

TOPIC 1. POLITICALLY-DEFINED LAND AREAS

Management of wild ruminant habitats may be done to different extents on areas with different political histories and boundaries. In the United States, state governments have jurisdiction over wildlife resources, except for endangered species. Then, the federal government has jurisdiction.

States, provinces, and countries make up the land areas within which habitat management decisions are made. Laws govern these areas, regulating not only what can be done on land areas within political units but also the extent of land areas that may be set aside for habitat management.

Wildlife refuges and management areas may be set aside within states, provinces, and countries for the primary purpose of enhancing wildlife populations. These may have species priorities, in which case habitat manipulation for a species or group may be extensive. Parks are often considered to be rich in wildlife, but scenic priorities may be higher than any species priorities, in which case little or no habitat management may be done. This sometimes results in depressed wildlife populations.

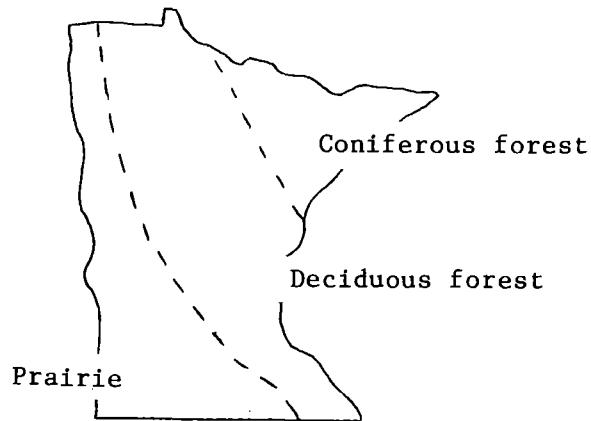
Some land areas may not be set aside as a management area, a refuge, or park, but still may be the basis for identifying a herd. Topographical features--the Edwards Plateau in Texas, for example--are often the basis for such land area designations.

The two UNITS which follow include brief discussions of habitat manipulations in states and provinces (UNIT 1.1) and countries (UNIT 1.2). This breakdown is made to accomodate the literature; articles often describe wildlife management in particular states, provinces, or countries, and those papers end up in these two UNITS. References describing habitat manipulations and management may also be found in other TOPICS and UNITS.

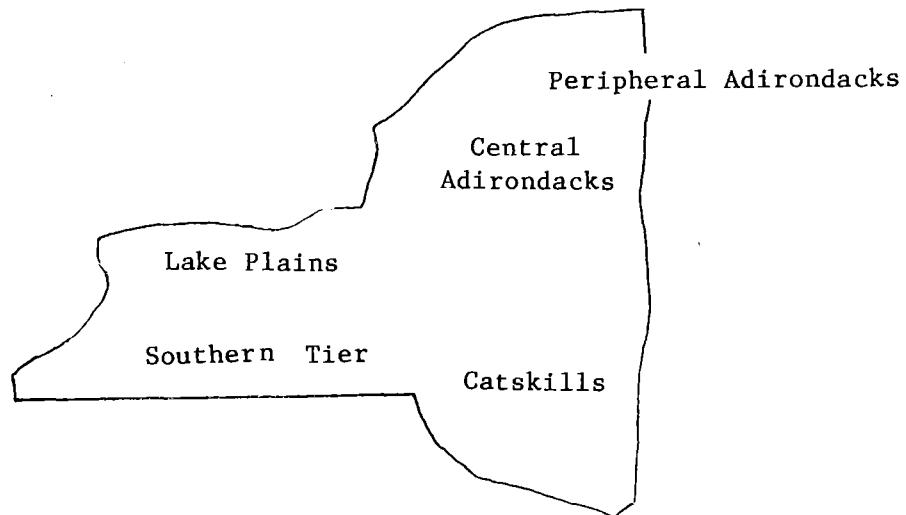
UNIT 1.1: STATES AND PROVINCES

Habitats and habitat management practices are different in the different states and provinces in North America. Similarities exist within regions, such as the Lake States (Minnesota, Wisconsin, Michigan), the Northeast (New York, Massachusetts, Vermont, New Hampshire, Maine, and others), the Southeast (Florida, Georgia . . .), Pacific Northwest (Washington, Oregon . . .), prairie provinces (Alberta, Saskatchewan, Manitoba . . .), etc. There are differences within many of these states and

provinces, however. Minnesota, for example, includes three major habitat types--prairie, deciduous forest, and coniferous forest--as illustrated below.



New York State has five major regions--Central Adirondacks, Peripheral Adirondacks, Catskills, Southern Tier, and Lake Plains.



Differences in these habitat types and land formations result in different priorities for resource allocation. The fertile prairies of western Minnesota are used primarily for agricultural purposes, and deer production is not as high as it could be if wildlife, rather than agriculture, were the top priority.

