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The Cover

One of Oregon's protected Columbian whitetail deer along the lower Columbia River.

Photo by Al Miller

HUNTER EDUCATION PROGRAM

Instructors Approved

Month of March14
Total To Date3,368

Students Trained

Month of March482
Total to Date207,217

Firearms Hunting Casualties Reported in 1974

Fatal0
Nonfatal1

NO ROOM FOR WILDLIFE?

There has been much discussion concerning this year's Rocky Mountain elk season. The subject is not new, but one that has been growing over a period of years as more and more individuals become interested in and equip themselves for this rather rugged type of recreation.

Concern is expressed as to whether the herds can stand the pressure and whether this is the type of hunting that should be allowed. Is it the place of the regulatory agency to try to make rules affecting the social behaviors of the hunters or should that be left up to the participants themselves as long as the resource is not being jeopardized?

In essence, the problem being faced here in Oregon is symptomatic of a larger problem being faced throughout the world. Traditionally the economy of the United States has been built on the idea that we must have more of everything and that continued growth in all ways is a good in itself. But now the energy crunch has reared its ugly head and a time of reassessment has come about.

How does this relate to wildlife? William Towell, writing in American Forests Magazine, stated, "... the one inescapable truth that we must face up to and soon is population. Man is an animal. He must understand biological laws of nature that govern all life. He must learn to appreciate his own relationship to his environment, to the earth, and other living things around him."

Twenty top scientists meeting recently in Washington, D.C. stressed the urgency of countering the most rapid deterioration of the earth's life support systems ever witnessed in evolutionary history. They urged the World Wildlife Fund and the conservation community at large to launch a two-pronged campaign: escalating current habitat preservation efforts; and developing new strategies to address the larger problem of man's exploitive approach to his natural environment.

The remote areas of northeastern Oregon may seem to be far removed from the human population problems of India or Asia; however, some of the characteristics are the same. We have a limited amount of elk range available. In some instances the amount of suitable range has been shrinking. Yet we have a demand for more use of this resource because of more human beings.

The take of elk can be fairly well controlled by lengths of seasons and other rules and yet perhaps this could lead to the ultimate of a one-day season with everyone out and the hunting stopped when a proper harvest was reached. An absurd thought, but the point things could reach if biological information only were considered. What kind of sociological considerations will have to be incorporated into future regulations and plans remain to be seen.

There is one prime consideration, however, that is applicable to the Oregon elk situation as well as any consideration of wildlife anywhere in the world. Wildlife habitat must be retained. The United Nations in its declaration of principles on the human environment states, "Man has a special responsibility to safeguard and wisely manage the heritage of wildlife and its habitat which are now gravely imperiled by a combination of adverse factors." Wildlife can be managed as a renewable resource and an annual crop removed without threatening future populations. However, if the wildlife habitat is destroyed through pollution, poor land use, or is simply overrun by human beings, there is no way wildlife can continue to exist. A deteriorating environment or habitat with no room to live can spell doom for creatures of the wild ... and also man.

RES □

1973 Big Game Hunting Season Report

By PAUL EBERT,
Staff Biologist,
Big Game Management

Oregon's big game hunters turned out in record numbers during the 1973 hunting season and harvested a near record number of elk and the largest take of deer since 1968. The annual hunter questionnaire which surveyed a random sample of individuals purchasing 1973 hunting licenses indicated that 401,290 licensed hunters spent 2,798,595 days afield in pursuit of big game and took 103,470 deer, 14,001 elk, 752 antelope, 2,369 bear, 16 cougar and 3 bighorn sheep.

DEER

The general deer season opened October 6 and extended through October 18 for mule deer in eastern Oregon and through November 11 for blacktails west of the Cascades. A total of 36,600 management unit permits for antlerless deer became valid on October 20 in western Oregon. No antlerless permits were authorized in eastern Oregon.

The nine-day High Cascade buck season from September 15 through the 23rd was limited to 5,000 permits to improve the quality of the hunt. Six special seasons with 5,250 permits provided additional deer hunting opportunities in agricultural and forest damage areas of western Oregon.

Extended season hunting during portions of December was allowed in the Willamette Valley and bordering foothills. Muzzleloader seasons were provided on Hart Mountain in Lake County and in the Patterson Mountain area of western Oregon.

The 296,290 deer hunters reported taking 103,470 deer of which 60 per-

cent were black-tailed deer and 40 percent mule deer. Harvest of both blacktails and mule deer increased 41 percent above the 1972 take with total hunters also increasing at the same rate. The 170,600 black-tailed deer hunters took 62,130 deer, 31 percent of which were antlerless, while 125,690 mule deer hunters bagged 41,340 animals. Blacktail and mule deer hunters had 36 and 33 percent success ratios, respectively.

As in 1972, hunters were encouraged to participate in western Oregon where improved deer trends and a long season provided abundant opportunities. Although unfavorable weather during the first half of the season discouraged participation and influenced success, conditions improved by late October. Of the total general season black-tailed deer harvest, 76 percent were taken after October 20. Western Oregon deer hunting generated 1,298,030 days of recreation, accounting for 62 percent of the state's total.

Mule deer trends in eastern Oregon improved on most ranges but remained below average levels, warranting another conservative season in 1973. Although hunters were limited to 12 days for bucks only, the total yield increased 41 percent over 1972. Weather

for hunting was generally favorable during most of the season.

ELK

General elk seasons were comparable with 1972 and provided for 19 days of hunting in eastern Oregon and 12 days in the western part of the state. As in the previous year, bulls only were legal during the general season with either sex hunting permitted in southeastern Oregon for the first nine days. Antlerless permits totalling 3,545 were issued for northeastern Oregon units and these were valid the last five days of the season. In addition, five special Roosevelt elk and six special Rocky Mountain elk seasons were held involving a total of 1,025 permits.

An all-time record number of 98,300 elk hunters participated in 1973. This represented a 24 percent increase above 1972. Prior to last fall, hunting pressure had increased at a moderate rate generally within the range of 1 to 6 percent annually. Increased interest was greatest in western Oregon with 31 percent more hunters participating than in 1972 compared with 21 percent more hunting east of the Cascades.

(Continued on Back Page)



