Oregon's

# SPÉCIALTY Animal industries

Farm-raised Fur and Game Fish and Sea-food Horses and Mules Goats and Mohair Rabbits for Meat Apiary Products, etc.

1936

1946

#### STATISTICAL YEARBOOK

Containing state and county estimates of production and value of farm marketings from 1936 through 1946, prepared by the Oregon State College Extension Service, Agricultural Economics Section.

Oregon State System of Higher Education Federal Cooperative Extension Service Oregon State College Corvallis

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#### EXPLANATION OF TERMS

#### (Unless otherwise noted)

ESTIMATES are expressions of judgment regarding what is true at any given time based on incomplete data, past relationships, calculation, appraisement, and general knowledge of the subject under consideration, and are published subject to revision. Tables or data marked "preliminary" are especially subject to further consideration and revision.

NUMBERS for the different animal industries are estimates as of January 1 of the year indicated.

VALUE OF FARM MARKETINGS is intended to represent the money income to the producer from the sale of products grown by the seller and sold during the usual marketing season that begins in the year indicated. It is obtained by evaluating, at the average farm price, quantities produced during a crop year and sold or held for sale. Therefore, some of these data are for a marketing season, not the calendar year income. In the case of fish and sea foods, the term "value" is value of landings, intended to represent money paid to fishermen for their catch, during a calendar year.

AVERAGE FARM PRICE is the weighted average of prices received by farmers at usual marketing points for quantities sold during the marketing periods.

#### TYPE OF FARMING DISTRICTS

Much of the data for the state has been broken down into the following districts:

District 1-Willamette Valley counties: Benton, Clackamas, Lane, Linn, Marion, Multnomah, Polk, Washington, and Yamhill.

- District 2-Coast and lower Columbia counties: Clatsop, Columbia, Coos, Curry, Lincoln, and Tillamook.
- District 3-Southern Oregon counties: Douglas, Jackson, and Josephine.
- District 4-Columbia Basin counties: Gilliam, Hood River, Morrow, Sherman, Umatilla, Wasco, and Wheeler.
- District 5-Snake River Basin counties: Baker, Malheur, Union, and Wallowa.

District 6-South Central counties: Crook, Deschutes, Grant, Harney, Jefferson, Klamath, and Lake.

## Oregon's Specialty Animal Industries

#### PRODUCTION AND INCOME ESTIMATES 1936-1946\*

[ N 1943 the group of specialty animal industries in Oregon includ-I ing farm-raised fur, the commercial fishing industry, horses and mules, mohair, and apiary products accounted for an income of \$10,055,000. This figure does not include the value of farm marketings of farm-raised game, goats and goat milk, rabbits, and karakul sheep, or receipts from wild fur. Value of farm marketings for the entire group probably exceeded \$11,000,000 in 1943.

Data on commercial fishing are not available for the years after 1943; hence estimates of totals could not be made for those years. It is evident, however, that income from some items was at least 25 per cent higher in 1945 than in 1943. The value of the annual take of wild game and game fish is not included. These and the other items of this group are discussed in detail in the body of the bulletin.

Table 1 shows value of farm marketings of some of these specialty animal industries from 1936 to 1945.

#### FUR AND GAME FARMING

There was a decline in the numbers of the principal fur bearing animals kept in captivity in Oregon between 1940 and 1945. Receipts from farm marketings of fox and mink furs and breeding stock, however, totaled \$1,485,000 in 1945, or 55 per cent more than in 1942, the first year for which separate figures are available. Production of muskrat and other miscellaneous fur bearing animals declined also during this period, and total receipts from these and from game farms did not rise in proportion to receipts from mink and fox.

Mink and fox are the principal fur bearing animals raised in captivity in Oregon. Muskrat, chinchilla, skunk, raccoon, beaver, and marten are among the miscellaneous animals kept for their furs.

<sup>\*</sup>The estimates published herein are based on information obtained through personal contact with informed persons—producers, shippers, dealers, federal agricultural statisticians, county agricultural agents, experiment station staff, officials of the State Game Commission, the U. S. Fish and Wildlife Service, the State Fish Commission, the State Apiary Inspector, and others in the 36 counties of the state, as well as considerable correspondence and study of historical data. Indebtedness and appreciation are gratefully acknowledged to all who have cooperated and contributed in any way to make this publication as accurate and com-plete as possible. Bureau of Agricultural Economics, U. S. Department of Agriculture, data were used for state average prices received by farmers for horses, mules, mohair, and honey; state numbers of horses, mules, goats clipped, and colonies of bees; and state figures on value of farm marketings of mohair. This bulletin was prepared by B. E. Black, assistant extension statistician, under the direction of L. R. Breithaupt, extension agricultural economist at Oregon State College. Data on fur and game farming, apiary products, and miscellaneous specialty animal numbers for the year 1936 to 1941 were taken from Extension Bulletin 608 published in 1942. County estimates of animal numbers for other years were assembled by B. W. Coyle, assistant extension statistician.

	Fish and	sea foods <sup>1</sup>	Fur an	d game farms	Apiary	products	Horses a	nd mules	Mol	lair <sup>s</sup>	
Year	Pounds ¢aught⁴	Total receipts	Number of farms	Value of farm marketings <sup>2</sup>	Number of colonies <sup>3</sup>	Value of farm market- ings <sup>4</sup>	Number on farms <sup>3</sup>	Value of farm market- ings <sup>4</sup>	Goats clipped	Value of farm market- ings	Total value of farm marketings
1936	$57,741,000\\68,945,000\\71,728,000\\83,513,000\\54,203,000\\91,725,000\\65,326,000\\70,289,000$	\$1,995,000 2,609,000 2,400,000 2,459,000 2,742,000 5,350,000 7,191,000 7,781,000	$\begin{array}{r} 400\\ 475\\ 500\\ 600\\ 600\\ 477\\ 317\\ 316\\ 277\end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{r} 43,750\\ 43,750\\ 50,000\\ 50,000\\ 51,000\\ 51,000\\ 54,000\\ 57,000\\ 59,000\\ 66,000\\ \end{array}$	<b>*************************************</b>	$\begin{array}{c} 165,000\\ 161,000\\ 153,000\\ 148,000\\ 145,000\\ 142,000\\ 137,000\\ 132,000\\ 132,000\\ 121,000\\ 115,000 \end{array}$	\$548,000 291,000 369,000 328,000 351,000 741,000 430,000 736,000	$\begin{array}{c} 116,000\\ 120,000\\ 123,000\\ 129,000\\ 120,000\\ 120,000\\ 120,000\\ 110,000\\ 106,000\\ 85,000\\ 75,000 \end{array}$	\$176,000 255,000 126,000 196,000 237,000 202,000 191,000 142,000 113,000	\$ 3,638,000 3,561,000 4,194,000 6,847,000 8,815,000 10,055,000