Agricultural states, such as Ohio, are often short of winter cover, but little can be done to promote large-scale plantings because agriculture is a higher priority. In areas where agriculture is less productive, forest acreages are increasing. In time, abandoned old fields will be forested, with the loss of important highly productive sources of herbaceous forage (Nixon *et al.* 1970). They recommend that a minimum of 10% of each 1500-acre forested unit on public hunting areas where deer management is important be maintained as old fields, and suggest that controlled burns would be an effective management tool.

It is interesting to note the concern over successional trends in Ohio. Deer are often thought of as forest animals, but too much forest is not the best habitat for white-tailed deer. They are much more adaptable than some other species of wild ruminants. The habitat requirements of pronghorn are much more specific than those of white-tailed deer. States having large areas of open habitats are the only candidates for pronghorn populations.

LITERATURE CITED

Nixon, C. M., M. W. McClain, and K. R. Russell. 1970. Deer food habits and range characteristics in Ohio. *J. Wildl. Manage.* 34(4):870-886.

REFERENCES, UNIT 1.1

STATES AND PROVINCES

BOOKS

TYPE	PUBL	CITY PGES	ANIM KEY WORDS-----	AUTHORS/EDITORS--	YEAR
edbo	acpr	nyny 541	odvi manag of wetlands, hab imp wiley,m		1976
aubo	nmgf	sfnm 212	wldl new mexico, cons and manag ligon,js		1927
aubo	naus	nyny 96	wldl wildlf habitat improvement shomon,jj; ashba/	1969	
aubo	ropr	nyny 129	wldl wldlf,alaska/an ecol recon starker,as; darli	1953	
edbo	mfgd	hemt 238	game game management in montana mussehl,tw; howel		1971

SERIALS

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
BNMFD 5---- 1 41 od-- deer of new mexico	lang,em	1957

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
ALCNA 15--8 8 odvi white-tails in alabama	moore,gc	1944
ALCNA 31--3 8 9 odvi alabam has deer & problems	lueth,fx	1959
CNBUA 348-- 1 16 odvi deer herd, land owner,conn	mcdowell,rd; bens	1960
ICNSA 12--1 97, 102 odvi iowa deer problem & solutn	harlan,jr	1953
JFUSA 71-12 752 757 odvi manag hab, loblol-short le	halls,mk	1973
JWMAA 32--2 321 329 odvi brush vs clear rang, texas	davis,rb; winkler	1968
JWMAA 5---2 182 190 odvi study, edwards plateau, tx	sanders,e	1941
JWMAA 11--3 263 266 odvi huron mount deer hrд, mich	manville,rh	1947
JWMAA 12--4 428 432 odvi management of georgia deer	allen,gw	1948
JWMAA 34--4 870 886 odvi food hab, rang char in ohi	nixon,cm; mcclai/	1970
MOCOA 13-10 1,3 12 odvi some prosp on deer, missou	robb,d	1952
MRYCA 19--3 6 8 odvi worcester county deer herd	wilson,ka; vaughn	1942
MRYCA 36--2 23 25 odvi maryland new deer citizens	flyger,vf	1959
MRYCA 43--2 1A 8A odvi maryland deer report, 1965	rubelman,r	1966

odvi continued on the next page

CODEN	VO-NU	BEPA	ENPA	ANIM	KEY WORDS-----	AUTHORS-----	YEAR
NAWTA	4----	257	267	odvi	management in s east ohio chapman,fb		1939
NAWTA	22---	412	424	odvi	wld turkey, manage habitat davison,ve; graet		1957
NAWTA	22---	501	519	odvi	exprmntl deer yrd mgt, n h laramie,ha,jr; do		1957
NAWTA	42---	278	285	odvi	mainten urbn herd winnipeg shoesmith,mw; koo		1977
NFGJA	3---2	129	167	odvi	history of wtd in new york severinghaus,cw;/		1956
NYCOA	2---3	6	7	odvi	the whitetail in new york skiff,jv		1947
NYCOA	8---1	22	23	odvi	mgt problem in southern ny cheatum,el		1953
PCGFA	12---	213	224	odvi	the tensas deer herd brunett,le		1959
PIAIA	72---	207	217	odvi	status & managemnt in iowa kline,pd		1965
PMACA	14---	odvi	deer yards, uppr pen, mich wakeman,mc		1933
RRFBA	19---	66	75	odvi	status of wtd in tennessee schultz,v		1955
RWLBA	6---2	161	325	odvi	w-t deer of the adirondcks townsend,mt; smit		1933
TNWSD	10---1	1	20	odvi	from bucks to deer, w virg degarmo,wr		1952
TNWSD	10---1		17	odvi	aspects of herd in new jer sweet,jc; wright,		1952
WSCBA	14--4	3	6	odvi	deer management in minneso blair,fd		1949
WSCBA	33--5	10	11	odvi	made to order deer range botwinske,ca		1968
XFNCA	39---	19	22	odvi	midwestern deer habitat crawford,hs,jr		1970