SUMMARY — 1973 DEER SEASON

| Units By Region | GENERAL DEER SEASON | | | | | ADDITIONAL DEER HARVEST | | ALL SEASONS | |
|--------------------------------------|----------------------|---------------|---------------|----------------------------|------------------------------|----------------------------|-----------------|------------------|----------------------|
| | Number of Hunters | Bucks | Antlerless | General Season Total | Percent Hunter Success | Early Seasons | Late Seasons | Total Harvest | Total Hunter Days |
| Alsea | 20,930 | 4,620 | 2,720 | 7,340 | 35 | 350 | 690 | 8,380 | 137,320 |
| Clatsop | 8,730 | 1,290 | 450 | 1,740 | 20 | 0 | 0 | 1,740 | 57,200 |
| McKenzie | 23,910 | 4,370 | 2,810 | 7,180 | 30 | 160 | 220 | 7,560 | 153,710 |
| Nestucca | 3,390 | 660 | 280 | 940 | 28 | 0 | 0 | 940 | 17,180 |
| Polk | 7,750 | 960 | 530 | 1,490 | 19 | 0 | 280 | 1,770 | 39,380 |
| Santiam | 18,240 | 2,290 | 660 | 2,950 | 16 | 250 | 1,300 | 4,500 | 112,740 |
| Scappoose | 3,660 | 520 | 60 | 580 | 16 | 0 | 0 | 580 | 24,810 |
| Siuslaw | 7,960 | 1,470 | 310 | 1,780 | 22 | 0 | 160 | 1,940 | 46,570 |
| Trask | 13,990 | 2,260 | 470 | 2,730 | 20 | 30 | 1,040 | 3,800 | 77,810 |
| Willamette | 18,390 | 1,570 | 160 | 1,730 | 9 | 30 | 3,240 | 5,000 | 145,520 |
| Wilson | 8,160 | 1,150 | 350 | 1,500 | 18 | 0 | 0 | 1,500 | 37,620 |
| NORTHWEST REGION TOTALS | * 107,700 | 21,160 | 8,800 | 29,960 | 28 | 820 | 6,930 | 37,710 | 849,860 |
| Applegate | 9,220 | 1,580 | 800 | 2,380 | 26 | 90 | 100 | 2,570 | 61,620 |
| Chetco | 4,600 | 1,420 | 190 | 1,610 | 35 | 30 | 30 | 1,670 | 32,910 |
| Dixon | 9,850 | 2,440 | 0 | 2,440 | 25 | 0 | 250 | 2,690 | 53,900 |
| Elkton | 3,990 | 1,040 | 0 | 1,040 | 26 | 0 | 0 | 1,040 | 22,320 |
| Evans Creek | 4,350 | 850 | 470 | 1,320 | 30 | 100 | 30 | 1,450 | 25,970 |
| Melrose | 10,540 | 2,990 | 1,000 | 3,990 | 38 | 30 | 60 | 4,080 | 64,640 |
| Powers | 2,910 | 790 | 0 | 790 | 27 | 0 | 0 | 790 | 13,880 |
| Rogue | 13,240 | 2,550 | 530 | 3,080 | 23 | 100 | 160 | 3,340 | 97,370 |
| Sixes | 7,350 | 1,840 | 590 | 2,430 | 33 | 30 | 440 | 2,900 | 51,000 |
| Tioga | 3,980 | 1,230 | 0 | 1,230 | 31 | 0 | 160 | 1,390 | 24,560 |
| SOUTHWEST REGION TOTALS | * 54,000 | 16,730 | 3,580 | 20,310 | 38 | 380 | 1,230 | 21,920 | 448,170 |
| Deschutes | 10,960 | 1,010 | 0 | 1,010 | 9 | 120 | 0 | 1,130 | 54,630 |
| Grizzly | 4,340 | 1,470 | 0 | 1,470 | 34 | 0 | 0 | 1,470 | 15,390 |
| Hood River | 1,970 | 390 | 0 | 390 | 20 | 0 | 0 | 390 | 6,810 |
| Keno | 3,060 | 340 | 0 | 340 | 11 | 0 | 0 | 340 | 10,000 |
| Klamath | 8,590 | 2,380 | 0 | 2,380 | 28 | 0 | 0 | 2,380 | 37,230 |
| Maupin | 1,130 | 250 | 0 | 250 | 22 | 0 | 0 | 250 | 4,510 |
| Maury | 2,290 | 370 | 0 | 370 | 16 | 0 | 0 | 370 | 8,130 |
| Metolius | 2,110 | 280 | 0 | 280 | 13 | 0 | 0 | 280 | 6,130 |
| Ochoco | 11,780 | 2,640 | 0 | 2,640 | 22 | 0 | 0 | 2,640 | 49,060 |
| Paulina | 7,780 | 1,070 | 0 | 1,070 | 14 | 0 | 0 | 1,070 | 29,860 |
| Sherman | 2,730 | 930 | 0 | 930 | 34 | 0 | 0 | 930 | 10,550 |
| Sprague | 4,410 | 660 | 0 | 660 | 15 | 0 | 0 | 660 | 15,250 |
| Wasco | 8,180 | 1,480 | 0 | 1,480 | 18 | 130 | 160 | 1,770 | 43,660 |
| CENTRAL REGION TOTALS | * 61,700 | 13,270 | 0 | 13,270 | 22 | 250 | 160 | 13,680 | 291,210 |
| Baker | 6,240 | 1,030 | 0 | 1,030 | 17 | 100 | 0 | 1,130 | 32,010 |
| Catherine Creek | 3,040 | 650 | 0 | 650 | 21 | 0 | 0 | 650 | 12,000 |
| Chesnimnus | 1,340 | 370 | 0 | 370 | 28 | 0 | 0 | 370 | 5,400 |
| Columbia Basin | 730 | 190 | 0 | 190 | 26 | 0 | 0 | 190 | 2,880 |
| Desolation | 2,570 | 750 | 0 | 750 | 29 | 0 | 0 | 750 | 9,240 |
| Heppner | 7,070 | 1,850 | 0 | 1,850 | 26 | 0 | 0 | 1,850 | 26,720 |
| Imnaha | 1,740 | 660 | 0 | 660 | 38 | 0 | 0 | 660 | 6,770 |
| Keating | 2,860 | 740 | 0 | 740 | 26 | 60 | 0 | 800 | 14,540 |
| Lookout Mountain | 1,540 | 90 | 0 | 90 | 6 | 0 | 0 | 90 | 5,090 |
| Minam | 2,270 | 630 | 0 | 630 | 28 | 30 | 0 | 660 | 9,810 |
| Murderer's Creek | 6,070 | 2,060 | 0 | 2,060 | 34 | 60 | 0 | 2,120 | 28,730 |
| Northside | 4,800 | 1,520 | 0 | 1,520 | 32 | 0 | 0 | 1,520 | 19,490 |
| Pine Creek | 530 | 280 | 0 | 280 | 53 | 0 | 0 | 280 | 2,420 |
| Sled Springs | 3,140 | 650 | 0 | 650 | 21 | 0 | 0 | 650 | 13,360 |
| Snake River | 1,400 | 710 | 0 | 710 | 51 | 0 | 0 | 710 | 5,310 |
| Starkey | 3,760 | 620 | 0 | 620 | 16 | 30 | 0 | 650 | 18,770 |
| Ukiah | 3,690 | 900 | 0 | 900 | 24 | 0 | 0 | 900 | 16,560 |
| Umatilla | 4,650 | 1,040 | 0 | 1,040 | 22 | 100 | 0 | 1,140 | 21,010 |
| Walla Walla | 1,280 | 340 | 0 | 340 | 27 | 0 | 0 | 340 | 5,410 |
| Wenaha | 1,810 | 470 | 0 | 470 | 26 | 0 | 0 | 470 | 9,540 |
| Wheeler | 5,590 | 2,150 | 0 | 2,150 | 38 | 0 | 0 | 2,150 | 20,300 |
| NORTHEAST REGION TOTALS | * 54,500 | 17,700 | 0 | 17,700 | 32 | 380 | 0 | 18,080 | 285,360 |
| Beaty's Butte | 940 | 90 | 0 | 90 | 10 | 0 | 0 | 90 | 4,690 |
| Beulah | 4,500 | 1,220 | 0 | 1,220 | 27 | 0 | 0 | 1,220 | 16,420 |
| Fort Rock | 5,210 | 1,190 | 0 | 1,190 | 23 | 0 | 0 | 1,190 | 23,730 |
| Interstate | 6,550 | 1,560 | 0 | 1,560 | 24 | 0 | 0 | 1,560 | 31,160 |
| Juniper | 440 | 60 | 0 | 60 | 14 | 30 | 0 | 90 | 2,030 |
| Malheur | 5,430 | 1,510 | 0 | 1,510 | 28 | 0 | 0 | 1,510 | 24,450 |
| Owyhee | 2,120 | 690 | 0 | 690 | 33 | 0 | 0 | 690 | 7,890 |
| Silver Lake | 7,450 | 1,650 | 0 | 1,650 | 22 | 0 | 0 | 1,650 | 32,230 |
| Silvies | 4,620 | 1,440 | 0 | 1,440 | 31 | 0 | 0 | 1,440 | 19,840 |
| Steens Mountain | 3,570 | 970 | 0 | 970 | 27 | 0 | 0 | 970 | 14,130 |
| Wagontire | 910 | 310 | 0 | 310 | 34 | 0 | 0 | 310 | 3,300 |
| Warner | 3,640 | 920 | 0 | 920 | 25 | 30 | 0 | 950 | 17,580 |
| Whitehorse | 1,640 | 410 | 0 | 410 | 25 | 0 | 0 | 410 | 7,320 |
| SOUTHEAST REGION TOTALS | * 42,700 | 12,020 | 0 | 12,020 | 28 | 60 | 0 | 12,080 | 204,770 |
| GENERAL SEASON TOTALS | * 277,400 | 80,880 | 12,380 | 93,260 | 34 | | | | |
| EARLY SEASON TOTALS | 20,790 | | | | | 1,890 | | | |
| LATE SEASON TOTALS | 27,650 | | | | | | 8,320 | | |
| GRAND TOTALS | * 296,290 | | | | | 35 | | 103,470 | 2,079,370 |

*Total omits duplication of hunters participating in more than one unit or season.

