Clackamas County, Oregon

# RESOURCE ATLAS

NATURAL

- HUMAN
- ECONOMIC
- PUBLIC

MAY 1974

EXTENSION Community Development PROJECT

OREGON STATE UNIVERSITY

## Clackamas County, Oregon

RESOURCE

ATLAS

PUBLIC

ECONOMIC

NATURAL

HUMAN

May 1974

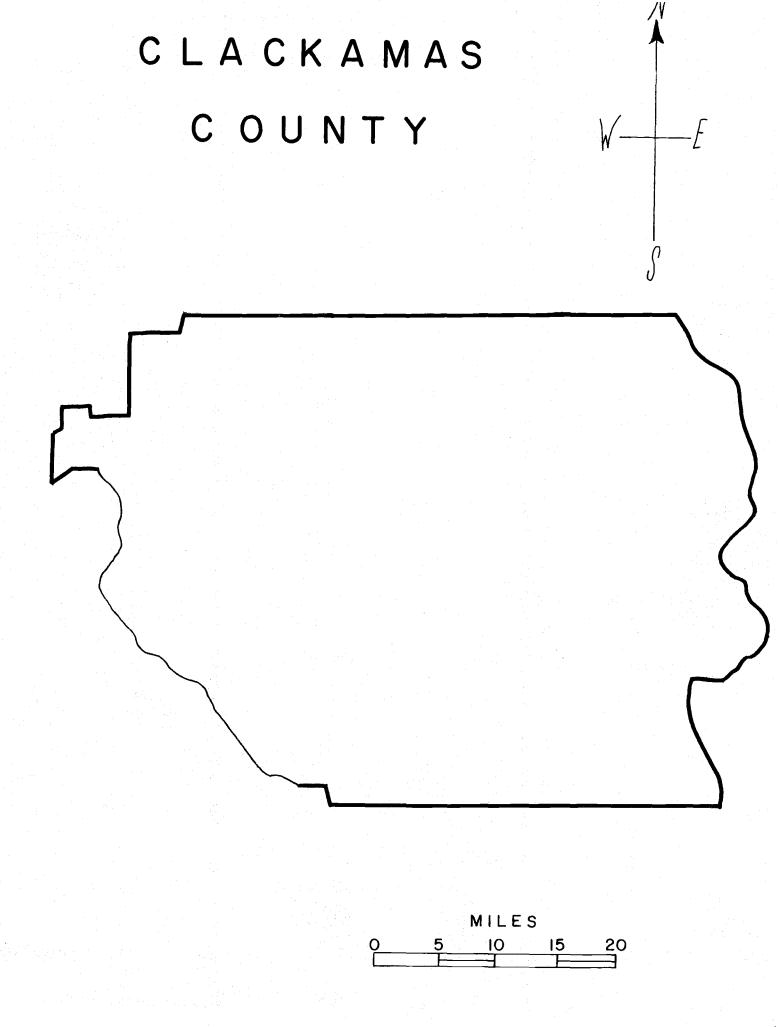
Oregon State University Extension Service

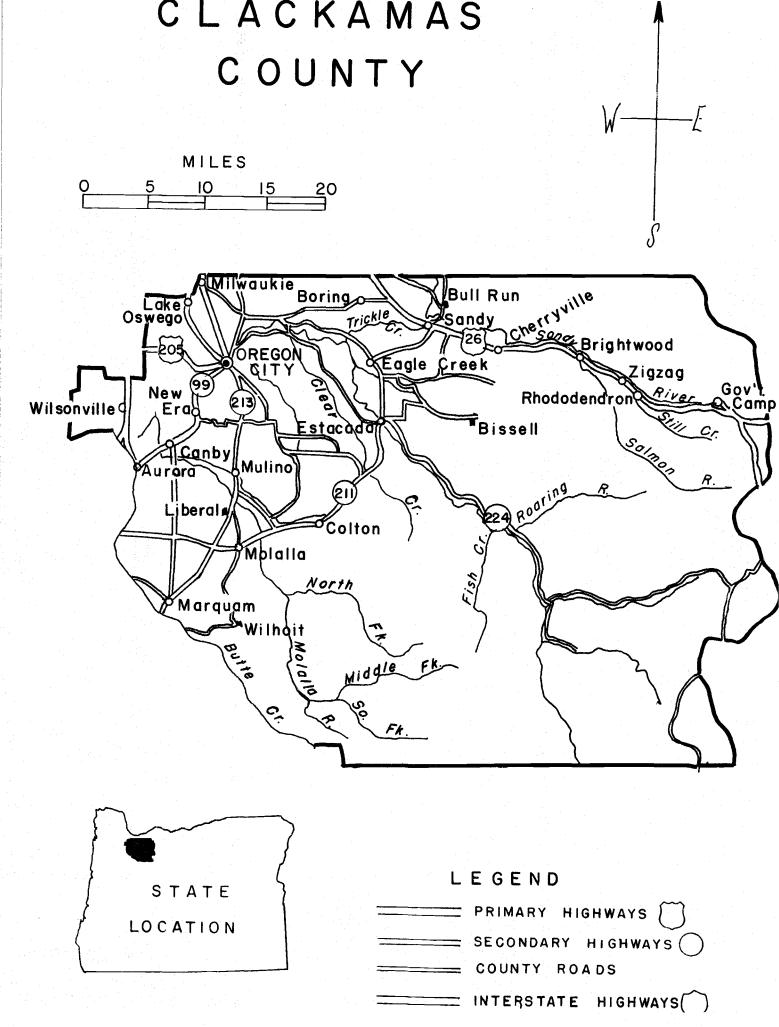
Prepared by Marilyn Ruttle, Research Assistant, Under the supervision of: Robert O. Coppedge, Extension Economist, and Russell C. Youmans, Extension Resource Economist, Department of Agricultural Economics

For sale by the Extension Business Office, Extension Hall, 118 Oregon State University, Corvallis, Oregon 97331. \$2.50 per copy.

## Contents

	Page
General Description	1
Physical Aspects	2
Climate	2
Soils	5
Soil Characteristics and Land Capability	7
Land Use and Ownership	9
Agricultural Land	10
Forest Land	11
Water	14
Water-Based Recreation	18
Minerals	18
Wildlife	18
	10
Human Resources	21
Population.	21
	25
	31
	33
Education	38
Health and Vital Statistics	30 43
Public Welfare	43 44
Housing	44
The County's Economy	46
Agriculture	46
Logging and Wood Products	51
Manufacturing	53
Mining	54
Outdoor Recreation.	55
Business	57
	•••
Public Services	61
Transportation.	61
	62
Library Facilities.	63
	64
	04
Public Finance	66
Selected List of Agencies	71
Selected Bibliography	73





#### GENERAL DESCRIPTION

Clackamas County was named for the resident Clackamas Indians and established July 5, 1843. With a present area of 1,205,824 acres, 1,893 square miles, this county is eighteenth in size and fourth in the state for total population with a 1972 estimate of 178,400 or 94.2 people per square mile.

Oregon City, population 10,300, is the county seat and was the first incorporated city west of the Rockies, the first capital of the territorial government in 1848, and the site of the first legislative session. Excluding Portland, which is divided between Multnomah and Clackamas Counties with a total population of 384,000, the largest city in the county is Milwaukie with 17,500 people in 1972.

With an elevation at Oregon City of 55 feet, the county rises to 11,245 feet at the peak of Mt. Hood on its eastern boundary, the highest point in the state. It boasts many fine parks, lakes, rivers and streams and excellent hunting and fishing as well as camping and other forms of recreation. Major points of interest are Willamette Falls, McLoughlin House, Lake Oswego, Wilhoit Mineral Springs, Mt. Hood and Timberline Lodge.

The county has a temperate maritime climate with dry, moderately warm summers and wet, mild winters. The average annual precipitation ranges from 36 inches in the lower valleys to 140 inches in the Cascade Mountains. Seasonal temperature variations are small in the valley regions and the frost-free season in this area is from March to November, a period of 180 to 250 days. Temperatures in the Cascades are generally cooler, seasonal variations greater, and the frost-free season decreases to less than 30 days at higher elevations.

Following are some important facts about Clackamas County. 1/

Area:	1,893 square miles 1,205,824 acres	Population: 178, (197	
Elevatio	on at Oregon City: 55 ft.	True Cash Value:	\$1,853,951,580 (1972)
Average Sur Wir	Temperature: nmer - 65.2 <sup>o</sup> F nter - 43.0 F	Principle Industr Lumbering, Manu Agriculture, Wa	ifacturing,
County S	Seat: Oregon City		
1/ 000	con Ctata Evenutive Department	Class Myong Compton	. of State

1/ Oregon State Executive Department, Clay Myers, Secretary of State, Oregon Blue Book, 1973-74, January 1973.

#### PHYSICAL ASPECTS

Clackamas County is located in the northern portion of western Oregon and encompasses 1,205,840 acres or 1,893 square miles. Butte Creek forms most of the western boundary while the eastern boundary generally follows the crest of the Cascade Mountains. Clackamas County is bounded on the north by Multnomah County, on the east by Hood River and Wasco Counties; Marion County borders on the south and also on the west along with Yamhill and Washington Counties.

The topography and strucutre of Clackamas County is generally made up of two topographic-structural provinces which are from west to east, respectively, the east side off the Willamette trough, and the western and high Cascades.

The Willamette syncline, or trough province, includes the western one-quarter of the county. This area is generally level to gently rolling terraces and foothills. Elevation of the section of the county varies from about 50 feet at the Willamette River to 850 feet on the hills near Estacada. The relatively smooth topography of the Willamette trough is broken by low, rolling, hills or buttes that reach an elevation of 1,600 feet.

The western and high Cascades province comprises the eastern three-fourths of the county. It begins at the east edge of the Willamette trough and extends to the summit of the Cascades. The rugged topography of the western Cascades is characterized by steep slopes, sharp ridgetops, and deep canyons. The high Cascades has rugged, steep topography north of Mount Hood and less rugged, rolling topography south of Mount Hood. The elevation of the summit of the Cascades varies from 2,500 feet to 11,245 feet on Mount Hood. The drainages include the Clackamas and Sandy Rivers and their tributaries, all of which are deeply incised.

#### Climate

Clackamas County has a temperate maritime climate with dry, moderately warm summers and wet, mild winters. The varying topography produces considerable variaitons in the climate.

The average annual precipitation is as low as 36 inches in the valley region in the western half of the county but increases rapidly to 140 inches in the Cascade Mountains. About 60 percent of the annual precipitation occurs from November through February while only about 10 percent occurs from June through September. Below 2,000 feet elevation, most of the precipitation occurs as rain at low intensities. Intensity of precipitation increases with elevation. Snow increases from about 2 percent in the valley region to 50 percent at 5,000 feet

- 2 -

elevation and about 75 percent at 7,000 feet. Winter snow accumulations are quite large in much of the Cascades where they are an important source of summer stream flows.

The prevailing winds are from the west and northeast in the summer and from the south and southwest in the winter. Periods of easterly winds bring cold, clear weather in winter and exceptionally dry, hot weather in summer.

Seasonal temperature variations are small in the valley region of the county. Winter temperatures below 10 degrees and summer temperatures above 100 degrees are rare. Temperatures in the Cascades are cooler and seasonal variations greater than at lower elevations.

The frost-free season in most of the western valley area is from March to November, a period of 180 to 250 days. The frost-free season decreases to less than 30 days at the higher elevations in the Cascades.

Station	Elevation	Years of Record
Canby 15	153 ft.	1/
Estacada 2SE	414 ft.	$\overline{1}/$
Government Camp	3,900 ft.	9
Headworks, Portland Water Bureau	748 ft.	1/
Molalla 1 NW	365 ft.	$\overline{1}/$
Oregon City	167 ft.	$\overline{1}/$
Sundown Ranch	2,400 ft.	$\overline{4}$
Three Lynx	1,135 ft.	1/
West Linn	73 ft.	$\overline{1}/$
Colton	710 ft.	$\overline{2}$

Table 1. Weather Stations, Elevation, and Years of Record, Clackamas County

1/ Station established prior to 1951 and operated through 1960. SOURCE: U.S. Department of Commerce, Weather Bureau, Decennial Census of U.S. Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965.

Table 2. Freeze Data for Clackamas County, 1951-1960

	Mean Number of Days with Temperature of 32 <sup>0</sup> F. or Below												
Station	Jan.	Feb.	Mar.	Apr.	May	June	Ju1y	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Estacada 2 SE	13	10	11	2	1/	0	0	0	0	1	7	10	54
Government Camp Headworks, Port-	28	24	28	22	17	3	<u>1</u> /	0	2	9	21	26	175
land Water Board	16	14	13	4	1/	0	0	0	0	1	7	11	66
Molalla 1 NW	11	10	11	3	$\overline{1}/$	0	0	0	1/	2	10	12	59
Oregon City	11	8	7	1	$\overline{1}/$	0	0	0	$\overline{0}$	1/	6	8	41
Three Lynx		14	15	3	$\overline{1}/$	0	0	0	0	ī	9	14	73

 $\frac{1}{1}$  Less than .5 days.

SOURCE: U.S. Department of Commerce, Weather Bureau, Decennial Census of U.S. Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965. Table 3. Temperature and Precipitation by Month, Clackamas County, 1951-1960 Averages

Station	Jan.	Feb.	Mar.	Apr.	May	June	Ju1y	Aug.	Sep.	Oct.	Nov.	Dec.	Annua1
Average										•			
Temperatures						- deg	grees	Fare	nheit				
Estacada	39.4	41.5	43.6	50.3	55.6	60.0	65.5	64.4	61.1	52.7	44.5	41.0	51.6
Government Camp	1										35.8		42.0
Headworks, Port-													
1and Water Bureau	37.4	40.1	42.1	48.9	54.8	59.1	64.7	63.4	60.6	52.6	44.0	40.0	50.6
Mo1a11a 1 NW	40.3	42.7	44.3	50.2	55.7	60.5	65.6	65.1	61.8	53.7	44.7	41.2	52.2
Oregon City	40.5	43.4	45.4	52.4	58.1	62.5	68.2	66.9	63.4	55.2	46.0	42.2	53.7
Three Lynx	35.6	38.8	41.0	48.2	54.1	58.8	64.6	63.2	60.8	52.1	42.3	38.1	49.8
Tota1													
Precipitation					. – –		incl	hes					
Canby 1S	7.36	4.36	4.78	2.53	2.37	1.83	. 34	. 69	1.45	4.08	5.10	6.30	41.19
Estacada 2SE	1			4.42					2.30			8.61	59.38
Government Camp	11.73											11.51	86.24
Headworks, Port-													
1and Water Bureau	13.65	7.73	9.83	5.81	5.49	4.73	.88	1.80	3.52	7.74	10.2	11.67	83.05
Mo1a11a 1 NW	8.23	4.87	5.75	3.27	2.79	2.68	. 30	.77	1.80	4.56	5.67	6.91	47.60
Oregon City	9.00	5.10	5.53	2.90	2.68	1.99	. 36	1.06	1.88	4.25	6.04	7.21	48.00
Sundown Ranch	13.87	8.27	9.03	5.37	4.52	4.24	.98	1.34	2.38	8.15	10.3	14.57	83.00
Three Lynx	12.52	8.29	8.80	4.89	4.13	3.12	.49	.99	2.19	6.77	9.08	11.66	72.93
West Linn	8.78	5.03	5.43	2.82	2.71	2.02	. 39	1.04	1.75	4.54	5.98	7.01	47.50
Co1ton	7.42	4.35	5.47	3.29	2.92	2.87	.32	.89	1.98	4.59	5.43	6.25	45.78
SOURCE: U.S. Depar	rtment	of Co	ommer	ce. We	eathe	r Bur	eau.	Décen	nial (	Censu	s of	U.S. C1	imate.
Supplement													,

The following table indicates an average day-time high and low temperature for each month over th 1951-1960 period. The minimum temperature is generally considered a night-time figure.

Station	Jan.	Feb.	Mar.	Apr.	May	June	Ju1y	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Mean Daily	· ·						<b>-</b>	<u> </u>	<b></b>	- <b>-</b>		·	
Maximum Temp.					- d	egree	s Fare	enhei	t -				
Estacada 2SE	45.1	48.4	52.2	61.4	67.6	72.1	81.0	78.8	74.7	62.1	51.5	47.0	61.8
Government Camp Headworks	34.9	38.1	39.3	46.0	54.0	58.5	69.4	67.1	64.8	55.2	43.3	39.0	50.8
land Water Bureau	42.5	46.7	50.4	59.8	66.4	70.3	79.1	76.7	73.7	62.3	51.3	45.5	60.4
Molalla 1 NW	46.4	50.2	52.9	61.2	67.2	71.9	81.0	79.8	76.1	64.4	52.7	47.5	62.6
Oregon City	46.1	50.4	53.7	63.1	69.6	73.8	82.4	80.4	76.0	64.6	53.2	48.0	63.4
Three Lynx	40.6	45.2	49.2	58.5	64.6	69.1	78.2	76.4	74.3	62.1	49.4	43.4	59.3
Mean Daily										-			
Minimum Temp.			<b>-</b> - ·		- d	egrees	s Fare	enhei	t - ·		- , -		
Estacada 2SE	33.6	34.6	34.9	39.3	43.6	47.8	50.0	50.0	47.4	53.3	37.1	35.0	41.4
Government Camp Headworks, Portland	23.1	24.1	24.5	29.1	35.1	39.8	44.8	44.0	42.0	36.0	28.1	26.2	33.1
Water Bureau	32.2	33.4	33.7	37.9	43.2	47.8	50.3	50.0	47.5	42.8	36.7	34.4	40.8
Molalla 1 NW	34.1	35.2	35.6	39.2	44.3	49.0	50.2	50.4	47.4	42.9	36.6	34.9	41.7
Oregon City	34.8	36.2	37.0	41.6	46.6	51.2	53.9	53.3	50.7	45.7	38.7	36.3	43.8
Three Lynx						48.4							40.3

Table 4.	Mean Daily Maximum and Minimum Temperatures, by Month, Clackamas County	
	1951-1960 Averages	

SOURCE: U.S. Department of Commerce, Weather Bureau, Decennial Census of U.S. Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965.

