

- 12–3, 39, 41–2, 43, 53–4, 57,
- 59–60, 62, 79–80, 85–6, 89, 100,
- 115, 118, 121, 124, 128–31, 150–1,
- 177, 229

adaptability to cold,

48, 63–4, 172–3

agility of, 29, 32, 37, 151

avoidance of wolves, 116–7

bison vs. buffalo, 32–3

blood, 67, 113, 181, 189

bones,

frequency of types at kills,

211–3

grease, (see Bone, grease)

marrow, (see Bone, marrow)

shipments to the East, 240–1

brains, 163, 177, 213, 226–7

bulls, 49–51, 52–3, 61–4, 66–7, 89,

116–7, 153, 162, 217, 224, 231,

234, 238, 242

butchering, 168–71, 176–8

calves, 44–5, 47, 61, 67, 116, 129–30

chips, (see Buffalo dung)

cows,

barren, 47–8, 52, 58, 61, 67

calving, 44–5, 52, 64–5

nursing, 45–6, 47–8, 52, 61–2, 65

preference over bulls,

52–3, 57–9, 67

pregnancy, 44, 45–8, 53

cow–calf groups, 62–3, 67, 132

curiosity of, 121–3

evolutionary history of, 28–9

fat, (see Fat)

fetuses, 45–6, 48, 210–1

following trails, 38, 136

front heavy, 142–3, 149

hair, 42, 47–9, 63, 172–3, 175

herd behaviour, 140, 151

hides,

cooking and eating of, 227

demand for, 226, 228, 238–43

insulating qualities of, 171–4

processing of,

(see Tanning hides)

- seasonal differences in, 47–8, 67, 69, 224–5
  - thickness of, 63, 142, 161, 171
  - uses of, 27, 37, 67, 69, 89–90, 100, 128–9, 133, 136–7, 142, 181, 183, 188, 192, 197, 199, 210, 224–8, 230–2, 238–9, 279
  - historic distribution, 107, 229
  - historic numbers of, 33–6
  - hooves 155, 212, 245
  - hunting,
    - ceremonies involved, 95, 105–13, 156–7, 214, 287
    - communal methods, 8–9, 37–8, 60, 67, 69, 107, 128, 134, 138, 155, 169, 224, 246
    - dangers involved, 29–32, 82–3, 129, 132–4, 148–9, 158–9, 162
    - historic accounts of failed hunts, 89, 115, 131–2, 158–9, 162
    - historic descriptions of, 8, 12–4, 16, 18, 37–8, 51, 88–9, 96–7, 99, 103, 114–5, 119, 122, 125, 128–34, 137–9, 145, 149, 154, 157, 162, 238, 247–8, 249, 255
    - solitary hunts, 8–9, 67, 69, 125, 128, 170
    - use of disguises, 37, 125–32
  - importance to Native groups, 27–8, 33, 71, 85, 95, 106, 124, 155, 224, 245
  - jumps, (see Buffalo jump)
  - leaders of herds, 140, 150–2, 158
  - lean, 40, 46–8, 53, 67
  - luring, (see luring buffalo)
  - meat,
    - distribution of, 170–1
    - drying, 185–7, 230
    - grilling, 206–8
    - longevity of dried meat, 188
    - pemmican, (see Pemmican)
    - pounding, 230, 234
    - roasting, 208–11
  - pound, (see Buffalo pound)
  - preference for fat animals, 40, 53, 57–9, 67–8, 170, 247
  - reaction to fire, 118, 119
  - reaction to wind, 114–5, 121
  - robes, (see Hide)
  - rut, 44, 47, 49, 51–2, 61–2, 66, 242
  - seasonal differences,
    - 44–53, 57–9, 65–7
  - sense of smell, 114–7, 130, 137
  - sexual dimorphism, 52–3
  - skulls,
    - ceremonial use of, 107–8, 113, 136, 157, 159, 211, 214–5, 279–81
    - historic references to, 107, 157, 165, 211, 214–5
    - shortage at kill sites, 212–6
    - source of brains for tanning, 163, 213
    - spiritual importance of, 113, 136, 159, 211, 214–6
  - slaughter of,
    - bones on the prairies, 157, 251–2
    - demand for buffalo hides, 226, 228, 238–43
    - estimates of buffalo killed, 237, 238, 240
    - historic references to, 157, 237–8, 239–40, 244, 252
  - social groups, 62–3, 65–7
  - speed of, 29, 32, 143
  - spiritual significance of, 95, 113, 136, 159, 214–5
  - stampede, 83, 114, 139–41, 143, 147–51, 242
  - tails, 245
  - tongue,
    - desire for, 176–7, 240, 244
    - fat content of, 177
    - historic references to, 59, 110, 112, 157, 170, 177, 244
    - use in post-hunt ceremonies 112–3, 177
  - wounded, 32, 57, 82–3, 154, 156, 158, 161–3, 238
- Buffalo Bird Woman, 42, 169, 189
- Buffalo dung,
  - comparison with wood fuel, 200
  - experiments with, 199–200
  - historic references to, 36, 75, 121, 137, 198–200, 251
  - use as fuel, 193, 198–200
  - use in drive lane cairns, 75, 96–7, 99
  - use in trails for winter hunting, 136–7