1973 ELK SEASON

| Unit By Region | Number of Hunters | Hunter Days | ELK HARVEST | | | Percent Hunter Success | Percent Yearling Bulls |
|--|----------------------|----------------|-------------|------------|--------|------------------------------|------------------------------|
| | | | Bulls | Antlerless | Total | | |
| Alsea | 1,420 | 6,240 | 148 | 0 | 148 | 11 | 50 |
| Clatsop | 10,700 | 52,950 | 1,121 | 60 | 1,181 | 12 | 76 |
| McKenzie | 2,600 | 12,390 | 280 | 0 | 280 | 12 | 49 |
| Nestucca | 800 | 2,460 | 19 | 0 | 19 | 3 | 71 |
| Polk | 180 | 710 | 9 | 0 | 9 | 8 | 33 |
| Santiam | 290 | 1,120 | 72 | 0 | 72 | 31 | 54 |
| Scappoose | 670 | 2,740 | 89 | 41 | 130 | 33 | 57 |
| Siuslaw | 390 | 1,540 | 30 | 0 | 30 | 8 | 50 |
| Trask | 2,670 | 9,160 | 133 | 33 | 166 | 8 | 70 |
| Willamette | 340 | 1,660 | 26 | 0 | 26 | 8 | 66 |
| Wilson | 4,630 | 19,880 | 338 | 0 | 338 | 9 | 78 |
| NORTHWEST REGION TOTALS | * 22,220 | 110,850 | 2,265 | 134 | 2,399 | 11 | 69 |
| Dixon | 1,750 | 7,320 | 154 | 0 | 154 | 10 | 79 |
| Elkton | 2,350 | 9,810 | 172 | 39 | 211 | 10 | 63 |
| Evans Creek | 30 | 60 | 0 | 0 | 0 | 0 | 0 |
| Melrose | 1,860 | 6,290 | 87 | 0 | 87 | 6 | 81 |
| Powers | 900 | 3,050 | 88 | 0 | 88 | 11 | 85 |
| Rogue | 1,070 | 5,360 | 86 | 0 | 86 | 9 | 50 |
| Sixes | 310 | 830 | 13 | 0 | 13 | 6 | 25 |
| Tioga | 5,000 | 23,640 | 589 | 6 | 595 | 14 | 65 |
| SOUTHWEST REGION TOTALS | * 11,640 | 56,360 | 1,189 | 45 | 1,234 | 11 | 68 |
| Deschutes | 250 | 980 | 0 | 0 | 0 | 0 | 0 |
| Keno | 90 | 150 | 4 | 0 | 4 | 13 | 0 |
| CENTRAL REGION TOTALS | * 340 | 1,130 | 4 | 0 | 4 | 2 | 0 |
| ROOSEVELT ELK TOTALS | * 33,200 | 168,340 | 3,461 | 178 | 3,640 | 11 | 68 |
| Grizzly | 120 | 580 | 9 | 7 | 16 | 12 | 33 |
| Hood River | 640 | 2,260 | 25 | 4 | 29 | 6 | 25 |
| Maury | 90 | 280 | 3 | 2 | 5 | 6 | 0 |
| Metolius | 60 | 240 | 0 | 0 | 0 | 0 | 0 |
| Ochoco | 1,850 | 8,390 | 53 | 58 | 111 | 8 | 29 |
| Wasco | 2,290 | 11,860 | 120 | 71 | 191 | 10 | 68 |
| CENTRAL REGION TOTALS | * 4,850 | 23,610 | 210 | 142 | 352 | 9 | 51 |
| Baker | 4,990 | 26,920 | 496 | 207 | 703 | 17 | 57 |
| Catherine Creek | 1,910 | 10,090 | 86 | 73 | 159 | 10 | 76 |
| Chesnimnus | 5,640 | 28,700 | 572 | 120 | 692 | 14 | 95 |
| Desolation | 4,670 | 28,670 | 613 | 71 | 684 | 17 | 59 |
| Heppner | 4,490 | 24,880 | 430 | 118 | 548 | 13 | 66 |
| Imnaha | 2,730 | 16,090 | 215 | 71 | 286 | 13 | 75 |
| Keating | 1,390 | 7,720 | 115 | 102 | 217 | 22 | 53 |
| Lookout Mountain | 90 | 370 | 6 | 9 | 15 | 25 | 100 |
| Minam | 3,110 | 16,820 | 268 | 102 | 370 | 17 | 50 |
| Murderer's Creek | 2,000 | 9,030 | 123 | 80 | 203 | 12 | 35 |
| Northside | 2,430 | 10,480 | 141 | 116 | 257 | 15 | 39 |
| Pine Creek | 940 | 5,220 | 59 | 16 | 75 | 8 | 85 |
| Sled Springs | 5,250 | 30,150 | 430 | 245 | 675 | 15 | 84 |
| Snake River | 1,950 | 11,200 | 262 | 122 | 384 | 27 | 78 |
| Starkey | 7,620 | 42,860 | 911 | 312 | 1,223 | 20 | 72 |
| Ukiah | 5,850 | 37,380 | 727 | 205 | 932 | 19 | 76 |
| Umatilla | 6,840 | 36,810 | 810 | 7 | 817 | 15 | 76 |
| Walla Walla | 2,620 | 13,930 | 320 | 134 | 454 | 20 | 70 |
| Wenaha | 4,960 | 28,080 | 668 | 303 | 971 | 23 | 82 |
| Wheeler | 820 | 3,960 | 15 | 29 | 44 | 8 | 60 |
| NORTHEAST REGION TOTALS | * 59,430 | 389,360 | 7,267 | 2,442 | 9,709 | 17 | 72 |
| Beulah | 1,650 | 8,490 | 76 | 102 | 178 | 14 | 0 |
| Malheur | 970 | 5,560 | 52 | 29 | 81 | 9 | 41 |
| Silvies | 450 | 1,960 | 24 | 18 | 42 | 15 | 75 |
| SOUTHEAST REGION TOTALS | 2,980 | 16,010 | 152 | 149 | 301 | 12 | 27 |
| ROCKY MOUNTAIN ELK TOTALS | * 65,100 | 428,980 | 7,626 | 2,735 | 10,361 | 16 | 71 |
| STATE TOTALS | * 98,300 | 597,320 | 11,087 | 2,913 | 14,001 | 14 | 70 |

*Total omits duplication of hunters participating in more than one unit.