Table 1. CERTAIN SPECIALTY ANIMALS AND THEIR PRODUCTS, OREGON 1936-1945

<sup>1</sup>Figures from the Fish and Wildlife Service statistical office, rounded to nearest 1,000. <sup>2</sup>Includes income from sale of fur animals and ranch-raised game birds for years 1936 to 1941; ranch-raised fur only for years 1942 and 1945. <sup>a</sup>Compiled from data published by U. S. Department of Agriculture. <sup>4</sup>Interpolated by O. S. C. Extension Service.

There were 277 fur and game farms in Oregon in 1945, and 230 in the state in 1946, compared to 600 in 1940. These figures indicate a trend toward concentration of animal numbers on fewer and larger farms in the state.

Mink farms are located for the most part in the Willamette Valley and the Coast counties. Most of the fox farms are in the Willamette Valley, especially in Marion County, and in southern Oregon. Some fox and some mink, however, are produced in each of the six districts of the state.

Klamath, Deschutes, Clackamas, Coos, and Malheur counties each had several muskrat farms in 1940, but most of these farms are now out of business.

A few marten are produced, and chinchilla farms have been started in several counties over the state.<sup>1</sup> These and other miscellaneous fur and game enterprises will be discussed in the ensuing pages. Table 2 shows the value of farm marketings of fur and game through 1945.

#### Mink Farming

Mink farming has been developed into an important industry in Oregon in recent years. After 1941, however, there was a decline in the number of mink farms as well as number of animals kept. This decline continued through 1945 and was brought about largely by shortages of feed, labor, and other items during the war years. Numbers of breeders kept and the number of mink farms increased again in 1946.

There were approximately 130 farms keeping mink in 1945, with an estimated 16,700 breeders kept in the state. It is estimated that more than 42,500 mink pelts and 650 breeders were sold in 1945; the value of farm marketings of these items is estimated at \$1,197,000.

About 96 per cent of the total value of farm marketings was accounted for by the sales of pelts and 4 per cent by sales of breeding stock. Breeding animals sold for an average of \$75 each in the fall of 1945.

State average prices received for Oregon ranch-raised mink pelts were \$20 in the 1936-37 season, \$9.60 in the 1939-40 season, and \$27 in the 1945-46 season. Prices were indefinite at the beginning of the 1946-47 season, but improved later. Insufficient data were available at the time this bulletin was published to prepare averages for that season.

Most pelts are marketed at auction though some are shipped directly to buyers. Breeders are sold to other farmers interested in

<sup>1</sup>Chinchilla is a small squirrel-like rodent of the Andes Mountains in South America, highly valued for its fur.

Table 2. Fur and Game Farms: Estimates of Numbers and Value of Farm Marketings, by Districts, Oregon, 1936-1946p\*

District and item	1936 <sup>1</sup>	1937 <sup>1</sup>	1938	1939	1940	1941	1942	1943	1944	1945	1946p
District 1 Number of fur farms Number of fox kept Number of mink kept Number of other fur animals Value of farm marketings	  		200  \$160,000	270  \$217,000	260 3,600 5,400 1,075 \$320,000	250 3,300 6,500 1,080 \$338,000	215 2,825 6,375 1,080 \$402,000	133 2,450 6,125 1,075 \$ 465,000	134 2,325 6,000 1,025 \$ 536,000	96 2,225 5,860 820 \$ 678,000	2,211 7,090 370
District 2 Number of fur farms Number of fox kept Number of mink kept Number of other fur animals Value of farm marketings			175  \$200,000	200  \$225,000	$\begin{array}{r} 220\\ 350\\ 13,000\\ 2,010\\ \$337,000\end{array}$	210 320 13,800 10 \$360,000	$\begin{array}{r} & 171 \\ & 295 \\ 10,900 \\ & 5 \\ \$324,000 \end{array}$	116 275 10,050 5 \$ 480,000	116 250 9,950 5 \$ 570,000	88 145 9,150 \$ 610,000	130 11,08
District 3 Number of fur farms Number of fox kept Number of mink kept Number of other fur animals Value of farm marketings			35  \$ 25,000	40  \$ 36,000	35 400 400 \$ 31,500	30 375 450 \$ 33,000	26 375 450 \$ 41,000	21 350 475 \$ 47,000	21 325 600 \$ 61,000	21 300 300 \$ 40,000	410 285
District 4 Number of fur farms Number of fox kept Number of mink kept Number of other fur animals Value of farm marketings			35  \$ 60,000	30  \$ 45,000	25 900 300 10 \$ 49,000	20 850 350 10 \$ 55,000	26 825 325 \$ 75,000	21 725 225 20 \$ 63,000	21 575 150 20 \$ 58,000	18 575 140 \$ 45,000	570 190 25
District 5 Number of fur farms Number of fox kept Number of mink kept Number of other fur animals Value of farm marketings			25  \$ 15,000	25  \$ 12,000	20 200 700 2,000 \$ 20,000	20 205 800 50 \$ 20,000		14 200 700 100 \$ 48,000	13 225 700 100 \$ 58,000	10 200 650 100 \$ 48,000	150 1,050 100
District 6 Number of fur farms Number of fox kept Number of mink kept Number of other fur animals Value of farm marketings			30  \$ 25,000	35  \$ 40,000	40 350 1,200 2,750 \$ 42,500	30 300 1,100 2,750 \$ 44,000	22 300 1,050 2,450 \$ 63,000	12 300 1,125 2,350 \$ 87,000	11 300 1,100 1,600 \$ 107,000	$\begin{array}{r} 11\\255\\600\\1,100\\\$ 60,000\end{array}$	$\begin{array}{c} 260\\ 600\\ 200\end{array}$
State Total Number of fur farms <sup>2</sup> Number of fox kept Number of mink kept Number of other fur animals Value of farm marketings <sup>9</sup>	400  \$500,000	475  \$540,000	500  \$485,000	600  \$575,000	600 5,800 21,000 7,845 \$800,000	560 5,350 23,000 3,900 \$850,000	477 4,800 19,800 3,535 \$955,000	317 4,300 18,700 3,550 \$1,190,000	316 4,000 18,500 2,750 \$1.390,000	244 3,700 16,700 2,025 \$1,485,000	3,735 20,300 700