CODEN	VO-NU	BEPA	ENPA	ANIM	KEY WORDS-----	AUTHORS-----	YEAR
CAFGA	26--2	139	166	odhe	deer of calif, ref mule de mclean,dd		1940
CAFGA	36--1	27	52	odhe	prog rpt, interstat, calif interstate deer herd committee		1950
CAFGA	40--3	235	266	odhe	prog rpt,devils garden,cal interstate deer h		1954
JWMAA	24--3	265	271	odhe	cassia herd of sthrn idaho mcconnell,br; dal		1960
NAWTA	3----	368	375	odhe	mngmnt, kaibab plat, arizo boone,rp		1938
NAWTA	20---	568	588	odhe	brushlands, arizona, influ hanson,wr; mccull		1955
PORSA	9....	1	15	odhe	envir probl of cent oregon eshelman,w; nolf,		1973
SALKA	4----	182	186	odhe	distributn, biga in alaska olson,st		1953
XFRMA	91---	1	28	odhe	odvi, class habit pond pin thilenius,jf		1972

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
BNMFD 8---- 1	33	ceel elk of new mexico		lang,em	1958
JWMAA 24--1 15	21	ceel roosevelt elk, afognak isl	troyer,wa		1960

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
NAWTA 18--- 539	552	alal progr, mgt, s centr alaska	spencer,dl; chate		1953
NAWTA 18--- 553	560	alal rata, eff land use, alaska	leopold,as; darli		1953
NCANA 101-3 657	671	alal some aspects of man, newfo	mercier,we; manuel		1974
NCANA 101-3 673	687	alal manage in ontario, 1948-73	cumming,hg		1974
NCANA 101-3 705	721	alal moose management in alaska	rausch,ra; somer/		1974
ORYXA 2---5 280	285	alal rata, caribou, reind,	alas darling,ff		1954
WSCBA 33--2 18	20	alal bulls and hat racks, wisco	hartman,gf		1968

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
JOMAA 32--3 329	337	rata status, woodlnd cari,	ontar de vos,a; peterso		1951
JWMAA 11--3 283	284	rata woodland caribo, minnesota	nelson,uc		1947
JWMAA 31--4 621	642	rata manageme of labrador carib	bergerud,at		1967
OFWRA 4---4 3	8	rata woodlnd caribou in ontario	simkin,dw		1965

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
NAWTA 8---- 117	122	anam wyom, hist and wartime	mgt allred,wj		1943

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
bibi					

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
IGWBA 1---- 1	154	ovca statu, lif hist, mgt,	idah smith,dr		1954
JOMAA 20--4 440	455	ovca the bighorn sheep of texas	davis,wb; taylor,	1939	
JOMAA 25--4 364	367	ovca hist, statu in s c new mex	halloran,af	1944	
NAWTA 4---- 253	256	ovca ecol, mngmnt, mt rang,	nev allen,jc		1939

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
NAWTA 15--- 612 625 ovda rata, status in alaska scott,rf; chatel/ 1950

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
JWMAA 34--1 1 15 obmo muskox, nunivak isl, alask spencer,d1; lensi 1970

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
IGWBA 2---- 1 142 oram life history, mgtmt, idaho brandborg,sm 1955
NAWTA 34--- 409 418 oram the mountn goat in colorad hibbs,d; glover,/ 1969

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
FNQBA 16... 1 48 many integrated man, fauna, for potvin,f 1975
TRVIA 108-- 181 202 many mngmnt, land use, u states petrides,ga 1961

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
ANKIA 55--6 170 174 wldl what's happening in alaska darling,ff; leopo 1952
FRCRA 27--4 330 334 wldl forest wldl prob, n brnswk wright,bs 1951
JFUSA 38--1 27 30 wldl mgmt south jersey pine bar moore,eb 1940
JFUSA 41-11 792 797 biga multiple land use in utah olsen,o 1943
JFUSA 48-10 700 702 wldl cooperative mana, virginia mosby,hs 1950
JFUSA 52--2 137 138 wldl wildlife in alaska[review] presnall,cc 1954
JWMAA 5---4 357 370 biga early histori rec, montana koch,e 1941
JWMAA 13--4 392 411 biga biga management, colorado hunter,gn; yeager 1949
NAWTA 1---- 365 368 ---- penn's field game investig gerstell,r 1936
NAWTA 24--- 472 479 biga mangmnt in the lake states ruhl,hd 1959
NMWIA 13... 10 11 ---- we did the impossible! barker,es 1968
XAMPA 1147 1 220 wldl range, wildl hab evaluatio paulsen,ha,jr; r/ 1970

CHAPTER 21, Worksheet 1.1a

Major vegetation types or ecological zones
in the different states and provinces

Native vegetation types present are dependent on soil and weather factors. Sketch your state or province in the space below and draw in the native vegetation types. Use this as base-line information when considering habitat management practices.