DEER HUNTING TRENDS 1952 - 1973

| STATE TOTALS | | | | MULE DEER | | | | | | BLACK-TAILED DEER | | | | | |
|--------------|---------|----------------|------------------------|------------------------|------------------|------------------------|------------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------|---------------------|---------------------|
| Year | Hunters | Deer Harvested | Percent Hunter Success | General Season Hunters | Number Harvested | Percent Hunter Success | Percent of Total | Antler-less Harvest | Percent Antler-less | General Season Hunters | Number Harvested | Percent Hunter Success | Percent of Total | Antler-less Harvest | Percent Antler-less |
| 1952 | 188,250 | 77,897 | 41 | 126,719 | 53,030 | 61 | 68 | 20,570 | 39 | 61,531 | 24,867 | 40 | 32 | 5,210 | 21 |
| 1953 | 204,808 | 105,275 | 51 | 121,356 | 64,607 | 53 | 61 | 24,652 | 38 | 83,552 | 40,668 | 49 | 39 | 13,045 | 32 |
| 1954 | 215,047 | 112,622 | 52 | 134,617 | 76,877 | 57 | 68 | 22,410 | 29 | 80,430 | 35,745 | 44 | 32 | 8,043 | 22 |
| 1955 | 230,585 | 133,834 | 58 | 148,566 | 90,126 | 61 | 67 | 37,752 | 42 | 81,919 | 43,708 | 53 | 33 | 13,446 | 31 |
| 1956 | 233,842 | 146,568 | 54 | 146,568 | 85,394 | 58 | 68 | 37,978 | 44 | 87,274 | 40,277 | 46 | 32 | 13,340 | 33 |
| 1957 | 221,960 | 116,409 | 52 | 140,627 | 81,873 | 58 | 70 | 26,853 | 33 | 81,333 | 34,626 | 43 | 30 | 8,877 | 26 |
| 1958 | 233,885 | 116,251 | 50 | 139,183 | 71,250 | 51 | 61 | 19,308 | 27 | 94,702 | 45,001 | 47 | 39 | 15,251 | 34 |
| 1959 | 248,701 | 146,003 | 59 | 138,856 | 88,261 | 64 | 61 | 23,685 | 27 | 104,750 | 56,670 | 54 | 39 | 20,108 | 35 |
| 1960 | 259,739 | 157,504 | 61 | 141,102 | 96,122 | 68 | 61 | 28,254 | 29 | 110,725 | 61,382 | 55 | 39 | 20,133 | 33 |
| 1961 | 265,326 | 163,939 | 62 | 147,597 | 97,951 | 66 | 60 | 30,538 | 31 | 101,971 | 65,988 | 65 | 40 | 24,529 | 37 |
| 1962 | 263,838 | 139,712 | 53 | 143,580 | 76,776 | 53 | 55 | 24,977 | 32 | 108,343 | 62,936 | 58 | 45 | 21,932 | 35 |
| 1963 | 258,375 | 117,619 | 45 | 136,676 | 64,678 | 47 | 55 | 15,403 | 24 | 105,603 | 52,941 | 50 | 45 | 16,754 | 32 |
| 1964 | 249,080 | 143,023 | 57 | 148,215 | 84,665 | 57 | 59 | 19,931 | 23 | 110,555 | 58,358 | 53 | 41 | 18,807 | 32 |
| 1965 | 267,840 | 119,369 | 45 | 143,618 | 71,637 | 50 | 60 | 19,242 | 27 | 108,281 | 47,732 | 44 | 40 | 13,348 | 27 |
| 1966 | 270,770 | 147,975 | 55 | 147,975 | 88,516 | 56 | 60 | 22,821 | 26 | 110,384 | 59,459 | 52 | 40 | 14,687 | 25 |
| 1967 | 272,150 | 142,000 | 52 | 153,950 | 87,180 | 57 | 61 | 29,518 | 34 | 109,250 | 54,820 | 50 | 39 | 15,089 | 27 |
| 1968 | 284,600 | 151,380 | 53 | 163,260 | 89,020 | 55 | 59 | 23,374 | 26 | 111,940 | 62,360 | 56 | 41 | 16,586 | 27 |
| 1969 | 264,900 | 101,500 | 38 | 166,350 | 68,860 | 41 | 68 | 14,265 | 21 | 88,850 | 32,640 | 37 | 32 | 5,757 | 18 |
| 1970 | 282,000 | 101,600 | 36 | 180,150 | 72,200 | 40 | 71 | 14,453 | 20 | 92,050 | 29,400 | 32 | 29 | 4,347 | 15 |
| 1971 | 279,220 | 87,800 | 31 | 162,180 | 47,240 | 29 | 54 | 7,840 | 17 | 109,120 | 40,560 | 37 | 46 | 7,990 | 20 |
| 1972 | 245,770 | 73,400 | 30 | 110,700 | 29,380 | 27 | 40 | 95 | 0 | 127,200 | 44,020 | 35 | 60 | 7,970 | 18 |
| 1973 | 296,290 | 103,470 | 35 | 124,040 | 41,340 | 33 | 40 | 62 | 1 | 153,360 | 62,130 | 41 | 60 | 19,099 | 31 |

ELK HUNTING TRENDS 1933 - 1973

| STATE TOTAL | | | | | | ROCKY MOUNTAIN ELK | | | | | ROOSEVELT ELK | | | | |
|-------------|---------|--------|------------|---------------|------------------------|--------------------|-------|------------|------------------|------------------------|----------------|-------|------------|------------------|------------------------|
| Year | Hunters | Bulls | Antlerless | Total Harvest | Percent Hunter Success | Hunters | Bulls | Antlerless | Number Harvested | Percent Hunter Success | Hunters | Bulls | Antlerless | Number Harvested | Percent Hunter Success |
| 1933 | 2,440 | 579 | 0 | 579 | 24 | 2,440 | 579 | 0 | 579 | 24 | No Open Season | | | | |
| 1940 | 6,152 | 1,350 | 1,179 | 2,529 | 41 | 4,809 | 1,152 | 1,179 | 2,331 | 48 | 1,343 | 198 | 0 | 198 | 15 |
| 1945 | 8,597 | 2,398 | 67 | 2,465 | 29 | 7,270 | 2,176 | 67 | 2,243 | 31 | 1,327 | 222 | 0 | 222 | 17 |
| 1950 | 22,802 | 3,157 | 2,234 | 5,391 | 24 | 16,726 | 2,210 | 1,234 | 3,444 | 21 | 6,076 | 947 | 1,000 | 1,947 | 32 |
| 1955 | 27,709 | 4,228 | 1,855 | 6,083 | 22 | 21,504 | 3,361 | 1,749 | 5,110 | 24 | 6,205 | 867 | 106 | 973 | 16 |
| 1961 | 51,349 | 9,707 | 2,384 | 12,091 | 24 | 36,514 | 7,098 | 1,863 | 8,961 | 25 | 14,835 | 2,609 | 521 | 3,130 | 21 |
| 1962 | 52,991 | 7,998 | 2,178 | 10,176 | 19 | 39,432 | 6,460 | 1,925 | 8,385 | 21 | 13,559 | 1,538 | 253 | 1,791 | 13 |
| 1963 | 54,724 | 10,082 | 3,606 | 13,688 | 25 | 41,216 | 6,959 | 3,606 | 10,565 | 26 | 13,508 | 3,125 | 0 | 3,123 | 23 |
| 1964 | 62,898 | 11,846 | 5,311 | 17,157 | 27 | 41,010 | 7,576 | 4,879 | 12,455 | 30 | 21,888 | 4,270 | 432 | 4,702 | 21 |
| 1965 | 67,387 | 8,066 | 4,200 | 12,266 | 18 | 47,651 | 5,768 | 3,594 | 9,362 | 20 | 19,736 | 2,298 | 606 | 2,904 | 15 |
| 1966 | 68,178 | 8,030 | 3,372 | 11,402 | 17 | 49,504 | 5,529 | 3,189 | 8,718 | 18 | 18,674 | 2,501 | 183 | 2,684 | 14 |
| 1967 | 64,200 | 7,660 | 2,870 | 10,530 | 16 | 46,100 | 5,220 | 2,690 | 7,910 | 17 | 18,100 | 2,440 | 180 | 2,620 | 14 |
| 1968 | 65,900 | 7,160 | 2,250 | 9,410 | 14 | 45,600 | 4,170 | 1,980 | 6,150 | 13 | 20,300 | 2,990 | 270 | 3,260 | 16 |
| 1969 | 66,000 | 7,800 | 2,118 | 9,918 | 15 | 46,300 | 5,800 | 2,080 | 7,880 | 17 | 19,700 | 2,000 | 38 | 2,038 | 10 |
| 1970 | 73,560 | 10,150 | 2,530 | 12,680 | 17 | 52,190 | 6,920 | 2,420 | 9,340 | 18 | 21,370 | 3,230 | 110 | 3,340 | 16 |
| 1971 | 74,550 | 7,830 | 2,440 | 10,270 | 14 | 51,640 | 5,330 | 2,260 | 7,590 | 15 | 22,910 | 2,500 | 180 | 2,680 | 12 |
| 1972 | 79,100 | 8,075 | 2,235 | 10,310 | 13 | 53,700 | 5,742 | 2,188 | 7,930 | 15 | 25,400 | 2,333 | 47 | 2,380 | 9 |
| 1973 | 98,300 | 11,087 | 2,913 | 14,001 | 14 | 65,100 | 7,626 | 2,735 | 10,361 | 16 | 33,200 | 3,461 | 178 | 3,640 | 11 |