- Buffalo jump,**  
 bonebeds, 81, 83–4, 164, 183  
 burned bone layers, 164–8  
 Calderwood site, 80, 164, 268–70  
 cliffs, 12–3  
 drive lanes, 75, 83, 96–7, 99–101  
 end of use, 246–50, 253–4  
 gathering basins, 73–4  
 historic references to, 12–3, 16,  
 18, 99, 132–3, 158  
 numbers of buffalo killed,  
 estimates, 3, 15, 163, 168, 245  
 historic references to, 16, 18, 96  
 processing area, 179–80  
 sharing of buffalo carcasses, 170–1  
 smell of fresh kills, 163, 165–6, 217
- Buffalo pound,**  
 central pole, 111  
 ceremonial offerings, 110–2, 214  
 historic numbers of bison killed,  
 86, 153, 166  
 historic references to, 14, 49, 75,  
 86, 88–9, 91, 96, 107–8, 111–2,  
 122, 128, 137, 139, 143, 145,  
 153–4, 157–8, 161, 166  
 illusion of solid walls, 89–90, 100  
 structure of pound, 86–90
- Buffalo Runners,**  
 dangers involved, 124, 129, 132–4  
 historic references to,  
 124–5, 128–33  
 imitating buffalo calves, 129–30  
 importance and skill of,  
 124–9, 131  
 use of disguises, (see Disguises)
- Buffalo stone, (see *Iniskim*)**
- Butchering buffalo,**  
 assembly line, 168–71, 175–78  
 historic references to,  
 67, 177, 180–1, 184  
 parts eaten raw, 169, 177  
 sequence of, 176–8
- Byrne, William J., 260–1**
- C**
- Cairns,**  
 construction and size of,  
 76, 92–4, 96–101  
 Deadmen, 97–9, 137, 255  
 excavations of, 93–4
- historic references to,  
 96–7, 99, 137  
 part of drive lanes,  
 76, 97–101  
 people stationed behind,  
 99, 132, 137–9  
 purpose of, 79–80, 98, 100, 137  
 Calderwood site, 80, 164, 268–70  
 Catlin, George, 8, 27, 38, 54, 55, 69,  
 107, 117, 125–7, 147, 159, 162, 166,  
 183, 184, 218, 228, 234, 237, 247  
 Ceremonies,  
 associated with hunting, 107–12  
 associated with butchering, 112–3  
 Cheyenne, 38, 88, 113, 227, 245, 247  
 Chokecherries, 231–2  
 Clark, William, 11, 16, 35, 37, 40, 45,  
 57, 118, 128, 133, 152, 169, 219  
 Cliff, 12–3  
 Cocking, Mathew, 75, 96  
 Communal hunting,  
 definition and types, 8–9, 128, 169  
 end of, 246–50, 253–5  
 social importance of, 9  
 Cooking buffalo meat,  
 boiling, 177, 200, 206  
 grilling, 206–8  
 roasting, 208–11  
 Cooking pits,  
 bone boiling pits, (see Bone  
 Boiling Pits)  
 occurrence at Head-Smashed-In  
 193, 196–7, 203, 207, 209, 211  
 roasting pits, (see Roasting)  
 Coyotes, 37, 117, 125, 212, 217, 220  
 Crow, 107, 113, 138  
 Crowshoe, Joe, 275–81
- D**
- Dawson, George, 25  
 De Smet, Father P.J., 56, 86  
 Deadmen, (see Cairns)  
 Dempsey, Hugh A., 274–5  
 Densmore, Francis, 124, 214  
 Diseases, 243  
 Disguises,  
 buffalo, 128–9  
 buffalo calf, 129–30, 132  
 use in ambush, 125

