

ALBERTA RECREATION, PARKS AND WILDLIFE

FISH AND WILDLIFE DIVISION

BIOLOGICAL OBSERVATIONS OF WOLVES FROM THE

1976-1977 WOLF CONTROL PROGRAM

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SUMMARY

During 1976-77, the fifth consecutive winter of wolf control in Alberta, biological data were collected from 75 wolves. Poison bait stations were again set up in areas where proven or probable depredations had occurred. Previous reports from 1972-73 and 1973-74 (1,4) outlined techniques of carcass collection, autopsy and biological preparation. This report presents only biological observations of the 1976-77 wolves for reference and comparison to other years.

Of the 76 wolves taken during the 1976-77 program, 75 carcasses were collected for analysis. Seventy-four of the wolves were taken by strychnine poisoning and one was shot. Data were collected from 42 wolves taken in the Peace River Region and 24, 4 and 5 from Calgary, St. Paul and Edson Regions respectively (Table 1 and Figure 1). Temporal distribution ranged from July 1976 to May 1977 with the majority of wolves taken in the months of December, February and April (Table 2). Males comprised 53.5% of the sample (Tables 3 and 4). Ages ranged from pups to $7\frac{1}{2}$ (Figure 2). Sex ratios did not differ significantly from 1:1 in any age cohort (Table 4). Pups constituted 42.3 percent of the total, 22.5 percent were yearlings and 35.2 percent were $2\frac{1}{2}$ years and older. (Pups made up 44.6%, 37.1%, 11.9% and 24.8% of wolves taken in 1972-73, 1973-74, 1974-75 and 1975-76 respectively, [1,4,2,3]). Two pregnant wolves had a mean of 5.5 embryos and a mean of 6.5 corpora lutea was recorded in 10 wolves (Table 6). Testes weights (with epididymus) of adult males again showed no major pattern of change during the December-March period (Figure 3).

As expected, stomach contents of wolves taken at bait stations strongly reflected bait used. The wolf shot at a dump had only old fat and vegetation in the stomach (probably dump material). In those stomachs where known bait material was eliminated, cervid, vegetation and cattle remains predominated. However cattle carrion (1 wolf kill and 1 farmyard loss) was located in the area of the bait station (Table 7). In the intestinal contents, cervid remains occurred most frequently. Cattle appeared to be the second most frequent occurrence, although non-food items such as wolf and grasses occurred more frequently. Horse and non-domestic small prey made up the rest of the dietary items (Table 8).

Of the 75 wolf pelts examined, mange occurred in only two wolves (2.7%). Both were yearling animals and were taken in St. Paul and Edson regions (Tables 9 and 10). This mange infection rate is lower than the two preceding years (27.3 percent in 1974-75 and 12.4 percent in 1975-76). Approximately 85 percent (62) of the wolves were recorded as being in good physical shape with the remainder listed as poor. One wolf had extensive head damage, including the loss of an eye, another had a broken tibia (hind leg), five had rib fractures and several more had scars and old trap wounds. One wolf had a massive infection of Echinococcus granulosus.

Mean xiphoid fat weights were recorded (Table 11) and were greater in most cohorts than in the preceding two seasons.

Pelage color was recorded in 44 of 75 wolves (Table 12) with grey as the most predominate color (61.4 percent). Whole weights, total length and hind foot length are also summarized (Table 13).

References Cited

1. GUNSON, J.R. 1973. The 1972-73 wolf control program. Alberta Fish and Wildlife Division. Unpublished Progress Report. 25 pp.
2. _____ P.J. Cole and W.A. Johnson. 1976. Biological observations from the 1974-75 wolf control program. Alberta Fish and Wildlife Division. Unpublished Progress Report. 24 pp.
3. _____ P.J. Cole and W.A. Johnson. 1976. Biological observations from the 1975-76 wolf control program. Alberta Fish and Wildlife Division. Unpublished Progress Report. 23 pp.
4. SCHOWALTER, D.B. 1975. Biological Investigation of the 1973-74 wolf control program. Alberta Fish and Wildlife Division. Unpublished Progress Report. 18 pp.

Table 1. Source of wolf carcasses for biological examination by Region and method of collection: 1976-77.

| Region | Poison | Shot | Total |
|-------------|--------|------|-------|
| Peace River | 41 | 1 | 42 |
| Edson | 5 | | 5 |
| Calgary | 24 | | 24 |
| St. Paul | 4 | | 4 |
| TOTAL | 74 | 1 | 75 |

Table 2. Monthly distribution of 74¹⁾ wolves taken in the 1976-77 wolf control program.

| Month | n |
|----------|----|
| July | 1 |
| October | 4 |
| November | - |
| December | 17 |
| January | 7 |
| February | 23 |
| March | 5 |
| April | 15 |
| May | 2 |
| TOTAL | 74 |

1) Kill date recorded on 74 of 75 carcasses.

