

TOPIC 2. HARVEST REPORTS

Harvest reports are about the only means of determining the main cause of mortality--hunting--in wild ruminant populations. They are gathered by two ways: total reporting and sampling. Required reports are being used more now than in previous years, and one reason for that is the use of computers in keeping records. Voluntary reports result in only a sample of the total since all hunters do not voluntarily send reports in. Other means of sampling may also be used, and subsamples may be identified by information requested in the license application.

The two ways to derive the data: Total reporting and sampling, are discussed in UNITS 1.1 and 1.2 respectively.

Collecting the data is one thing, analyzing it and presenting summaries is a necessary follow-up. The importance of making summaries available to the public is emphasized, and this is now possible if a good electronic system of filing the data is set up. Harvest summaries are discussed in UNIT 2.3.

UNIT 2.1: TOTAL HARVEST REPORTS

Total harvest reports are expected when the law requires that each animal killed be brought to a checking station where it is recorded and tagged. Data on sex, age, dressed weights, and other biological characteristics may also be recorded when it is checked.

Records of hunting licenses sold may be easily kept in computer files and licenses sold compared to licenses of hunters checking animals in. Comparisons of the characteristics of all hunters compared to successful hunters may then be made and insights gained into reasons and characteristics of hunter success. The number of comparisons that could be made by computer analyses far exceeds the amount of information that can be reasonably called for on an application, and legally called for in view of the rights of individuals to privacy.

Total harvest reports are increasing in use, and the biological data that comes from total harvest reports has the potential for becoming extremely valuable if the animals are evaluated accurately. This is a concern, because there are known examples of inaccurate aging of white-tailed deer, for example, due to lack of accurate and standardized methods and training procedures.

REFERENCES, UNIT 2.1

TOTAL HARVEST REPORTS

SERIALS

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
 CAFGA 25--2 96 165 od-- kill recrds, mgt of huntng johnson, fw 1939

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
 JWMAA 16--1 58 63 odvi bag checks, suprior natl f stenlund,mh; mor/ 1952
 JWMAA 33--4 871 880 odvi harv est, samp vs complete hawn,lj; ryel,la 1969
 JWMAA 44--1 245 249 odvi sex, age bias in hunt kill coe,rj; downing,/ 1980
 MOCOA 14--3 1, 12 odvi dixie's dope on decem deer robb,d 1953
 PCGFA 20--- 181 188 odvi calibrat hunt effor & succ weber,af; barick/ 1966
 TNWSD 11--- 1 5 odvi check stat data, size herd stevens,cl 1953

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

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
 JWMAA 25--4 415 421 ceel diff harv in 2 herds, mont picton,hd 1961
 NAWTA 26--- 468 480 ceel eval elk validations, colo denney,rn 1961

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

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
 CWOPA 15--- 1 19 rata distr carib harv, nc canad parker,gr 1972

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

obmo

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

oram

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

JWMAA 17--3 256 267 biga game check stations, color rogers,ge 1953

NAWTA 11--- 373 382 ---- meth determ huntr num, act wandell,wn 1946

UNIT 2.2: SAMPLING FOR HARVEST REPORTS

Sampling for harvest reports is a necessity when funds and personnel are limited so total harvest reports are not possible. Considering the average cost of a license to limit big game and the scope of the programs of state correction agencies, it is surprising that any state has the funds to do anything more than sampling for harvest reports. Computer-assisted record-keeping is fast and efficient, but trained personnel are needed in several steps.

Sampling regimes include voluntary reporting, which it is known results in a biased sample, and some kind of statistical sampling technique which, it is hoped, reduces bias to a tolerable minimum. Subcouples may also be taken, grouping hunters into zip code areas (useful for urban:rural comparisons), counties, areas hunted, etc.

