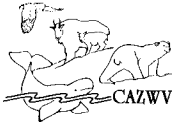




Appendix A – Drug Dosages



Recommended Dosages for Canadian Ungulates

	Xylazine/ketamine mg/kg : mg/kg	Xylazine/Telazol™ mg/kg : mg/kg	Carfentanil/xylazine µg/kg : mg/kg	Other combinations
Bison	N R	2 : 3	4 : 0.1	Medetomidine 70 µg/kg + Telazol 2.5 mg/kg
Moose	2 : 4		6 : 0.2	Medetomidine 60 µg/kg + Ketamine 1.5 mg/kg
Elk	2 : 4	1.5 : 3	10 : 0.1	Medetomidine 70 µg/kg + Ketamine 2 mg/kg
White tailed Deer	1 : 5	2 : 4	10 : 0.1	Medetomidine 100 µg/kg + Ketamine 2 mg/kg
Mule Deer	2 : 6	2 : 4	10 : 0.1	Medetomidine 100 µg/kg + Ketamine 2 mg/kg
Woodland Caribou	2 : 6	2 : 4 (S)	12 : 0.2	Medetomidine 200 µg/kg + Ketamine 2 mg/kg
B.grounds Caribou	2 : 6	2 : 4 (S)	10 : 0.2	Medetomidine 200 µg/kg + Ketamine 2 mg/kg
Pronghorn	N R	4 : 8 (a)	50 : 1 (b)	
Mountain Goat		1.5 : 3	25 : 0.2	
Bighorn, Dall, Stone Sheep		1.5 : 3	44 : 0.2 (b)	
Muskox		1.5 : 3 (b)	Etorphine .0125 mg/kg + Xylazine 0.1 mg/kg	Medetomidine 100 µg/kg + Ketamine 2 mg/kg

NR: Not recommended in this species.

S: This is a suggested dosage for this species. However, it has not been tested in this species and is extrapolated from experience with other drug combinations.

a) Drug has produced light immobilization in captive pronghorns. May not be effective in wild pronghorn.

b) Dosage taken from: Kreeger T.J. (ed). Handbook of Wildlife Chemical Immobilization 1999, Wildlife Pharmaceuticals, Fort Collins, USA

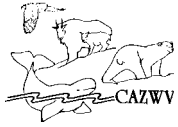
Recommended Dosages for Canadian Carnivores

	Telazol™ mg/kg	Xylazine/Telazol™ mg/kg : mg/kg	Xylazine/ketamine mg/kg : mg/kg	Other combinations
Black Bear	6	2 : 3	2 : 5	Medetomidine 50 µg/kg + Telazol 1.8 mg/kg
Grizzly Bear	8	2 : 3	NR	Medetomidine 70 µg/kg + Telazol 2.4 mg/kg
Polar Bear	8	2 : 3	NR	Medetomidine 70 µg/kg + Telazol 2.4 mg/kg (S)
Timber wolf	5	2 : 4	1 : 5	
Coyote	10	2 : 4 (S)	2 : 8	
Red Fox	10	2 : 4 (S)	2 : 10	Midazolam 0.3 mg/kg + ketamine 10 mg/kg
Gray Fox	10	2 : 4 (S)	2 : 10	Midazolam 0.3 mg/kg + ketamine 10 mg/kg (S)
Swift Fox	10	2 : 4 (S)	2 : 10	Midazolam 0.3 mg/kg + ketamine 15 mg/kg
Arctic Fox	10	2 : 4 (S)	2 : 10	Midazolam 0.3 mg/kg + ketamine 15 mg/kg (S)
Cougar	6	2 : 3 (S)	2 : 8	Medetomidine 75 µg/kg + ketamine 2 mg/kg
Lynx	6	2 : 4 (S)	2 : 10	Midazolam 0.3 mg/kg + ketamine 8 mg/kg
Bobcat	10	2 : 4 (S)	2 : 10	Midazolam 0.3 mg/kg + ketamine 10 mg/kg
Raccoon	12	3 : 6 (S)	3 : 15	Midazolam 0.5 mg/kg + ketamine 15 mg/kg (S)
Skunk	10	2 : 4 (S)	2 : 10	Midazolam 0.3 mg/kg + ketamine 10 mg/kg (S)
Wolverine	6	2 : 3 (S)	2 : 8	
Badger	6	2 : 3 (S)	2 : 10	Midazolam 0.3 mg/kg + ketamine 10 mg/kg
River Otter	6	2 : 3 (S)	1.5 : 8	Midazolam 0.3 mg/kg + ketamine 10 mg/kg
Fisher	12	3 : 6 (S)	3 : 15	Midazolam 0.5 mg/kg + ketamine 15 mg/kg (S)
Marten & Mink	15	3 : 6 (S)	3 : 15	Midazolam 0.5 mg/kg + ketamine 20 mg/kg (S)

NR: Not recommended in this species.