Table 3. Numbers of wolves taken by region, sex and age in 1975-76 wolf control program.

| Age | Peace River | | Edson | | Calgary | | St. Paul | | Total | |
|-----|-------------|--------|-------|--------|---------|--------|----------|--------|-------|--------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| ½ | 6 | 12 | - | - | 6 | 4 | 2 | - | 14 | 16 |
| 1½ | 4 | 1 | - | 2 | 6 | 1 | 1 | 1 | 11 | 5 |
| 2½ | 4 | 1 | 1 | - | 3 | 1 | - | - | 8 | 2 |
| 3½ | - | 3 | - | - | 1 | 2 | - | - | 1 | 5 |
| 4½ | 2 | - | - | - | - | - | - | - | 2 | - |
| 5½ | 1 | 1 | - | - | - | - | - | - | 1 | 1 |
| 6½ | - | 2 | 1 | - | - | - | - | - | 1 | 2 |
| 7½ | - | 1 | - | 1 | - | - | - | - | - | 2 |
| | 17 | 21 | 2 | 3 | 16 | 8 | 3 | 1 | 38 | 33 |

1) Four skulls not submitted.

Table 4. Sex proportion of wolves taken in the 1976-77 wolf control program in Alberta, by age.

| Age | #Sexed | #Males | % Males | Significance ¹⁾ |
|-----------------|--------|--------|---------|----------------------------|
| $\frac{1}{2}$ | 30 | 14 | 46.7 | P < 0.80 |
| $1\frac{1}{2}$ | 16 | 11 | 68.8 | P < 0.30 |
| $2\frac{1}{2}+$ | 15 | 13 | 52.0 | P < 0.90 |
| TOTAL | 71 | 38 | 53.5 | P < 0.70 |

1) Simple chi-square.

Table 5. Age proportions (%) of wolves taken in the 1976-77 wolf control program in Alberta, by sex.

| Sex | n | Proportion (%) | | |
|--------|----|----------------|----------------|-----------------|
| | | $\frac{1}{2}$ | $1\frac{1}{2}$ | $2\frac{1}{2}+$ |
| Male | 38 | 36.8 | 28.9 | 34.2 |
| Female | 33 | 48.5 | 15.2 | 36.4 |
| Both | 71 | 42.3 | 22.5 | 35.2 |

Table 6. Numbers of embryos and corpora lutea of wolves taken in the 1976-77 wolf control program.

| | \bar{n} | r | \bar{x} |
|---------------|-----------|-----|-----------|
| Embryos | 2 | 5-6 | 5.5 |
| Corpora lutea | 10 | 4-8 | 6.5 |

Table 7. Contents of stomach of wolves taken in the 1976-77 wolf control program.

| Contents | Stomachs (n=66) ¹⁾ | | | |
|--------------------------|-------------------------------|--------------|--------------|--------------|
| | With bait | % | Without bait | % |
| Moose | 29 | 40.3 | 6 | 35.3 |
| Deer | 13 | 18.1 | 1 | 5.9 |
| Unidentified Cervid | 8 | 11.1 | 3 | 17.6 |
| Cattle | 5 | 6.9 | 2 | 11.8 |
| Beaver | 6 | 8.3 | | |
| Horse | 1 | 1.4 | 1 | 5.9 |
| Bird | 1 | 1.4 | 1 | 5.9 |
| Meat only | 6 | 8.3 | | |
| Vegetation ²⁾ | 3 | 4.2 | 3 | 17.6 |
| TOTAL | 72 | 100.0 | 17 | 100.0 |

1) Includes only stomachs with identifiable contents.

2) Only in significant amounts.

Table 8. Occurrence of dietary items in the small intestines and colons of wolves taken in the 1976-77 wolf control program.

| Dietary Items | Small Intestine (n=56) | | Colon (n=64) | | Both (n=3) ¹⁾ | |
|--------------------------|------------------------|--------------|---------------|--------------|--------------------------|--------------|
| | n Occurrences | % Occurrence | n Occurrences | % Occurrence | n Occurrences | % Occurrence |
| Moose | 20 | 31.7 | 20 | 27.0 | 1 | 20.0 |
| Deer | 9 | 14.3 | 11 | 14.9 | 1 | 20.0 |
| Unidentified Cervid | 5 | 7.9 | 6 | 8.1 | | |
| Cattle | 4 | 6.3 | 8 | 10.8 | 2 | 40.0 |
| Beaver | 1 | 1.6 | 2 | 2.7 | | |
| Horse | 2 | 3.2 | 5 | 6.8 | | |
| Hare | 1 | 1.6 | 2 | 2.7 | | |
| Bird | 1 | 1.6 | 3 | 4.1 | | |
| Vole | 1 | 1.6 | 2 | 2.7 | | |
| Wolf ²⁾ | 6 | 9.5 | 2 | 2.7 | | |
| Unknown | 2 | 3.2 | 2 | 2.7 | 1 | 20.0 |
| Vegetation ³⁾ | 11 | 17.5 | 11 | 14.9 | | |
| TOTAL | 63 | 100.0 | 74 | 100.1 | 5 | 100.0 |

1) Small intestine and colon contents not separated

2) Only amounts attributable to grooming

3) Only in significant amounts - usually grasses

Table 9. Incidence of mange in wolves in the 1976-77 wolf control program in Alberta, by Region.

| Region | Wolves Examined | With mange | % mange |
|-------------|-----------------|------------|---------|
| Peace River | 42 | - | - |
| Edson | 5 | 1 | 20.0 |
| Calgary | 24 | - | - |
| St. Paul | 4 | 1 | 25.0 |
| TOTAL | 75 | 2 | 2.7 |

Table 10. Incidence of mange in wolves in the 1976-77 wolf control program, by age.¹⁾

| Age | Wolves Examined | With mange | % with mange |
|----------------|-----------------|------------|--------------|
| $\frac{1}{2}$ | 30 | - | - |
| $1\frac{1}{2}$ | 16 | 2 | 12.5 |
| $2\frac{1}{2}$ | 25 | - | - |

1) Four skulls not submitted.