p Preliminary. \* Prepared by O.S.C. Extension Service. Information for 1936 and 1937 is not available on a district basis. Includes some game bird farms, 1936-1941. \*Includes income from the sale of fur and fur animals, and ranch-raised game birds from 1936-1941. Ranch-raised fur and fur animals only for years 1942-1946p.

improving their stock, or to new farms starting in the business. Many hybrids are being developed and a general improvement has taken place in the quality of breeders kept. This fact, coupled with high prices for furs during war years, caused most farmers to set higher values on breeding stock. According to recent surveys, mink farmers of the state placed an average value of \$90.60 on their breeding stock. According to these data, the total value of mink breeders on hand in Oregon, January 1, 1946 was in excess of \$1,800,000, an average of about \$13,800 per farm.

Table 3 shows pelt prices and the distribution of mink numbers and income from mink pelts for the 1945-46 season.

#### Fox Farming

Fox farming constitutes an important part of the farm-raised fur industry in Oregon. There was a decline, however, in both the number of farms keeping foxes and the number of fox breeders kept after 1940. An estimated 3,700 breeders were kept in 1945, and 3,500 in 1946, compared with 5,800 breeders on hand January 1, 1940. Shortages of feed and labor were the principal causes of this decline in numbers.

Survey data indicate that about 56,100 fox pelts were taken on farms in 1945, and more than 100 breeders were sold to bring a total of \$237,600. Sales of fox pelts and breeders contributed about 16 per cent of the total value of the farm marketings of fur breeders and furs of all types in Oregon in the 1945-46 marketing season.

It is estimated that 94 per cent of the receipts from the fox farms of Oregon occurred from the sale of pelts and the remaining 6 per cent from the sale of breeding stock.

According to available data, Oregon ranch-raised fox pelts sold during the 1936-37 season averaged \$40.00; 1940-41 season, \$31.50; 1941-42 season, \$31.50; 1942-43 season, \$31.00; 1943-44 season, \$50.50; 1944-45 season, \$52.00; and 1945-46 season, \$40.00.

Prices received for breeders in the 1945-46 season averaged about \$129.00, compared to \$87.50 in 1940. Data were too incomplete at the time this bulletin was published to prepare average prices for the 1946-47 season.

Most fox pelts are sold at auction. The demand for breeding stock has not been great in the last few years because of declining fox numbers. The development of new types has caused some activity, however. These new types plus increased pelt prices through 1945 tended to increase the valuation of the breeding stock. Survey data indicate that Oregon fox farmers valued their breeding stock on hand in January 1945 at about \$100 per head. These figures

						·	
			Mink			Fox	
District and county	Total num- ber of fur farms, January 1	Number on farms, January 1	Average farm pelt price	Value of farm marketings	Number on farms, January 1	Average farm pelt price	Value of farm marketings
District 1 Benton Clackamas Lane Linn Marion Multnomah Polk Washington Yamhili	$\begin{array}{c ccccc} & & 9 \\ 17 \\ 10 \\ 25 \\ 12 \\ 12 \\ 12 \\ 12 \\ 9 \end{array}$	$50 \\ 450 \\ 900 \\ 750 \\ 1,500 \\ 1,750 \\ 160 \\ 100 \\ 200$	\$20.00 20.00 27.00 28.00 43.00 27.00 27.00 27.00 29.00	* \$ 22,200 60,000 44,500 102,600 200,100 10,700 * 14,300	$50 \\ 110 \\ 400 \\ 75 \\ 800 \\ 350 \\ 100 \\ 300 \\ 40$	\$40.00 34.00 44.00 35.00 55.00	\$ 3,800 25,500 21,000 23,000 31,000
Total, District 1		5,860	\$31.00	\$ 463,600	\$2,225	\$40.00	\$135,000
District 2 Clatsop Columbia Coos Curry Lincoln Tillamook	16 10 5 5	$1,000 \\ 1,500 \\ 300 \\ 150 \\ 1,200 \\ 5,000$	$\begin{array}{r} \$2\$.00\\ 31.00\\ 27.00\\ 27.00\\ 27.00\\ 24.00\\ \end{array}$	$\begin{array}{c} \$ & 69,000 \\ 114,700 \\ 20,000 \\ 10,000 \\ 90,000 \\ 296,300 \end{array}$	35 100 	* 56.00 *	10,000 
Total, District 2	88	9,150	\$26.00	\$ 600,000	\$ 145	\$40.00	\$ 12,000
District 3 Douglas Jackson Josephine	9	200 50 50	. # #	*	$\begin{array}{r} 75\\150\\75\end{array}$	* 38.00 *	10,700 *
Total, District 3	21	300	\$27.00	\$ 21,700	\$ 300	\$40.00	\$ 18,000
District 4 Gilliam Hood River Morrow Sherman Umatilla Wasco	9 2  5 1		*	*	525  50	*	*
Wheeler	·	1.0	897.00	e 0.000			
Total, District 4	18	140	\$27.00	\$ 9,600	575	\$40.00	\$ 34,000

Table 3. Fur Farms: Estimates of Numbers and Value of Farm Marketings of Pelts by Counties and Districts, Oregon 19451

			Mink		-	Fox	
District and county	Total num- ber of fur farms, January 1	Number on farms, January 1	Average farm pelt price	Value of farm marketings	Number on farms, January 1	Average farm pelt price	Value of farm marketing
District 5 Baker Malheur Union Wallowa	$\frac{1}{6}$	 450 200	27.00 18.00	 30,000 8,900	 175 25	30.00 *	 9,800 *
Total, District 5	10	650	\$22.00	\$ 38,900	200	\$40.00	\$ 11,000
District 6 Crook Deschutes Grant Harney Jefferson Klamath Lake	3 2  5 1	100 	27.00	6,900 	100  155 	*	*
Total, District 6	11	600	\$27.00	\$ 40,200	255	\$40.00	\$ 15,000
State total	244	16,700	\$27.00	\$1,174,000	3,700	\$40.00	\$225,000

Table 3 (Continued). FUR FARMS: ESTIMATES OF NUMBERS AND VALUE OF FARM MARKETINGS OF PELTS BY COUNTIES AND DISTRICTS, OREGON 19451

<sup>1</sup>Prepared by O.S.C. Extension Service. \* Insufficient data; estimates are included in totals.

would indicate a total value of \$370,000 for all fox breeders kept in 1945, an average of about \$4,000 to \$5,000 per farm keeping foxes.

