

FURBEARER DATABASE



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE

Gates of the Arctic National Park and Preserve
P.O. Box 74680
Fairbanks, Alaska 99707

March 25, 1993

To: Resource Management Staff

From: Biological Technician

RE: Furbearer database

The following tables describe the furbearer database FURDATA.dbf. This database was set up to hold necropsy data from furbearer carcasses purchased from trappers working in or near Gates of the Arctic National Park and Preserve. The data sheet associated with this database as well as those used to record marten harvest are attached. Copies of the file and data sheets will be retained in the Fairbanks Office and are available for other agencies to use if they so desire.

Shelli A. Swanson

Table 1. Database structure for FURDATA.dbf. This database was designed to hold necropsy data from furbearer carcasses purchased from trappers operating in or near Gates of the Arctic National Park and Preserve, Alaska.

Field Number	Field Name	Data Type	Width	Decimal Places
1	ID	Numeric	6	
2	SPECIES	Character	3	
3	TRAPPER	Numeric	2	
4	ADDRESS	Character	4	
5	KILLDAY	Numeric	5	
6	KILLYEAR	Numeric	3	
7	LOCATION	Character	50	
8	SEX	Character	2	
9	ACTAGE	Numeric	3	
10	CBL	Numeric	6	1
11	TAIL	Numeric	5	1
12	SKULL	Numeric	5	1
13	UPCANINE	Numeric	5	1
14	HEART	Numeric	5	1
15	TESLENRT	Numeric	5	1
16	TESWIDRT	Numeric	5	1
17	TESLENLT	Numeric	5	1
18	TESWIDLT	Numeric	5	1
19	EXTERNFAT	Numeric	2	
20	XIPHFAT	Numeric	5	1
21	VISCFAT	Numeric	2	
22	GASTRO1	Numeric	3	
23	GASTRO2	Numeric	3	
24	GASTRO3	Numeric	3	
25	PARA1	Numeric	3	
26	PARA2	Numeric	3	
27	PARA3	Numeric	3	
28	PARA4	Numeric	3	
29	PSLEFT	Numeric	2	
30	PSRIGHT	Numeric	2	
31	CORLUTLT	Character	2	
32	CORLUTRT	Character	2	
33	FETUSLT	Numeric	2	
34	FETUSRT	Numeric	2	
35	FETUSDATA	Memo	10	
36	MISC_INFO	Memo	10	

Table 2. Descriptions of fields contained within FURDATA.dbf. This database was designed to hold necropsy data from furbearer carcasses purchased from trappers operating in or near Gates of the Arctic National Park and Preserve, Alaska.

Field Name	Description of Field
ID	Species identification number consisting of the order in which the carcass was necropsied and the year. For example, the 10th carcass necropsied in 1992 would be 9210.
SPECIES	2 letter code for the species of carcass necropsied. Codes are: - AF = Arctic Fox - BV = Beaver - CY = Coyote - LY = Lynx - MA = Marten - MI = Mink - OT = Otter - RF = Red Fox - WF = Wolf - WV = Wolverine
TRAPPER	2 number code for the name of the trapper who captured the animal being necropsied. Additional trapper names should be added to the end of the code list below. Current codes are: 01 = Ahgook, B. 02 = Ahgook, J. 03 = Bamford, G. 04 = Burroughs, P. 05 = Burroughs, R. 06 = Dionne, P. 07 = Hicker, B. 08 = Holly, T. or S. 09 = Hopson, B. 10 = Hugo, D. 11 = Hugo, W. 12 = Johnson, M. 13 = Lincoln, G. 14 = Louden, J. 15 = Mekiana, J. 16 = Mekiana, K. 17 = Mekiana, P. 18 = Morry, M. 19 = Paneak, R. 20 = Poor, J. 21 = Reakoff, J. 22 = Rulland, John 23 = Rulland, Joshua 24 = Rulland, T. 25 = Schmitz, D. 26 = Schoppenhorst, Scott 27 = Stepharney, C. 28 = Withrow, A. 29 = Unknown 30 = Lou Waller 31 = 32 = 33 = 34 = 35 =

Table 2. Continued.