Table 11. Weight (gms) of xiphoid fat bodies in wolves taken in the 1976-77 wolf control program in Alberta.

| Cohort | n | r | \bar{x} |
|---|----|------------|-----------|
| Pups ($\frac{1}{2}$) | 30 | 37.5-250.0 | 118.4 |
| Yearlings ($1\frac{1}{2}$) | 16 | 55.5-272.2 | 155.2 |
| Adults ($2\frac{1}{2}+$) | 25 | 37.4-398.4 | 150.3 |
| Male Adults | 12 | 44.0-398.4 | 147.0 |
| Female Adults | 11 | 37.4-296.0 | 153.9 |
| With Mange (all ages and both sexes) | 2 | 67.4-206.5 | 136.9 |
| With Mange (Adults) | - | - | - |

Table 12. Primary color of wolves taken in the 1976-77 wolf control program in Alberta.

| Region | Proportion (%) | | | |
|-------------|------------------|-------|-------|-------|
| | n | Grey | Black | White |
| Peace River | 12 ¹⁾ | 66.7 | 33.3 | - |
| Edson | 4 ²⁾ | 75.0 | 25.0 | - |
| Calgary | 24 | 66.7 | 33.3 | - |
| St. Paul | 4 | 100.0 | - | - |
| TOTAL | 44 | 61.4 | 38.6 | |

1) Thirty wolves did not have color recorded.

2) One wolf did not have color recorded.

Table 13. Standard measurements¹⁾ of wolves taken in the 1976-77 wolf control program in Alberta, by sex and age.

| Age | Whole weight | | | Total length | | | Tail | | | Hind Foot | | |
|---------------|--------------|-----------|-----------|--------------|---------|-----------|------|-------|-----------|-----------|-------|-----------|
| | n | r | \bar{x} | n | r | \bar{x} | n | r | \bar{x} | n | r | \bar{x} |
| <u>Male</u> | | | | | | | | | | | | |
| ½ | 12 | 27.2-60.0 | 43.2 | 12 | 130-184 | 166.3 | 12 | 41-54 | 47.0 | 13 | 25-32 | 29.1 |
| 1½ | 11 | 45.0-65.0 | 51.9 | 9 | 167-193 | 179.2 | 9 | 42-52 | 46.9 | 10 | 28-34 | 30.9 |
| 2½+ | 11 | 35.9-68.0 | 51.7 | 8 | 169-185 | 176.1 | 8 | 40-51 | 46.4 | 10 | 28-33 | 30.9 |
| <u>Female</u> | | | | | | | | | | | | |
| ½ | 16 | 27.2-50.0 | 36.6 | 14 | 153-180 | 166.3 | 14 | 38-50 | 44.7 | 16 | 26-31 | 28.5 |
| 1½ | 3 | 34.5-55.0 | 42.2 | 2 | 162-165 | 163.5 | 2 | 45 | 45.0 | 3 | 27-28 | 27.5 |
| 2½+ | 10 | 35.4-60.0 | 48.2 | 8 | 157-173 | 166.3 | 9 | 39-51 | 43.6 | 10 | 26-31 | 28.6 |

1) In kilograms and centimeters.