Table 3 shows distribution of fox numbers, pelt prices, and value of farm marketings from fur animals and their products in 1945.

#### Miscellaneous Fur Bearing Animals<sup>1</sup>

An estimated 5,250 muskrat were kept on farms for breeding purposes in 1940 when many farms over the state raised them for their furs. Handling muskrats under controlled conditions has generally not been successful, and both the muskrat numbers and number of farms have declined in recent years until only a few such farms are still in operation. An estimated 300 muskrat were kept in January 1946. Data are too incomplete for estimates of the value of farm marketings from muskrat raised in captivity.

There has been increased interest in the production of chinchilla on farms in Oregon in recent years. A total of ten or more farms were keeping chinchillas in the state by the end of 1946. Most of the breeding stock now being brought to Oregon was obtained from California and was produced from stock imported earlier from South America. These animals are produced primarily for their fur; however, few pelts have been produced by Oregon farmers thus far, and the industry has been confined to the production of breeding stock. Cash outlay for breeding stock has been extremely high in some cases. No income data are available.

Other fur bearing animals—skunk, raccoon, marten, beaver, and others—contribute some additional income to the total value of farm marketings from the fur bearing animals raised in captivity in the state.

#### Karakul Sheep

Karakul sheep produce lambskins commercially known as broadtail, Persian, or caracul fur. The production of karakul sheep attracted considerable attention in Oregon a few years ago, and several good-sized flocks were built up. Most of the breeders kept, however, were in very small flocks scattered over the state.

The quality of fur from the karakul sheep is extremely variable, and large imports and moderate to low prices for lambskin fur were against the profitable development of the karakul sheep industry.

The number of these animals kept on farms has declined slightly in recent years, and many of those remaining are mixed with other breeds.

<sup>1</sup>See Table 2 for distribution of these miscellaneous fur bearing animals.

No attempt was made to prepare income statistics on the karakul sheep for this publication. Table 4 shows the distribution and trend in estimated numbers kept in Oregon in recent years.

Table 4. KARAKUL SHEEP: NUMBERS ON FARMS, BY DISTRICT, OREGON 1940-1946p1

				Year			
District	1940	1941	1942	1943	1944	1945	1946p
District 1 District 2 District 3 District 4 District 5 District 6 State total	$   \begin{array}{r}     270 \\     45 \\     \hline     60 \\     200 \\     75 \\     650   \end{array} $	$\begin{array}{r} 820\\ 110\\ 125\\ 70\\ 400\\ 175\\ 1,700\end{array}$	685 110 125 70 375 235 1,600	$\begin{array}{r} 920\\ 160\\ 100\\ 120\\ 380\\ 320\\ 2,000\\ \end{array}$	7259075110 $3651351,500$	740 50 75 90 385 460 1,800	7054518095400751,500

p Preliminary. <sup>1</sup>Prepared by O.S.C. Extension Service.

#### Farm Raised Game

There were 33 game-bird farms in Oregon in 1945 and 31 in 1946, according to officials of the State Game Commission. No separate income figures are available on these and other game farms. In addition to the foregoing enterprises, some game birds were raised as 4-H Club projects. About 100 4-H Club members raised game birds in 1940, but shortages of feed and equipment made such projects impracticable during the war years.

#### Wild Fur, Game, and Sport Fishing

The catch of wild fur bearing animals contributes a substantial amount of income to Oregon trappers and hunters each year. Licensed trappers numbering 2,009 reporting to the Oregon State Game Commission in the 1945-46 season reported catching 61,395 muskrat, 6,567 mink, 4,027 raccoon, 2,045 covote, 1,846 skunk, 1,067 wildcat, 873 marten, 756 civet cat, 495 fox, 282 weasel, 216 otter, 40 badger, 31 nutria, and 30 opossum. Reports were considered to be about 75 per cent complete. The estimated cash value of the foregoing catch is more than \$300.000.

Aside from the farm raised fur and game, and of considerable value to the state, is the wild game taken each year. Estimates made by officials of the Oregon State Game Commission place the average annual take of game for the 10-year period, 1936 through 1946, at 25,000 deer valued at \$625,000; 3,000 elk valued at \$300,000; 200,000 upland game, mostly pheasants, valued at \$200,000; and 175,000 waterfowl valued at \$175,000-a total annual average value of \$1.300.000.

Oregon's many streams, lakes, and bays, and the Pacific Ocean are used for sport fishing. In a few counties, farm fish ponds are

being established. At present, these are used mostly for sport with a view eventually of developing a commercial enterprise. Data are not available on the value of the sport fishing catch.

#### FISH AND SEA FOODS

The commercial fishing industry is one of the major sources of income in Oregon. Estimates supplied by the Fish and Wildlife Service place the value of all fish and shellfish landed in Oregon during the 1943 season at \$7,781,000 from 70,289,000 pounds of fish and shellfish. In 1936 a total of 57,741,000 pounds was landed with a value of \$1,995,000. Income figures represent totals paid to the fishermen for the catch.

Many kinds of fish, both food fish and nonfood fish, are landed by commercial operators in Oregon from the rivers of the state, and from the Pacific Ocean. Clams, crabs, and oysters are also included in the figures mentioned above.