- use in hunting, 37, 125–131
- Wolf, 37, 125–7, 130
- Distribution of buffalo carcasses, 170–1
- Dodge, Colonel Richard, 169, 175, 179, 184, 188, 206, 237, 239–40, 253
- Dogs, 38, 49, 59, 109, 166, 202, 221–2, 289–90
- Drive Lanes,
  - final stretch of, 142–5
  - funnel shape, 96, 99, 101, 130–3, 138–9, 141
  - Head-Smashed-In, 76–81, 91–4, 138, 141–2, 145–6, 268
- Drying buffalo meat,
  - historic references to, 69, 185, 187
  - process of, 185–7
  - use of smoky fires, 186–7
- Dung, (see Buffalo dung)
- E
- Egalitarian society, 170
- Elders (Native),
  - authority of, 134–5, 277
  - interviews with, 12, 97, 134–7, 272, 277
- Kainai, 282–4
- knowledge of, 37, 54, 62, 95, 259, 277–8
- Piikani, 24, 135, 274–6, 279, 283–4
- respect for, 177, 277
- Elk Island National Park, 87–8, 172
- European Explorers,
  - craving fat, 41
  - hunting buffalo, 40, 54, 57–9, 130–1, 157, 238
  - opinions about Natives, 55–7, 244
- European Fur Traders, 11, 13, 25, 35, 51, 54–5, 95, 148, 248, 254
- European Hide Hunters, 148–9, 151, 226, 240–3
- Ewers, John, 14, 27, 89, 132, 138, 143
- F
- Fall,
  - best season for hunting buffalo, 67–9, 179–80, 224
  - condition of buffalo, 45, 47, 49, 51–2, 66–9, 224
- dispersal of buffalo groups, 62–4
- Farnham, Thomas, 39, 55, 58, 189, 214
- Fat,
  - buffalo, 45–53, 69, 113, 187–8, 230–1
  - hard, 230–1
  - historic references to, 39–41, 42, 69, 227, 230–1
  - importance in Native diet, 39–40, 53, 188, 234
  - intramuscular, 187
  - role in reproduction, 49–50, 53
  - soft, 230–1
- Fidler, Peter, 25–6, 35, 44, 59, 86, 117, 163, 166, 254–5
- Fire,
  - contained fires, 121
  - intentional burning, 117–9, 164–8, 220
  - prairie, (see Prairie Fires)
  - use in driving buffalo, 119–21
- Fletcher, Alice, 106, 108–10, 235
- Frison, George, 74, 123–4
- Fur Trade, (see also European Fur Traders), 233, 234
- G
- Gathering Basin, 73–5
- Graham, Donald, 41
- Grass, 44, 47–8, 61, 64–5, 118
- Grease, (see Bone, grease)
- Grease Rendering,
  - bone boiling, 190–2, 194, 229
  - experiments with, 192–205
  - process of, 190, 192–4
  - smashing bone, 194, 197
- Great Plains,
  - diversity in topography, 60–1
  - historic views of, 1, 10–1
  - precontact occupation of, 20–3, 27
- Gregg, Josiah, 40, 57, 67, 114, 128, 148, 177, 179, 198, 200, 229, 247, 248
- Grinnell, George Bird, 12, 38, 88, 99, 110, 113, 122, 134, 137, 170, 227, 231, 233, 245, 247
- Grizzly Bear,
  - (see Plains Grizzly Bear)
- Gros Ventre, 113, 133, 138, 155, 222, 253