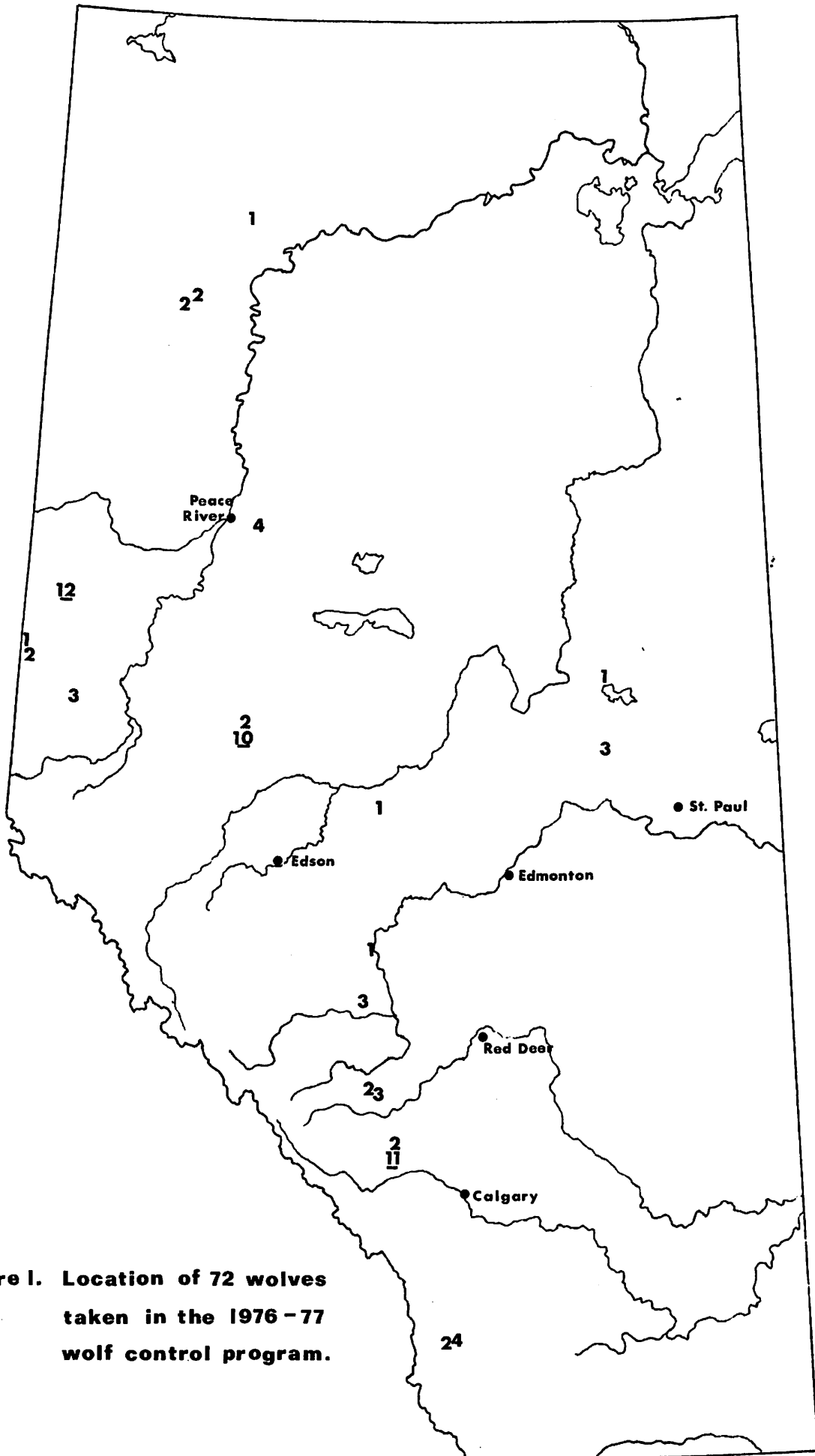


Figure 1. Location of 72 wolves taken in the 1976 - 77 wolf control program.