> For more recent climatological data on Clackamas County see: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, <u>Climatological Data</u>, <u>Annual Summary</u>, 1971, Vol. 77, November 13, 1971.

## Soi1s

Six general soil areas are delineated in Clackamas County, and described in the following narrative. The factors used in forming the areas are physiography, kind and shape of landform; geology, source and kind of parent or underlying material; and characteristics of the soils. Each of the soil areas contains one or more soil groups which have similar parent material and may be related in other ways. As streams flow through the valleys, they have developed floodplains of recent alluvium by depositing sediment. This sediment of gravel, sand, silt, clay, and pyroclastic debris gives rise to soils with limited development and characteristics conforming closely to the parent material. Areas of these soils are subject to flooding with the related erosion, drainage, and cropping problems. The main use is cropland. Almost all of the soils respond well to irrigation.

Another group of alluvial soils is distributed along the upper Clackamas River and the Sandy River and has not been completely described and correlated. The parent material is alluvium from residual soils and upland terraces of glacial material.

Adjacent to the recent alluvial soils is a higher terrace composed of sediments. Most of the parent material is Willamette silts in the valley south and west of Oregon City. These soils are mainly used for cropland, and almost all respond well to irrigation. The soils of this area are level to gently sloping, moderately coarse to fine textures, somewhat excessively to poorly drained, and slightly to strongly acid.

The soils derived from silty materials on uplands are located in the northwestern part of the county. The parent material is a mixture of alluvium, loess, and residuum from igneous and sedimentary rock and weathered gravel. These soils are used mostly for cropland, and almost all of them respond well to irrigation.

The loess soil areas occur in the same physiographic position as the terraces formed by the Wilłamette silts and Portland sands and gravels. In some locations they are adjacent. The method of deposition of this loessial parent material is either by aeolian action or a combination or aeolian and alluvial action as some has been re-distributed by water. These soils are used mostly for cropland, and almost all respond well to irrigation.

A deposit of light brown, massive sandy and silty loess in depths as great as 100 feet mantles the hills north and west of Oregon City. This homogenous, structureless, silt is composed predominately of quartz and other minerals that indicate that it is not the product of residual weathering of basalt. It is believed that the surface of the loess conforms rather closely to that of pre-existing topography of the underlying rock. The origin of the loess was the glacial outwash plains adjacent to the Columbia River. Forest is the predominate land use on these soils, but small areas are used for cropland and range. Almost all of them respond well to irrigation.

Soils developed from igneous materials occur on most of the Cascade Mountains and the higher elevations of the Coast Range. The parent material is weathered basalt, andesite, gabbro, rhyolite, and consolidated pyroclastic materials. Small areas of young lava flows in the high Cascades have weathered very little and have little to no soil development. The soils in this group are used mainly for forest and recreation with small areas used for cropland and range.

## Soil Characteristics and Land Capability

An interpretive grouping of soils into "Land Capability Classification" has been developed by the Soil Conservation Service. This grouping shows, in general, how suitable soils are for most kinds of farming. Soil characteristics such as depth, texture, wetness, slope, erosion hazard, overflow hazard, permeability, structure, reaction, waterholding capacity, inherent fertility and climatic conditions as they influence the use and management of land are considered in grouping soils into eight land capability classes. These eight classes are designated by Roman numerals. The hazards and limitations of use of the groups increase as the class number increases. Class I land has few hazards or limitations, whereas Class VIII land is so limited that it is unfit for cultivation and grazing. This land can be used only for recreation, wildlife habitat or water supply.

Table 5. Land Area and Use of Inventory Acreage, Clackamas County, 1967

Use	Acres
Inventory Acreage	
Cropland Pasture Range Forest and woodland Other land	112,255 5,200 0 355,000 15,484
Total inventory acres Percent of total land area in inventory	487,939 34%
Ion-inventory Acreage	
Federal land Urban and built-up areas Water areas	646,848 51,541 14,990
Total non-inventory acres	719,741
Total land area	1,207,680

SOURCE: Oregon Conservation Needs Committee, Oregon Soil and Water Conservation Needs Inventory, U.S. Soil Conservation Service and Oregon State University Extension Service, 1971.

<b>C</b> apability Class,,		Use in Acres										
and Limitations $\frac{1}{2}$	Cropland	Pasture-Range	Forest	Other	Total							
I II	3,467	0	0	634	4,104							
Ε	22,733	401	21,910	2,536	47,580							
W	18,228	0	15,908	1,269	35,405							
III												
Ε	38,486	0	87,992	7,441	133,919							
W	9,702	800	10,096	634	21,232							
S	11,032	0.	19,227	1,903	32,162							
I V												
Ε	6,800	2,799	35,324	634	45,557							
V	0	0	0	0	0							
/I			·									
Ε	1,549	1,200	142,632	433	145,814							
S	258	0	9,838	0	10,096							
VII												
Ε	0	0	12,073	. 0	12,073							
VIII	0	0	0	0	0							

Table 6. Use of Inventory Acreage by Capability Class and Limitations, Clackamas County, 1967

W - water in soil interferes with plant growth.
 S - soil is shallow, droughty or stony.
 SOURCE: Oregon Conservation Needs Committee, Oregon Soil and Water Conservation

Needs Inventory, U.S.D.A. Soil Conservation Service and Oregon State University Extension Service, 1971.

Table 7. Conservation Treatment Needs, Clackamas County, 1967

Classification	Acreage	
ALL CROPLAND	112,255	,
Cropland needing treatment Type of treatment needed:	55,670	
Residue cover	18,182	
Sod in rotation	11,740	
Drainage	4,102	
Management	13,100	
Permanent cover	963	
ALL PASTURE	5,200	
Pasture needing treatment	1,999	
Type of treatment needed:		
Establishment of vegetation.	399	
Improvement of vegetation	400	
Protection only	401	
Brush control & improvement.	799	

Needs Inventory, U.S. Soil Conservation Service and Oregon State University Extension Service, 1971.

#### Land Use and Ownership

About 55 percent of Clackamas County is publicly owned, with the remaining 45 percent in private ownership. Ninety-four percent of the publicly owned land, or 52 percent of the total land area is owned by the federal government. Most of the federal land is located in National Forests. The state owns only about 1 percent of the total land area of the county, with most of the state land owned by the Department of Forestry and the State Highway Division Parks.

Much of the land area in Clackamas County is used for forests and contributes to the economy of the county through the forestry industry. The next largest use of land is for intensive agriculture, which is an important contributor to the county's economy, also. Five percent of the county is used for grazing, with only 1.76 percent urbanized. This figure will undoubtedly increase as the Portland metropolitan area expands.

	Clackamas	s County	State
Item	Acres	Percent	Percent
Total land area	1,209,600	100.00	100.00
Land Use			
Urban	21,288	1.76	. 49
Industria1	_	-	. 16
Military	-	-	.10
Intensive agriculture	235,872	19.50	6.52
Dryland farming	-	-	3.33
Forests	873,573	72.22	44.84
Parks	-	-	. 32
Conservation	2,419	. 20	2.25
Grazing	70,035	5.79	41.50
Non-productive land	6,410	.53	.49
Land ownership			
Total private land ownership	556,049	46.0	44.20
Total public land ownership.	653,551	54.0	55.80
Federal	613,480	50.7	51.80
State	10,942	.9	2.90
Loca1	29,129	2.4	1.10

Land Use and Ownership, Clackamas County, 1964 Table 8.

for Development, 1964.

Table 9. Inventory of State-Owned Real Property, Clackamas County, 1970

Agency	Acres	Land Value	Improv. Value	Total Value	Annua1 Renta1 Income
Employment Division	. 32	\$22,000	\$90,700	\$112,700	\$ -
Fish Commission	16.14	60,700	220,685	281,385	180
Department of Forestry.	7,282.00	1,750,020	176,100	1,926,120	-
Game Commission	225.80	232,000	· · · · · · · · · · · · · · · · · · ·	232,000	
Division of State Lands	112.99	110,000		110,000	· · · -
Liquor Control Comm	15.25	305,040	776,000	1,081,040	.         •
F.H.Damasch State Hosp.	492.10	1,324,760	9,034,355	10,359,115	26,799
Military Department Highway Division	243.48	1,463,660	2,040,151	3,503,811	2,100
Parks	1,053.84	372,614	517,409	890,023	300
Office	22.92	124,741	383,280	508,021	, <b>–</b>
۲otals	9,464.84	\$5,765,534	\$13,238,680	\$19,004,215	\$29,379

SOURCE: Legislative Fiscal Committee, Inventory of State-Owned Real Property, By County, Sec.7, 115 State Capital, Salem, Oregon, 1970.

Table 10. Land Area in Highways, Streets, and Roads, Clackamas County

	Clackamas County		
Ownership	Acres	Percent	
State highways	2,290	16.24	
County roads	10,450	74.11	
City streets	1,360	9.64	
Tota1	14,100	100.00	

SOURCE: Oregon State Department of Revenue and Oregon State Highway Division, unpublished data.

## Agricultural Land

The land base for agriculture in Clackamas County consists of 121,554 acres of cropland, 55,530 acres of woodland, which includes woodland pasture, and 32,971 acres of other land.

About 10 percent of the total county area is in cropland. Included in the cropland figure are harvested cropland, cropland used for pasture, and other cropland. The major uses of the cropland are for production of wheat, hay, grains, and corn.

About 6 percent of the agricultural land is irrigated which heightens its productivity.

	196	4	19	69
Item	Acres	Percent	Acres	Percent
Total land area Proportion in farms	1,205,750	21.7	1,205,824	17.4
Acres in farms Cropland harvested Cropland pasture Other cropland Woodland including	261,815 83,245 40,938 18,876	100.00 31.79 15.63 8.70	210,055 67,634 37,953 15,967	100.00 32.20 18.06 7.60
woodland pasture Other land	73,078 45,577	27.91 17.40	55,530 32,971	26.43 15.69
Irrigated land	12,572	4.80	12,863	6.12
SOURCE: U.S. Bureau of the Cens	sus, Census of	Agricultur	re, 1964 and	1969,

Table 11. Land in Farms, Clackamas County, 1964 and 1969

Vol. 1, <u>Area Reports</u>, Part 47, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., 1967, 1972.

#### Forest Land

The forests of Clackamas County may be divided into the following four zones on the basis of ecology, climate, and land ownership: the valley zone, the principle forest zone, the upper slope forest zone, and the subalpine forest zone.

The valley zone generally lies below 1,000 feet elevation and has the driest and warmest climate. This zone was only partially forested at the time of settlement, and much of the forest land has since been cleared for agricultural, urban, residential, and other uses. Forest land now occupies less than 30 percent and is generally in blocks of less than 500 acres owned by farmers and ranchers and inter-mingled with agricultural land. There are both hardwood and softwood stands in this zone, with the hardwood stands occurring on the bottom lands and on dry sites. Cottonwoods, alder, bigleaf maple, and willows are the most common species on bottom lands. Oregon white oak is found on the drier sites. Coniferous stands occur on a variety of sites with Douglas-fir as the most common species mixed with grand fir, western hemlock, and western red cedar.

The principle forest zone begins between 500 and 1,000 feet elevation and extends up to 3,000 to 4,000 feet. The climate of this major timber producing zone is characterized by annual precipitation ranging from 60 to 140 inches, moderate winter snowfall with virtually no snowpack development, and somewhat cooler temperatures than found in the valley zone. Approximately 90 percent of the land is forested. Coniferous forests of Douglas-fir predominate with lesser amounts of western hemlock, western red cedar, and true firs. Stands of red alder occur in the lower elevations of the coast Range where fire or logging removed the original stand. Most of the forest land is owned by large timber companies or the public. The upper slope forest begins at about 3,000 to 4,000 feet and extends upward to 5,000 to 6,000 feet, covering a large area in the Cascades. The climate of this zone is characteriszed by annual precipitation ranging from 90 to 140 inches, heavy winter snowfall with a significant snowpack, and cool summer temperatures. About 80 percent is forested; the remainder consists of areas of rock, outcrops, shallow stony soils, meadows, and lakes. True fir-mountain hemlock stands are predominant. Most of the land is in the Mount Hood National Forest.

The subalpine forest zone begins at about 5,500 to 6,000 feet elevation in the Cascades and extends to the upper limit of tree growth. The climate is characterized by heavy winter snowfall and an average frost-free growing season of approximately 30 days. The principle tree species - subalpine fir, mountain hemlock, white bark pine, and Alaska yellow cedar - occur in scattered stands intermingled with meadows and barren areas. Only a few peaks along the crest of the Cascades are above timberline. Most of the land in this zone is in the Mount Hood National Forest.

Almost all of the forest land in Clackamas County is commercial forest land. Over half of the forest land is located within the national forest, with an additional 22 percent being privately owned; 12 percent owned by the forest industry; and 9 percent owned by public agencies other than the U.S. Forest Service.

Item	Acres	Percent
LAND		
Total land	1,210,000	100.00
Forest land	956,000	79.00
Commercia1	945,000	78.09
Unproductive	11,000	.90
Productive-reserved	1/	-
Nonforest land	254,000	20.99
WNERSHIP		
A11 ownership	945,000	100.00
National forest	532,000	56.29
Other public	89,000	9.41
Forest industry	115,000	12.16
Farmer and misc. private	209,000	22.11

Table 12. Forest Acreage, Ownership, and Use, Clackamas County, 1963

SOURCE: U.S. Forest Service, Forest Statistics for Northwest Oregon, Resource Bulletin PNW-7, Pacific Northwest Experiment Station, 1964.

Table 13.	Volume of Al	1 Growing	Stock	and	Sawtimber	by	Ownership,
	C	lackamas (	County,	196	53		

Ownership		ommercial g Stock	Total Commercial Sawtimber		
	million cubic ft.	percent	million board ft. <u>1</u> /	percent	
National forest	3,635	73.25	20,732	76.44	
Other public	509	10.25	2,660	9.80	
Forest industry	355	7.15	1,744	6.43	
Farmer and misc. private	463	9.33	1,983	7.31	
Tota1	4,962	100.00	27,119	100.00	

U.S. Forest Service, Forest Statistics for Northwest Oregon, Resource Bulletin PNW-7, Pacific Northwest Forest and Range Experiment Station, SOURCE: 1964.

Table 14. Volume of All Growing Stock and Sawtimer on Commercial Forest Land by Species, Clackamas County

Species	Total Co Growing	Total Commercial Sawtimber		
	million cubic ft.	percent	million board ft. <u>1</u> /	percen
Softwoods	4,797	96.67	20,907	98.16
Douglas-fir	2,773	55.88	12,918	60.65
Pines	84	1.69	202	.94
True firs	509	10.25	1,741	8.17
Sitka spruce	-	· _	-	
Western hemlock	969	19.52	4,355	20.44
Western redcedar	182	3.66	649	3.04
Other	280	5.64	1,042	4.89
Hardwoods	165	3.32	390	1.83
Red alder	85	1.71	222	1.04
Black cottonwood	2/	-	-	-
Bigleaf maple	74	1.49	156	.73
0ther	6	.12	12	.05
All speices	4,962	100.00	21,297	100.00

1/ Scribner log rule. 2/ Less than 500,000 cubic feet.

SOURCE: U.S. Forest Service, Forest Statistics for Northwest Oregon, Resource Bulletin PNW-7, Pacific Northwest Forest and Range Experiment Station, 1964.

#### Water

The Willamette River enters the county at the extreme western point and flows in an easterly direction for about ten miles, where it makes a sharp bend and flows north across the northwest corner of the county. The Tualatin River joins it from the west. Between Oregon City and Gladstone, it receives the Clackamas River from the e**a**st.

The Clackamas River, rising near the summit of the Cascade Range, flows in a north-westerly course through the center of the county. For a number of miles it flows in a canyon 500 to 1,000 feet below the adjacent hills, but below Estacada the hills recede, forming a basin-like valley 2 to  $3\frac{1}{2}$  miles wide.

The Sandy River, rising in the glaciers of Mount Hood, flows in a westerly course through the extension forming the northeastern part of the county. At Bull Run it is joined by the Bull Run River, from which point it flows north out of the county to the Columbia River.

The southwestern part of the county is occupied by the broad valleys of the Molalla and Pudding Rivers. The rivers join near Canby within onehalf mile of their confluence with the Willamette and have widely diverging courses. The Pudding River flows from the south in Marion County and forms the county boundary on the west for a distance of about 7 miles, and the Molalla comes from the mountains to the east and southwest. Butte Creek forms the county boundary along the southwest.