REFERENCES, UNIT 2.2

SAMPLING FOR HARVEST REPORTS

SERIALS

CODEN	VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
CAFGA	25--2 96 165 od-- kill recrds, mgt of huntng johnson,fw		1939
JWMAA	11--1 103 104 od-- probble errors, sampl meas cronomiller,fp		1947

CODEN	VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
JWMAA	16--1 58 63 odvi bag checks,suprior nat for stenlund,mh; mor/	1952	
JWMAA	33--4 871 odvi harv est, samp vs complete hawn,lj; ryel,la	1969	
JWMAA	44--1 245 249 odvi sex, age bias in hunt kill coe,rj; downing,/	1980	
MOCOA	14--3 1, 12 odvi dixie's dope on decem deer robb,d		1953
PCGFA	20--- 181 188 odvi calibrat hunt effor & succ weber,af; barick/		1966

CODEN	VO-NU BEPA ENPA ANIM KEY WORDS-----	AUTHORS-----	YEAR
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CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
JWMAA 25--4 415 421 ceel diff harv in 2 herds, mont picton,hd 1961
NAWTA 26--- 468 480 ceel eval elk validations, colo denney,rn 1961

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
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CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
CWOPA 15--- 1 19 rata distr carib harv, nc canad parker,gr 1972

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
obmo

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

oram

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

JWMAA 17--3 256 267 biga func, oper check sta, colo roger,ge 1953

NAWTA 11--- 373 381 ---- meth determ huntr num, act wandell,w 1946

UNIT 2.3: HARVEST SUMMARIES

Harvest summaries involved long and tedious hours of "hard work under the goose-neck lamp" a few years ago. Today, the work involved in preparing harvest summaries comes in two phases. The first phase involves setting up the data collection format. This must be done properly for electronic storage and computer analysis, making rapid data processing possible. The data-processing itself takes very little computer time. The second phase involves evaluations and presentation of the results. This requires the human mind for subjective interpretations of similarities and differences, and time to write the explanations out, edit them, and print them for distribution.

The preparation of written summaries is a much more efficient process now than it was a few years ago as electronic word processing makes rapid editing and printing possible. In fact, the electronic processing of both numbers and words is collectively called "information processing."

It is important to get information out on the results of hunting seasons as soon as possible. It is theoretically possible to have information out before the hunting season is even over, and this could be useful in redistributing hunters, increasing or decreasing the take in local areas, etc. If check-station data are reported daily and the inputs evaluated electronically in relation to license sales, population distributions, travel conditions, and other human characteristics, daily bulletins could be issued. This is similar to the election return profiles that are generated while voting is still in progress. It is possible, but how appropriate it is may be another good question.

Making the daily harvest summaries available to the public may take too much of the unknown out of the hunt. Perhaps subject evaluations of hunting success each evening, even if they are wrong or based on very inadequate information, are more appropriate, lest the hunters become nothing more than checkers to be moved according to circumstances.

The dawn of the electronic age is both exciting and frightening.

REFERENCES, UNIT 2.3

HARVEST SUMMARIES

SERIALS

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
 JWMAA 15--1 27 32 cerv deer kill, diff systm hunt westerskov,k 1951

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
 AMNTA 2---9 466 476 od-- deer & deer hunting in tex wright,c 1868
 CAFGA 39--4 507 515 od-- rept on january seas, cal laughlin,j 1953
 JWMAA 29--1 59 71 od-- control huntng, sq mi encl vanetten,rc; / 1965
 NMWIA 13--5 16 17 od-- deer harvest, 1967, n mexi snyder,w 1968