Table 5. All Commercial Food Fish and Shellfish Landed in Oregon, Annually 1936 to  $1943^{\rm 1}$ 

Year	Pounds	Value
1936	$\begin{array}{c} 29,348,100\\ 35,482,400\\ 37,692,300\\ 38,859,800\\ 46,230,300\\ 58,130,800\\ 58,510,900\\ 58,510,900\\ 62,062,500 \end{array}$	$\begin{array}{c} \$1,853,000\\ 2,391,000\\ 2,213,000\\ 2,213,000\\ 2,676,000\\ 4,189,000\\ 6,224,000\\ 6,094,000\\ \end{array}$

<sup>1</sup>These data do not include shark, skate, and pilchard, most of which were not used as food fish. Data taken from the Statistical Offices of the Fish and Wildlife Service.

An average of 20,330,000 pounds of commercial fish was taken from the rivers of Oregon annually from 1928 to 1937. The annual catch varied in the past few years from a high of 27,967,000 pounds in 1941 to a low of 13,798,000 in 1943. River caught fish for the years after 1943 are included in the figures in Table 8, but no separate data are available for these later years.

The several major kinds of food fish taken from the rivers are listed in Table 6. Table 7 shows pounds of fish caught in each of the 10 principal rivers of Oregon in recent years.

#### Oregon Landings of Ocean-caught Fish

An estimated 43,395,000 pounds of food fish taken from the Pacific Ocean was landed at Oregon ports in 1943. Data for other years are listed in Table 8, but separate data were not available on ocean-caught fish after 1943.

Table 6.	COMMERCIAL								BУ	KIND.	Average
		192	8-193	7. Annu	ALL	.y 193	8 TO 194	131			
				(1.000	) DO	unds)					

	1928- 1937			Y	ear		
Fish	average	1938	1939	1940	1941	1942	1943
Chinook salmon	11,546	10,176	10,504	10,849	17,355	13,406	9,092
Steelheads	1.712	1,849	1,510	2.637	2,287	1.614	1,243
Silversides	3,848	4,786	4,336	2,988	2,110	1,606	1,212
Blueback <sup>2</sup>	166	290	199	243	348	138	116
Chums	1,834	1,989	1,250	1,303	4,588	5,909	941
Sturgeon (white)	59	60	69	67	69	70	102
Sturgeon (green)	13	, ě	12	12	8	5	6
Shad	878	406	973	790	860	981	686
Smelt <sup>3</sup>	257	529	469	139	277	524	334
Bass <sup>4</sup>	17	44	77	69	65	56	66
Total	20,330	20,138	19,399	19,097	27,967	24,309	13,798

<sup>1</sup>Figures compiled from the Fish Commission, State of Oregon, Statistical Bulletin. <sup>2</sup>Columbia River only. <sup>3</sup>Mostly Columbia River. <sup>4</sup>Striped bass and bass.

Table 7. All Commercial Food Fish Taken in Rivers of Oregon, by River. Average1928-1937, Annually 1938 to 19431(1,000 pounds)

	1928- 1937			$\mathbf{Y}_{\mathbf{Y}}$	ear		
River	average	1938	1939	1940	1941	1942	1943
Alsea Bay and River Columbia River* Coos Bay and tributaries	$\begin{array}{r} 341\\14,585\\308\end{array}$	$\begin{smallmatrix}&511\\14,455\\&203\end{smallmatrix}$	$\begin{smallmatrix}&&600\\13,699\\&&224\end{smallmatrix}$	$\begin{smallmatrix}&368\\14,767\\&241\end{smallmatrix}$	$     \begin{array}{r}       383 \\       22,932 \\       185     \end{array} $	$\begin{smallmatrix}&&222\\18,711\\&258\end{smallmatrix}$	$143 \\ 11,562 \\ 249$
Coquille River Nehalem River Siletz River	235 827 257	$   \begin{array}{r}     435 \\     911 \\     244   \end{array} $	$     \begin{array}{r}       626 \\       770 \\       230     \end{array} $	375 688 149	$319 \\ 599 \\ 122$	$     \begin{array}{r}       268 \\       547 \\       109     \end{array} $	159 173 42
Siuslaw River Tillamook Bay and tribu-	322	451	473	288	237	173	13
taries Umpqua River Yaquina Bay and tribu-	$1,701 \\ 1,376$	$1,621 \\ 1,000$	$1,383 \\ 1,083$	1,159 870	2,343 650	3,154 725	861 382
taries	248	307	311	191	197	141	9

<sup>1</sup>Figures compiled from the Fish Commission, State of Oregon, Statistical Bulletin. \* Columbia River, Oregon side.

Table 8.	COMMERCIAL	FOOD	Fish	CAUGHT	IN	THE	PACIFIC	Ocean	AND	Taken	TO OREGON
			Por	TS, BY K	IN	D, 19	4 <b>1-1</b> 9451				

	1941	1942	1943	1944*	1945*
	Pounds	Pounds	Pounds	Pounds	Pounds
Chinook salmon	1,419,000	715,000	537,000	11,304,000	11,329,00
Steelheads	32,000		8,000	1,609,000	1,571,00
Silversides	2,261,000	1,049,000	670,000	4,721,000	4,987,000
Chums		11,000	2,000	533,000	1,168,000
Sturgeon (white)	1,000		5,000	183,000	179,00
Sturgeon (green)	2,000	9,000	24,000	18,000	30,000
Smelt	755,000	84,000	7,000	435,000	1,748,00
Ocean-bottom fish	9,789,000	15,760,000	31,623,000	20,652,000	27,891,00
Tuna	7,545,000	10,943,000	10,519,000	22,866,000	12,160,00

<sup>1</sup>Based on figures supplied by the Fish Commission, State of Oregon. \* All fish caught in Oregon rivers and the Pacific Ocean; no separate data available.

It is estimated that 382,200 pounds of clams and 5,437,000 pounds of crabs were sold to Oregon dealers in 1945 (Table 9). No figures were available on oysters.

The ocean fishing industry of Oregon is distributed throughout the coastal cities and up the Columbia River to Portland. Astoria probably has the greatest number of fisheries of the group. Newport and Coos Bay are among the other important fishing ports of the state.