With the exception of the Sandy River, which empties directly into the Columbia River, the drainage of the county is through the Willamette River, being effected through four important rivers, a number of large creeks, and numerous streams of lesser importance.

All the major streams in the county are perennial and, excepting the Tualatin and Pudding Rivers, whose currents are sluggish and primarily outside the county, all are swiftly flowing, The following tables give data on extremes of discharge and annual yield of representative streams. The municipal water systems are also described on a table as well as sewage treatment plants in the county.

Mean Annual Yield  $\frac{1}{7}$ Drainage Years acre-feet/ Stream and Area of Gaging Point sq. miles Record acre-feet 2/ sq. mile Salmon R. near Government Camp..... 8.7 43 32,000 3,678 983,200 3,752 Sandy R. near Marmot..... 262 57 Blazed Alder Cr. near 41,560 5,068 Rhododendron..... 8.2 5 Bull Run R. near Bull Run 107 550,900 5,148 61 Little Sandy R. near Bull Run..... 22.3 49 104,300 466 Willamette R. at Wilson**v**ille..... 8,400 20 20,500,000 244,047 Molalla R near Wilhoit... 3,992 387,300 97 33 815,900 2,526 Molalla R near Canby..... 323 36 Oak Grove Fk. near Government Camp..... 54.4 12 81,080 1,490 Clackamas R. above 2,944 Three Lynx..... 479 1,410,000 51 Clackamas R at Estacada.. 671 60 1,953,000 2,911 Clackamas R at West Linn. 1,527 706 40 1,078,000

Table 15. Annual Yield of Representative Streams, Clackamas County

1/ Annual yield of surface water is the net yield or quantity of water leaving a drainage area during the hydrologic or water year which extends from October 1, of one year to September 30 of the following year. Net yield is the precipitation on the area minus evaporation, transpiration, and net underground percolation. Average or mean annual yield actually reflects a composite of constantly changing conditions due to withdrawals from stream flow and changes in watershed characteristics.

- $\frac{2}{2}$  Acre-feet equals the quanitity of water (43,650 cu. ft.) that covers one acre to a depth of one foot.
- SOURCE: U.S. Department of the Interior Geological Survey, Water Resources Division, <u>Water Resources Data for Oregon</u>, Part 1, Surface Water Records, 1968.

Table 16. Extremes of Discharge at Selected Stations, Clackamas County

	Maximu	m Discharge	Minimum Discharge	
Stream and Location	Year	Flow (cfs)1/	Year	Flow (cfs)
Salmon R. near Gov't. Camp	1964	1,300	1952	10
Sandy R. near Marmot	1964	61,400	1952	195
Blazed Alder Cr. near				
Rhododendron	1964	2,610	1967	1.5
Bull Run R. near Bull Run	1964	25,100	1926	63
Little Sandy R. near Bull Run	1921	5,320	1940	8
Willamette R. at Wilsonvillle	1964	339,000	1952	3,600

	Maximu	m Discharge	Minimum Discharge	
Stream and Location	Year	Flow (cfs)1/	Year	Flow (cfs)
Molalla R. near Wilhoit	1964	339,000	1952	18
Molalla R. near Canby Oak Grove Fk. of Willamette	1964	43,600	1959	20
R. near Government Camp	1964	2,110	1968	3.7
Clackamas R. above Three Lynx	1964	68,200	1958	324
Clackamas R. at Estacada	1964	86,900	1961	50
Clackamas R. near Clackamas	1964	120,000	1968	337
Tualatin R. at West Linn	1933	29,300	1967	10

Table 16, cont. Extremes of Discharge at Selected Stations, Clackamas County

1/ cfs - cubic feet per second.

SOURCE: U.S. Department of Interior, Geological Survey, Water Resources Division, Water Resources Data for Oregon, Part 1, Surface Water Records, 1968.

Table 17. C	Clackamas	County	Municipal	Water	Supply,	1963
-------------	-----------	--------	-----------	-------	---------	------

	Population	Source of	Quality
Name of System	Served	Water Supply	Problems
Brightwood Water Works	10 1/	Springs	2/
Boring	100 1/	NR	
Carver W. System	50 1/	NR	
Damascus	$100 \overline{1}/$	NR	
Skyline Water Company	$40\overline{1}/$	Wells	
Welches Water Association	10 1/	Springs	
Three Lynx Water Association	$10\overline{1}/$	Springs	
R.B. Strong W. Co. (Brightwood)	6 1/	Springs	
Alder Creek Water Company	100 1/	Alder Creek	
Arrah Wanna Water Company	5 1/	Springs	
Barlow	10 1/	Wells	
Barwell Pk. W.D	750 1/	Bull Run	
Mossi Brae W. Syst. (West Linn)	15 1/	Springs	
Bosky Dell Water Association	6 1/	Springs	
Canby	1,800	Wells	
Clackamas W.D	9,600	Bull Run & Clack	amas R.
Clackamas Hts. (Oregon City)	400	Wells	
Colton W. District	100	Springs	
Estacada	900	Clackamas R	
Forest Highlands (Oswego)	NR	Bull Run	
Cedarhurst Impr. (Estacada)	8 1/	Springs	
Gladstone H. Supp	4,187	Clackamas R.	
Glenmorrie Coop. W. Assn	100	Wells	
Gov't Camp Water Company	10 1/	Springs	
Milwaukie	13,000	Wells	
Molalla	2,500	Molalla R.	
Mossy Brae W.D	10 1/	Springs	
Mt. Scott Water District	2,200 -	Bull Run Portlan	ıd
Mulino Water District	10 1/	Wells	
Oak Lodge W.D. (Oakgrove)	2,500	Bull Run	
Oregon City			
Oswego	14,000	Wells, Bull Run	

- 16 -

## Table 17, cont. Clackamas County Municipal Water Supply, 1963

Name of System	Population Served	Water Supply	Quality Problems
Park Place Water District	100	Spring	
Rhododendron	50 1/	Springs	
Robinwood Water District	1,800	Well, S. Fork	
Sandy	1,000	Springs	
Shadow-Wood Park	15 1/	Springs	
Southwood Pk. Water District	200 T/	Wells	
Stanby Water District	$3,000 \ \overline{1}/$	Bull Run Portlan	d
U.S.F.S. Camp - Timberline	· · · ·	Wells, springs	
C.P.G.E R.B. Water Company			
(Brightwood)	10 1/	Springs	
Welches W. Assn. (Zig Zag)	230	Springs	
Wichita Water District	3,000	Bull Run Portlan	d
Zig Zag Summer Homes	2,000	Wells, springs	

1/ Number of families, not persons.

 $\overline{2}$ / Water quality data is not available on a county-wide basis.

NR - not reported.

SOURCE: Oregon State Water Resources Board, Middle Willamette and Lower Willamette River Basin Reports, June, 1963.

Table 18. Sewage Treatment Plants, Clackamas County, 1973

	Year		Design	Population	Receiving
Location	Built	Type <u>1</u> /	Population	Served	Stream
Canby	1956-1971	AS	6,000	4,400	Willamette R
Damasch St. Hosp	1960	Τ <b>E</b>	2,500	1,100	Corral Cr.
Estacada	1936-1963	TF	2,500	1,190	Clackamas R.
Milwaukie	1951-1962	AS	14,000	12,500	Willamette R.
Molalla	1955	TF	3,000	2,300	Pudding R.
Oregon City	1953-1964	AS	10,000	20,000	Willamette R.
Orient School	1954	TF	120	120	Cr. to Johnson (
River Bend Mobile					
Park	1970	AD	500	380	Clackamas R.
Riverview Mobile					
Ranch	1971	AD	500	260	Clackamas R.
Sandy	1952-1972	AS	5,000	1,580	Trickle Cr.
Job Corps	1965-1967	AD(L)	500	475	Clackamas R.
West Linn				4	
Bolton	1952-1963	TF	7,000	5,000	Willamette R.
Willamette	1956-1963	TF	2,500	2,000	Willamette R.
Wilsonville	1972	AD	5,000	735	Willamette R.
Gov't Camp					
Sanitary Dist	1958	TF	350	350	Camp Creek
Mt. Hood Golf Club	1965	AD(L)	300	250	Salmon R.
Timberline Lodge	1962	AD	1,000	300	Salmon R.
Timberline Rim	1971	AD,L	1,827	25	Sandy R.

 1/ AS - activated sludge; AD - aerobic digestion; TF - trickling filter; L - lagoon.
 SOURCE: Unpublished data from Oregon State Department of Environmental Quality, Water Quality Control, Portland, Oregon.

#### Water-Based Recreation

Clackamas County's proximity to the Portland metropolitan area and the densely populated Willamette Valley have made it an ideal recreational area for many Oregonians.

Its numerous rivers, creeks, lakes, and streams are used for a variety of recreational activities in the winter months as well as the more popular summer months. Boating, swimming, fishing, and waterskiing are the most popular activities, although pollution has limited the attractiveness of the Willamette as a recreational area.

#### Minerals

Minerals produced in Clackamas County in 1970 in order of value were cement, sand and gravel, stone and clays. Copper, lead, and zinc deposits occur in tertiary rocks of the Cascades with known deposits in the south central part of the county. Mercury deposits are found generally in the foothills of the Cascades in the eastern part of the county. Limonite iron ore deposits occur within basalt formations in the county and for 27 years before 1900, limonite near Oswego was used as a source of iron. Ferruginous bauxite is found at the top of Columbia River basalt with known deposits in the central portion of the county. Excellent refractory clays occur near Molalla and common clays also occur in small desposits. Sand and gravel production is dependent on construction activity within and around the county, and occurs generally along streams and rivers.

#### Wildlife

The wildlife and sports fishery resources of the state are managed by the Oregon State Game Commission. The commercial fishery is managed by the Fish Commission of Oregon. Habitat conditions, which have a marked influence upon size of wildlife and fish populations, are controlled by landowners in the county.

The most numerous big game animal in the county is the Columbia black-tailed deer. The deer population has been increasing because logging has created a more favorable habitat in many areas. Hunting pressure is variable depending upon accessibility.

There is a small elk herd near the headwaters of the Clackamas River, and some are found in the Coast Range, but the harvest is insignificant.

A relatively stable black bear population is present and now classified as a game animal in the national forests along the Cascades.

Hunting pressure will probably continue to increase in the future. Although some private forest land is closed to hunting, most commercial timber companies realize the need for adequate harvest of big game. If access to both public and private land were improved, hunting pressure would be more uniform. Table 19. Big Game Animal Population Trends, Clackamas County

Game Management Unit <u>1</u> /	Miles Traveled	Animals Observed 1971	Anii 1971	mals pe 1970	r Mile 5 yr. Ave.*
Black-tailed deer Santiam	260	503	1.9	1.8	2.2

1/ The Santiam Game Management Unit does not cover the entire county area, nor is it completely contained within Clackamas County.
\* 5 year average - 1966-1970

SOURCE: Oregon State Game Commission, <u>1971 Annual Report</u>, Oregon State Game Commission.

There are several game bird species in the Willamette Valley area of the county including ring-necked pheasants, valley quail, bobwhite quail, mourning doves, and band-tailed pigeons. Game birds have continued to thrive in the valley region largely because of the cover provided by the scattered areas of forest land, hedgerows, caneberries, and idle farmland. Game farm raised pheasants are liberated by the Game Commission to supplement natural breeding stock. The population of most game bird species has been fairly stable in recent years despite strong hunting pressure.

The most common game bird species in the forested mountain areas are band-tailed pigeons, blue grouse, ruffed grouse, and mountain quail. Hunting pressure is light in most of the mountain areas, and some game bird populations may be increasing although they have cyclic fluctuations.

Many species of furbearers such as beaver, raccoon, gray fox, red fox, marten, mink, muskrat, otter, skunk and weasel are found in the county. Pollution of some streams has created unfavorable habitat conditions for furbearers, and it is reported that pollution of the Willamette River has forced migration of beaver to smaller streams and ditches where they sometimes cause considerable damage.

All of the major streams and many of the minor streams in the county maintain runs of anadromous fish. Estimates of the Willamette River spring chinook run indicate that approximately five percent of the run migrates up the Clackamas River.

It is known that low summer flows accompanied by high water temperatures and stream turbidity are detrimental to migration and spawning. The Fish and Wildlife Service states that water for their hatchery should be free of sediment and range from  $45^{\circ}$  to  $60^{\circ}$  F. in temperature.

The Eagle Creek National Fish Hatchery which has been in operation since the late 1950's has collected over 12 million eggs, and produces over 100,000 pounds of fingerling salmon and steelhead in one year. The majority of these five million fingerlings are released in Eagle Creek where there are only two natural and no artificial barriers to hinder their migration. The streams, lakes, and reservoirs in the county contain nearly all of the game fish species found in Oregon. The lowland streams and reservoirs contain warm water fish such as large-mouth bass, small-mouth bass, white crappie, black crappie, bullhead catfish, and bluegill. Streams and lakes in the mountains with cool water temperatures contain several species of trout.

Many of the lakes and streams are heavily fished so the Game Commission supplements natural stocking with hatchery-raised fish.

Native fish populations have been difficult to maintain in several streams because of siltation, pollution, high water temperatures, and physical barriers to fish movement. High water temperatures have encouraged the increase of trash fish and made some streams totally unsuitable for trout fishing during the low summer flows.

#### HUMAN RESOURCES

## Population

The estimated population of Clackamas County was 166,088 in 1970, or approximately 88.0 persons per square mile. About 70 percent lived in urban areas with the remaining 30 percent rural farm and **non**farm population. Incorporated areas contained 72,499 or 41 percent of the population, with Milwaukie the largest city with 17,500.

Table 20. Number of Persons by Racial Group, Clackamas County, 1970

Racial Group	Number of Persons
Tota1	166,088
Caucasian	162,104
Spanish Language	2,084
B1ack	372
American Indian	586
Other	942
SOURCE: Valde, Gary R., and Robert O.	Coppedge, Income and Poverty
Data for Racial Groups: A Com	

Data for Racial Groups: A Compilation for Oregon Census County Divisions, Special Report 367, Oregon State University Extension Service, Corvallis, Oregon, 1972.

Table 21. Clackamas and Bordering Counties, Population and Rank Order in Oregon, 1960 and 1972

	19	60	1972	
County	Rank	Population	Rank	Population
CLACKAMAS	4	113,038	4	178,400
Marion	3	120,888	5	157,200
Multnomah	1	522,813	1	560,000
Washington	5	92,237	3	178,300
Yamhi11	13	32,478	13	42,190

SOURCE:U.S. Bureau of the Census, Census of Population:1960 GeneralSocial and Economic Characteristics, Final Report PC(1)-C39,<br/>Oregon, U.S. Government Printing Office, Washington, D.C.,<br/>1962.<br/>Center for Population Research and Census, Population Estimates

of Counties and Incorporated Cities of Oregon, Portland State University, July 1972.

		Population Density				
County and State	Land Area	1950	1960	1970		
	square miles	- perso	ons per squar	e mile -		
State of Oregon	96,248	15.8	18.4	21.7		
CLACKAMAS	1,887	45.9	59.9	88.0		
Marion	1,173	86.4	103.1	128.9		
Multnomah	424	1,112.1	1,233.0	1,308.2		
Washington	716	85.6	128.8	220.5		
Yamhi11	709	47.2	45.8	56.7		

Table 22. Land Area and Population Density, Clackamas County, 1950, 1960, 1970

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1950</u>, <u>1960</u>, and <u>1970 General Population Characteristics</u>, Final Report, PC(1)-B39, U.S. Government Printing Office, Washington, D.C., 1951, 1961, and 1971.

Recent growth in population in Clackamas County has been tremendous. During the period 1965-1970 the county growth rate was almost 20 percent. This compares to a 12 percent increase for Oregon and an 8 percent increase for the nation during the same time.

Table 23. Components of Change in Clackamas County's Population, 1940-1970

Year	Net Change	Natura1 Increase	Net Migration
1940-1950	29,586	7,351	22,235
1950-1960	26,322	12,533	13,789
1960-1970	53,050	11,719	41,331

SOURCE: U.S. Bureau of the Census, Census of Population, <u>General Demographic</u> <u>Trends for Metropolitan AReas, 1960 to 1970</u>, Final Report PHC (2)-<u>39</u>, U.S. Government Printing Office, Washington, D.C., 1971. Oregon State Board of Census, <u>Components of Population Growth</u>, Population Bulletin P-3, 1961.

Table 24. Population Growth, Clackamas County

		Percent Increa	Percent Increase or Decrease			
Year	Population	Period	Percent			
910	29,931					
920	37,698	1910-1920	25.9			
930	46,205	1920-1930	22.6			
940	57,130	1930-1940	23.6			
950	86,716	1940-1950	51.8			
960	113,038	1950-1960	30.4			
965	134,000	1960-1965	18.5			
970	166,088	1965-1970	19.3			
972	178,400	197 <b>1 -</b> 1972	7.0			

SOURCE: Center for Population Research and Census, Population Estimates of Counties and Incorporated Cities of Oregon, Portland State University

1972.

	Urb	an	Rur	al
Year	Population	Percent Change	Population	Percent Change
1950	37,999		48,717	
1960	14,074	68.6	48,964	. 5
1970	NA	NA	61,896	20.9

## Table 25. Urban and Rural Population, Clackamas County

NA - not available.

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1960</u> and <u>1970</u> <u>General Population Characteristics</u>, Final Report PC(1)-B39, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., 1961, 1971.