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
 CNSVA 23--6 13 14 odvi the deer take in 1968-1969 jackson,l; miller 1969
 ICNSA 13--1 1, 5 odvi the 1953 iowa deer season madson,j 1954
 ICNSA 17--4 25, 29 odvi harvst 2813 dee, 1957,iowa speaker,eb; kline 1958
 JWMAA 5---3 333 336 odvi trends, kill, bucks, wisco schunke,wh; bussi 1941
 JWMAA 16--2 121 131 odvi hunt stati, ran cond, minn gunvalson,ve; er/ 1952
 JWMAA 19--3 346 352 odvi results of controlld hunts krefting,lw; eri/ 1955
 JWMAA 20--3 297 302 odvi results special hunt, minn krefting,lw; eric 1956
 JWMAA 22--2 141 148 odvi nmbrs, kill, recreatnl use burcalow,dw; mars 1958
 JWMAA 24--3 342 344 odvi hunt seas waste, fox trail schofield,rd 1960
 JWMAA 29--1 59 73 odvi contrlled hunt in enclosure van etten,rc; sw/ 1965
 JWMAA 33--4 791 795 odvi controlld hunt, wildl refg roseberry,jl; au/ 1969
 JWMAA 40--3 500 506 odvi spat dist hntrs; inf forst thomas,tw; gill,/ 1976
 MRYCA 32--4 17 17 odvi harvest increase, maryland anonymous 1955
 MRYCA 40--1 14 15 odvi 1962 deer season, maryland kerns, c 1963
 MRYCA 44--2 14 16 odvi 1966 deer report, maryland halla,b 1967
 NAWTA 4---- 449 553 odvi harvst in natl forst, stud sanders,rd 1939
 NAWTA 13--- 459 464 odvi bow'n'arrw huntng, conserv haugen,ao 1948
 NAWTA 13--- 492 508 odvi harvest of deer, wisconsin cramer,ht 1948
 NAWTA 29--- 454 463 odvi reln hunter access to kill james,ga; johnso/ 1964

odvi continued on the next page

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
NFGJA 10--2 186	193	odvi eff archry in contrl abund severinghaus,cw			1963
NFGJA 16--1 1	18	odvi 1967 seas, moose rivr area dickinson,nr; sev			1969
NFGJA 22--2 128	147	odvi anal 1st harv, cary estate davis,ja			1975
NOSCA 47--4 250	255	odvi hunting success, idaho dee will,gc			1973
NYCOA 3---4 24	25	odvi deer kill, season of 1948 holweg,aw			1949
NYCOA 6---4 33	33	odvi the 1951 deer take, n york ny conservat dept			1952
NYCOA 9---5 34	35	odvi the 1954 deer kill in n.y. bromley,aw			1955
NYCOA 10--1 19	23	odvi deer hunting - then & now darrow,rw			1955
PCGFA 19--- 141	146	odvi eff opening date, harvest, murphy,da			1965
PCGFA 27--- 114	119	odvi mgt implic heav hunt press cook,rl			1974
PIAIA 61--- 615	630	odvi reslts of iowa's deer seas sanderson,gc; spe			1954
TNWSD 9---- 1	12	odvi anal kill-curv, female dee gill,j			1953
TNWSD 33--- 19	33	odvi odhe, unretrvd deer, liter losch,ta; samuel,			1976
VIWIA 8.... 10	13	odvi knowldg gaind, managd hunt engle,jw; hanlon,			1952
VIWIA 14--3 18	19	odvi 1952 big levels refug hunt mosby,hs			1952
VIWIA 14-10 18	odvi highlights of va 1952 stud richards,ev			1953
VIWIA 31--7 22	22	odvi n w virginia 1969 harvest thornton,je			1970
WLSBA 7---1 10	16	odvi hunter-inflicted wounding stormer,fa; kirk/			1979
WSCBA 3--10 40	46	odvi wiscons deer situatn, 1938 scott,we			1938
WSCBA 11--8 6	15	odvi the 1945 deer kill, wiscon bersing,os			1946
WSCBA 12--1 5	11	odvi huntng records 1930-46, wi buss,io; buss,he			1947
WSCBA 12--9 4	12	odvi the 1946 deer huntn season bersing,os			1947
WSCBA 13--4 7	16	odvi bow & arrow hunting, wisco bersing,os			1948
WSCBA 13-10 11	12	odvi 1947 deer season, wisconsi bersing,os			1948
WSCBA 15--1 7	8	odvi prelim report on 1949 seas dahlberg,bl; hale			1950
WSCBA 15--4 3	7	odvi wisc deer prob, 1949 seasn dahlberg,bl			1950
WSCBA 16--1 10	12	odvi prelim report on 1950 seas kabat,c; hale,jb			1951
WSCBA 17--5 22	23	odvi 1951 harvest high; 129,475 wisc conserv dept			1952
WSCBA 21-12 3	9	odvi new deal for deer & hunter keener,jm			1956
WSCBA 22--2 8	11	odvi the 1956 deer season, wisc keener,jm			1957