Field Name	Description of Field
ADDRESS	3 letter code for the trapper's residence. Codes are as follows: AKP = Anaktuvuk Pass BTT = Bettles JIM = Jim River KOB = Kobuk NOL = Nolan WIS = Wiseman CLD = Coldfoot
KILLDAY	Month and day furbearer was captured. The KILLDAY for an animal taken on November 24th would be recorded as 1124.
KILLYEAR	Last 2 digits of year carcass was captured. 1993 would be recorded as 93.
LOCATION	Trapper's notation on the carcass tag of where the animal was captured.
SEX	Letter code for the sex of the animal necropsied. Codes are as follows: M = Male F = Female
ACTAGE	Actual age of the animal as determined by tooth cementum aging of an upper canine tooth. 11 years = 11.
CBL	Contour body length (to the nearest 0.1 cm) from maxilla over the head and along the spine to the end of the last tail vertebra.
TAIL	Length of the tail to the nearest 0.1 cm.
SKULL	Length of the skull to the nearest 0.1 cm from the palatine process of the maxilla to the external occipital protuberance.
UPCANINE	Length of an upper canine to the nearest 0.1 mm. Measured with a caliper. Broken tooth or no tooth measured left blank.
HEART	Heart girth measurement to the nearest 0.1 cm.

Table 2. Continued.

Field Name	Description of Field
TESLENRT	Length of the right testes to the nearest 0.1 mm. Measured with a caliper.
TESWIDRT	Width of the right testes to the nearest 0.1 mm. Measured with a caliper.
TESLENLT	Length of the left testes to the nearest 0.1 mm. Measured with a caliper.
TESWIDLT	Width of the left testes to the nearest 0.1 mm. Measured with a caliper.
EXTERNFAT	Visual ranking of the amount of external body fat on the carcass. Codes are as follows: 0 = none 1 = scarce 2 = moderate 3 = abundant
XIPHFAT	Measurement to the nearest 0.1 mm of the fat deposit in the body cavity medial to the xiphoid process.
VISCFAT	Visual ranking of the amount of visceral fat associated with intestinal mesenteries and organs. Codes are as follows: 0 = none 1 = scarce 2 = moderate 3 = abundant
GASTRO1	Numeric code for the most abundant item in the gastro-intestinal tract. Codes listed after GASTRO3 definition.
GASTRO2	Numeric code for the second most abundant item in the gastro-intestinal tract. Codes listed after GASTRO3 definition.

Table 2. Continued.

Field Name	Description of Field
GASTRO3	Numeric code for the third most abundant item in the gastro-intestinal tract. Codes for GASTRO1, GASTRO2, and GASTRO3 are as follows: 0 = stomach empty, nothing 1 = berries 2 = blueberries 3 = caribou 4 = feathers, species unknown 5 = fish 6 = garbage from dump area 7 = grouse/ptarmigan 8 = lemming 9 = meat, source unknown and questionable contents 10 = microtines/voles 11 = moose 12 = Dall sheep 13 = snowshoe hare 14 = trap bait 15 = trap debris/vegetation 16 = ungulate, unidentified 17 = miscellaneous, (noted in MISC_INFO)
PARA1	Numeric code for most abundant parasite identified in the gastro-intestinal tract. Codes listed after PARA4 definition.
PARA2	Numeric code for second most abundant parasite identified in the gastro-intestinal tract. Codes listed after PARA4 definition.
PARA3	Numeric code for third ranked parasite identified in the gastro-intestinal tract. Codes listed after PARA4 definition.

Table 2. Continued.