Table 26. Population Estimates of Incorporated Cities, Clackamas County, Selected Years, 1960-1972

City and County	1960	1966	1971	1972
Barlow	85		105	105
Canby	2,168	3,030	4,100	4,400
Estacada	957	1,060	1,190	1,310
Gladstone	3,854	5,120	6,470 1/	6,950
Happy Valley	-	1,110	1,390	1,300
Lake Oswego	8,906	12,600	15,680 1/	17,100
Milwaukie	9,099	15,423	17,080	17,500
Mo1a11a	1,501	1,650	2,180	2,300
Oregon City	7,996	8,430	9,600	10,300
Sandy	1,147	1,390	1,580 1/	1,620
West Linn	3,933	4,776	7,150	7,498
Johnson City	NA	NA	378	388
River Grove	NA	NA	319	319
Wilsonville	NA	NA	1,000	1,000
Incorporated Area	39,646	54,683	68,641	72,499
Unincorporated Area	73,392	84,317	106,259	105,901
County total	103,038	139,000	174,900	178,400

NA - not available.

1/ Includes population annexed during the period from April 1, 1970 to June 30, 1971.

SOURCE: Center for Population Research and Census, <u>Population Estimates of</u> <u>Counties and Incorporated Cities of Oregon</u>, Portland State University, July, 1972.

Composition of Clackamas County's population is similar to the State of Oregon. About 40 percent of the population is under 20 years of age, 9 percent is over 65 and the remaining 51 percent are between the ages of 20 and 65. The median age for the county is 28.4. Composition by sex is almost equal with 50.9 percent females and 49.1 percent males.

	Ма	1e	Fem	ale	Tot	tal	Per	cent
Age Group	1960	1970	1960	1970	1960	1970	1960	1970
Total population	56,020	81,629	57,018	84,459	113,038	166,088	100.0	100.0
Under 5	6,049	6,827	5,844	6,611	11,893	13,438	10.5	8.1
5-9	6,498	8,819	6,251	8,349	12,749	17,168	11.3	10.3
10-14	6,051	9,592	5,815	9,041	11,866	18,633	10.5	11.2
15-19	4,161	8,005	4,205	7,872	8,366	15,877	7.4	9.6
20-24	2,350	4,543	2,794	5,644	5,144	10,187	4.6	6.1
25-34	5,985	10,396	6,722	11,042	12,707	21,438	11.2	12.9
35-44	7,793	9,824	7,918	10,145	15,711	19,969	13.9	12.0
45-54	6,917	9,748	6,856	9,838	13,773	19,586	12.2	11.8
55-64	4,902	7,295	4,894	7,584	9,796	14,879	8.7	9.0
65 and over	5,314	6,580	5,719	8,333	11,033	14,913	9.8	9.0
Median age	30.5	27.8	30.8	29.0	30.6	28.4		

Table 27. Population by Age and Sex, Clackamas County, 1960 and 1970

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1960</u> and <u>1970</u> <u>General</u> <u>Population Characteristics</u>, Final Report PC(1)-B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1961, **19**71.

Table 28. Population of Selected Cities by Age and Sex, Clackamas County, 1960 and 1970

	Ca	nby	Glad	lstone	Lake	Oswego
Age Group	1960	1970	1960	1970	1960	1970
Under 5	191	320	420	430	891	922
5-14	410	699	763	1,117	1,977	3,271
15-24	247	605	412	926	1,006	2,294
25-34	251	461	489	756	1,104	1,730
35-44	232	421	501	641	1,452	2,064
45-54	241	376	455	731	1,256	2,076
55-64	215	344	312	683	623	1,290
65 and over	382	587	497	943	597	926
Total population	2,168	3,813	3,854	6,237	8,906	14,573
Male	1,047	1,813	1,808	2,897	4,385	7,166
Female	1,121	2,000	2,046	3,340	4,521	7,407
	Mi1w	aukie	Oregoi	n City	West	Linn
Age Group	1960	1970	1960	1970	1960	1970
Under 5	1,055	1,389	800	815	421	493
5-14	1,974	3,275	1,567	1,672	798	1,540
15-24	1,028	2,741	1,031	1,664	496	1,213
25-34	1,156	2,271	880	1,118	433	850
35-44	1,310	1,909	1,015	880	527	904
45-54	1,119	2,057	984	974	492	894
55-64	692	1,462	768	902	<b>3</b> 78	583
65 and over	764	1,275	952	1,151	389	614
Total population	9,099	16,379	7,996	9,176	3,933	7,091
Male	4,432	7,940	3,817	4,369	1,936	3,248
Female	4,667	8,439	4,179	4,807	1,997	3,843
SOURCE: U.S. Bureau o		-	-			
Population Ch						•
Government Pr	inting Off	ice, Washir	igton, D.C.	., 1961, 19	71.	

## Employment

According to the 1970 Census of Population, there were 67,024 persons in the civilian labor force in Clackamas County. Of these 62,994 were employed, and 4,032 were unemployed. The largest employer in the county is the manufacturing industry with almost 14,000 employees. Other large employers include retail trade, educational services, and construction.

	Clacka	mas County	Mil	waukie
Subject	1960	1970 1/	1960	1970 1
Total males, 14 years and over	38,502	54,601	2,993	5,434
Total labor force	30,155	43,324	2,413	4,472
Armed forces	64	115	-	13
Civilian labor force	30,091	43,209	2,413	4,459
Employed	28,645	40,710	2,335	4,249
Unemployed	1,446	2,499	78	210
Not in labor force	8,347	11,277	580	962
Inmate of institution	140	654	NA	12
Enrolled in school	3,277	3,391	NA	366
Other	-	7,232	NA	584
Total females, 14 years and over	39,832	58,688	3,219	5,973
Total labor force	13,141	23,816	1,146	2,762
Employed	12,482	22,284	1,109	2,608
Unemployed	659	1,532	37	154
Not in labor force	26,791	34,872	2,073	3,211
Inmate of institution	171	866	NA	-
Enrolled in school	3,591	4,108	NA	373
Other	16,258	29,898	NA	2,838
Married (husbands present), in				
labor force	6,771	15,722	NA	1,713

Table 29. Employment Status, Clackamas County, 1960 and 1970

1/ 16 years and over.

SOURCE:U.S. Bureau of the Census, Census of Population:1960 and1970General Social and Economic Characteristics, Final Report,PC(1)-C39,OregonU.S. Government Printing Office,Washington,D.C.,1962 and1972.

	Number Employed				
Industry	1960	1970			
griculture	<sup>3,534</sup> 151	3,165			
fining	75	99			
Construction	3,075	4,646			
lanufacturing	9,880	13,596			
Lumber and wood products	2,544	2,332			
Food and kindred products	805	754			
0ther	6,531	10,510			
Transportation	2,026	2,588			
Communications	538	702			
Molesale trade	2,305	4,312			
Retail trade	6,197	9,588			
Business services	1,907	5,666			
Personal services	2,593	2,910			
lospitals and health services	579	3,616			
ducational services	2,608	5,559			
Professional and related services.	1,233	2,774			
Public administration	1,669	2,662			
Itilities and sanitary services		1,111			
OURCE: U.S. Bureau of the Census, Cens	us of Population:	1960 and 1970 Genera			

Table 30. Industry Group of Employed, Clackamas County, 1960 and 1970

U.S. Government Printing Office, Washington, D.C., 1962 and 1972.

Table 31. Percent of Age Group in Labor Force, Clackamas County, 1970

Male			
	Female	Male	Female
12.7	9.6	16.2	11.2
38.3	24.0	40.3	31.4
67.9	47.6	72.1	57.2
74.6	54.0	71.1	62.2
90.8	53.0	92.6	52.8
96.0	41.6	95.3	42.3
96.9	50.4	96.4	55.4
89.7	47.2	92.1	54.9
25.7	10.1	28.7	14.1
	38.3 67.9 74.6 90.8 96.0 96.9 89.7	38.3       24.0         67.9       47.6         74.6       54.0         90.8       53.0         96.0       41.6         96.9       50.4         89.7       47.2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

SOURCE: U.S. Bureau of the Census, Census of Population, 1970 General Social and Economic Characteristics, Final Report PC(2)-C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

		Number Employ	ed
Occupation	Ma1e	<b>F</b> ema1e	Tota1
Total employed, 16 years and over Professional, technical, and	40,710	22,284	62,994
kindred workers	5,956	3,699	9,655
Engineers Physicians and related	1,019	-	1,019
practioners	498	· - '	498
Other health workers	208	763	971
Teachers	900	1,491	2,391
Technicians, except health	592	53	645
Other professional workers	2,839	1,292	4,131
Managers and administrators	5,478	1,081	6,559
Sales workers	3,512	1,733	5,245
Clerical and kindred workers	2,272	7,648	9,920
Craftsmen and kindred workers	8,730	466	9,196
Operative except transport	4,656	2,081	6,737
Transport	2,636	191	2,827
Laborers except farm	2,956	363	3,319
Farmers and farm managers	962	156	1,118
Farm 1aborers	820	388	1,208
Service workers	2,723	3,841	6,564
Cleaning service	1,042	398	1,440
Food service	605	1,595	2,200
Health service	127	987	1,114
Personal service	235	580	815
Protective service	537	28	565
Private household	9	637	646

Table 32. Clackamas County Occupations, 1970

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1970 General Social</u> and Economic Characteristics, Final Report PC(1)-C39, Oregon, U.S. Government Printing Office, Washington, D.C., **1**972.

Table 33. Number of Hired Seasonal Workers in Agriculture by Type of Worker, 1965 and 1971, Midmonth Figures

	Oregon City Are <b>a</b>									
	Loc		Intra Migra		J	rsta <b>te</b> atory				
Month	1965	1971	1965	1971	<b>19</b> 65	1971				
Мау	250	490			-	-				
June	9,130	3,040	300	-	680	-				
Ju1y	5,835	4,125	360	-	720	1,000				
August	3,625	1,350	20	-	295	400				
September	965	800	10	-	50	-				
October	410	650	-	-	30	-				

SOURCE: Oregon State Department of Employment, <u>1965 Oregon Farm Labor Report</u>, 1966; Oregon State Department of Human Resources, Employment Division, 1971 Annual Rural Manpower Report, 1972.

		Thousands	of Perso	
Industry	1968	1969	1970	1971
Civilian labor force	435.8	458.4	465.5	473.2
Workers in labor management disputes	.5	.4	.5	1.0
Unemployment	15.5	16.2	26.1	28.8
Percent of labor force	3.6	3.5	5.6	6.1
Employment	419.8	441.8	438.9	443.4
Agricultural	12.0	12.7	11.8	10.5
Nonagricultural	407.8	429.1	427.1	432.9
Self-employed, unpaid family and				
domestics	46.2	47.5	46.5	47.8
Wage and salary workers	361.6	381.6	380.6	385.1
Manufacturing	86.8	91.3	85.7	83.8
Durable goods	55.9	59.9	54.8	53.6
Lumber and wood	9.7	9.5	8.7	8.7
Primary metal	6.6	7.0	6.5	6.2
Other durables	39.6	43.4	39.5	38.7
Nondurable goods	30.9	31.4	30.9	30.2
Food products	10.2	10.5	10.3	10.4
Paper	7.9	7.7	7.6	77.1
Other	12.8	13.2	13.3	12.7
Nonmanufacturing	274.8	290.3	294.9	301.3
Contract construction	18.0	19.5	17.3	17.8
Transportation, communication,				
utilities	29.7	30.4	30.2	29.6
Wholesale and retail trade	88.1	92.5	92.6	93.8
Finance, insurance and real estate	22.8	24.2	24.7	25.0
Service and miscellaneous	59.3	64.6	67.7	70.4
Government	56.9	59.1	62.4	64.7

Table 34. Annual Average Labor Force in Portland Area 1/, 1968-1971

1/ Figures include Clackamas, Multnomah, and Washington Counties in Oregon, and Clark County in Washington.

SOURCE: Oregon State Department of Human Resources, Employment Division, <u>Labor</u> Force and Employment in Oregon by County, <u>1968</u> through <u>1971</u> publications, Research and Statistics Section, <u>1969</u>, <u>1972</u>.

Table 35. Median Earnings of Selected Occupation Groups, Clackamas County 1959 and 1969

Occupation Group	1959	1969	
Male, total with earnings Professional, managerial, and kindred	\$5,182	\$8,532	······································
workers	7,009	11,488	
Farmers and farm managers	2,051	4,664	
Craftsmen, foremen, and kindred workers	5,580	8,896	
Operatives and kindred workers	4,925	7,740	
Farm laborers	990	1,738	
Laborers, excluding farm and mine	4,013	5,659	
Female, total with earnings	\$2,088	\$3,614	
Clerical and kindred workers	2,863	4,100	
Operatives and kindred workers	2,309	3,356	

SOURCE: U.S. Bureau of the Census, Census, of Population: 1960 and 1970 General Social and Economic Characteristics, Final Report PC(1)-C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1962, 1972.

Table 36.	Covered Payrolls	and	Employment	by	Industry,	Clackamas	County,
		19	970 and 1971				

	Average	Employment	Annual Payroll
Industry	1970	1971	1971
Agriculture, forestry, and fisheries	147	205	\$ 963,055
Mining	96	169	1,671,589
Contract construciton	1,933	1,980	18,113,455
Lumber and wood products manufacturing	2,019	2,020	18,120,927
Food and kindred products manufacturing.	364	332	2,696,527
Other manufacturing	6,340	6,182	53,669,502
Transportation, communication, electric,			
gas, and sanitary services	936	1,033	9,413,185
Wholesale and retail trade	8,145	8,697	56,619,349
Finance, insurance and real estate	881	1,003	6,347,677
Services and miscellaneous	3,287	3,611	17,273,709
Government	1,516	1,536	13,441,039
Yearly total	25,670	26,768	\$198,333,301
	1		

SOURCE: Oregon State Department of Human Resources, Employment Division, Oregon Covered Employment and Payrolls, 1970 and 1971, Summary Data, Research and Statistics Section, 1971, 1972.

Table 37. Number and Percent of Persons Unemployed in Clackamas and Bordering Counties, 1968 and 1971

County		er of ple	Percent Labor Force		
	1968	1971	1968	1971	
CLACKAMAS 1/	15,500	28,300	<b>3</b> .6	6.1	
Marion 2/	4,000	5,400	5.6	6.8	
Yamhi11	890	1,460	6.5	9.8	
Wasco <u>3</u> /	690	720	7.4	7.3	

1/ Figures include Multnomah, Clackamas, and Washington Counties in Oregon, and Clark County in Washington.

2/ Figures include Marion and Polk Counties.

 $\overline{3}$ / Figures include Wasco and Sherman Counties.

SOURCE: Oregon State Department of Human Resources, Employment Division, Labor Force and Employment in Oregon by County, 1968 through 1971 publications, Research and Statistics Section, 1969, 1972.

Table 38.	Major	Occupation	Group	of	Unemployed,	Cl <b>a</b> ckamas	County,	1960 and	1970

	Number o	of Persons
Occupation Group	1960	1970
Professional, technical, and kindred workers	54	301
Farmers and farm managers	20	1/
Managers, officials and proprietors, excluding		
farm	56	1/
Clerical and kindred workers	178	485
Sales workers	54	173
Craftsmen, foremen, and kindred workers	339	775
Operatives and kindred workers	583	1,041
Service workers incl. private household	182	516
Farm laborers	98	158
Laborers, excluding farm and mine	370	355

1/ Included in professional, technical, and kindred workers.

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1960</u> and <u>1970</u> <u>General Social and Economic Characteristics</u>, Final Report PC(1)-C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1962, 1972.

Table 39. Local Government Employees and Payroll, Clackamas County, October, 1967

Item	Employees and Earnings
Employees	4,740
Full-time only	3,456
Full-time equivalent employment	3,702
Education	2,694
Teachers only	1,923
Functions other than education	1,008
Highways	188
Public welfare	10
Hospitals	
Health	30
Police protection	145
Sewerage	30
Fire protection	106
Sanitation other than sewerage	5
Parks and recreation	45
Natural resources	5
Housing and urban renewa1	12
Correction	20
Libraries	40
Financial administration	116
General control	133
Water supply	70
Other local utilities	4
Other and unallocable	49
October payroll	\$2,202,000
Education	1,635,000
Teachers only	1,305,000
Functions other than education	566,000

Item	Employees and Earnings
Average monthly earnings, full-time employment	
Teachers	\$ 678
Others	509

SOURCE: U.S. Bureau of the Census, Census of Governments, 1967, Vol. 3, No. 2, Compendium of Public Employment, U.S. Government Printing Office, Washington, D.C., 1969.

Income

Table 40. Net Effective Buying Income Estimates, Clackamas County, 1967 and 1970

	Net Dollars		Per Household	
Area	1967	1970	1967	1970
	thousand	dollars	- do1	lars -
State of Oregon	\$5,224,888	\$6,650,690	\$8,113	\$9,440
CLACKAMAS County	391,706	560,792	8,316	10,581
Oregon City	22,197	' NA	7,928	NA

NA - not available.

SOURCE: Bureau of Business and Economic Research, Oregon Economic Statistics, 1972, University of Oregon, 1972.