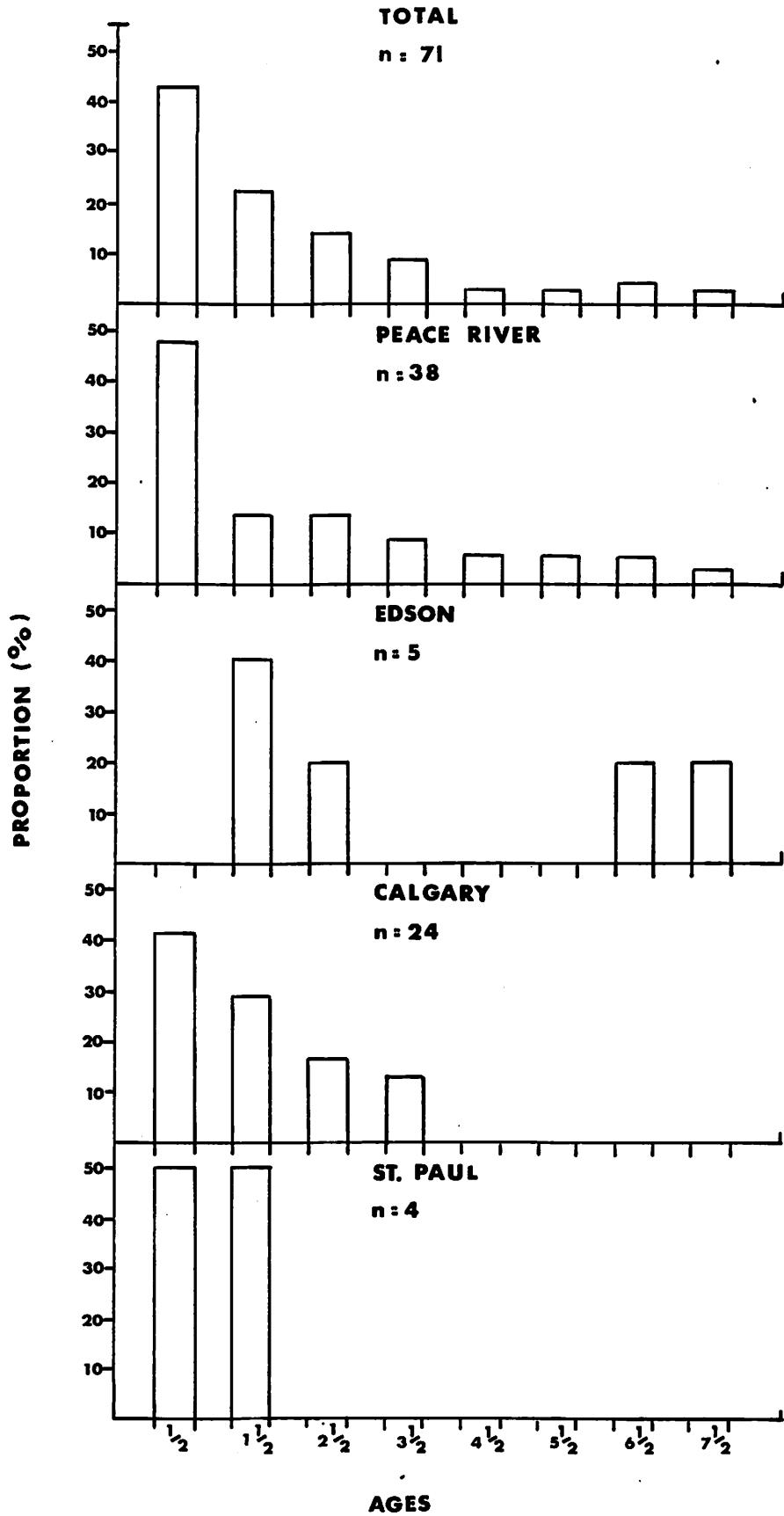


Figure 2. Age structure of wolves taken in the 1976-77 wolf control program.

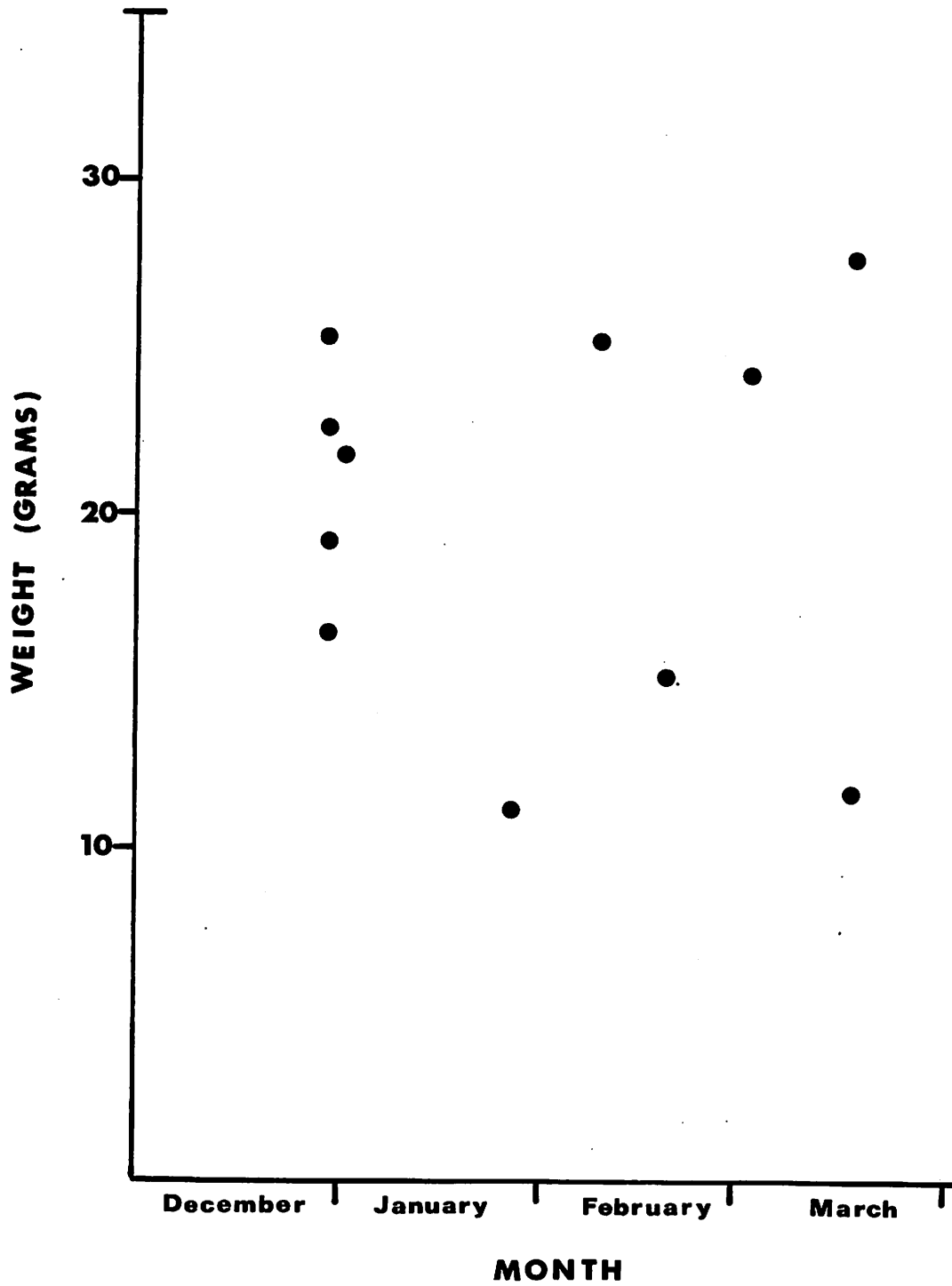


Figure 3. Mean testes weight (with epididymus) of 11 adult wolves taken in the 1976-77 wolf control program.