Field Name	Description of Field
PARA4	Numeric code for fourth ranked parasite identified in the gastro-intestinal tract. Codes for PARA1, PARA2, PARA3, and PARA4 are as follows: 0 = none 1 = free-roaming nematode 2 = nematode cyst 3 = <u>Sobolophyme baturini</u> 4 = tape worms 5 = unidentified parasites 6 = parasites identified by a parasitologist. Scientific names are listed under MISC_INFO.
PSLEFT	Number of placental scars counted in the left uterine horn.
PSRIGHT	Number of placental scars counted in the right uterine horn.
CORLUTLT	Number of corpora lutea counted in the left ovary.
CORLUTRT	Number of corpora lutea counted in the right ovary.
FETUSLT	Number of fetuses counted in the left uterine horn.
FETUSRT	Number of fetuses counted in the right uterine horn.
FETUSDATA	Memo field for recording sex, length, and other information from fetuses.
MISC_INFO	Memo field for all information not fitting elsewhere. This includes, but is not limited to, the following data: infirmities, tissues or body parts collected for further study or documentation, disease evidence, information relayed by the trapper about the carcass, stomach contents or parasites not covered by the above codes, UAF or ADF&G numbers or information associated with the carcass (frozen tissues, voucher specimens, tongues collected for trichinosis analysis, etc.), and other notes of interest.

Appendix I. Data sheets used to record furbearer harvest information from carcasses purchased from trappers working in and near Gates of the Arctic National Park and Preserve, Alaska.

FURBEARER NECROPSY DATA

ID # _____ SPECIES _____ EXAM DATE _____

TRAPPER _____ ADDRESS _____

KILL DATE _____ KILL LOCATION: _____

SEX _____ Estimated Age _____ CEMENTUM AGE _____

CARCASS MEASUREMENTS:

Conture Body Length (cm) _____

Testes: (mm)

Tail Length (cm) _____

Right Length _____

Skull Length (cm) _____

Width _____

Upper Canine Length (mm) _____

Left Length _____

Heart Girth (mm) _____

Width _____

FAT LEVELS:

Exterior Fat (none, scarce, mod., abund.) _____

Xiphoid Fat (mm) _____

Visceral Fat (none, scarce, mod., abund.) _____

INTERNAL EXAM:

Gastro-Intestinal Contents:

Parasites:

Disease/Infirmities:

FEMALE REPRODUCTIVE TRACTS:

Placental Scars L _____ R _____

Corpora Lutea L _____ R _____

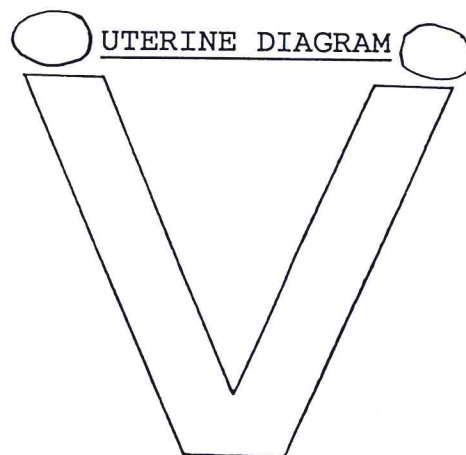
No. Fetuses L _____ R _____

Fetus Sex/Length (mm) _____

SPECIMENS COLLECTED:

Skull _____ Tongue _____ Uterus & Ovaries _____ Tissues _____ Fetuses _____ Muscle _____

Gastro-Intestinal _____ Other _____



MARTEN HARVEST

TRAPPER NAME _____ DATE EXAM _____

TRAP AREA _____

Sex/Age

Month	Ad ♀	Juv ♀	Ad ♂	Juv ♂	Total
Nov.					
Dec.					
Jan.					
Feb.					
Unk.					
Total					

Juv:A (count) _____ % _____

Juv:AF (count) _____ % _____

Miscellaneous Information:

MARTEN CARCASS MEASUREMENTS

Trapper _____ Location _____
Date _____

[illegible]

1991-1992

PROGRESS REPORT