Table 41.	Bank Debits	and Deposits,	Clackamas	County,	1965-1971

Year	Bank Debits <u>1</u> /	Bank Deposits	
	thousand dollars		
1965	\$708,021	\$124,045	
1966	805,928	128,372	
1967	972,382	147,482	
968	1,193,597	171,993	
1969	1,394,211	178,694	
1970	1,539,562	187,905	
1971	1,898,439	NA	

NA - not available.

1/ Bank debits represent the dollar value of checks drawn against deposit accounts of individuals and businesses. Included are debits to demand deposit accounts of individuals, business firms, and state and other political subdivisions, and payments from escrow or trust accounts. Excluded are debits to U.S. government, interbank, time and savings accounts, and several other categories of accounts.

SOURCE: Bureau of Business and Economic Research, Oregon Economic Statistics, 1969 and 1972, University of Oregon, 1972.

Item	Number	Percent
Mean Income	h	
Families:		
A11 races	\$11,964	
Caucasian	11,995	
Spanish Language	10,508	
Black	10,876	
Other.	9,722	
Unrelated individuals:	9,122	
	4 722	
All races	4,322	
Caucasian	4,405	
Spanish Language	2,497	
Black	1,800	
0ther	1,917	
Families by Family Income Class		
All races:		
under \$3,999	4,576	10.52
\$4,000 to \$5,999	3,418	7.86
\$6,000 to \$11,999	18,321	42.14
\$12,000+	17,169	39.48
total	43,484	100.00
Caucasian:	43,404	100.00
	1 116	9.79
under \$3,999	4,446	
\$4,000 to \$5,999	3,364	7.95
\$6,000 to \$11,999	17,981	42.27
\$12,000+	16,941	39.99
total	42,732	100.00
Spanish Language:		
under \$3,999	64	15.50
\$4,000 to \$5,999	21	5,08
\$6,000 to \$11,999	190	46.00
\$12,000+	138	33.42
tota1	413	100.00
Black:		
under \$3,999	5	10.87
\$4,000 to \$5,999	4	8.70
\$6,000 to \$11,999	18	39.13
\$12,000+	19	41.30
total	46	100.00
Other:	40	100.00
under \$3,999	61	20.82
\$4,000 to \$5,999	29	9.90
\$6,000 to \$11,999	132	45.05
¢12 000±		
\$12,000+	71	24.23
total	293	100.00

### Table 42. Income and Poverty Data for Racial Groups, Clackamas County, 1970

#### Table 42, cont. Income and Poverty Data for Racial Groups, Clackamas County, 1970

Item	Number	Percent
Income below poverty level (bpl)		· · · · ·
Families bpl		
All races	2,841	100.00
Caucasian	2,739	96.40
Spanish Language	62	2.19
Black		
0ther	40	1.41
Persons in families bpl	10,067	
Unrelated individuals bpl	· · · ·	
Under 65	1,712	
65 and over	1,869	
Male family head, 14-64 yrs., bpl		
Employed	975	
Unemployed	171	
Not in labor force	285	
Female family heads bpl in labor force		
with children below 6 years	141	
Income source of families and unrelated		
individuals bpl		
Earnings	2,743	
Social security or railroad retirement.	2,737	
Public assistance or welfare	667	

Blank spaces indicate a zero, suppressed data, or not applicable. SOURCE: Valde, Gary R. and Robert O. Coppedge, Income and Poverty Data for Racial Groups: A Compilation for Oregon Census County Divisions, Special Report 367, Oregon State University, Coravallis, Oregon, 1972.

#### Education

In addition to the public grade schools and high schools reported in the tables below, Clackamas Community College is located at Oregon City. The college offers a wide variety of higher education opportunities with many programs leading to Associate Degrees. The college also offers a variety of adult education classes.

# Table 43. Formal Education Facilities, Clackamas County, 1969-1970 and 1971

School District, Type School,	Enroll	ment $\frac{1}{}$	High School	
and Number of Each Type	1969-70	1971	Graduates, 1971	
Boring School District # 44		`		
Elementary - 1 Bull Run School District #45	431	478		
Elementary - 1 Butte Creek School District #67J	94	77		
Elementary - 1	163	160		
Elementary - 2	<b>1</b> ,124	905		
Junior high - 1 Canby Union High District #1		322		
High School - 1 Carus School District #29	767	837	153	
Elementary - 1 Clarkes School District #32	101	93		
Elementary - 1 Colton School District #53	147	173		
Elementary - 1	384	457		
High School - 1	168	203	37	
Cottrell School District #107			37	
Elementary - 1 Damascus Union School District #26	152	180		
Elementary - 1 Dickey Prairie School District #25	334	424		
Elementary - 1 Estacada School District 108	44	37		
Elementary - 4	1,391	1,101		
Junior high - 1 Estacada Union High School District #6		401		
High School - 1 Gladstone School District #115	703	807	152	
Elementary - 2	895	935		
High School - 1 Lake Oswego School District #7	415	458	88	
Elementary - 7	3,163	3,242		
Junior High - 2	1,533	1,558		
High School - 2 Maple Grove School District #87	1,462	1,465	445	
Elementary - 1 Molalla School District #35	27	25		
Elementary - 1	933	981		
Molalla Union High School District #4 High School - 1	809	874	196	
Mulino School District #84 Elementary - 1	280	2 36		
Ninety-One School District 91 Elæmentary - 1	271	330		
North Clackamas School District #12				
Elementary - 18	750	NA		
Junior high - 5	1,417	NA	<b>a</b>	
High School - 4	4,181	NA	999	

Table 43, cont. Formal Education Facilities, Clackamas County 1969-1970 and 1971

School District, Type School,	Enro11m	ent $\frac{1}{}$	High School
and Number of Each Type	1969-70	1971	Graduates, 1971
Oregon City School District #62			
Elementary - 11	2,542	2,769	
Junior high - 2	1,101	1,216	
High school - 1	1,011	1,093	322
Red1and School District #46		-	
Elementary - 2	1,450	NA	
Junior high - 1	•	NA	
Sandy Union High School District #2			
High school - 1	791	874	167
Shubel School Distrct #80			
Elementary - 1	55	49	
Three Lynx School District #123			
Elementary - 1	62	71	
Welches School District #13			
Elementary - 1	205	234	
West Linn School District 3J			
Elementary - 6	1,889	2,034	
High school - 1	955	972	224
County totals	0.5 555	44 004 04	
Elementary - 70	23,757	14,991 2/	
Junior high - 8	4,052	3,497 2/	
High school - 12	11,261	7,583 2/	2,783

1/ Average daily membership.

 $\overline{2}$ / This figure is not a true total because figures from some districts were not available.

NA - not available.

SOURCE: Oregon Board of Higher Education, <u>1971-72</u> Oregon School-Community College Directory, and <u>1971</u> Oregon Public High School Graduates, and <u>Summary</u> of Pupil Personnel for Fiscal Year ending June 30, 1969, School Finance and Statistical Service.

Table 44. Years of School Completed by Population 25 Years and Over, Clackamas County, 1970

Education	- 	Number Males	Number Females	Tota1	Percent
Total, 25 years	and over	43,842	47,000	90,842	100.00
No school yea	rs completed	245	267	512	.56
Elementary:	1-4 years	741	520	1,261	1.38
	5-7 years	2,826	1,835	4,661	5.13
	8 years	5,866	4,927	10,793	11.88
High Schoo1:	1-3 years	7,512	8,214	15,726	17.31
Ū.	4 years	13,162	19,368	32,530	35.80
College:	1-3 years	5,959	6,864	12,823	14.11
	4 or more years	7,531	5,005	12,536	13.79
4edian school y	ears completed	12.4	12.4	12.4	-
-					

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1970 General Social</u> and Economic Characteristics, Final Report PC(1)-C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

·						
District	White	B1ack	American Indian	Spanish Surname	Other <sup>1/</sup>	Tota1
			number of	f students -		_`_ <del>`</del>
Boring	451	1	5	6	3	466
Bu11 Run	70	2	-	—	_	72
Butte Creek	161	2	-	5	13	181
Canby Grade	1,134	-	-	46		1,180
Canby UHS #1	853	1	-	19	16	889
Carus	<b>1</b> 02	<b>-</b> <sup>1</sup>	<b>_</b> *	-	-	102
Clarkes	203	-	-		<b>-</b> ·	203
Co1ton	657	6	5	8	5	681
Cottre11	214	2	1		-	217
Damascus	524	2	3	=		529
Dickey Prairie	55		1	_	_	56
Estacada Elementary.	1,508		<u>_</u>	-	5	1,513
Estacada UH #6	811	4	-	4	3	822
G1adstone	1,371	5		6	35	1,417
Lake Oswego	6,516	39	12	38	44	6,649
Maple Grove	28	-	-	<b>-</b> .	<u>-</u>	28
Molalla Elementary	503	-	-	-	_ *	<b>50</b> 3
Mo1a11a UH #4	883	1	- 1	12	2	898
Mulino	313	1	-	1	3	318
Ninety-one	307	-	-	23	27	357
North Clackamas	13,432	38	28	41	132	13,666
Oregon City	5,252	4	29	34	51	5,370
Redland	471	1	-	- -	· _	472
Rural Dell	146	-	· · · ·		-	146
Sandy Elementary	1,183	1	8	25	11	1,228
Sandy UH #80	864	1	10	1	5	881
Shube1	50	4	- 1	<b>-</b> .	_	54
Three Lynx	79	-	-	-	· · _ ·	79
Welches	263	2	5	5	7	282
West Linn	2,903	11	14	16	18	2,962
Tota1	41,307	113	131	290	380	42,221

# Table 45.Racial and Ethnic Distribution of Public School Enrollment<br/>by School District, Clackamas County, 1972

1/ Includes Chinese, Japanese, Filipino and others.

SOURCE: Compiled from Oregon Board of Education Reports by Oregon State University Extension Serivce. Table 46. Clackamas County Residents Enrolled in Higher Education Institutions, Fall 1971

Institution	Number Enrolled		
Total enrolled	3,534		
Eastern Oregon College	38		
Oregon College of Education	142		
Oregon State University	526		
Portland State University	1,424		
Southern Oregon College	104		
University of Oregon	518		
Oregon Technical Institute	41		
University of Oregon Dental School.	27		
University of Oregon Medical School	68		
Total in private and independent			
institutions	646		

1972.

#### Table 47. Youth Organizations, Clackamas County

Organization	Membership
Boy Scouts	3,310
Camp Fire Girls	NA
4-H.	3,159
Future Farmers	560
Girl Scouts	1,679
Junior Achievement	785 1/
ҮМСА	1,285 2/

1/ Figure includes Clackamas and Multnomah Counties.

 $\overline{2}$ / Figure includes members 8 to 18 years of age.

SOURCE: 1973 Boy Scout figures from Columbia-Pacific Council, unpublished data; 1972 4-H and Future Farmers figures from Oregon State University Extension Service, 4-H Division, unpublished data; 1973 Girl Scout figures from Columbia River Council, unpublished data; 1973 Junior Achievement enrollment from Portland Junior Achievement Office, unpublished data; 1973 YMCA figure from Portland office, YMCA, taken from YMCA National Yearbook.

Although Clackamas County operates no correctional institutions of its own, it is served by four state correctional institutions in Marion County. These include training schools for socially maladjusted boys between 12 and 18 years of age and girls between the ages of 12 and 21. Table 48. Felonies and Juvenile Delinquency, Clackamas County, 1968

Subject	Number	
Commitments to felony and correctional institutions, 1967-68		
Total commitments	49	
Oregon State Penitentiary	9	
Oregon State Correctional Institution	7	
MacLaren (boys! training school) 1/	25	
Hillcrest (girls' training school) $1/\ldots$	8	$\frac{\partial f_{\rm eff}}{\partial t} = \frac{1}{2} \left( \frac{\partial f_{\rm eff}}{\partial t} + \frac{\partial f_{\rm eff}}{\partial t} \right) + \frac{1}{2} \left( \frac{\partial f_{\rm eff}}{\partial t} + \frac{\partial f_{\rm eff}}{\partial t} \right)$
Juvenile court cases, 1968		
All cases	3,411	
Delinquency	2,152	
Traffic	734	
Other	525	

1/ Oregon State Department of Human Resources, Children Services Division, Adolescent Population and Commitment Data by County, by Calandar Year, 1967-1970.

SOURCE: Oregon State Executive Department, Program Planning Division, District Facts, 1970.

#### Health and Vital Statistics

Because of their proximity to the Portland metropolitan area, Clackamas County residents have access to many health care facilities in addition to those actually located within the county.

The county has two hospitals, one located at Oregon City and one located at Milwaukie. The county has less medical personnel per population than the state as a whole. However, this is partially due to the fact that many residents of the county are treated by medical personnel located in adjacent Multnomah County.

	Number of 1	Facilities	Number of	f Beds
Category and Community	existing	needed	existing	needed
Conomal Hognital				
General Hospital Milwaukie	1 1	1	60	60
Oregon City	2	2	174	152
Long-term Care Facilities				
Gladstone	1	1	90	90
Milwaukie	2	2	188	188
Portland	1	1	66	66
Canby	0	1	0	50
Colton	0	1	0	30
Gladstone	2	2	163	200
Mo1a11a	1	1	39	39
Oregon City	3	5	192	392
Sandy	1	3	59	120
West Linn	1	1	63	63
)iagnostic and Treatment Centers				
Milwaukie	0	0	-	
Oregon <b>C</b> ity	2	2	-	-
1/ Mental Facilities: the state a part of this plan by referen SOURCE: Oregon State Board of Hea Construction Section. Ore	nce. alth, Health	Facility P1	anning <b>a</b> nd	

Table 49. Existing Medical Facilities, Number of Existing Beds, and Number of Beds Needed, Clackamas County, 1971 1/

SOURCE: Oregon State Board of Health, Health Facility Planning and Construction Section, Oregon State Plan for Construction and Modernization of Hospitals, Public Health Centers, and Medical Facilities, 1971 Annual Revision, 1971.

Table 50. Diagnostic or Treatment Center Facilities, Clackamas County, 1970

Name and Location	Outpatient Visits During Year	Services <u>1</u> /
Oregon City Hospita1, Oregon City Willamette Falls Community	2,814	А, Н, І
Hospital, Oregon City	8,309	А, Н, І

 Service code: A--General; H--X-ray; I--Clinical Laboratory, 1964 data.
 SOURCE: Oregon State Board of Health, Health Facility Planning and Construction Section, Oregon State Plan for Construction and Modernization of Hospitals, Public Health Centers and Medical Facilities, 1971 Annual Revision, 1971.

Name of Facility	Location	Total Capacity	Percent of Occupancy
General Hospitals	······································		•
Dwyer Memorial Hospital	Milwaukie	60	68
Oregon City Ho <b>s</b> pital	Oregon City	52	48
Willamette Falls Community	Oregon City	84	66
Long-term Care Facilities			
Gladstone Convalescent Hosp	Gladstone	90	85
Milwaukie Convalescent Hosp	Milwaukie	68	84
Willamette Meth	Milwaukie	120	71
Rose Villa	Portland	66	70
Nursing Homes			
Canby Nursing Home 1/	Canby	26	127
Lutheran Pioneer Home 1/	Colton	20	109
Bide-A-Wee Nursing Home	Gladstone	73	100
Franklin Nursing Home	Gladstone	90	100
Molalla Nursing Home	Mo1a11a	39	78
Benson's Falls View 1/	Oregon City	26	69
Benson's Sierra Vt	Oregon City	102	80
Center View Nursing Home 1/	Oregon City	27	66
Hospital Nursing Home	Oregon City	48	90
Oregon City Nursing Home	Oregon City	42	88
McGuires Nursing Home 1/	Sandy	29	99
Orchard Crest Nursing Home 1/	Sandy	26	85
St. Judes Home	Sandy	59	94
West Linn San	West Linn	63	78

#### Table 51. Percent Occupancy of Existing Medical Facilities, Clackamas County, 1969

1/ This facility does not have skilled nursing care as defined by the Oregon State Plan for Long-Term Care facilities. Therefore, the existing beds are not counted in totals for areas.

SOURCE: Oregon State Board of Health, Health Facility Planning and Construction Section, Oregon State Plan for Construction and Modernization of Hospitals, Public Health Centers and Medical Facilities, 1971 Annual Revision, 1971.

Table 52. Number of Licensed Medical Personnel and Ratio of Population per Professional, Clackamas County, 1969

	Clackama	as County	State
Profession	Number	Ratio 1/	Ratio <u>1</u> /
Medical doctors and doctors of			
osteopathy	104	1,585	770
Dentists	86	1,916	1,470
Registered nurses	296	557	276
Licensed practical nurses	54	3,052	1,002
Pharmacists	104	1,585	1,375
	1		

1/ Ratio figure equals population per professional in particular category. SOURCE: Oregon State Executive Department, Program Planning Division, District Facts, 1970. Table 53. Number of Admissions to State Psychiatric Hospitals and Mental Health Clinics, and Ratio per 100,000 Population, Clackamas County, 1968-69

	C1ackama	State	
Facility	Number	Ratio	Ratio
Psychiatric hospitals	195	118	134
Mental health clinics	572	347	460

SOURCE: Oregon State Executive Department, Program Planning Division, District Facts, 1970

> Table 54. Births and Deaths by Major Category, Clackamas County and State of Oregon, 1967 and 1971

		Clackamas County					
	Num	iber	Rate		Rate		
Category	1968	1971	1968	1971	1971		
A11 births 1/	2,395	2,593	15.1	14.8	15.6		
All deaths $\overline{1}/\ldots$	1,251	1,310	7.9	7.5	9.4		
Illegitimate births 2/	161	136	67.2	52.4	78.1		
Premature births 2/	117	116	48.9	44.7	57.4		
Infant deaths 2/	40	41	16.7	15.8	18.4		
Accidental deaths 3/	78	93	49.1	53.2	61.3		

1/ Rates per 1,000 population.