1973 ANTELOPE SEASON (77% Return)

| Management Units | Tags Issued | Report Cards Received | Number Did not Hunt | Number Hunted | Reported Harvest | Percent Success | Hunter-Days |
|--------------------------|--------------|-----------------------|---------------------|---------------|------------------|-----------------|--------------|
| Beulah | 75 | 62 | 0 | 62 | 46 | 74 | 139 |
| Fort Rock-Silver Lake | 25 | 16 | 0 | 16 | 7 | 44 | 36 |
| Hart Mountain | 160 | 131 | 6 | 125 | 69 | 55 | 303 |
| Interstate (Lake County) | 50 | 40 | 0 | 40 | 20 | 50 | 100 |
| Juniper | 125 | 98 | 7 | 91 | 57 | 63 | 208 |
| Malheur | 150 | 112 | 4 | 108 | 74 | 69 | 219 |
| Maury | 75 | 59 | 6 | 53 | 19 | 36 | 149 |
| Murderer's Creek | 15 | 11 | 1 | 10 | 10 | 100 | 13 |
| Ochoco | 50 | 35 | 0 | 35 | 19 | 54 | 93 |
| Owyhee | 150 | 108 | 5 | 103 | 40 | 39 | 341 |
| Paulina-Wagontire | 125 | 100 | 4 | 96 | 36 | 38 | 269 |
| Silvies | 75 | 60 | 2 | 58 | 34 | 59 | 154 |
| Steens Mountain | 160 | 124 | 7 | 117 | 59 | 52 | 296 |
| Warner | 115 | 89 | 2 | 87 | 33 | 38 | 250 |
| Whitehorse | 250 | 188 | 6 | 182 | 101 | 55 | 467 |
| National Antelope Refuge | 15 | 15 | 0 | 15 | 13 | 87 | 30 |
| TOTALS | 1,615 | 1,248 | 50 | 1,198 | 637 | 53 | 3,067 |
| Gerber Res. Archery | 65 | 38 | 4 | 34 | 2 | 6 | 153 |

Estimated total harvest — 749.

This and That

compiled by Ken Durbin

A soft drink can dropped in the woods on Labor Day 1972 will likely be completely degraded by Labor Day 2473, a scientist at Pennsylvania State University recently reported. The prediction flows from a study a university group has undertaken on the life expectancy of litter. A conventional plastic wrapper would be fully degraded by late 2200 "or thereabouts". A glass bottle would not be broken down until 1,001,972 and this was a guarded estimate because glass-like rocks, such as obsidian, may be as old as the earth. Decay rates vary with local conditions and in a tropical rain forest the numbers should be reduced by a hundred years.

Conservation-oriented organizations and individuals who want a comprehensive list of groups and individuals "concerned with natural resource use and management" will find the National Wildlife Federation's CONSERVATION DIRECTORY a welcome addition to their library. This 200-page directory is available for \$2 from the National Wildlife Federation, 1412 - 16th Street NW, Washington, D.C. 20036. Send payment and request "Item 79525".

A \$10 Golden Eagle Passport for people under 62 and a free Golden Age Passport for senior citizens are now available at more than 70 national parks and recreation areas where they provide admission. The Passports can also be obtained at first and second class post offices.

Good for one year, the Passport offers purchaser and all accompanying him or her in a single, private, noncommercial vehicle access without additional charge to national parks and other recreation sites in 24 states, from Massachusetts to California, where federal entrance fees are levied. Park visitors may elect to pay single-visit entrance fees instead of purchasing an annual Passport.

While the Golden Eagle Passport does not cover camping or other special recreation use fees, the Golden Age Passport permits free entry and a 50 percent discount on camping and other special use fees. For more information, write to the National Park Service, U.S. Department of the Interior, Washington, D.C. 20240.

A recent study at Utah State University on financing nonconsumptive use of a local elk herd expectedly revealed that consumptive users — hunters — provide the bulk of money used for necessary management, according to the Wildlife Management Institute. However, the study uncovered preferences of nonconsumptive users for ways to pay their share if forced to.

Most visitors to the area enjoyed their stay but there was evidence that sportsmen enjoyed their visit more. Although most visitors did not object to license fees being used for managing the area, the most popular alternative (55%) was an admission charge. Thirty percent of the visitors interviewed selected general fund money as the most acceptable alternative.

The Better Business Bureau of Lubbock, Texas reports that an article contained in its publication *The Brief*, and which was reprinted in the March issue of this magazine, was incorrect. In that article, BBB/Lubbock claimed an organization called the Animal Protection Institute of America spent only 9 percent of some \$167,000 in donations for its stated purposes of "eliminating or alleviating fear, pain and suffering among animals".

In its retraction the Bureau points out that API's primary activity is its advertising campaigns designed to promote humane treatment of animals and that the bulk of its funds are spent in this way. Funds for the Animal Protection Institute are raised through advertising and special mail appeals to members.

The following clipping was from a Manchester, Iowa newspaper dated March 16, 1885.

"The recent frightful accident which happened to a stage in southern Oregon cannot fail, says the New York Times, to call attention of the state authorities to the necessity of protecting settlers against the attacks of salmon. The stage in question was crossing Applegate Creek when it was suddenly attacked by a drove of salmon. The stage was instantly overturned, and the hungry fish swarmed over it, while the stage driver, with great presence of mind, cut the traces of the horses, and throwing himself across the off wheel horse, a powerful animal formerly the property of Doctor Goodrich, of Olympia, managed to escape. The dispatch which conveys to us this painful story says nothing of the fate of the stage passengers, but, unfortunately there is every reason to believe that they fell victims to the salmon.

"The Oregon salmon has long been regarded by experienced western hunters as the most dangerous animal infesting this continent. It is much larger than the salmon of the Atlantic coast, and unlike the latter, which is timid and inoffensive, this fish is fearless and aggressive."

Here's the latest accounting of the American hunters' financial support for conservation: Their license fees currently are providing more than \$107 million a year for conservation of both game and nongame species. Since 1923, hunting license revenue has raised \$1.08 billion for conservation.

Hunters are now contributing more than \$47 million a year for this effort through the federal excise tax on sporting arms and ammunition, which, since 1937, has raised more than \$595 million.

At present, those who hunt contribute almost \$11 million a year through duck stamp purchases. The stamps have brought in \$143 million for waterfowl conservation since 1934.

In less than 50 years these sportsmen, whom anti-hunters say have no reverence for animal life, have provided the massive total of \$2.5 billion for conservation and wildlife development. □

Lead Shot May Be Banned On Sauvie Island Management Area

The Oregon Wildlife Commission announced last Friday its intention to require the use of steel shot for waterfowl hunting on Sauvie Island Wildlife Management Area beginning this fall. The decision came as a result of a recent study which indicates a very high incidence of lead poisoning among the more prevalent waterfowl species using the area.

Wildlife Commission staff will be investigating the commercial availability of shotgun ammunition loaded with steel shot and developing other details of the proposed regulation during the next few weeks. A public hearing to consider the proposal will be held June 1. At that time the Commission will welcome comment and discussion on the proposal.

Lead poisoning in waterfowl has caused a growing alarm among both waterfowl hunters and wildlife managers across the nation in the past 15 years.

It occurs when waterfowl pick up spent lead shot pellets found in their environment and swallow them. This happens when the birds feed in certain areas where there has been heavy shooting over a period of years. These pellets are often retained in the gizzard along with the grit waterfowl swallow to help grind up their food. Unfortunately, the powerful gizzards also wear down the lead pellets, allowing the lead to enter the bloodstream.