Year	Clams	Crabs
1936           1937           1938           1939           1939           1934           1941           1942           1943           1944           1943	Pounds           447,500           447,600           471,600           664,300           654,600           276,800           132,200           134,200           267,500           382,200	Pounds 2,821,000 5,318,000 5,106,000 5,963,000 7,026,000 6,475,000 9,202,000 6,735,000 5,437,000

Table 9. C	RABS AND	Clams	Sold	то	Oregon	DEALERS	1936-1945 <sup>1</sup>
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<sup>1</sup>Figures obtained from offices of Fish and Wildlife Service.

Data on some of the nonfood fish landed in Oregon annually, 1936-1943, are shown in Table 10. The kinds included in this group are shark, skate, and pilchard. No data are available on landings of other nonfood fish.

Table 10. COMMERCIAL NONFOOD FISH LANDED IN OREGON 1936-19431

Year	Pounds	Value
1936 1937	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \$ & 142,000 \\ & 218,000 \\ & 187,000 \\ & 246,000 \\ & 66,000 \\ & 1,161,000 \\ & 968,000 \\ & 1,687,000 \end{array}$

<sup>1</sup>Includes sharks, skate, and pilchard. Figures obtained from Statistical Offices of the Fish and Wildlife Service.

#### APIARY PRODUCTS

Apiary products became increasingly important to Oregon farmers during the war and immediately afterward, when shortages of sugar caused an increased demand for honey. An estimated 68,000 stands of bees were kept on Oregon farms in 1946, compared to 51,000 in 1940 and 1941. Production of honey rose from an estimated 2,142,000 pounds in 1940 to 2,442,000 pounds in 1945, then declined to 1,904,000 pounds in 1946 because of lower yield per

	District 1		District 2		District 3		District 4	
Year	Colonies	Value of farm marketings <sup>2</sup>	Colonies	Value of farm marketings <sup>2</sup>	Colonies	Value of farm marketings <sup>2</sup>	Colonies	Value of farm marketings <sup>2</sup>
1940         1941         1942         1943         1944         1945         1946p	$19,000 \\ 19,000 \\ 20,200 \\ 21,100 \\ 22,150 \\ 25,500 \\ 26,200$	$\begin{array}{c} \$ & 26,000 \\ & 21,000 \\ & 42,900 \\ & 63,000 \\ & 65,700 \\ & 100,700 \\ & 92,300 \end{array}$	$\begin{array}{r} 4,300\\ 4,300\\ 4,550\\ 4,850\\ 4,850\\ 4,900\\ 5,850\\ 5,900\end{array}$	$\begin{array}{c} \$  4,500 \\ 5,000 \\ 4,800 \\ 5,300 \\ 7,900 \\ 11,300 \\ 9,900 \end{array}$	5,000 5,000 5,400 5,800 6,000 6,900 6,900	$\begin{array}{c} \$ & 7,500 \\ 8,000 \\ 11,000 \\ 15,400 \\ 20,000 \\ 25,400 \\ 25,400 \\ 25,400 \\ \end{array}$	6,500 5,700 6,215 6,750 6,765 7,250 7,250	$\begin{array}{c}\$12,500\\12,500\\10,200\\16,809\\18,400\\26,900\\26,000\end{array}$

Table 11. AFIARY PRODUCTS: COLONIES OF BEES, PRODUCTION, AND VALUE OF FARM MARKETINGS, BY DISTRICTS, OREGON 1940-1946p1

		District 5		District 6		State total			
15	Year	Colonies	Value of farm marketings <sup>2</sup>	Colonies	Value of farm marketings <sup>2</sup>	Colonies	Honey marketings <sup>2</sup>	Beeswax Colonies	Value of farm marketings <sup>2</sup>
	1940         1941         1942         1943         1944         1945         1946p	$10,200 \\ 10,500 \\ 11,175 \\ 11,850 \\ 12,385 \\ 13,300 \\ 14,100$	21,000 18,000 31,000 29,000 30,700 67,000 57,500	6,000 6,500 6,460 6,650 6,800 7,200 7,650		51,000 51,000 54,000 57,000 59,000 66,000 68,000	Pounds 2,142,000 1,683,000 1,620,000 1,881,000 1,888,000 2,442,000 1,904,000	Pounds 3 39,000 43,000 49,000 56,000 44,000	

p Preliminary. <sup>1</sup>State figures for honey and beeswax production and colonies of bees were compiled from data published by the U. S. Department of Agriculture, Bureau of Agricultural Economics. District and state estimates of value of farm marketings and district estimates of colonies of bees were prepared by the O.S.C. Extension Service. <sup>2</sup>Includes honey and beeswax. <sup>3</sup>No available data. <sup>4</sup>Includes income from sale of queen bees, etc.

colony. Production of beeswax rose markedly from 1942 to 1945, but declined between 20 and 25 per cent in 1946.

The value of farm marketings of apiary products was estimated at \$261,000 in 1945, or about three times greater than in 1940. In