2/ Rates per 1,000 live births

 $\overline{3}$ / Rate per 100,000 population.

SOURCE: Oregon State Department of Human Resources, State Health Divison, Vital Statistics Section, Vital Statistics Annual Report, 1968 and 1971.

		Clackama:	s County	State	
Item		Number	Rate 1/	Rate <u>1</u> /	
Morbidity			·		
Tuberculosis	1997 - 1997 1997 - 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1	6	3.4	11.6	
Syphilis		6	3.4	5.3	
Gonorrhea		261	149.2	422.0	
Influenza		2,516	1,438.5	1,171.7	
Hepatitis, infectious		48 2/	32.7 2/	45.1 2	
Measles (Rubella)		84	48.0	18.1	
Deaths from all causes		1,310	7.5 3/	9.4 3	
Malignant neoplasms (cancer)		242	138.4	168.4	
Diabetes mellitus		16	9.1	13.3	
Heart diseases		473	270.4	349.6	
Cerebrovascular diseases		159	90.9	110.9	
Arteriosclerosis	1.0	49	28.0	21.2	
Other cardiovascular diseases	1	34	19.4	17.3	
Influenza.and pneumonia		36	20.6	26.4	
Bronchitis, emphysema, asthma		26	14.9	26.9	
Peptic ulcer		6	3.4	4.3	
Cirrhosis of liver		13	7.4	15.8	
Congenital anomalies		13	7.4	8.2	
Certain infancy mortaility causes		14	8.0	14.7	
11 other diseases		107	61.2	76.9	
Accidents		93	<b>5</b> 3.2	61.3	
Suicides		24	13.7	14.9	
lomicides		3	1.7	3.8	

#### Table 55. Health Statistics, Clackamas County, 1970

2/ 1966-68 average taken from Office of the Governor, Planning Section, Health Facts, 1969. 3/ Rate per 1,000 population. SOURCE: Oregon State Department of Human Resources, State Health Division,

Vital Statistics Annual Report, 1970.

Category	Cases	Average Payments
Cases receiving non-medical paymentsOld age assistanceAid to the blindAid to the disabledAid to dependent children 1/General assistanceFoster care	380 27 295 3,675 47 NA	\$64.25 131.78 93.12 48.89 51.75 NA
Physicians services 1/ OAA.AB.AD.ADC.GA.FC.	$     \frac{\frac{2}{2}}{\frac{2}{2}}     \frac{\frac{2}{2}}{\frac{2}{4}}     \frac{2}{2}     $	\$34.59
Hospital payments         1/           OAA	$\frac{2}{2}/\frac{2}{2}/\frac{2}{5}/\frac{2}{2}/\frac{2}{5}$	\$422.62
Drug payments         1/           OAA	$     \frac{\frac{2}{2}}{\frac{2}{2}}     \frac{\frac{2}{2}}{\frac{2}{2}}     \frac{2}{26}     \frac{2}{2}     $	\$28.08

### Table 56. Public Welfare Payments for Assistance, Clackamas County, August, 1972

1/ Persons not cases.

 $\frac{1}{2}$ / Not included because Clackamas County paid under PACC contract. NA - not available.

SOURCE: Oregon State Department of Human Resources, Public Welfare Division, Public Welfare in Oregon, August 1972 edition.

1968-69 \$62.07	1971-72	
¢(2,07	· • • • • •	
302.07	\$62.00	
81.34	74.98	
73.48	117.89	
65.16	62.97	
33.38	50.56	
39.47	46.66	
	81.34 73.48 65.16 33.38	81.34       74.98         73.48       117.89         65.16       62.97         33.38       50.56

Table 57. Average Monthly Public Welfare Payments by Type of Service Clackamas County, Fiscal Years 1968-69 and 1971-72

1/ Payment per person, not case.

 $\overline{2}$ / The UN figure represents payments to families where the male parent is in the home but unemployed. The basic figure represents all others.

SOURCE: Unpublished data received from Sondra Lipman, Oregon Public Welfare Division, Research and Statistics Section, May 1973.

The State of Oregon operates three special schools for the handicapped, all located at Salem in Marion County. The School for the Blind provides special education for approximately 100 children with acute vision problems in a boarding school situation. The School for the Deaf provides parallel training for severly handicapped children from four years of age through high school. Oregon Fairview Home provides in-andout patient training for mentally deficient minors and adults.

#### Housing

	Milw:	aukie	Orego	Oregon City		stone
Subject	Number	Percent	Number	Percent	Number	Percent
Occupancy						
All year-round						
housing units	5,544	100.00	3,224	100.00	2,189	100.00
Owner occupied	3,659	65.99	1,879	58.28	1,518	69,34
Renter occupied	1,768	31.89	1,216	37.71	582	26.58
Vacant year-round	717	12.93	129	4.00	89	4.06
Facilities						
Telephone available	NA	-	2,744	88.63	1,935	92.01
Air conditioning	470	8.57	180	5.58	165	7.53
Median gross rent of						
renter occupied	\$128		\$108		\$120	

Table 58. Housing, Occupancy, and Facilities for Places with over 2,500 Inhabitants, Clackamas County, 1970

NA - not available.

SOURCE: U.S. Bureau of the Census, Census of Housing, 1970 Detailed Housing Characteristics, Final Report HC(1)-B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

	Clackama:	s County	State
Subject	Number units	Percent	Percent
Occupancy			
A11 housing units	54,603	100.00	100.00
Seasonal or migratory	974	1.78	1.3
Owner occupied	38,545	70.59	61.3
Renter occupied	13,132	24.04	31.5
Vacant year-round	1,952	3.57	5.9
Population in housing units per unit			
Owner occupied	3.3	-	-
Renter occupied	2.9	-	
Persons per room			
A11 occupied units	51,677	100.00	100.00
1.00 or less	48,919	94.66	94.7
1.01 to 1.50	2,238	4.32	4.2
1.51 or more	520	1.00	1.1
Facilities Lacking some or all			
plumbing facilities	1,149	2.14	3.6
Telephone available	47,922	92.73	89.5
Air conditioning	4,489	8.37	10.3
Median number of rooms	5.3	-	5.0
Median value 1/	\$19,200	-	\$11,300
Median gross rent 2/	\$122		\$107

Table 59. Housing Occupancy and Facilities, Clackamas County, 1970

1/ Specified owner occupied. Limited to one-family homes on less than 10 acres and no business on property.

2/ Specified renter occupied. Excludes one-family homes on 10 acres or more. SOURCE: U.S. Bureau of the Census, Census of Housing, <u>1970 Detailed Housing</u> <u>Characteristics</u>, Final Report, HC(1)-B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

#### THE COUNTY'S ECONOMY

#### Agriculture

Snap beans and other truck crops are the principle processing crops grown in Clackamas County. Small fruits and truck crops account for a large percentage of the total gross farm income for the county.

Clackamas County is the leading poultry producing county in the state with sales from poultry and poultry products approximately 25 percent of the state's total.

Subject	1959	1964	1969	
Approximate acres of land area	1,207,680	1,205,750	1,205,824	
Proportion in farms	26.4	21.7	17.4	
Total number of farms	4,267	4,116	2,801	
Acres in farms	319,048	261,815	210,055	
Average size of farms	74.8	63.6	74.9	
Value of land and buildings	NA	NA	\$179,042,053	
Average per farm	\$23,517	\$33,418	\$63,920	
Average per acre	370.17	538.75	852.35	

Table 60. Farm Size and Value, Clackamas County, 1959, 1964, and 1969

SOURCE: U.S. Bureau of the Census, Census of Agriculture, 1964 and 1969, Vol. 1, Area Reports, Part 47, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

Unlike many of the counties in Oregon, and contrary to the national trend, the size of farms in the county has remained quite stable over the past few years. However, the total number of farms is decreasing.

					1		
		Number			Percent		
Size	1959	1964	1969	1959	1964	1969	
Less than 10 acres	564	444	272	13.21	10.78	9.71	
10 to 49 acres	2,063	2,145	1,357	48.34	51.22	48.44	
50 to 69 acres	395	372	263	9.25	9.03	9.38	
70 to 99 acres	477	4 38	335	11.17	10.64	11.96	
100 to 139 acres	293	256	209	6.86	6.21	7.46	
140 to 179 acres	183	184	127	4.28	4.47	4.53	
180 to 219 acres	87	<b>9</b> 0	64	2.03	2.18	2.28	
220 to 259 acres	72	56	45	1.68	1.36	1.60	
260 to 499 acres	100	103	92	2.34	2.50	3.28	
00 to 999 acres	26	25	32	.60	.60	1.14	
1,000 to 1,999 acres	4	1	3	.09	.02	.10	
2,000 acres or more	3	2	2	.07	.04	.07	
otal farms	4,267	4,116	2,801	100.00	100.00	100.00	

## Table 61. Number and Percent of Farms by Size, Clackamas County, 1959, 1964, and 1969

SOURCE: U.S. Bureau of the Census, <u>Census of Agriculture</u>, <u>1964</u> and <u>1965</u>, Volume 1, <u>Area Reports</u>, Part 47, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., 1967, 1972.

Classification of farms by economic class considers only those classified by the U.S. Department of Agriculture as "Commercial farms."

In general, all farms with a total value of products sold amounting to \$2,500 or more are classified as commercial. Farms with sales of \$50 to \$2,499 are classified as commercial if the farm operator was under 65 years of age and (1) he did not work off the farm 100 or more days during the year and (2) the income received by the operator and members of his family from nonfarm sources was less than the value of all farm products sold.

Tab1e 62. F	farms by	Economic Class.	Clackamas County	. 1959	, 1964,	and	1969
-------------	----------	-----------------	------------------	--------	---------	-----	------

		Number			Percent	
Economic Class	1959	1964	1969	1959	1964	1969
Commercial farms		24				
Class I (sales of \$40,000 or`more) Class II (sales of \$20,000	89	144	167	2.08	3.49	5.96
to \$39,999) Class III (sales of \$10,000	142	154	169	3.32	3.74	6.03
to \$19,999) Class IV (sales of \$5,000	273	206	191	6,39	5.00	6.81
to \$9,999) Class V (sales of \$2,500	346	311	257	8.10	7.55	9.17
to \$4,999) Class VI (sales of \$50 to	505	437	412	11.83	10.61	14.70
\$2,499)	285	379	183	6.67	9.20	6.53
Other farms						
Part-time	2,020	1,910	1,069	47.34	46.40	38.16
Part-retirement	650	571	350	15.23	13.87	12.49
Abnorma1	·	4	3	-	.09	.10
Total farms	4,267	4,116	2,801	100.00	100.00	100.00

SOURCE: U.S. Bureau of the Census, <u>Census of Agriculture</u>, <u>1964</u> and <u>1969</u>, Vol. 1, <u>Area Reports</u>, Part <u>47</u>, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., 1967, 1972.

Table 63. Farm Operators by Tenure, Clackamas County, 1959, 1964, and 1969

Tenure	1959	1964	1969
Full owners	3,516	3,384	2,252
Part owners	561	543	430
Managers	11	-	<u>.</u>
Tenants	179	174	119
Total operators	4,267	4,116	2,801

SOURCE: U.S. Bureau of the Census, <u>Census of Agriculture</u>, <u>1964</u> and <u>1969</u>, Vol. 1, <u>Area Reports</u>, Part 47, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., <u>1967</u>, 1972. Table 64. Farm Operators by Age and Years of School Completed, Clackamas County, 1959, 1964, and 1969

Subject		1959	1964	1969
	ars)	52.1 820	51.8 769	52.6
-		020	709	545
Years of school	completed			
Elementary:	0-4 years	NA	44	NA
	5-7 years	11	226	11
	8 years	11	1,069	-11
High School:	1-3 years	ŤŦ.	781	**
	4 years	**	1,264	
College:	1-3 years	11	409	**
	4 yrs. or more	11	323	· · · •

NA - not available.

SOURCE: U.S. Bureau of the Census, <u>Census of Agriculture</u>, <u>1964</u> and <u>1969</u>, Vol.1, <u>Area Reports</u>, Part 47, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., 1967, 1972.

Table 65. Value of Farm Products Sold 1/, Clackamas County, 1966-1970

Product	1966	1967	1968	1969	1970 <u>2</u>
			thousand d	ollars	
All crops, livestock and					
livestock products	33,962	32,196	33,939	37,153	36,799
A11 crops	15,795	15,053	15,163	18,686	17,725
All grain, hay and seeds.	2,754	2,636	2,588	3,268	3,870
All seed crops	1,311	1,151	1,186	1,635	1,990
All grain and hay	1,441	1,485	1,402	1,633	1,880
A11 hay	517	584	532	638	669
A11 grains	924	901	870	995	1,211
Wheat	621	614	584	575	758
Bar1ey	130	94	110	152	149
Vegetables, fresh and for					
processing	2,613	2,375	2,722	2,806	2,714
All berries	4,608	3,633	3,217	5,481	3,839
Strawberries	NA	ŃA	975	1,094	740
All tree fruits and nuts.	900	628	793	737	923
Specialty field crops	176	118	97	98	114
Specialty horticultural					
crops	4,075	4,757	4,887	5,052	5,275
All potatoes	430	402	509	861	425
-					
All livestock and livestock	40.475		10 554	10 1/7	10 074
products	18,167	17,143	18,776	18,467	19,074
Dairy products	2,763	2,948	3,056	2,920	2,943
Poultry products	5,238	4,647	5,046	5,360	6,285
Cattle and calves	2,551	2,480	3,070	2,535	2,910
Sheep and lambs	320	301	332	394	334
Hogs	845	790	711	700	711

NA - not available. 1/ Crop year includes quantities sold or held for sale.

2/ Preliminary figures.

SOURCE: OSU Extension Service and USDA cooperating"Oregon Commodity Data Sheets," Oregon State University, 1971-72. Table 66. Acres of Crops Harvested, Clackamas County, 1969 and 1970

Crops Harvested	1969	1970p	
Corn for grain	700	900	
Small grains			
Wheat	9,500	9,600	
Oats	9,000	9,000	
Barley	4,000	4,000	
Hay crops	41,200	40,800	
Field seed crops			
Crimson clover	2,500	3,200	
Red and tall fescue	3,850	4,050	
Red clover	2,200	2,500	
Chewings fescue	5,000	5,000	
Vegetables			
Fall potatoes	1,700	1,000	
Sweet corn	650	600	
Snap beans	750	800	
Berries			
Stawberries	1,100	900	
Blackberries	1,100	1,000	
Raspberries	2,575	2,650	
Tree fruits, nuts, & grapes.	3,050 1/	NA	

NA - not available.

1/ Figure from U.S. Bureau of the Census, <u>Census of Agriculture</u>, <u>1969</u>, Vol. 1, <u>Area Reports</u>, Part 47, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., <u>1972</u>.

SOURCE: Oregon State University Extension Service and U.S.D.A. cooperating, "Oregon Commodity Data Sheets," 1971-72.

Table 67.	Livestock and Poultry Numbers, Clackamas C	County,
	1950, 1960, 1969, and 1970	

Category <u>1</u> /	1950	1960	1969	1970 <u>2</u> /
All cattle	29,600	40,000	44,000	46,000
Dairy cattle	6,100	5,100	2,800	2,600
Sheep and lambs	700	2,700	1,000	1,100
Hogs	18,000	25,500	23,000	NA
Chickens	NA	NA	780,000	743,000
Turkeys raised	NA	NA	643,100	796,000

NA - not available.

1/ Numbers as of January 1, unless otherwise indicated.

 $\overline{2}$ / Preliminary figures.

SOURCE: Oregon State University Extension Service and U.S.D.A. cooperating, "Oregon Commodity Data Sheets," 1971-72.

# Table 68. Food and Kindred Products Manufacturing, Clackamas County, 1968 and 1970

Product Group	Number	of Firms	Employment	
	1968	1970	1968	1970
Meat products	6	8	185	91
Dairy products Canning and preserving fruits,	1	1	6	6
vegetables & seafoods	4	4	289	287
Grain mill products	5	4	34 1/	38
Bakery products Confectio <b>ne</b> ry and related	1	2	100 -	110
products	1	1	1	1
Beverages	2	<del>-</del> .	40	-
Misc. food preparation	2	-	6	-

1/ One or more firms did not report number of employees. SOURCE: Oregon State Department of Commerce, Economic Development Division, Directory of Oregon Manufacturers, 1968 Oregon State Executive Department, Economic Development Division, Directory of Oregon Manufacturers, 1970

#### Logging and Wood Products

Table 69. Lumber and Wood Products Manufacturing Excluding Furniture, Clackamas County, 1968 and 1970

Due lost Crown	Number	of Firms	Employment	
Product Group	1968	1970	1968	1970
Logging camps and contractors	32	39	582	806
Sawmills and planing mills	22	22	655	698
Special products sawmills	1	2	6	12
Millwork	3	6	31	37
Veneer and plywood	5	4	306	243
Prefabricated wooden buildings	4	4	105	104
Nailed and lock corner wooden boxes	-	1	-	3
Wood preserving Wood products, not elsewhere	-	1	<b>–</b> *	6
classified	-	1	-	1/

1/ Not reported.