Appendix I. Continued

| Specimen number | Region | Location | Kill Date | Sex | Dental Age | Color | Weight in kilograms | Length Centimeters | Tail Centimeters | Hind Ft. | Xiphoid | Other |
|-----------------|-------------|---------------|-----------|-----|------------|-------|---------------------|-----------------------|---------------------|----------|---------|--------------------------------|
| W369627 | Calgary | Sec18-33-8-5 | 21/02/77 | M | 1½ | Grey | 47.7 | | | | 264.0 | Tapeworm |
| W369628 | Calgary | SW4-11-1-5 | 05/02/77 | M | ½ | Grey | 40.9 | 177.0 | 46.5 | 31.0 | 135.8 | Head damage |
| W369615 | Edson | SE9-58-12-5 | 31/12/76 | F | 7½ | Grey | - | | | | 211.0 | Diseased kidney |
| W369616 | Edson | SW7-41-10-5 | 26/01/77 | M | 6½ | Grey | - | | | | 398.4 | Tapeworm |
| W369617 | Edson | SW7-41-10-5 | 26/01/77 | F | 1½ | Black | - | | | | 104.2 | Eaten by predators |
| W369618 | Edson | SW7-41-10-5 | 26/01/77 | M | 2½ | Grey | - | | | | 220.9 | Tapeworm, broken leg |
| W369629 | St. Paul | NE21-69-15-4 | 03/77 | F | 1½ | Grey | - | | | | 135.7 | Tapeworm |
| W369630 | St. Paul | Sec29-63-15-4 | 29/03/77 | M | ½ | Grey | - | | | 24.5 | 161.6 | Broken rib |
| W369631 | St. Paul | Sec29-63-15-4 | 29/03/77 | M | ½ | Grey | - | | | | 206.5 | Mange, tapeworm, |
| W369632 | St. Paul | Sec29-63-15-4 | 03/77 | M | 1½ | Grey | 48.6 | 167.0 | 45.0 | 28.0 | 67.4 | Mange |
| W369633 | Peace River | E13-45-9-5 | 15/03/77 | F | 1½ | | 37.2 | 162.0 | 44.5 | 27.5 | 53.5 | Tapeworm |
| F77-172A | Peace River | N½11-83-19-5 | 14/10/76 | F | ½ | | 23.6 | 156.0 | 47.0 | 28.0 | 61.5 | Predator damage |
| F77-172B | Peace River | N½11-83-19-5 | 14/10/76 | M | ½ | | 27.2 | 155.0 | 43.0 | 26.0 | 70.8 | |
| F77-172C | Peace River | N½11-83-19-5 | 14/10/76 | M | ½ | | 33.6 | 151.0 | 41.0 | 27.0 | 83.9 | |
| F77-172D | Peace River | N½11-83-19-5 | 14/10/77 | F | ½ | | 30.4 | 147.0 | 44.0 | 26.0 | 71.5 | |
| F77-173 | Peace River | High Level | 31/07/76 | M | 2½ | | 35.9 | 169.0 | 46.0 | 28.0 | 120.3 | 3 claws missing |
| F77-213 | Peace River | Not Stated | | M | ½ | | 50.0 | 176.0 | 44.0 | 29.0 | 296.0 | Broken rib |
| F77-214A | Peace River | Sec13-102-1-6 | 06/01/77 | F | 5½ | | 50.4 | 168.0 | 42.0 | 30.0 | 169.3 | Broken rib |
| F77-214B | Peace River | Sec13-102-1-6 | 29/12/76 | F | 6½ | | 47.7 | | 43.0 | 28.0 | - | Trap wound |
| F77-215A | Peace River | NE15-67-9-6 | 31/12/76 | M | 2½ | | 54.9 | 176.0 | 44.0 | 31.5 | 194.2 | <u>Echinococcus granulosus</u> |
| F77-215B | Peace River | NE15-67-9-6 | 31/12/76 | M | ½ | | 44.0 | 177.0 | 54.0 | 28.0 | 189.0 | Predator damage |
| F77-215C | Peace River | NE15-67-9-6 | 31/12/76 | F | ½ | | 36.3 | 176.0 | 40.0 | 27.0 | | |

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Appendix I. Specifics of wolves taken by Alberta Fish and Wildlife in the 1976-77 wolf control program in Alberta.