Table 12. BEES: NUMBER OF COLONIES ON FARMS, BY COUNTIES AND DISTRICTS, OREGON 1941-1946p1

	1941-1	940p-				
District and county	1941	1942	1943	1944	1945	1946p
District 1						
Benton	900	1,000	1,100	1,200	1,500	1,500
Clackamas	1,500	1,600	1,700	1,800	2,000	2,500
Lane	3,100	3,200	3,300	3,400	3,800	3,800
Linn	2,200	2.300	2.400	2,500	3.000	3.000
Marion	2.500	2,700	2,800	3,000	3,500	3,700
Multnomah	2,400	2,600	2,800 2,700	2,800	$3,500 \\ 3,100$	3,100
Polk	1.300	1,500	1,600	1,650	2,000	2,000
Washington	2,600	2,700	2 800	3,000	3,500	3,500
Yamhill	2,500	2,600	2,800 2,700	2,800	3,100	3,100
Total, District 1	19,000	20,200	21,100	22,150	25,500	26,200
District 2						
Clatsop	600	650	700	700	800	800
Columbia	1,800	1,850	1,900	1,900	2.100	2,100
Coos	850	900	1,000	1,000	1,200	1,200
	150	150	200	200	450	500
Curry		400	400	400	500	500
Lincoln	400		650	700	800	800
Tillamook	500	600	050	100		
Total, District 2	4,300	4,550	4,850	4,900	5,850	5,900
District 3			1 100	1 500	1 700	1 700
Douglas	1,000	1,200 3,100	1,400	$1,500 \\ 3,300$	1,700 3,700	1,700 3,700
Jackson	3,000	3,100	3,200	3,300	3,700	3,700
Josephine	1,000	1,100	1,200	1,200	1,500	1,500
Total, District 3	5,000	5,400	5,800	6,000	6,900	6,900
District 4		1				
Gilliam	5	5	5	5	25	25
Hood River	100	100	135	150	300	300
Morrow	800	900	1,000	1,000	1,100	1,100
Sherman	ĬŬ	10	10	10	25	2
Umatilla	4,100	4,500	4,800	4,800	5,000	5,000
Wasco	600	600	700	700	700	700
Wheeler	85	100	100	iŏŏ	100	100
Total, District 4	5,700	6,215	6,750	6,765	7,250	7,250
			· · · · · · · · · · · · · · · · · · ·		<u>├</u> ────	<u>├</u>
District 5 Baker	1 000	4,100	4,250	4,300	4,500	4,500
	4,000	c'000	6,200	7,000	7,500	8.000
Malheur	5,500	6,000	6,500		1.200	1.500
Union	950	1,000	1,000	1,000 85		100
Wallowa	50	75	100	80	100	101
Total, District 5	10,500	11,175	11,850	12,385	13,300	14,100
District 6						1
Crook	1,200	1,200	1,200	1,200	1,200	1,500
Deschutes	1,800	1,800	2,000	2,000	2,100	2,100
Grant	400	400	400	400	500	600
Harney	200	200	200	200	300	30(
Jefferson	200	200	200	200	300	30(
Klamath	2,500	2,400	2,400	2,500	2,500	2,500
Lake	200	260	250	300	300	350
		1	h	<u> </u>	( <u> </u>	
Total, District 6	6,500	6,460	6,650	6,800	7,200	7,650
Total, District 6	<u> </u>	6,460 54,000	6,650 57,000	6,800 59,000	7,200	7,650

p Preliminary. <sup>1</sup>County estimates prepared by O.S.C. Extension Service and adjusted to state totals published by the U. S. Department of Agriculture, Bureau of Agricultural Economics. 1945 about 90 per cent of the value of farm marketings is estimated to have come from the sale of honey and 10 per cent from the sale of beeswax.

Besides receipts from sales of the foregoing items, it is estimated that 5 to 10 per cent of the total honey produced was consumed in the homes of the producers in 1946.

More colonies of bees are located in the Willamette Valley than in any other district of the state; a large portion of these are on farms having only a few colonies. Honey production on these farms is not usually of great commercial importance, and yields are generally low. During the war years, however, production was probably more efficient than usual.

In eastern Oregon, a larger proportion of the bees is kept by operators who specialize in honey production, and yields average better than in western Oregon, although weather conditions cause considerable variation from year to year.

The main honey flow in eastern Oregon comes from alfalfa and clover blossoms, while in the Willamette Valley it comes mainly from vetch and clover. In the Coast counties, bees work principally on fireweed and other native vegetation.

Honey prices vary with the size, type, and quality of the container, and time and method of sale. The average price received for all types of honey was  $20\phi$  per pound in 1945, compared to  $5.3\phi$  in 1940. Preliminary figures indicate that the 1946 seasonal average price was  $29\phi$ . Beeswax sold for  $44\phi$  a pound in 1946, compared with  $31.3\phi$  in 1941.

Strained honey packaged in 60-pound tins usually enters the wholesale trade and accounts for the bulk of the honey sold, but a portion is packaged in small pails or jars and sold more directly to the consumer. This latter practice was followed more frequently during the years of price control in order to take advantage of the higher prices allowed for the retail type of package.

#### MISCELLANEOUS ANIMALS ON FARMS

The miscellaneous specialty animal industries, including horses and mules, goats for mohair and milk, and rabbits for meat and fur, are important sources of income to Oregon farmers. There was insufficient information available for estimates of the total value of farm marketings from this group.

Estimates for some items are included, however. Data on numbers of these animals for the state and by counties are included in Tables 13 and 14, respectively. Data on value of farm marketings of horses and mules and mohair are included in Table 1.

#### Horses and Mules

The number of horses and mules kept on farms in Oregon has declined rapidly in the past decade, from 165,000 of these animals on farms as of January 1, 1936, to only 95,000 on January 1, 1947, a decrease of about 42 per cent for that period.

Value of farm marketings of horses and mules in Oregon in 1945 is estimated at \$736,000, compared to \$369,000 in 1940. Average prices on horses ranged from \$90 in 1936 and \$95 in 1937 to \$63 in 1941, \$70 in 1943, and down again to \$56 in 1946 (preliminary). The average farm price of mules stood at \$100 in 1936, rose to \$101 in 1937, declined to \$68 in 1940 and 1941, rose to \$75 in 1943, and declined again to \$64 in 1946 (preliminary).

While every county in the state still has 500 or more horses and mules, the greatest numbers are in the eastern Oregon counties. Saddle horses probably make up a large proportion of the total numbers in the livestock-growing areas of eastern Oregon.

#### Goats

Goats are still of considerable economic importance in Oregon despite a decline of almost 50 per cent in numbers since 1939. In 1946, an estimated 79,000 goats of all kinds were kept by Oregon farmers, compared to 150,000 in 1939. Milk goats numbering 13,500 were kept in 1946, compared to 15,500 on farms in 1939.

Most of the goats are raised in the Willamette Valley, the Coast counties, and in southern Oregon. Milk goats are kept in every county of the state, with a few larger goat dairies around Portland, and in southern Oregon.

Mohair is the principal source of income from goats, which are used to pasture down the brush in cut-over and burned-over forest areas in western Oregon.

Available information indicates that the production of mohair ranged from 529,000 pounds in 1939 to 203,000 pounds in 1946; the value of farm marketings of mohair was only \$89,000 in 1946 (preliminary). During the past 11 years, 1936-1946, the seasonal average price of mohair in Oregon has fluctuated widely. The high point in this period was reached in 1937 when mohair brought 56 cents a pound, and the low point in 1938 when the price declined to 25 cents. The 1946 price was estimated at 44 cents a pound (preliminary). No price or income figures are available on goat milk.