SOURCE: Oregon State Department of Commerce, Economic Development Division, Directory of Oregon Manufacturers, 1968.

Oregon State Executive Department, Economic Development Division, Directory of Oregon Manufacturers, 1970. Table 70. Timber Harvest by Ownership, Clackamas County, 1970 1/

Ownership	Production <u>2</u> /	Percent of Total
Total timber harvest	328,652	100.00
Private 3/	115,289	35.07
Bureau of Land Management 4/	31,394	9.55
National forest 5/	181,969	55.36
State <u>3</u> /	-	<u> </u>

Includes volume removed as logs but not volume removed for poles, piling, 1/ and wood cutting operations.

 $\frac{2}{3}$ Scribner log rule - thousand board feet.

Compiled by State Forester.

 $\overline{4}/$ Compiled by Bureau of Land Management.

5/ Compiled by U.S. Forest Service.

Wall, Brian R., "1970 Timber Harvest," U.S.D.A. Forest Service Resource SOURCE: Bulletin PNW-38, U.S. Forest Services, Pacific Northwest Range and Forest Experiment Station.

Table 71. Log Consumption in Thousand Board Feet by Species and Industry, Clackamas County, 1968 1/

	 Tv	pe of Industry	
Species	Sawmills	Veneer and Plywood 2/	Shake and Shingle
All species	285,738	155,107	NA
Douglas-fir	227,581	131,542	11
Hemlock True firs	49,941 188	12,388 3,072	11
Pines	971	3,015	11
Other softwoods	6,349	274	1
Hardwoods	708	· · · · · · · · · · · · · · · · · · ·	

NA - not available.

1/ Scribner log rule.

 $\overline{2}/$ Figures include Clackamas, Clatsop, Columbia, and Marion counties. They are combined to avoid disclosure.

Manock, Eugene R., Grover A. Choate, and Donald R. Gedney, Oregon SOURCE: Timber Industries, 1968, Wood Consumption and Mill Characteristics, Oregon State Department of Forestry jointly with U.S. Forest Service, Salem, Oregon, 1968.

### Table 72. Installed 8-Hour Capacity of Wood-Using Industries, Clackamas County, 1968

Industry	Capacity	
Sawmil1-lumber 1/	1,307	· · · · · ·
Veneer and plywood 2/	215	
Veneer and plywood 2/ Pulp and board mills 3/	1,185	

1/ Scribner log rule, board feet.

 $\overline{2}$ / Square feet, 3/8 inch basis, veneer only.

 $\overline{3}$ / 24 hour capacity in tons.

SOURCE:Manock, Eugene R., Grover A. Choate, and Donald R. Gedney, OregonTimber Industries, 1968, Wood Consumption and Mill Characteristics,<br/>Oregon State Department of Forestry jointly with U.S. Forest Service,<br/>Salem, Oregon, 1968.

#### Manufacturing

Table 73. Value Added by Major Manufacturing Industries, Clackamas County, 1967

Item	Value Added	Percent of Total
	Millions of <b>D</b> olla	rs
All manufacturing	\$109.9	100.00
Lumber and wood products	17.1	15.55
Logging camps and contractors	6.2	5.64
Sawmills and planing mills	8.3	7.55
Paper and allied products	42.8	38.94
Fabricated metal products	5.9	5.36
Machinery, except electrical. Electrical equipment &	17.7	16.10
supplies	2.7	2.45

SOURCE: U.S. Bureau of the Census, Census of Manufactures, 1967, Area Statistics, Oregon, MC67(3)-38, U.S. Government Printing Office, Washington, D.C., 1970.

Table 74. Manufacturing, Other than Lumber and Wood Products; Food and Kindred Products; and Mineral, Metal, and Related Products Manufacturing, Clackamas County, 1968 and 1970

	Number	of Firms	Emplo	oyment
Product Group	1968	1970	1968	1970
Appare1 and other finished products		e de la composición d Composición de la composición de la comp		
made from fabrics	8	4	613	273
Furniture and fixtures	3	2	36	3
Paper and allied products Printing, publishing and allied	5	1	2,184	630
industries	10	12	79	95

Kindred Products; and Mineral, Clackamas	County, 1968 a			
Due la trata Consum	Number	of Firms	Emp1o	yment
Product Group	1968	1 <b>9</b> 70	1968	1970

Table 74, cont. Manufacturing, Other than Lumber and Wood Products; Food and

	1968	1 <b>9</b> 70	1968	1970	
Chemicals and allied products	7	5	31	12	
Petroleum refining and related	1	2		<b>--</b>	
products	1	2	50	55	
Rubber and misc. plastics products	5	3	30 1/	56	
Leather and leather products	2	2	7	7	
Machinery, except electrical	22	19	271 1/	225	
Electrical machinery and supplies.	5	9	489	165	
Transportation equipment	9	15	129	378	
Professional, scientific, and					
controlling instruments	3	5	12	52	
Miscellaneous manufacturing					
industries	4	8	147	334	

1/ One or more firms did not report number of employees.

SOURCE: Oregon State Department of Commerce, Economic Development Division, Directory of Oregon Manufacturers, 1968.

Oregon State Executive Department, Economic Development Division, Directory of Oregon Manufacturers, 1970.

#### Mining

Cement, sand and gravel, and stone and clays are the major mineral of economic importance to the county. The production of these depends largely on construction activities in the county and also in adjacent Multnomah County.

Table 75. Value of Mineral Production, Clackamas County

Year	Value	Minerals Produced in Order of Value
1963	\$7,488,000	Cement, sand & gravel, stone, clays
1965	9,024,000	Cement, sand & gravel, stone, clays
1967	7,574,000	Cement, sand & gravel, stone, clays
1970	11,433,000	Cement, sand & gravel, stone, clays

SOURCE: U.S. Bureau of Mines, Minerals Yearbook, Bureau of Economic Research, Oregon Economic Statistics, various years, University of Oregon.

Table 76. Mineral, Metal and Related Manufacturing, Clackamas County,

Product Group		of Firms	Emp1oy	the second s
	1968	1970	1968	1970
Cut stone and stone products lass products made of purchased	1		<u>1</u> /	-
glass	22	2	2	2
ement, hydraulic	1	1	145	145
Brick and structural clay tile	2	1	25	5
Concrete block and brick	2	2	1 1/	2
Concrete products, exc. block and				
brick	3	2	57	4
leady mixed concrete	4	4	38	38
linerals and earths, ground or				
treated	2	2	30	26
steel pipe and tubes	· _	1	-	30
teel foundries	-	1	-	2
luminum castings	-	2	-	. 7
rimary metal industries, not else-				
where classified	· -	1	-	15
land and edge tools, except				
machine tools	1	1	160	210
leating equipment, exc. electrical	1	1	108	108
Sheet metal work	1	2	1/	12
crew machine products	2	2	76	86
fetal stampings	1	1	3	4
Coating, engraving, allied services.	2	1	24	20
abricated wire products	1	3	8	26
abricated metal products, not		-		
elsewhere classified		1		12
Pottery products not elsewhere		. –		
classified	1	-	16	-
Gray iron foundries	1	· · -	1/	-
and saws and saw blades	1	· _		1,400
abricated structural steel	1	_ ·	50	_,

 1/ One or more firms did not report number of employees.
 SOURCE: Oregon State Department of Commerce, Economic Development Division, Directory of Oregon Manufacturers, 1968
 Oregon State Executive Department, Economic Development Divison, Directory of Oregon Manufacturers, 1970.

#### Outdoor Recreation

Outdoor recreation demands are on the increase. Recently increased urbanization has caused more people to seek the out-of-doors to "get away from it all" through sightseeing, winter sports, picnicking, and related activities. Better and faster transportation, higher family incomes, and increased leisure time have enabled people to spend more time and money on recreation and to travel farther for recreation.

The county's forested areas have many attractions that make them desireable for recreation. Mount Hood is the major attraction and receives year-round attention from sightseers, hikers, and skiers. The Willamette River, other major streams, and lakes are used for a variety of recreational activities such as boating, swimming, fishing, and water skiing, but pollution has tended to limit the attractiveness of the Willamette. Timothy Lake, developed as a regulating reservoir for Portland General Electric Company's downstream hydroelectric projects, has become a heavily used recreational area. Recreation use of the Clackamas R. by trout fishermen has continued to increase.

Ownership and Name	Facilities and Activities <u>1</u> /
State Parks	
McIver	TC, TS, PS, St, BH, PA, DS, F, S, V, Sw
Wildcat Creek	PS, F, S
County Parks	
Barton	TC, TS, PS, St, GP, PA, F, S, V, Sw
Eagle Fern	TC, TS, PS, St, GP, PA, T, F, S, N, Sw
Metzler	TC, TS, PS, St, GP, PA, F, S, Sw
Feyrer	TC, TS, PS, St, GP, PA, F, S, N, Sw
Bureau of Land Mgt. Parks	
North Fork-Eagle Creek	TC, TS, St, T, F, S PS + CP + T + PF + S + N
Wildwood	PS, St, GP, T, UB, F, S, N
U.S. Forest Service Parks	
Lower Clackamas River	TC, TS, PS, St, F, S, V, Sw
Middle Clackamas River	TC, TS, St, F, S
Collawash River	TC, TS, St, T, F, S, V
McNeil	TC, TS, PS, St,T, V,F, S
Timberline Lodge	C, T, V
Tollgate-Camp Creek	TC, TS, PS, St, GP, F, S
Twin Bridges	TC, TS, PS, St, T, F, S
Green Canyon	TC, TS, PS, T, F, S, V, Sw
Timberline Road	TC, TS, PS, St, T, V
Salmon River	TC, T <b>S</b> , PS, St, F, S
Still Creek	TC, TS, PS, St, F, S,
Trillium Lake	TC, TS, PS, St, BR, F, L, V
Power or Timber Co. Parks	
Promontory	TC, TS, PS, St, R, BD, C, GP, PA,
	T, F, L, S, N, V
Austin Hot Springs	TC, TS, PS, St, F, S, Sw
Power or Timber Co. & U.S.	
Forest Service	
Timothy Lake	TC, TS, BR, T, F, L, V, Sw
<pre>1/ Activities code:</pre>	
1 0	- boathouse PA - play area L,S - lake, stream
	- boat deck T - trails N - nature study
	- concession F - fishing V - scenic view
	- group picnic G - geology Sw - swimming
	- group camp H - history W - water falls
electric	
	ivision, Travel Information Section, <u>1972 Oregon</u>
Parks.	

Table 77. Clackamas County Park and Recreation Facilities, 1972

Park and Use		Atte	endance	
Park and Use	1968-69	1969-70	1970-71	1971-72
Milo McIver Day attendance Overnight camping	86,852	94,844 -	226,586	221,3 <b>99</b> 2,079

SOURCE: Oregon State Department of Transportation, State Highway Division, "Day Visitor Attendance" and "Overnight Camping by the Public," State Parks and Recreation Section, 1972.

Hunting is also a major recreational activity in the county. Not only do county residents make use of this opportunity, but also many people travel to the county to hunt.

	Hunt	ers	Harv	rest	Dave
Game	Number	Percent of State Total	Number	Percent of State Total	Days Hunted
Ducks	660	1.18	3,860	.67	4,610
Geese	110	. 39	40	.06	510
Pheasants	3,607	5.00	9,470	3.89	17,403
Quai1 Blue & ruffed	1,256	4.80	8,897	5.61	6,986
grouse Silver-gray	341	4.41	567	3.37	882
squirre1 Band-tai1ed	26	.57	85	. 39	112
pigeon	647	5.21	4,504	3.72	2,361
Mourning dove	561	3.43	6,357	3.23	2,762
Deer 1/	8,110	2.90	1,670	1.90	NA
E1k <u>1</u> 7	150	. 65	19	.70	570

Table 79. Clackamas County Game Harvest

NA - not available.

1/ Figures are for Santiam Game Management Unit, not Clackamas County. The county is not completely contained with the unit, nor does the unit cover the entire county area.

SOURCE: Oregon State Game Commission, "1966 Upland Game Questionnaire,", 1967; "Water Fow1 Estimates, 1969-70 Season," 1970; Oregon State Game Commission Bulletin, May, 1972.

#### Business

Because of the increasing urbanization of the county and the rapidly growing population, businesses are becoming increasingly important to the economic life of Clackamas County. The following tables give information on retail and wholesale trade and also on selected services within the county in 1967.

Kind of Business	Number Establish- ments	Number Paid <u>1</u> / Employees	Sales (\$1,000)
Retail trade, total	1,052	4,469	\$167,131
Lumber, building materials, hardware, farm equip. dealers			
Total Lumber and building materials	70	176	8,611
dealers	43	118	6,478
Hardware stores	16	34	1,042
Farm equipment dealers	11	24	1,091
General merchandise group stores			
Total	30	277	8,832
Department stores	2	2/	2/
Variety stores	12	$\overline{2}/$	1,644
Misc. general merchandise stores.	16	83	2/
Food stores			
Total	142	791	47,526
Grocery stores	111	750	45,696
Meat markets	15	18	1,224
Fruit stores, vegetable markets	1		2/
Candy, nut, confectionery stores.	3	$\frac{\frac{2}{2}}{\frac{2}{2}}$	$19\frac{-7}{4}$
Retail bakeries	9	$\frac{-1}{2}$	282
Other food stores	3		202
Automotive dealers			<u>/</u>
Total	86	796	46,265
Motor vehicle dealers	34	586	33,905
Tire, battery, and accessory	54	500	55,505
dealers	23	74	2,060
Misc. automotive dealers	29	136	10,300
Gasoline service stations	23	150	10,500
Total	131	405	13,947
Apparel, accessory stores	151	405	13,547
	43	106	3,383
Total Ready-to-wear stores	43 15		1,129
Women's accessory and specialty	15	<u>2/</u>	1,129
	4	2/	21
Other apparel, accessory stores	24	57	$\frac{2}{2}$
Furniture, home furnishing, equipment	24	55	<u> </u>
stores			
Total	49	116	4,656
Furniture stores	49 17	76	2,640
Household appliances	14	20	
	8	and the second	1,174
Radio, TV, music stores	10	8 12	401 441
Home furnishing stores	IU	12	441
Eating, drinking places	100	1 077	11 100
Total	189	1,237	11,482
Eating places	120	972	8,505
Drinking places (alcoholic bev.).	69	265	2,977
Drug stores, proprietary stores	20	105	E 000
Total	28	195	5,900
Drug, proprietary stores	3/		

Table 80.	Retail	Trade,	Clackamas	County,	1967
-----------	--------	--------	-----------	---------	------

Kind of Business	Number Establish- ments	Number Paid <u>1</u> / Employees	Sales (\$1,000)
other retail stores	· · · · · · · · · · · · · · · · · · ·	· · · ·	• <b>•••••••••••••••••••••••</b> ••••••••••••
Tota1	195	2/	14,033
Liquor stores	16	$\frac{\frac{2}{2}}{\frac{2}{20}}$	4,389
Antique, secondhand stores	22	$2\overline{0}$	645
Cigar stores and stands	5		58
Sporting goods stores	18	27	1,037
Florists	15	14	647
Jewelry stores	14	14	537
Fuel, ice dealers	8	2/	788
Other stores	97	168	5,932
Tota1	89	2/	2,496
Mail order houses	5	$\frac{2}{2}$	2,
Merchandising machine operator	10	_ <del>_</del>	166
Direct selling establishments.	74	2/	2,

#### Table 80, cont. Retail Trade, Clackamas County

1/ Excludes active proprietors of unincorporated business.

 $\overline{2}$ / Withheld to avoid disclosure.

 $\overline{3}$ / Data not provided because establishments with no payroll are classified only at the next broader kind of business level.

SOURCE: U.S. Bureau of the Census, Census of Business, 1967, <u>Retail Trade</u>, <u>Oregon</u>, BC67-RA39, U.S. Government Printing Office, Washington, D.C., <u>1969</u>.

Table 81. Wholesale Trade, Clackamas County, 1967

Kind of Business	Number Establish- ments	Number Paid <u>1</u> / Employees	Sales (\$1,000)
Wholesale trade, total	155	1,826	\$280,942
Motor vehicles and automotive equip Drugs, chemicals & allied products Piece goods, notions & apparel Groceries and related products Farm products - raw materials Electrical goods Hardware, plumbing, heating equip Machinery, equipment and supplies Metals and minerals, not elsewhere classified Petroleum and petroleum products Scrap and waste materials Beer, wine & distilled alcoholic bev. Paper and its products	17 2 3 25 2 4 3 25 3 18 5 5 5 2	$     \begin{array}{r}       180 \\       \frac{2}{2} \\       949 \\       \frac{2}{2} \\       \frac{2}{2} \\       \frac{2}{2} \\       223 \\       \frac{2}{57} \\       7 \\       26 \\       2/ \\       2/   \end{array} $	$     \begin{array}{r}       19,519 \\       \frac{2}{2} \\       161,295 \\       \frac{2}{2} \\       \frac{2}{2} \\       29,556 \\       \frac{2}{6},516 \\       141 \\       2,538 \\       2 \\       2/   \end{array} $
Furniture and home furnishings Lumber and construction materials Other kinds of wholesale business	3 14 24	2/ 98 118	<u>2/</u> 34,107 14,026

1/ Excludes active proprietors of unincorporated businesses.