| Specimen number | Region | Location | Kill Date | Sex | Dental Age | Color | Weight in Kilograms | Length | Tail | Hind Ft. | Xiphoid | Other |
|-----------------|---------|--------------|-----------|-----|------------|-------|---------------------|-------------|------|----------|---------|------------------------|
| | | | | | | | | Centimeters | | | | |
| W369601 | Calgary | Sec31-27-7-5 | 28/12/76 | M | 2½ | Black | 45.4 | | | 29.0 | 193.0 | Leg wound, tapeworm |
| W369602 | Calgary | Sec31-27-7-5 | 28/12/76 | M | 1½ | Black | 52.2 | | | 29.5 | 164.0 | Tapeworm, cracked ribs |
| W369603 | Calgary | Sec31-27-7-5 | 28/12/76 | M | 2½ | Black | 54.5 | | | 31.0 | 101.9 | Tapeworm |
| W369604 | Calgary | Sec31-27-7-5 | 28/12/76 | F | 1½ | Black | 34.5 | | | 27.0 | 55.5 | Small wolf |
| W369605 | Calgary | Sec31-27-7-5 | 28/12/76 | F | 3½+ | Grey | 35.4 | | | 28.0 | 68.4 | Small wolf, tapeworm |
| W369606 | Calgary | Sec31-27-7-5 | 28/12/76 | F | ½ | Black | 28.1 | | | 28.5 | 37.5 | Round & tapeworms |
| W369607 | Calgary | Sec31-27-7-5 | 28/12/76 | F | ½ | Grey | 27.2 | | | 26.0 | 38.8 | |
| W369608 | Calgary | Sec31-27-7-5 | 28/12/76 | M | 1½ | Grey | 52.2 | 180.0 | 41.9 | 34.3 | 172.5 | |
| W369609 | Calgary | Sec9-33-8-5 | 05/01/77 | M | 1½ | Black | 52.7 | 183.0 | 50.0 | 31.0 | 80.6 | Tapeworm |
| W369610 | Calgary | Sec9-33-8-5 | 05/01/77 | M | 1½ | Black | 53.6 | 177.0 | 48.0 | 31.0 | 99.2 | |
| W369611 | Calgary | Sec31-27-7-5 | 28/12/76 | M | 3½+ | Grey | 55.4 | 180.0 | 48.0 | 30.0 | 82.3 | Tapeworm |
| W369612 | Calgary | Sec9-33-8-5 | | M | 1½ | Grey | 53.6 | 170.0 | 48.0 | 30.0 | 183.0 | Tapeworm, cut foot |
| W369613 | Calgary | Sec31-27-7-5 | 28/12/76 | M | ½ | Black | 52.7 | 175.0 | 49.0 | 31.0 | 154.3 | Tapeworm |
| W369614 | Calgary | Sec31-27-7-5 | 28/12/76 | M | ½ | Grey | 39.0 | 155.0 | 46.0 | 30.0 | 75.4 | Tapeworm |
| W369619 | Calgary | Sec18-33-8-5 | 21/02/77 | F | 2½ | Grey | 38.6 | | | | 243.3 | Tapeworm |
| W369620 | Calgary | SW4-11-1-5 | 05/02/77 | F | ½ | Grey | 38.1 | 180.0 | 50.0 | 30.0 | 139.0 | |
| W369621 | Calgary | SW4-11-1-5 | 28/01/77 | M | ½ | Grey | 44.0 | 130.0 | 50.0 | 30.0 | 74.5 | Roundworms |
| W369622 | Calgary | Sec19-11-2-5 | 07/02/77 | F | ½ | Grey | 37.2 | 170.0 | 48.0 | 30.0 | 119.2 | |
| W369623 | Calgary | Sec9-28-7-5 | 09/02/77 | F | 3½ | Grey | 45.4 | 173.0 | 51.0 | 31.0 | 131.5 | Tapeworm |
| W369624 | Calgary | Sec19-11-2-5 | 07/02/77 | M | ½ | Grey | 42.7 | 175.0 | 50.0 | 32.0 | 96.5 | Tapeworm |
| W369625 | Calgary | Sec9-28-7-5 | 09/02/77 | M | 2½ | Grey | 50.0 | 172.0 | 51.0 | 32.0 | 120.5 | Tapeworm |
| W369626 | Calgary | SW4-11-1-5 | 05/02/77 | M | ½ | Grey | 39.0 | 170.0 | 46.0 | 30.0 | 177.7 | Roundworms |