Substantial losses of waterfowl in some parts of the country have been linked to lead poisoning and many studies have been conducted in attempts to learn more about the problem, especially in the east and midwest where the problem first came to light and where it seems to be at its worst.

Most studies conducted in the Pacific Flyway show it to be a less significant problem here. But a study completed during the last waterfowl season by Wildlife Commission



Some of the worn shot removed from duck gizzards by biologist Al Smith working at Sauvie Island.

biologist Allan Smith indicates Sauvie Island is an exception.

Unlike most western waterfowl areas, Sauvie Island is underlain with a heavy layer of clay which apparently keeps lead shot from settling out of reach of feeding ducks. Thus lead pellets remain readily available to waterfowl, even in refuge portions of the island where hunting has not been allowed for many years.

Smith's study was conducted during the 1973-74 waterfowl season and in a sample of more than 900 hunter-killed ducks he found that alarming numbers of some species — especially mallards and pintails — contained lead shot in their gizzards.

The gizzards were taken from ducks checked through the two Sauvie Island check stations at a rate of about 80 a week throughout the 12-week season. While the study concerned itself primarily with the more commonly shot dabbling ducks — mallards, pintails, greenwing teal, and American widgeon — samples of diving ducks were also taken. In addition, gizzards were removed from a separate sample of ducks that were in obviously poor or sick condition to determine if lead poisoning was the cause.

Of the mallards sampled, 42 percent contained shot in their gizzards. The same was true of 35 percent of the pintails checked. Teal and widgeon gizzards had a much lower incidence of shot with 12 percent in the teal and 3 percent in the widgeon. By contrast, 84 percent of the sick ducks and those in poor condition contained lead shot pellets.



These differences between species may be due to a preference for different sizes of grit. Widgeon, for example, eat a higher percentage of leafy vegetation than other species and they prefer a fine sand for grit. Teal also select finer grit than the larger mallards and pintails. The sizes of shot usually used by waterfowl hunters are larger than the grit preferred by widgeon and teal and this may be the reason they pick it up less frequently.

Compounding the problem, there are relatively few sources of grit on Sauvie Island and Smith feels the birds probably pick up the pellets on purpose for grit. Some may also be picked up accidentally as the birds feed on vegetation from the bottom of shallow lakes.

The greatest number of shot found in one duck by Smith was 40 in a lesser scaup. He also found pieces of glass, bits of steel and brass, and other unusual materials. In a prior study a mallard gizzard was found that contained an amazing 241 lead pellets.

How many pellets constitute a fatal dose for a duck? Studies conducted elsewhere in the country in which pen-raised mallards were fed controlled numbers of shot pellets showed that ducks usually died when they were fed eight or more pellets. Some ducks died with fewer pellets.

Diet seems to play an important role in lead shot poisoning. In areas where ducks feed primarily on large hard grains such as corn, they are apparently more susceptible to the effects of lead poisoning. Probably this is because the harder and larger

grain wears the lead pellets away quickly.

Smith found noticeably poor body condition in nearly all of the Sauvie Island ducks that had ingested five or more pellets. The number of ducks that may actually die from lead poisoning at Sauvie Island is unknown. Not many are observed. But there are high predator populations on the island and many lead poisoned ducks may escape notice because they don't remain in the environment very long. In addition, it is possible that ducks suffering the effects of lead poisoning are taken more often by hunters.

A similar study of lead poisoning was conducted at Sauvie Island in 1963. Although a smaller number of ducks were examined, its conclusions were nearly identical to Smith's. Apparently the problem is not a new one, but in the past there was not much that could be done short of stopping all hunting and discouraging duck use of the area.

Ammunition companies have made progress in the past few years toward development of lead shot substitutes, the most promising experiments in this country being with steel shot. Tests have revealed that there is little difference in killing power between lead shot and lead shot substitutes within 40 yards.

A major disadvantage is that steel shot seems to be most practical in 12 gauge shells or larger. Because of its greater volume for a given weight, efforts to develop effective waterfowl loads for the smaller gauges have been discouraging. Although there have been fears of long-term damage to gun barrels through the use of steel shot, several ammunition companies have found the damage to be negligible in modern shotguns.

Evidence to date indicates no need for a widespread adoption of lead shot substitutes in the Pacific Flyway as has been considered for the Atlantic and other flyways. In most western waterfowl areas the shot apparently works its way into the soft bottoms of waterfowl marshes where it becomes unavailable to feeding ducks.

Since this does not take place at Sauvie Island because of the hard clay layer there, the Commission feels a switch to nonlead shot is a first step towards alleviating a serious waterfowl health problem. □

BRYCE POWELL RECEIVES AWARD



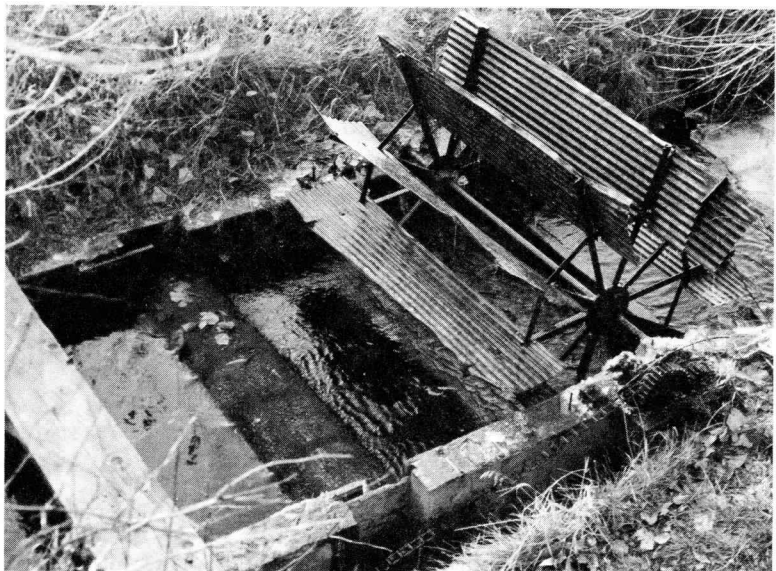
It has been said that the rotary fish screens in the state save as many fish as all of the hatcheries produce. No one has made a count, but there is no question that these ingenious devices do keep many a small fish on the proper route downstream.

Bryce Powell for some 20 years has been screen maintenance foreman in the John Day area. It is through the efforts of Bryce and his crew that the screens are maintained and kept functioning. Well known to the landowners of the area, Bryce is responsible for seeing the many hundred screens are working at saving fish and not interfering with the irrigation of the landowners.

The above photo shows Bryce receiving the Shikar-Safari Club International award as Oregon's

Wildlife Conservation Officer of the Year. Presenting the award certificate to Bryce is well-known astronaut Wally Schirra. The presentation was made last month in Seattle where the individual from Washington state was also honored.

Below is one of the typical screen installations of northeastern Oregon. It is placed in an irrigation diversion. The water is diverted from a stream at the left and is headed for the fields on the right. Small salmon and steelhead moving downstream are shunted via a tunnel back to the stream by the round screen drum in the water. The paddle wheel keeps the drum rotating so leaves and other debris will be washed off and not clog the screen and hence the water supply in the ditch.



1973 BIRD SEASONS

By CHESTER E. KEBBE

Staff Biologist, Small Game Management

Izaak Walton League Sponsors Snake River Tour

A rare adventure is being offered to the public, featuring a white water boat trip into the spectacular Hells Canyon of the Snake River, the deepest gorge in North America.

The trip will include charter bus pickup from Roseburg, Eugene, Salem, Portland and other points along the route. The group will travel up the scenic Columbia River Gorge to Lewiston, Idaho. The next morning the party will board the "Idaho Queen" and Capt. Dick Rivers will navigate the scenic 100 river miles to the head of navigation.

For two nights the group will be guests at the Devil's Doorway Lodge. From this point there will be horseback or helicopter rides to points of interest within the canyon. There will also be conducted hikes and fishing.