S: This is a suggested dosage for this species. However, it has not been tested in this species and is extrapolated from experience with other drug combinations.

Drug Volume Table for Representative Mammals Occurring Across Canada



Appendix A – Dosages

Species	Cougar, Lynx, Wolf, Wolverine, & Black Bear	Fox, Coyote, Grizzly Bear, & Polar Bear	Moose, Elk, Deer (White-tailed and Mule), Bighorn Sheep, Mountain Goat, & Wolf		Caribou, Bison, & Bears (Black, Grizzly, and Polar)		Reversal of XZT Immobilization		
Drug	Telazol		Xylazine (X) -Telazol (ZT) at 1:2 ratio		Xylazine-Telazol at 2:3 ratio		Yohimbine	Tolazoline	
Formulation	1.8 ml sterile water per vial of Telazol		2.5 ml xylazine ^a (@ 100 mg/ml) per vial of Telazol	0.8 ml xylazine ^a (@ 300 mg/ml) + 1.3 ml sterile water per vial of Telazol	3.3 ml xylazine ^a (@ 100 mg/ml) per vial of Telazol	1.1 ml xylazine ^a (@ 300 mg/ml) + 1.0 ml sterile water per vial of Telazol	20 ml per vial Antagonil®	100 ml per vial Tolazine®	
Concentration	225 mg/ml		260 mg/ml	300 mg/ml	225 mg/ml	330 mg/ml	5 mg/ml	100 mg/ml	
Dosage	6 – 8 mg/kg	8 – 10 mg/kg	1.5 - 2.0 mg/kg X + 3.0 - 4.0 mg/kg ZT		2.0 - 2.8 mg/kg X + 3.0 - 4.2 mg/kg ZT		0.2 mg/kg	2.5 mg/kg	
Body Weight		Volume (ml)							
kg	lb								
5	11	0.1 - 0.2	0.2	0.1	0.1	0.1 - 0.2	0.1	0.2	0.1
10	22	0.3 - 0.4	0.4	0.2	0.2	0.2 - 0.3	0.2	0.4	0.3
20	44	0.5 - 0.7	0.7 - 0.9	0.4 - 0.5	0.3 - 0.4	0.4 - 0.6	0.3 - 0.4	0.8	0.5
30	66	0.8 - 1.1	1.1 - 1.3	0.5 - 0.7	0.5 - 0.6	0.7 - 0.9	0.5 - 0.6	1.2	0.8
40	88	1.1 - 1.4	1.4 - 1.8	0.7 - 0.9	0.6 - 0.8	0.9 - 1.2	0.6 - 0.9	1.6	1.0
50	110	1.3 - 1.8	1.8 - 2.2	0.9 - 1.2	0.8 - 1.0	1.1 - 1.6	0.8 - 1.1	2.0	1.3
75	165	2.0 - 2.7	2.7 - 3.3	1.3 - 1.7	1.1 - 1.5	1.7 - 2.3	1.1 - 1.6	3.0	1.9
100	221	2.7 - 3.6	3.6 - 4.4	1.7 - 2.3	1.5 - 2.0	2.2 - 3.1	1.5 - 2.1	4.0	2.5
200	441	5.3 - 7.1	7.1 - 8.9	3.5 - 4.6	3.0 - 4.0	4.4 - 6.2	3.0 - 4.2	8.0	5.0
300	662	8.0 - 10.7	10.7 - 13.3	5.2 - 6.9	4.5 - 6.0	6.7 - 9.3	4.6 - 6.4	12.0	7.5
400	882	10.7 - 14.2	14.2 - 17.8	6.9 - 9.2	6.0 - 8.0	8.9 - 12.4	6.0 - 8.5	16.0	10.0
500	1103	13.3 - 17.8	17.8 - 22.2	8.7 - 11.5	7.5 - 10.0	11.1 - 15.6	7.6 - 10.6	20.0	12.5
600	1323	16.0 - 21.3	21.3 - 26.7	10.4 - 13.9	9.0 - 12.0	13.3 - 18.7	9.1 - 12.7	24.0	15.0
700	1544	18.7 - 24.9	24.9 - 31.1	12.1 - 16.2	10.5 - 14.0	15.6 - 21.8	10.6 - 14.9	28.0	17.5

^a Xylazine sold at 100mg/ml as Rompun®, and at 300 mg/ml as Cervizine 300®.