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HERBIVORE OPTIMAL FORAGING

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TABLE 1
SUMMARY OF THE DATA USED TO SOLVE THE SH, CLUE, AND LP MODELS
FOR THE FOUR HERBIVORE DATA SETS

	<i>Microtus</i> ^a Dry Site	<i>Microtus</i> ^a Wet Site	Kudu ^b	Moose ^c
Digestible energy (kcal)				...*
t_i (min/g)				
Grass				...
Forbs				...
Herbs (grass + forbs) ...				.09
Shrub leaves				...
Aquatics				.04
Terrestrial (herbs + shrub leaves)				.054
s (m ² /min)				16.6
Digestive capacity (g-wet/day)				32900.0
Food bulk (g-wet/g-dry)				
Grass				...
Forb				...
Herbs (grass + forbs) ...				4.4
Shrub leaves				...
Aquatics				20.0
Terrestrial (herbs + shrub leaves)				4.04
Foraging time (min/day)				
Predicted				
Observed				
Cropping rate (min/g)				
Grass				...
Forb				...
Herb (grass + forbs) ...				.12
Shrub leaves				...
Aquatics				.05
Terrestrial (herbs + shrub leaves)				.065
Energy requirements (kcal/day)				14000.0
Energy content (kcal/g)				
Grass				...
Forb				...
Herbs (grass + forbs) ...				4.1
Shrub leaves				...
Aquatics				3.8
Terrestrial (herbs + shrub leaves)				4.25

* Nonapplicable values.

^a This study.

^b Owen-Smith 1979; Owen-Smith and Novellie 1982.

^c Belovsky 1978.

^d From similar-sized ruminants, Belovsky, MS.

^e Belovsky 1978.

^f 140W⁷⁵, Moen 1973.

^g Only 43 min used because of digestive capacity limitations, Belovsky 1981b.