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Appendix I. Continued

| Specimen number | Region | Location | Kill Date | Sex | Dental Age | Color | Weight in Kilograms | Length Centimeters | Tail Centimeters | Hind Ft. | Xiphoid | Other |
|-----------------|-------------|----------------|-----------|-----|------------|-------|---------------------|--------------------|------------------|----------|---------|----------|
| F77-293A | Peace River | NW12-76-10-6 | 18/02/77 | F | ½ | | 35.0 | 175.0 | 49.0 | 30.0 | 90.0 | |
| F77-293B | Peace River | NW12-76-10-6 | 18/02/77 | F | ½ | | 37.0 | 170.0 | 45.0 | 28.0 | 150.0 | |
| F77-293C | Peace River | NW12-76-10-6 | 18/02/77 | M | 2½ | | 50.0 | 185.0 | 50.0 | 31.0 | 140.0 | |
| F77-293D | Peace River | NW12-76-10-6 | 18/02/77 | M | ½ | | 45.0 | 184.0 | 51.0 | 30.0 | 250.0 | |
| F77-327A | Peace River | Not Stated | 28/02/77 | F | 6½ | | 59.0 | 169.0 | 45.0 | 29.0 | 149.2 | |
| F77-327B | Peace River | Not Stated | 28/02/77 | F | 1½ | | 55.0 | 165.0 | 45.0 | 28.0 | 169.3 | |
| F77-333A | Peace River | S½16-65-20-5 | 28/02/77 | M | 1½ | Black | 65.0 | 177.0 | 43.0 | 31.0 | 93.2 | |
| F77-333B | Peace River | S½16-65-20-5 | 28/02/77 | M | ½ | Black | 60.0 | 171.0 | 44.0 | 30.0 | 92.2 | Tapeworm |
| F77-333C | Peace River | S½16-65-20-5 | 28/02/77 | F | 3½ | Black | 60.0 | 167.0 | 44.0 | 30.0 | 37.4 | |
| F77-333D | Peace River | S½16-65-20-5 | 28/02/77 | M | 4½ | Black | 68.0 | 172.0 | 40.0 | 32.0 | 44.0 | |
| F77-333E | Peace River | S½16-65-20-5 | 28/02/77 | F | ½ | Black | 50.0 | 167.0 | 42.0 | 28.0 | 118.5 | Tapeworm |
| F77-333F | Peace River | S½16-65-20-5 | 28/02/77 | F | ½ | Grey | 50.0 | 159.0 | 41.0 | 27.0 | 99.5 | Tapeworm |
| F77-333G | Peace River | S½16-65-20-5 | 28/02/77 | F | 3½ | Grey | 50.0 | 157.0 | 39.0 | 26.0 | - | Tapeworm |
| F77-333H | Peace River | S½16-65-20-5 | 28/02/77 | F | 7½ | Grey | 50.0 | 159.0 | 40.0 | 27.0 | 45.7 | |
| F77-333I | Peace River | S½16-65-20-5 | 28/02/77 | F | ½ | Black | 45.0 | 153.0 | 38.0 | 29.0 | 59.5 | |
| F77-355A | Peace River | NE21-65-20-5 | 02/03/77 | F | ½ | Grey | 32.0 | 175.0 | 45.0 | 30.0 | 58.0 | |
| F77-355B | Peace River | NE21-65-20-5 | 02/03/77 | M | 4½ | Black | 55.0 | | | | 56.8 | |
| F77-402 | Peace River | NW35-71-13-6 | 09/03/77 | F | 3½ | | - | 169.0 | 44.0 | 27.0 | 110.6 | Tapeworm |
| F77-435A | Peace River | Sec11-102-24-5 | 16/03/77 | F | | | 45.0 | 163.0 | 46.0 | 28.0 | 150.0 | Pregnant |
| F77-435B | Peace River | Sec11-102-24-5 | 16/03/77 | M | 2½ | | 50.0 | 175.0 | 44.0 | 31.0 | 128.0 | |

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Appendix I. Continued

| Specimen number | Region | Location | Kill Date | Sex | Dental Age | Color | Weight in Kilograms | Length Centimeters | Tail Centimeters | Hind Ft. | Xiphoid | Other |
|-----------------|-------------|---------------|-----------|-----|------------|-------|---------------------|--------------------|------------------|----------|---------|------------|
| F77-435C | Peace River | S½16-65-20-5 | 07/03/77 | F | ½ | Black | 35.0 | 163.0 | 46.0 | 27.0 | 106.1 | |
| F77-437A | Peace River | NW12-76-10-6 | 16/03/77 | M | | | 50.0 | 186.0 | 44.0 | 30.0 | 175.0 | |
| F77-437B | Peace River | NW12-76-10-6 | 16/03/77 | F | ½ | | 35.0 | 173.0 | 45.0 | 30.0 | 204.0 | Tapeworm |
| F77-437C | Peace River | NW12-76-10-6 | 16/03/77 | M | 1½ | | 50.0 | 183.0 | 48.0 | 31.0 | 201.5 | |
| F77-437D | Peace River | NW12-76-10-6 | 16/03/77 | F | 2½ | | 45.0 | 168.0 | 44.0 | 30.0 | 230.4 | Pregnant |
| F77-437E | Peace River | NW12-76-10-6 | 16/03/77 | M | 5½ | | 50.0 | 180.0 | 48.0 | 33.0 | 206.7 | Tapeworm |
| F77-437F | Peace River | NW12-76-10-6 | 16/03/77 | M | 1½ | | 50.0 | 183.0 | 47.0 | 31.0 | 215.1 | |
| F77-437G | Peace River | NW12-76-10-6 | 16/03/77 | F | ½ | | 45.0 | 164.0 | 46.0 | 31.0 | 159.7 | Tapeworm |
| F77-437H | Peace River | NW12-76-10-6 | 16/03/77 | M | 1½ | | 45.0 | 193.0 | 52.0 | 32.0 | 272.2 | Tapeworm |
| F77-541A | Peace River | Sec19-70-13W6 | 02/04/77 | M | | | 50.0 | 183.0 | 50.0 | 33.0 | 200.0 | |
| F77-541B | Peace River | Sec19-70-13W6 | 02/04/77 | M | | | 55.0 | 173.0 | 47.0 | 30.0 | 178.2 | Broken rib |