Cooperating in the trip, the Oregon Wildlife Commission, the Forest Service and other agencies will provide interpretation related to the wildlife, Indian culture, land and water resources of this unique area where four life zones are compressed into the steep confines of the canyon walls.

Costs for the nonprofit trip will be a maximum of \$188, depending upon the participant's point of departure. All will enjoy five delightful days with over 200 miles of comfortable river cruise and from 700 to 1,000 scenic miles of land travel.

The charter bus pickup will begin at Roseburg, Oregon, at 7 a.m. on May 14. All voyagers will be returned to their point of departure by the evening of May 18. The tour will be limited to the first 30 persons to apply.

Anyone interested in making the trip should at once write or call:

PACIFIC WEST REGION

Izaak Walton League

P.O. Box 1003,

Roseburg, Ore. 97470

Phone: (503) 673-7491 □

Upland game bird and waterfowl hunters enjoyed fair hunting in 1973 but with a harvest of birds slightly below the take of 1972. This was confirmed by an annual questionnaire survey which randomly sampled Oregon's 401,289 licensed hunters. Results of the survey indicate that 82,500 upland bird hunters spent 572,000 days afield and bagged 751,200 birds while 48,800 waterfowl hunters took 552,800 ducks, geese and snipe.

An accompanying table presents the harvest and hunting pressure by county on the major species of game birds.

Upland Game

Pheasant hunting success and hunting pressure in 1973 show a direct correlation with the decline in statewide pheasant populations during the past 16 years. The number of pheasant hunters dropped slightly but the number of birds bagged declined from 179,000 in 1972 to 169,000 last season.

Quail populations are severely affected by prolonged periods of cold winter weather but recover rapidly with favorable nesting conditions. This was the situation in eastern Oregon in 1973. A quail population reduced by winter losses brought off fair-sized broods. Hunting pressure remained moderate during a shortened season but hunters were less successful. One hundred fifty-six thousand quail were taken compared with 190,000 in 1972.

Chukar partridge production in 1973 was down sharply throughout

much of its range and as a result fewer birds were available for the fall hunting season. Hunters bagged 95,600 chukars compared with 121,500 in 1972.

High populations of blue and ruffed grouse throughout forested regions in Oregon resulted in a take of 60,300 birds, the largest harvest in the past 16 years. The heavy harvest occurred in spite of fire closures of prime grouse territory in northeastern Oregon during most of the September season.

Cool weather in late August triggered an early migration of doves and band-tailed pigeons from Oregon and when the season opened on September 1 the summer population had dwindled sharply. One hundred fifty-six thousand doves and 66,000 pigeons were bagged before the birds migrated south. In 1972, 192,000 doves and 87,000 pigeons were taken.

Waterfowl

The forecast of a 12 percent decline in the size of the fall flight of ducks from Canada was apparent in Oregon as hunters reported poorer hunting and fewer birds taken last winter than during the 1972 season. Poor hunting weather, along with fewer birds, resulted in a drop in the duck harvest from 519,800 in 1972 to 459,000 last year.

Goose production was up slightly in 1973, especially in the Arctic nesting species, and resulted in fair flights of snow and Canada geese into Oregon. Hunters enjoyed good hunting during favorable weather periods and bagged 53,400 geese compared with 45,600 in 1972. □



1973 GAME BIRD HARVEST

| Countries By Region | Pheasants Hunters | Pheasants Harvest | Mt. & Valley Quail Hunters | Mt. & Valley Quail Harvest | Chukar Partridge Hunters | Chukar Partridge Harvest | Blue & Ruffed Grouse Hunters | Blue & Ruffed Grouse Harvest | Mourning Dove Hunters | Mourning Dove Harvest | Band-tailed Pigeon Hunters | Band-tailed Pigeon Harvest | Hunters | Waterfowl Duck Harvest | Goose Harvest |
|------------------------|----------------------|----------------------|----------------------------------|----------------------------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|---------|------------------------------|------------------|
| Benton | 1,796 | 1,794 | 619 | 835 | 94 | 556 | 427 | 1,158 | 403 | 2,323 | 210 | 340 | 1,696 | 21,679 | 2,249 |
| Clackamas | 1,691 | 1,701 | 774 | 1,395 | | | 929 | 2,231 | 650 | 6,537 | 556 | 1,763 | 648 | 3,979 | 31 |
| Clatsop | 93 | 124 | 31 | 0 | | | 638 | 1,474 | 93 | 62 | 403 | 2,852 | 1,603 | 25,484 | 678 |
| Columbia | 451 | 902 | 124 | 277 | | | 1,101 | 4,251 | 155 | 618 | 581 | 5,475 | 1,887 | 23,147 | 1,048 |
| Lane | 3,401 | 6,068 | 2,131 | 8,066 | 156 | 155 | 3,242 | 11,108 | 985 | 7,286 | 1,665 | 14,400 | 3,410 | 29,284 | 1,335 |
| Lincoln | 62 | 31 | 0 | 0 | | | 279 | 838 | 62 | 310 | 495 | 4,114 | 389 | 3,006 | 92 |
| Linn | 1,733 | 2,443 | 773 | 3,522 | | | 805 | 1,239 | 835 | 7,361 | 340 | 2,445 | 1,410 | 13,676 | 1,131 |
| Marion | 3,133 | 4,475 | 1,604 | 4,940 | | | 340 | 834 | 1,421 | 13,125 | 527 | 3,792 | 1,926 | 16,812 | 616 |
| Multnomah | 1,144 | 1,888 | 248 | 371 | | | 155 | 185 | 185 | 1,356 | 123 | 462 | 3,148 | 30,235 | 1,662 |
| Polk | 1,139 | 1,979 | 614 | 2,438 | | | 588 | 1,454 | 403 | 3,560 | 371 | 771 | 1,536 | 14,275 | 2,685 |
| Tillamook | 31 | 62 | 62 | 124 | | | 674 | 1,883 | 29 | 0 | 728 | 5,986 | 888 | 14,882 | 792 |
| Washington | 2,422 | 3,630 | 651 | 1,955 | | | 273 | 298 | 588 | 5,079 | 403 | 1,520 | 1,232 | 6,455 | 611 |
| Yamhill | 1,789 | 2,542 | 372 | 1,086 | | | 488 | 1,189 | 403 | 5,056 | 155 | 1,054 | 834 | 17,309 | 1,049 |
| NORTHWEST | 18,885 | 27,639 | 8,003 | 25,009 | 250 | 711 | 10,744 | 28,142 | 6,212 | 52,673 | 6,557 | 44,974 | 20,607 | 220,223 | 13,979 |
| Coos | 31 | 62 | 402 | 2,133 | | | 680 | 2,039 | | | 1,015 | 10,963 | 1,723 | 32,616 | 154 |
| Curry | 0 | 0 | 155 | 933 | | | 124 | 372 | 93 | 746 | 304 | 2,645 | 278 | 2,252 | |
| Douglas | 1,419 | 4,104 | 1,445 | 7,326 | | | 1,357 | 3,851 | 495 | 3,006 | 768 | 2,888 | 833 | 6,448 | 31 |
| Jackson | 4,814 | 9,896 | 2,319 | 12,687 | 94 | 370 | 959 | 2,041 | 1,920 | 21,070 | 340 | 927 | 617 | 2,188 | |
| Josephine | 310 | 775 | 280 | 2,236 | | | 248 | 372 | 155 | 558 | 402 | 1,892 | 308 | 1,823 | 62 |
| SOUTHWEST | 6,574 | 14,837 | 4,601 | 25,315 | 94 | 370 | 3,368 | 8,675 | 2,663 | 25,380 | 2,829 | 19,315 | 3,759 | 45,327 | 247 |
| Crook | 712 | 2,134 | 802 | 9,741 | 219 | 957 | 93 | 62 | 402 | 6,028 | | | 679 | 5,681 | 61 |
| Deschutes | 649 | 2,071 | 1,240 | 9,070 | 251 | 185 | 93 | 155 | 799 | 7,264 | | | 1,845 | 9,564 | 433 |
| Hood River | 124 | 280 | 93 | 280 | | | 180 | 452 | 91 | 603 | 62 | 123 | 31 | 434 | |
| Jefferson | 1,340 | 3,803 | 617 | 3,485 | 437 | 981 | 62 | 31 | 493 | 9,047 | | | 427 | 2,705 | 123 |
| Klamath | 2,723 | 6,158 | 744 | 4,961 | 344 | 1,300 | 403 | 712 | 867 | 7,872 | 62 | 1,668 | 7,537 | 64,790 | 11,634 |
| Sherman | 1,206 | 3,614 | 524 | 4,968 | 1,337 | 6,057 | 31 | 93 | 216 | 2,497 | | | 401 | 3,328 | 3,077 |
| Wasco | 2,061 | 5,312 | 1,083 | 7,314 | 1,557 | 6,057 | 371 | 711 | 672 | 6,814 | 93 | 247 | 586 | 7,565 | 924 |
| CENTRAL | 8,815 | 23,372 | 5,103 | 39,819 | 4,145 | 15,537 | 1,233 | 2,216 | 3,540 | 40,125 | 217 | 2,038 | 11,506 | 94,067 | 16,252 |
| Baker | 2,651 | 8,875 | 1,395 | 10,541 | 3,859 | 32,762 | 922 | 2,969 | 521 | 4,339 | | | 1,019 | 9,701 | 365 |
| Gilliam | 241 | 520 | 273 | 994 | 708 | 2,866 | 31 | 124 | 93 | 590 | | | 31 | 1,239 | 494 |
| Grant | 402 | 616 | 650 | 3,800 | 401 | 526 | 674 | 2,663 | 155 | 651 | | | 302 | 746 | 216 |
| Morrow | 1,625 | 5,147 | 826 | 3,241 | 963 | 4,297 | 92 | 247 | 31 | 124 | | | 246 | 3,969 | 1,292 |
| Umatilla | 6,399 | 29,399 | 1,796 | 9,974 | 1,282 | 5,668 | 1,341 | 4,718 | 775 | 10,392 | | | 2,768 | 36,338 | 7,283 |
| Union | 1,834 | 5,258 | 682 | 2,783 | 470 | 2,020 | 1,121 | 4,857 | 124 | 2,537 | | | 834 | 5,609 | 307 |
| Walla | 366 | 589 | 186 | 1,736 | 745 | 5,576 | 877 | 5,146 | 87 | 479 | | | 185 | 1,138 | 246 |
| Wheeler | 371 | 1,178 | 278 | 4,734 | 624 | 4,672 | | | 247 | 5,248 | | | 62 | 216 | 62 |
| NORTHEAST | 13,889 | 51,582 | 6,086 | 37,803 | 9,052 | 58,327 | 5,058 | 20,724 | 2,033 | 24,360 | | | 5,447 | 58,956 | 10,265 |
| Harney | 495 | 1,394 | 340 | 2,194 | 938 | 4,026 | 93 | 187 | 372 | 5,482 | | | 739 | 6,224 | 2,283 |
| Lake | 836 | 1,825 | 494 | 3,939 | 438 | 958 | 216 | 433 | 371 | 2,667 | | | 2,421 | 15,911 | 8,277 |
| Malheur | 8,562 | 49,007 | 3,160 | 21,951 | 3,740 | 15,684 | | | 681 | 6,164 | | | 2,064 | 18,299 | 2,098 |
| SOUTHEAST | 9,893 | 52,226 | 3,994 | 28,084 | 5,116 | 20,668 | 309 | 620 | 1,424 | 14,313 | | | 5,224 | 40,434 | 12,658 |
| STATE TOTAL | 58,056 | 169,656 | 27,787 | 156,030 | 18,657 | 95,613 | 19,907 | 60,377 | 15,872 | 156,851 | 9,603 | 66,327 | 46,543 | 459,007 | 53,401 |