- Gull Lake Bison Kill site, 167
- Guns, 95, 153, 162, 234, 243, 246–9, 254
- H
- Harmon, Daniel W., 10, 69, 73, 96, 99, 118, 153, 164, 171, 177, 181, 191, 227, 229, 233, 249, 255
- Harris, Edward, 57, 143, 157, 168, 198, 238, 244
- Head-Smashed-In Buffalo Jump, bonebed, 74, 164  
 cliff, 16–8, 24, 144  
 drive lane complex, 76–81, 91–4, 103, 138, 141–2, 145–6, 268  
 excavations of, 18–20, 24, 93–4, 164, 191, 193, 197, 201, 207, 209, 261  
 final abandonment of, 253–8  
 gathering basin, 72–4, 79, 94, 103, 122, 142, 145, 268
- Interpretive Centre, building of, 260–5  
 casting the cliff, 267–9  
 casting the dig, 269–71  
 consultation with Native groups, 272–84  
 displays, 228, 266–7, 271, 278–82, 289  
 producing the movie, 284–7  
 location of, 14–5, 17  
 origin of name, 24–6  
 processing area, 24, 179–81  
 spring channel, 22–3, 182, 213, 231, 256  
 time of use, 19–23
- Heated Rocks, 200–5
- Hearne, Samuel, 45, 171, 177
- Henday, Anthony, 59
- Hennepin, Father L., 65, 177, 221, 245, 249
- Henry, Alexander, (the younger) 13, 18, 35, 49, 57, 58, 59, 91, 115, 120, 121, 132, 139, 157, 159, 169, 170, 255
- Henry, Alexander, (the elder), 13, 128–9, 170
- Hide, (Buffalo), (see also Buffalo, hides)  
 hunters, 148–9, 151, 226, 240–3  
 Native uses of, 27, 37, 67, 69, 89–90, 100, 128–9, 133, 136–7, 142, 181, 183, 188, 192, 197, 199, 210, 224–8, 230–2, 279  
 processing of, 213, 225–7, 231–2  
 shipments to East factories, 238–42  
 smoking of, 186, 227  
 use in machine belts, 238–9
- Hind, Henry Youle, 2, 55, 85, 86, 89, 97, 137, 149, 153, 166, 244
- Horse, effects on Plains life, 8, 95, 232, 234, 241, 243, 246, 253  
 travois, 10  
 use in hunting, 8, 31–2, 55, 67, 95, 162, 243, 246–7, 249–50, 254–5  
 use in transporting meat, 113, 246
- Hunting, antelope, (see Pronghorn)  
 buffalo, (see Buffalo, hunting)
- I
- Ice Age, 28–9, 91, 202
- Iniskim*, 110, 287
- J
- James, Edwin, 10, 12, 36, 40, 41, 56, 58, 111, 113, 115, 116, 118, 121, 163, 177, 182, 187, 188, 189, 210, 215, 217, 218, 219, 224, 226, 227, 229, 241, 244
- K
- Kainai, 112, 282–4
- Kane, Paul, 59, 111, 117, 121, 123, 130, 154, 161, 183, 216, 219
- L
- La Flesche, Francis, 106, 108–10, 235
- Larpenteur, Charles, 58
- LeBlond, Robert, 263–5, 268
- Lewis, Meriwether, 11, 16, 35, 37, 40, 45, 57, 118, 128, 133, 152, 169, 219
- Lott, Dale, 151
- Lowie, Robert, 107, 108, 170
- Luring buffalo, contained fires, 121, 134  
 dangers involved, 124, 129, 132–4  
 jumping and twisting, 122–3  
 methods, 121–34

- Runners, (see Buffalo Runners)  
use of disguises, (see Disguises)  
waving buffalo robes,  
99, 132–3, 137, 139, 145
- M
- McDonnell, Roger, 277, 278  
McDougall, John, 40, 184, 185, 187  
Mandan, 33, 106–7, 159  
Mandelbaum, David, 9, 103, 107, 112,  
113, 145, 165, 188, 200, 210  
Marrow, (see Bone, marrow)  
Maximilian, Prince of Wied,  
37, 45, 96, 113, 165, 200, 211, 214,  
215, 251  
Medicine Men/Women,  
107–13, 134, 214, 278  
Metis, 56  
Missionaries, 55–6, 95, 158  
Missouri River,  
12, 16, 36, 37, 143, 227, 233, 238  
Morgan, Lewis Henry,  
10, 58, 238, 242, 248
- N
- Napi*, 221–2  
Native Children, 89, 99, 132, 138–9,  
153, 184, 222  
Native Women, 89, 99, 132, 138–9,  
184, 221, 222, 228, 232–3  
*Niitsitapi*, 221–2, 274, 275
- O
- Offerings, (see Ceremonies)  
Oldman River, 17, 26, 65, 77, 142, 181,  
202–3, 205, 208, 221–4  
Omaha, 33, 106, 108–10, 113, 235  
Osage, 155, 244  
Overkill, 155–60, 244–6
- P
- Palliser, John, 40, 57, 58, 59, 63, 88,  
96, 111, 116, 117, 148, 153, 158, 177,  
181, 198, 217  
Pannekoek, Frits, 261  
Parfleche, 188, 232  
Peigan, (see Piikani)  
Pemmican, 184, 229–34
- Piikani,  
consultations with, 272–82  
interviews with, 134–7, 272, 276–8
- Pike, Major Z.M., 35, 247  
Pipes, 103, 109–12, 136, 214, 234, 279  
Pis’kun, (See Buffalo pound)  
Plains Cree, 9, 89, 103, 107–8, 110,  
112–3, 138, 145, 158, 165–6, 170,  
200, 210, 214, 227  
Plains Grizzly Bear,  
attacks by, 217–9  
claws, 216, 219–20  
historic references to, 116, 172,  
216–9  
spiritual significance of, 219  
threat to buffalo, 116, 217  
threat to people, 116, 218–9
- Points,  
change from stone to metal,  
249–50  
metal, 250, 254  
stone, 20–2, 28, 82–4, 161, 176,  
249–50, 254  
styles of, 20–2, 82–3
- Porcupine Hills,  
location of, 14–5, 17, 72  
topography of, 15–6, 65  
vegetation of, 15, 66, 71–2
- Pottery (Native), 191, 248  
Pound, (see Buffalo pound)  
Prairie Fires, (see also Fire),  
117–20, 164–5  
Pronghorn Antelope,  
37, 116, 121–2, 125
- Q
- Quartzite, 202–5, 208
- R
- Reeves, Brian, 80, 164, 260–1, 268  
Roasting,  
buffalo meat, 208–11  
historic references to, 179, 210  
pits, 207–11  
Ross, Alexander, 56, 253  
Rundle, Robert, 36, 67, 86, 118, 131,  
158, 227  
Runners, (See Buffalo Runners)

