

THE BIOLOGY AND MANAGEMENT OF WILD RUMINANTS

CHAPTER NINETEEN

POPULATION RATES AND PREDICTIONS

by

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The designations of seasons represent time periods that coincide with biological functions and range conditions. They are:

- PHUP: prehunt population.
- HUNT: the period in the fall when the hunting season is open.
- PWNP: prewinter population.
- WNTR: the period following the hunt when winter conditions prevail.
- PSPP: prespring population.
- SPNG: the period when winter conditions have waned and new plant growth begins. The last third of gestation.
- PSUP: presummer population.
- SUMR: the period following parturition and through weaning.
- PFAP: prefall population.
- FALL: the period of weight recovery following weaning of the young and up to the hunt.

JDAYs marking the beginnings and ends of these periods vary between species, places, and years.

Population predictions are only as accurate as the natality and mortality data entered into the equations, of course. The demonstrated ease with which populations may be predicted mathematically should encourage field biologists to collect the best natality and mortality information possible. Once collected, the use of the data for predicting populations is very simple with the WORKSHEETS described here.

REFERENCES, CHAPTER 19

POPULATION RATES AND PREDICTIONS

BOOKS

TYPE	PUBL	CITY	PGES	ANIM	KEY WORDS-----	AUTHORS/EDITORS--	YEAR
edbo	olbo	edsc	152		numbers of man and animals	cragg,jb,ed; piri	1955
aubo	meth	loen	191		uniqueness of the individu	medawar,pb	1957
aubo	dove	ny ny	291		genetc theory of nat selec	fisher,ra	1958
aubo	uchp	chil	281		intro to study of anim pop	andrewartha,hg	1961
edbo	wiso	wadc	419		wildlf invest tech, 2nd ed	mosby,hs,ed	1963
edbo	saco	phpa	388		readin in pop, commun ecol	hazen,we,ed	1964
aubo	amel	ny ny	183		quantitv and dynam ecology	kershaw,ka	1964
aubo	jwis	ny ny	200		the biology of populations	macarthur,rh; con	1966
aubo	prup	prnj	307		adaptation and natur selec	williams,gc	1966
aubo	isup	amia	277		of predation and life	errington,pl	1967
edbo	blsp	oxen	308	herb	study of produc lg herbivs	golley,fb,ed; bue	1968
aubo	acpr	loen		herb	ecol cond aff prod, grassl	de vos,a	1969
aubo	meth	loen	231	mamm	ecol reprod, wild & domest	sadleir,rmfs	1969
edbo	oost	neth	611		dynam of numb in pop, proc	boer,pjd,ed; gra/	1970
edbo	umpr	aami	207		pred contrl, report to ceq	cain,sa,ed	1971
edbo	acpr	loen	358		applied biology, volume 1	cosher,th,ed	1976
edbo	ualb	edal	714		high arctc ecosystem, canad	bliss,lc,ed	1977
aubo	whfr	sfca	416		wildlife management	giles,rh,jr	1978
aubo	utnp	knte	186		guide to stud, anim popula	tanner,jt	1978