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----				AUTHORS-----	YEAR
CAFGA 20--1 79	80	odhe deer tag returns, in 1933 walner,ol			1934
CAFGA 29--4 180	190	odhe deer refuge under buck law cronemiller,fp			1943
CAFGA 38--2 235	238	odhe reslts special hunt, refug bryan,hf; long,wi			1952
DRCWD 2.... 1	179	odhe anam, accss priv land, hun rounds,rc			1975

odhe continued on the next page

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
JOMAA 35--3 457 458 odhe additional recrds for minn erickson,ab; bue, 1954
NAWTA 13--- 451 457 odhe crippling losses, utah costley,rj 1948
XFWLA 295-- 1 8 odhe mortality, gunshot wounds robinette,wl 1947

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
JWMAA 25--4 415 421 ceel differntl huntr harv, mont picton,hd 1961
NMWIA 13--3 4 ceel elk hunts, 1967, new mexic turner,f 1968
PMACA 51--1 187 191 ceel reslts,1st contr hunt,mich moran,rj 1966

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
NAWTA 24--- 422 447 alal harvests, newfnd & scandin pimplott,dh 1959

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
CWOPA 15--- 1 19 rata distr carib harv, nc canad parker,gr 1972

CODEN VO-NU BEPA ENPA ANIM KEY WORDS----- AUTHORS----- YEAR
DRCWD 2.... 1 179 anam odhe, accss priv land, hun rounds,rc 1975
NAWTA 4---- 216 220 anam oregon's open season, 1938 einarsen,as 1939
NMWIA 15--1 9 11 anam antelop huntng, 1969, n mx snyder,w 1970

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

bibi

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----			AUTHORS-----	YEAR
tdbca 2----	1	5	ovca huntng desert bighrn,nevad jonez,a	1958
tdbca 2----	6	12	ovca evaluation huntng, arizona russo,jp	1958
tdbca 3----	20	23	ovca 1958 hunt highlights, nevad jonez,a	1959
tdbca 3----	24	28	ovca 1958 hunt highlights, ariz kelly,w	1959
tdbca 4----	76	80	ovca 1959 huntng results, nevad jonez,a	1960
tdbca 4----	81	84	ovca highlights 1959 hunt, ariz reed,jj	1960
tdbca 5----	80	83	ovca hunting seasons in mexico cardenas,jad	1961
tdbca 5----	84	86	ovca hunt highlights, arizona reed,jj	1961
tdbca 5----	87	89	ovca 1960 huntng results,nevada jonex,a	1961
tdbca 6----	114	116	ovca 1961 desrt bghrn hunt,ariz jantzen,ra	1962
tdbca 6----	119	123	ovca progress report 1961 jonez,a	1962
tdbca 7----	12	16	ovca progrss,hunt report,nevada brechbill,r	1963
tdbca 7----	151	155	ovca progrs rpt, kofa game rang duncan,ge	1963
tdbca 7----	169	174	ovca progress report, arizona jantzen,ra	1963
tdbca 7----	175	177	ovca progress reprt, new mexico freeman,pe	1963
tdbca 8----	127	132	ovca 1963 progr, hunt rept, nev jonez,a	1964
tdbca 9----	84	88	ovca 1964-65 progress, hunt,nev brechbill,ra	1965
tdbca 11----	1	5	ovca 1965, 1966-67 seasn, nevad barngrover,lw	1967
tdbca 11----	86	93	ovca 15 years hunting, arizona russo,jp	1967
tdbca 12----	1	4	ovca results, 1967 hunt, utah john,rt	1968
tdbca 12----	7	11	ovca huntng progress rpt, nevad barngrover,lw	1968
tdbca 13--	71	75	ovca hunt reslts 1968-69, nevad barngrover,lw	1969

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

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

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

CODEN VO-NU BEPA ENPA ANIM KEY WORDS-----			AUTHORS-----	YEAR
CNSVA 22--6	12	13	biga 1967 harvest sets records hesselton,wt	1968
NAWTA 14--	410	423	---- huntng stats, 1936 vs 1946 ludy,d	1949

OTHER PUBLICATIONS

Coleman, H. S. 1947. Administration and results of bisexual antelope hunt
in Nevada. Proc. West. Assoc. State Fish and Game Comm. 27: 107-109.