(Continued from Page 3)

Hunters bagged an estimated 14,000 elk during the season, an increase of nearly 4,000 animals above 1972. The 1973 harvest exceeded that of any other year except 1964 when 17,000 were taken. Success averaged 14 percent in 1973 compared with the 13 percent experienced the previous year. Roosevelt elk hunters took 3,640 (26 percent) of the total, representing a 53 percent increase in kill over that of 1972.

In analyzing the causes for such a substantial increase in elk tag sales, it is apparent that concern about high meat prices was the major factor. Many hunters who went afield for the first time in hopes of bagging the winter's meat supply obviously were disappointed and, in the process, caused hunting quality to deteriorate. In an effort to maintain quality and protect elk populations, the Commission has taken several steps in the past, including shortened seasons to preserve more bulls, separate elk tags requiring the hunter to choose between eastern and western Oregon, and road closures restricting vehicle travel in the more popular hunting areas.

The most important consideration in managing elk is to protect the resource and assure that calf production is not affected by hunting. Recent classification of over 10,000 elk to determine sex and age ratios reveals that hunting last fall cropped a higher percentage of the bulls but calf ratios remained stable. The influence on reproduction of fewer mature bulls can only be measured in the future through checking the calf crop. There is no biological justification for reducing the bull harvest until there is evidence of a decline in production. Reproduction to date appears satisfactory and that is the major concern. Equally significant in designing regulations is to determine if last fall's increase is a continuing factor or if the fuel shortage and disappointment on the part of first-time hunters will cause declining hunter interest this fall.

ANTELOPE

The antelope season extended from August 18 through August 22 with 1,615 tags authorized for 16 areas in southeastern Oregon. Hunters reported taking 749 antelope for an average of 53 percent success.

BEAR

Bear hunting was allowed statewide from August 1 through December 31 with a bag limit of one bear. No tag was required. The 15,852 hunters reported taking 2,369 bear. Hunters and harvest increased 63 and 59 percent, respectively, compared with 1972.

COUGAR

Eighty-three cougar tags were authorized for use during December in four areas of northeastern Oregon and one area of southwestern Oregon. The 54 participating hunters bagged 16 cougar, all from northeastern Oregon.

BIGHORN SHEEP

Ten hunters had a once-in-a-lifetime opportunity to hunt bighorn sheep in the Owyhee and Steens Mountain Units September 15 through September 21. Only one of the eight hunters in the Steens Mountain Unit was successful. The Owyhee Unit was open for the first time and both tag holders were successful in bagging a trophy bighorn.

BOW HUNTING

The general archery season extended from August 25 through September 30 with other opportunities being available through February 15, 1974. Areas open to bow hunting only included 1 for antelope, 4 for elk, 13 for deer and 8 for both deer and elk. The 16,830 archery hunters reported taking 1,155 deer, 152 elk, 121 bear and 3 antelope.

The accompanying tables display results of the 1973 big game seasons. Estimates are based on projected information from questionnaires returned by hunters who were selected at random. □

Environmental Events

The Land Conservation and Development Commission is holding a series of public meetings throughout the state to obtain local opinion on statewide land use goals and guidelines. Everyone interested in wildlife management and outdoor recreation should participate.

The State Water Resources Board revised its beneficial water use programs for the Umpqua and Middle Coast Basins. The changes strengthened the minimum stream flow base and added other restrictions to consumptive water uses. Similar revisions are now being studied for the Rogue and South Coast Basins.

A proposed motorcycle park was denied by the Washington County Planning Commission after determining that adequate plans had not been made to avoid environmental damage.

An evaluation of the proposed McNary Dam second powerhouse showed that it would not have serious wildlife damages if adequate fish passage and protective features are provided.

There has been an 80 percent increase in 1974 permit applications for fill and removal activities in natural waterways. The series of winter floods is the principal reason for the many more watershed projects this year. The department is providing advice on each request to assure the work will be compatible with natural wildlife habitat.

Waste oil pollution of Force Lake in the Delta Park area of north Portland recently killed several hundred fish and some waterfowl. The Wildlife Commission staff is cooperating with the Department of Environmental Quality in determining the source of the oil. □



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