#### Rabbits

The production of rabbits became of increasing importance during the war years when shortages of other meats caused an in-

Table 13. MISCELLANEOUS ANIMAL NUMBERS, OREGON 1939-1946\*

Kind of animal	1939	1940	1941	1942	1943	1944	1945	1946
Horses and mules <sup>1</sup> All goats Milk goats Rabbits	$\begin{array}{r} 148,000\\ 150,000\\ 15,500\\ 57,000\end{array}$	$\begin{array}{r} 145,000 \\ 140,000 \\ 15,700 \\ 58,000 \end{array}$	$\begin{array}{r} 142,000\\ 140,000\\ 16,000\\ 64,500\end{array}$	$\begin{array}{r} \hline 137,000 \\ 137,000 \\ 15,000 \\ 70,200 \end{array}$	$\begin{array}{r} 132,000\\ 130,000\\ 15,000\\ 76,000\end{array}$	$\begin{array}{r} 121,000\\ 122,000\\ 15,000\\ 100,000\end{array}$	$\begin{array}{r} 115,000\\82,000\\14,000\\103,000\end{array}$	103,000 79,000p 13,500p 92,000p

\* Numbers of horses and mules compiled from data published by the U. S. Department of Agriculture, Bureau of Agricultural Economics. Number of all goats, milk goats, and rabbits prepared by O.S.C. Extension Service. 'There were 95,000 (preliminary number) horses and mules on farms in Oregon on January 1, 1947. p Preliminary.

District and county	Horses and mules	All goats	Milk goats	All rabbits
District 1				
Benton	1,100	4,500	405	2,000
Clackamas	3,950	3,500	1,200	10,000
Lane	$3,500 \\ 2,700$	10,000	1,000	9,500
Linn	2,700	5,900	$425 \\ 500$	3,000
Marion Multnomah	$4,000 \\ 1,200$	$5,000 \\ 800$	500	8,000 10,000
Polk	1,300	6,000	300	2,000
Washington	3,100	1.400	1,000	2,000
Yamhill	2,300	5,000	300	6,500
Total, District 1	23,150	42,100	5,630	53,000
District 2	500	500	100	1 900
Clatsop	500	500 800	$\begin{array}{c}100\\725\end{array}$	$1,200 \\ 1,000$
Columbia	$1,400 \\ 1,600$	1,300	400	1,800
Curry	500	3,400	100	100
Lincoln	650	4.000	400	ÊŎŎ
Tillamook	600	100	50	
Total, District 2	5,250	10,100	1,775	4,700
District_3				
Douglas	2,600	$20,000 \\ 2,000$	$1,500 \\ 1,000$	$5,000 \\ 2,600$
Jackson Josephine	$3,300 \\ 1,200$	2,000	2,450	2,000
Total, District 3	7,100	24,900	4,950	8,200
District 4				
Gilliam	1,200	10	1.5	500
Hood River	500	275	$100 \\ 25$	3,000
Morrow	$2,000 \\ 1,000$	10	10	•••••
Umatilla	5,000	180	140	3,209
Wasco	3,000	200	200	2,000
Wheeler	2,000	50	25	100
Total, District 4	14,700	775	505	8,800
District 5				
Baker	$6,200 \\ 12,000$	50	25	1,500
Malheur	12,000	200 30	$175 \\ 30$	$400 \\ 1,300$
Union Wallowa	$3,500 \\ 4,400$	50	35	300
Total, District 5	26,100	330	265	3,500
District 6				
Crook	2,700	20	10	3,000
Deschutes	2,000	150	110	1,600 400
Grant Harney	$4,000 \\ 6,000$	30 175	10 50	400
Tefferson	1,000	70	20	
Klamath	6,000	300	150	8,000
Lake	5,000	50	25	800
Total, District 6	26,700	795	375	13,800
Fotal, Distillet 0				

## Table 14. Miscellaneous Animal Numbers, January 1, by Counties and Districts, Oregon 1946p\*

p Preliminary. \* County estimates of horses and mules prepared by O.S.C. Extension Service and ad-justed to state total published by the U. S. Department of Agriculture, Bureau of Agricul-tural Economics. County and state estimates of all goats, milk goats, and all rabbits prepared by the O.S.C. Extension Service.

creased demand and higher prices. The number of breeder rabbits kept in Oregon rose from 57,000 in 1939 to 103,000 in 1945, then declined to 92,000 in 1946.

Clackamas, Multnomah, Lane, and Marion counties lead in the production of rabbits. These counties had more than one-third of the total number of rabbits produced in the state in 1946.

Rabbits are produced principally for their meat, although the sale of fur from these animals accounts for some income. A few breeds are raised especially for their fur. The sale of breeding stock is an important item to some rabbit growers.

### OREGON AGRICULTURAL STATISTICAL BULLETINS

At the present time, bulletins containing Oregon agricultural statistics include the following:

Extension Bulletin 680, Oregon's Dairy Industry, 1867-1947

Extension Bulletin 679, Oregon's Specialty Animal Industries, 1936-1946

Extension Bulletin 678, Oregon's Farm-Raised Poultry Products, 1909-1947

Extension Bulletin 677, Oregon's Specialty Horticultural Crops, 1936-1945

Extension Bulletin 660, Oregon's Farm Price Data, 1909-1944

Extension Bulletin 656, Oregon's Small Fruit Crops, 1936-1944

Extension Bulletin 654, Oregon's Grain and Hay Crops, 1869-1944 (being revised)

Extension Bulletin 651, Oregon's Shipments and Unloads of Potatoes and Truck Crops, 1925-1943

Extension Bulletin 641, Oregon's Farm Products for Market, 1936-1940

Extension Bulletin 640, Oregon's Shipments and Unloads of Tree Fruits, 1925-1943

- Extension Bulletin 636, Oregon's Miscellaneous Specialty Crops, 1936-1943.
- Extension Bulletin 631, Oregon's Tree Fruits and Nut Crops, 1910-1943 (out of print)
- Extension Bulletin 613, Oregon's Forage Seed Crops, 1941-1942 (being revised)

Other bulletins are in the process of preparation.

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