UNIT 1.2: COUNTRIES

This UNIT on habitat management in different countries is included here in order to provide a place for papers describing the management of wild ruminants in areas other than North America. The centuries-old and intensive management practices in Europe will provide insights into future management in at least some areas of North America.

Also, general papers describing management in the United States and Canada are included here rather than in the previous unit on states and provinces.

REFERENCES, UNIT 1.2

COUNTRIES

SERIALS

CODEN	VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
JFUSA 34--5	460 466 cerv deer and dauerwald,germany	leopold,a	1936
JWMAA 21--2	221 225 cerv account, deer in australia	bentley,a	1957

CODEN	VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
XDAFA 330..	1 20 od deer farming in the u s	USDA	1908

CODEN	VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
NAWTA 14---	543 553 odvi white-ta deer, u s, canada	bartlett,ih	1949
SRBSB 8---1	403 412 odvi effective effort, nat prot	kirk,g	1976

CODEN	VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
	odhe		

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
JOMAA 51--3	611	614	ceel c elaphus in southrn tibet	caughley,g	1970
NZJFA 8---2	293	324	ceel establish rang, tararua mt	davidson,mm; kean	1960
NZTBA 36...	429	463	ceel conditn, ecol, mngrmnt, n z	riney,ta	1955
SFORA 21--1	15	18	ceel mangmnt, control, scotland	macnally,l	1967
TRVIA 108-1	9	40	ceel hist, status, consrv, scot	lowe,vpw	1961
VILTA 3---1	3	88	ceel histry of distr, scandinav	ahlen,i	1965
VMUBA 28--3	23	28	ceel settlin of maral in russia	fadeev,ev	1973
XFIPA 24---1		15	ceel od, prob,hab mgt,n forests	lyon,lj	1966

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
BYMOA 80--6	42	48	alal elk, altai mountains,	ussr sobanskii,gg	1975
NCANA 101-1	185	194	alal moose in fennoscandinavia	markgren,g	1974
NCANA 101-3	643	656	alal manag in conif decid ecoto	karns,pd; haswel/	1974
NCANA 101-3	723	735	alal manag in norway and sweden	lykke,j	1974
WLSBA 4---4	167	174	alal odvi, hist manage, finland	salo,lj	1976

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
OCRNA 16--1	71	73	rata alal, odvi, cons of nature	pop,i	1972
WMBAA 10---	1	275	rata prelim invest, barren-gr	c banfield,awf	1954
WMBAA 12---	1	148	rata continued barrn-gr studies	kelsall,jp	1957

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
anam					

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
bibi					

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR

ovca

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR

ovda

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR

BICOB 3---4 255 263 obmo managem controvers, n amer lent,pc 1971

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR

oram

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR

BZ0BA 24--3 227 232 many nat prot, wild prot, hunti hus,s 1973

EVCNA 3---1 33 42 many envir and nat cons in iran firouz,e 1976

JWMAA 34--4 800 812 many game managem in yugoslavia isakovic,i 1970

TRVIA 108-- 181 202 many mngmnt, land use, u states petrides,ga 1961

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR

TCNSA 89... 5 8 caca the roe deer in wales matheson,c 1962

TRVIA 108-1 41 53 caca biology, managmnt, denmark andersen,j 1961

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR

ORYXA 7---6 291 294 dada the persian fallow deer pepper,hj 1964

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
ANKIA 54--3 77 79 bibo still a chance, eur wisent bridges,w 1951
ATRLA 12-28 391 405 bibo free-living european bison krasinski,z 1967

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
PZESA 15... 68 dogo res, feral goats, n zealnd rudge,mr 1968

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
IUCSB 17... 116 120 wldl protec, ussr, in-out of us bannikov,ag 1970
JFUSA 69-10 736 740 game prod and harvest, czechosl reynolds,hg 1971

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
NAWTA 24--- 472 479 biga mngmnt in the lake states ruhl,hd 1959
NZSRA 16--3 33 36 mamm land use, problm, n zealnd riney,t 1958
TRVIA 108-1 130 157 ungl ecol, mngmnt, intr, n zeal wodzicki,k 1961