## S

- Sandstone,
  - 14, 16, 24, 201–4, 208–11, 230
- Saskatoon berries, 165, 231–2
- Schoolcraft, Henry Rowe,
  - 71, 119, 180–1, 188, 198, 252
- Scottsbluff Spear Point, 22–3
- Seasonal round, (see also Spring;  
Summer; Fall; Winter), 60–4
- Shaman, (see Medicine Men/Women)
- Siksika, 282–3
- Skulls, (see Buffalo, skulls)
- Southesk, Earl of,
  - 32, 36, 57, 111, 162, 225, 252
- Spiritual Life,
  - associated with buffalo hunting,
    - 103, 106–14, 214
  - Blackfoot, 95, 110, 279
  - Cree, 103, 107–8, 110–1, 112–3, 214
  - Crow, 107, 113
  - Mandan, 106, 159
  - Omaha, 106, 108–10, 113
- Spear,
  - points, 20–3, 82, 182
  - thrusting weapon , 21
  - use in hunting, 28–9, 153
- Spring,
  - calving, 44–5, 64, 65
  - condition of buffalo, 48, 51–2, 65–7
  - condition of hides , 69, 225
  - condition of prairie grasses,
    - 44, 48, 64, 66
- Stampede, 114, 139, 143, 148–51, 242
- Stefansson, Vilhjalmur, 233
- Storage, 188, 230, 232–3
- Strikes with a Gun, Billy, 135–7
- Summer,
  - aggregation of buffalo herds, 61–2
  - condition of buffalo, 45–6, 47–9, 61
  - condition of hide, 47, 67, 69, 225
  - condition of prairie grass 44, 61

## T

- Tanning hides,
  - 163, 186, 213, 225–8, 231–2
- Tannins, 231–2
- Teton Sioux, 124, 214
- Thompson, David, 1, 11, 36, 49,
  - 55–6, 57, 58, 59, 113, 117, 118, 219,
  - 224, 230, 232, 233

- Tipi, 69, 103, 112, 187, 200, 210, 223,
  - 224–5, 228, 235–6, 243, 287
- Tixier, Victor, 155, 162, 198–9, 207,
  - 244, 248, 251
- Trade with Europeans, 243
- Trains, 238–42
- Travois, 10, 221–2
- Turnbull, T., 198, 251
- Turtle hearts, 105

## U

- UNESCO,
  - 6, 14, 25, 73, 76, 260–1, 263, 267, 273

## V

- Vore site, 180

## W

- Wanuskewin Heritage Park, 228
- War shields, 105–6, 142, 224, 287
- Wettlaufer, Boyd, 19–20, 22–3, 182
- Wilson, Gilbert, 42, 169, 189
- Wind,
  - importance in hunting,
    - 38, 114–5, 121, 123, 166
  - importance to buffalo, 114–5
- Winter, (see also Seasonal round),
  - camps, 69, 185, 200, 222–4
  - condition of buffalo, 48, 51–2, 66–7
  - condition of hide, 67, 224
  - dispersal of buffalo, 62–4
  - hunting, 37–8, 67, 136–7
  - sheltering spots for buffalo, 63–4
- Wolves, 37, 40, 59, 73, 116–7, 125,
  - 127, 130, 212, 217, 219, 238, 244
- Women, (see Native Women)
- Wood,
  - need for, 200, 223–4, 236
  - smoke, 186–7
  - use as fuel, 198–200
  - use in buffalo corrals, 86–7, 90
- Woolsey, Thomas, 130, 157, 218



This publication is licensed under a Creative Commons License, see [www.creativecommons.org](http://www.creativecommons.org). The text may be reproduced for non-commercial purposes, provided that the original author is credited.

Please contact AU Press at [aupress@athabascau.ca](mailto:aupress@athabascau.ca) for permission beyond the usage outlined in the Creative Commons license.