 $\overline{2}$ / Withheld to avoid disclosure.

SOURCE: U.S. Bureau of the Census, Census of Business, 1967 Wholesale Trade: Oregon, BC67-WA 39, U.S. Government Printing Office, Washington, D.C., 1969

### Table 82. Selected Services, Clackamas County, 1967

Kind of Business	Number Establish- ments	Receipts (\$1,000)	Number Paid <u>1/</u> Employee
Selected services, total	772	\$21,435	1,235
Hotels, motels, tourist courts,			-
camps, total	58	2,353	253
Hotels	6	2/	2/
Motels, motor hotels, tourist			<u> </u>
centers	27	422	16
Trailer parks, camps	21	369	10
Personal services, total	262	4,724	373
Laundries, laundry service, etc	51	1,650	148
Beauty shops	87	1,336	152
Barber shops	63	626	33
Photographic studios	20	219	
Shoe repair, shine, hot cleaning.	12	108	$\overline{2}/$
Funeral service, crematories	6	485	2/ 2/ 15
Other personal services	23	300	2/
Miscellaneous business services,			<u> </u>
tota1	146	6,870	186
Advertising	12	804	2/
Services to dwellings, buildings.	35	538	47
Business, management consulting,			
public relations	21	770	43
0ther	78	4,758	2/
Auto repair, services, garages,		••	<u> </u>
total	87	2,126	118
Auto repair shops	76	1,744	63
Auto, truck renting, services	11	382	55
Misc. repair services, total	126	1,827	43
Electrical repair shops	29	541	
Reupholstery and furniture repair	15	122	$\frac{2}{2}$
Other repair and related services	82	1,164	28
Notion pictures, total	14	1,185	70
Motion picture theaters	11	2/	2/
Amusement, recreation services,	- <b>-</b> .		<u> </u>
exc. motion pictures, total	79	2,350	192
Bands, orchestras, entertainers	23	149	
Bowling, billiards, pool	12	695	$\frac{2}{2}$
Other commercial recreations and			
amusements	44	1,506	2/

1/ Excludes active proprietors of unincorporated businesses.

 $\overline{2}$ / Withheld to avoid disclosure.

SOURCE: U.S. Bureau of the Census, Census of Business, 1967, <u>Selected Services</u>, <u>Oregon</u>, BC67-SA39, U.S. Government Printing Office, Washington, D.C., 1969.

#### PUBLIC SERVICES

#### Transportation

Clackamas County has excellent transportation service. Tri-met bus lines from Portland make stops in many areas of the county along with the long distance bus line. The county is adequately served by truck lines and air travel is available through Portland International Airport.

	Table 83.	Miles	of	Roadway	in	Clackamas	County.	1972
--	-----------	-------	----	---------	----	-----------	---------	------

1,235 258 1,581 247	
3,321	
_	

1/ Public usage roads are roads under county jurisdiction but generally privately maintained.

SOURCE: Transportation Research Institute, Oregon State University, <u>Functional Classification of Public Roads and Streets in</u> Oregon, 1970.

Table 84. Motor Vehicle Registration, Clackamas County, 1970 and 1971

	Number of Vehicles			
Vehicle	1970	1971		
Passenger vehicles	89,705	111,508		
Buses	33	30		
Trucks	4,670	5,186		
All trailers	7,548	3,743		
Motorcycles	4,550	6,148		
Recreational 1/	6,912	9,593		
Snowmobiles	NA	178		

NA - not available.

1/ Includes campers and travel trailers.

SOURCES: Oregon State Department of Transportation, Motor Vehicles Division, 1970 figures taken from Bureau of Business and Economic Research, Oregon Economic Statistics, 1972, University of Oregon; 1971 figures from unpublished data received from the State Motor Vehicles Division.

Subject	Number	
Aircraft	140	- <u></u>
Boats	6,138	

SOURCE: Oregon State Executive Department, Program Planning Division, District Facts, 1970.

#### Communication

Although there are no television stations located in the county, and only one radio station, the county is well served by the 25 radio stations and five television stations located in Multnomah County.

Type Service	Location	Network Affiliation
Radio		
<u> </u>	Oregon City	-
		Days Published
Newspapers		
Herald	Canby	Thursday
Clackamas County News	Estacada	Thursday
Review	Milwaukie	Wednesday
Review	Lake Oswego	Thursday
Pioneer	Molalla	Thursday
Enterprise-Courier	Oregon City	Daily exc. Sat
		and Sun.
Post	Sandy	Thursday
Telephone		
Beaver Cr. Coop. Telephone Co.	Beaver Creek	
Canby Telephone Association	Canby-Needy	
Cascade Utilities, Inc	Estacada, Ripplebrook,	
	Wapinitia Meadows	
Clear Cr. Mutual Telephone Co.	Redland	
Colton Telephone Company	Colton	
General Telephone of the		
Northwest	Sandy	
Mollala Telephone Company	Molalla	
Pacific Northwest Bell	Portland, Oregon City	
Continental Telco	Hood-land, Sunnyside	
SOURCES: Oregon Association of Broado	casters, Directory of Radio a	and Tele-
vision Stations for the Stat		
	rtment, Clay Myers, Secretary	of State,
Oregon Blue Book, 1973-74, J		
Pacific Northwest Bell, unpu		

Table 86. Communication Facilities, Clackamas County

Table 87. Residential Communication Facilities, Clackamas County, 1960 and 1970

	Number of Housing Units				
Facilities	1960	1970			
Battery radio sets					
Yes	32,567	41,167			
No	1,948	10,510			
Telephone available					
Yes	29,958	47,922			
No	4,557	3,755			
Television sets					
None	4,066	2,474			
One	27,081	32,648			
Two or more	3,368	16,555			
UHF equipped					
Yes	NA	17,633			
No	NA	31,570			

NA - not available.

SOURCE: U.S. Bureau of the Census, Census of Housing: <u>1960</u> and <u>1970</u> <u>Detailed</u> <u>Housing Characteristics</u>, Final Report HC(1)-B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

Library Facilities

Table 88. Clackamas County Libraries, by City of Location, 1969-70

City	Volumes	Circu- 1ation	Circ./ Capita	H <b>rs.</b> Open Per Week	Operating Expend.	Expend./ Capita
Oregon City,				· · · · · · · · · · · · · · · · · · ·		
Headquarters	57,630	3,707	NA	51	\$135,035	NA
Canby 1/	5,222	17,641	5.0	23	4,190	\$1.18
Clackamas 1/	8,348	8,660	NA	11	1,384	NA
Estacada 17	4,733	13,389	11.3	28	4,334	3.67
Gladstone 1/	12,349	61,393	10.5	53	21,978	3.76
Lake Oswego 1/	26,958	181,855	12.7	52	67,746	4.73
Milwaukie 1/	31,043	197,365	12.0	62	86,675	5.29
Molalla 1/	5,805	23,445	13.0	39	6,433	3.57
Oregon City 1/	36,130	73,654	8.3	58	57,473	6.49
Sandy 1/	5,207	21,119	14.4	28	5,360	3.65
West Linn 1/	9,280	18,406	2.7	20-26	10,619	1.55
Extension Service.	<u> </u>	14,811	NA	NA	-	-

1/ City Library.

SOURCE: Oregon State Library, <u>Directory of Oregon Libraries</u>, Annual Statistics for the Year ending June 30, 1970.

NA - not available.

	Clackam	State		
Subject	Number	Percent 1/	Percent 1	
Water source				
Public system or private company.	40,636	75.77	79.8	
Individual well	11,391	21.24	16.9	
Other or none	1,579	2.94	3.3	
Sewage disposal				
Public sewer	24,988	46.59	61.0	
Septic tank or cesspool	27,702	51.65	37.5	
Other or none	916	1.70	1.5	

Table 89. Housing Units by Water Supply and Sewage Disposal, Clackamas County, 1970

1/ Percent of all year-round housing.

SOURCE: U.S. Bureau of the Census, Census of Housing: <u>1970 Detailed Housing</u> <u>Characteristics</u>, Final Report HC(1)b39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

Table 90. Housing Units by Water Supply and Sewage Disposal for Places with Over 2,500 Inhabitants, Clackamas County, 1970

	Milv	Milwaukie		tone	Oregon City	
Subject	Number	Percent	Number	Percent	Number	Percent
Water source Public system or						
private company	5,463	99.58	2,186	99.86	3,202	99.31
Individual well	13	.23	-		21	.65
Other	7	. 12	3	.14		
Sewage disposal						
Public sewer Septic tank or	4,024	73.35	2,001	91.41	2,834	88.50
cesspool	1,452	26.46	185	8.45	389	12.06
Other or none	. 7	. 12	_		- <u>-</u>	

SOURCE: U.S. Bureau of the Census, Census of Housing, <u>1970 Detailed Housing</u> Characteristics, Final Report HC (1)-B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

Type of Fuel	Home Ho Fue		Water Fu	Heating el	Cook	0
	1960	1970	1960	1970	1960	1970
Utility gas Fuel oil, kerosene, etc.	4,069 20,947	11,860 20,487	2,383 604	<b>4,</b> 676 727	2,367 37	2,757 77
Coal or coke	243 NA	22 1,657	– NA	- 166	- NA	- 426
Electricity Bottled, tank, or LP gas	4,143 498	16,648 762	29,583 349	45,119 491	29,791 950	47,151 1,181
Other fuel	4,615	181 60	511 1,084	29 469	1,310 60	18 67
All housing units	34,515	53,717	34,515	53,717	34,515	53,717

Table 91. Types of Fuels for Heating, Cooking, Number of Housing Units, Clackamas County, 1960 and 1970

NA - not available.

SOURCE: U.S. Bureau of the Census, Census of Housing: <u>1960</u> and <u>1970</u> <u>Detailed</u> <u>Housing Characteristics</u>, Final Report, HC(1)-B39, Oregon, U.S. <u>Government Printing Office</u>, Washington, D.C., 1972.

Table 92.	Electrical	Power	Generating	P1ants	in	Clackamas	County
-----------	------------	-------	------------	--------	----	-----------	--------

Ownership	River	Type <u>1</u> /	Kilowatts Existing
Portland General Electric		· · · · · · · · · · · · · · · · · · ·	
Bull Run	Bull Run	Н	21,000
Faraday	Clackamas	Н	34,450
Little Sandy River Diversion	Little Sandy	Н	-
North Fork	Clackamas	Н	38,400
Oak Grove	Oak Grove Fk.	Н	51,000
River Mi11	Clackamas	Н	19,050
Sandy River Diversion	Sandy	Н	<u> </u>
1/ Types Code: H - hydroelectr SOURCE: U.S. Department of the		Branch of	Power Resources,

Electric Power Plants in the Pacific Northwest and Adjacent Areas, December 31, 1969.

#### PUBLIC FINANCE

	Clackan	as County	State
	Total	Per Capita	Per Capita
Item	Amount	Amount	Amount
	\$1,000	do1	1ars
General revenue, exc. interlocal	\$37,731	\$258.26	\$308
Intergovernmental revenue	13,225	90.52	97
From state government	11,895	81.42	83
From local sources	24,506	167.73	210
Taxes	20,351	139.30	156
Property	19,902	136.22	151
0ther	449	3.07	5
Charges and miscellaneous	4,155	28.44	54
Direct general expenditure	38,992	266.89	316
Capital outlay	6,459	44.21	62
0ther	32,533	222.68	254
Education	27,434	187.78	180
Other than capital outlay	22,257	152.34	152
Highways	2,894	19.81	30
Other than capital outlay	2,281	15.61	20
Public welfare	42	. 29	2
Hospitals	-		6
Other than capital outlay		-	-
Health	287	1.96	4
Police protection	1,031	7.06	12
Fire protection	1,212	8.30	9
Sewerage	545	3.73	8
Other than capital outlay	466	3.19	3
Sanitation other than sewerage	36	.24	2
Parks and recreation	391	2.68	10
Natural resources	212	1.45	4
Housing and urban renewa1	164	1.12	4
Correction	265	1.81	2
Libraries	283	1.94	3
Financial administration	732	5.01	5
General control	1,028	7.04	8
General public buildings	239	1.63	3
Interest on general debt	1,047	7.16	6
Other and unallocable	1,151	7.88	21
Water supply revenue	1,946	13.32	12
Water supply expenditure	2,400	16.43	13
General debt outstanding	31,489	215,53	214
Long-term	31,172	213.36	203
Local schools	23,508	160.90	101
Other	7,664	52.46	101
	/ <b>, 0</b> 0 <del>-</del>	52.70	TOT

### Table 93. Selected Items of Local Government Finances, Clackamas County, 1966-67

SOURCE: U.S. Bureau of the Census, Census of Governments, 1967 Compendium of Government Finances, Vol. 4, No. 5, U.S. Government Printing Office, Washington, D.C., 1969.

Item	Milwaukie	Gladstone	Oregon City	West Linn
Population	17,145	6,487	9,600	7,150
True Cash Value (TCV)	\$174,265,640	\$43,187,540	\$105,503,600	\$67,071,790
Per Capita TCV	10,164	6,658	10,990	9,381
City tax	681,379	212,483	686,828	446,698
Consolidated tax	4,557,692	1,233,827	3,390,504	2,323,996
Per capita tax		-		
City	40	33	72	62
Consolidated	266	190	353	325
Percentage of total levy				
County	5.1	4.7	4.2	3.9
City	15.0	17.2	20.3	19.2
School	79.7	77.3	71.2	76.8
Other	.2	.8	4.3	.1
Average rate/1000\$TCV basis				
County	1.34	1.34	1.34	1.34
City	3.91	4.92	6.51	6.66
Schoo1	20.85	22.07	22.89	26.61
Other	.05	. 24	1.40	.04
Tota1	26.15	28.57	32.14	34.65

Table 94. City Valuation, Tax Rates and Taxes Extended in Clackamas County, for 1971-72 Fiscal Year

Item	Canby	Estacada	Happy Valley	Mol <b>a</b> lla		
Population	4,100	1,190	1,390	2,180		
True Cash Value (TCV)	\$28,854,700	\$5,983,350	\$14,461,910	\$12,528,500		
Per capita TCV	7,038	5,028	10,404	5,747		
City tax	129,558	43,020	-	108,998		
Consolidated tax	768,978	208,759	362,415	408,029		
Per capita tax						
City	32	36	-	50		
Consolidated	188	175	261	187		
Percentage of total levy						
County	5.0	3.8	5.3	4.1		
City	16.8	20.6	.0	26.7		
Schoo1	78.0	70.9	83.2	64.9		
Other	.2	4.6	11.5	4.2		
Average rate/1000\$TCV basis						
County	1.34	1.34	1.34	1.34		
City	4.49	7.19	.0	8.70		
Schoo1	20.78	24.74	20.85	21.15		
Other	.04	1.62	2.87	1.38		
Tota1	26.65	34.89	25.06	32.57		

Item	Sandy	Barlow	Johnson City	River Grove
Population	1,580	105	378	319
True Cash Value (TCV)	\$12,302,160	\$513,530	\$267 <b>,95</b> 0	\$1,993,130
Per capita TCV	7,786		709	6,248
City tax	135,570		<del>_</del> .	· · · · ·
Consolidated tax	403,388		7,302	56,355
Per capita tax	,	• •		
City	86	4	· · · · ·	-
Consolidated	255	114	19	177
Percentage of toal levy				
County	4.1	5.7	4.9	4.7
City	33.6	3.6	.0	.0
Schoo1	58.8	88.8	77.0	85.4
Other	3.5	1.9	18.0	9.8
Verage rate/1000\$TCV				
basis.				
County	1.34	1.34	1.34	1.34
City	11.02	.84	.0	.0
Schoo1	19.28	20.78	20.99	24.16
Other	1.15	.44	4.92	2.77
Tota1	32.79	23.40	27.25	28.27

Table 94, cont. City Valuation, Tax Rates and Taxes Extended in Clackamas County for 1971-72 Fiscal Year

Research and Special Services Division, 1972.

Table 95. Amount and Percent of Unpaid 1970-71 Property Tax, As of June 30, 1971, Clackamas County

Item	Total Amount	Amount Unpaid	Percent Unp <b>å</b> id
Property taxable	······································	· · · · · · · · · · · ·	
Rea1	\$32,981,190	<b>\$4,187,9</b> 22	12.7
Personal	3,213,129	600,893	18.7
Public utilities	3,475,559	125,541	3.6
Western Oregon addi- tional timber tax Yield tax	<sup>73,131</sup> 227,947	70,741	23.5
Other Total for collection.	64,235 40,035,191	NA	

NA - not available.

SOURCE: Oregon State Department of Revenue, Summary of Assessment and Tax Rolls for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property Tax Collections, Research and Special Services Division, 1972. Table 96. Summary of 1971-72 Property Tax Levies and Assessments, Clackamas County

Item	Amount in Dollars		
Levies			
County	\$2,165,328		
Cities	3,791,824		
Community colleges	2,600,799		
Elementary and Secondary School Districts			
Intermediate county	5,418,240		
Education joint	176,195		
Elementary and unified	21,351,982		
Union high	6,577,151		
County unit			
Total school districts	33,523,568		
Special districts			
Cemetery	9,654		
Fire protection	1,730,652		
Hospita1			
Park and recreation	25,256		
Port			
Road	140,320		
•	148,270		
Sanitary	343,272		
Water supply	224,914		
Other	2,622,338		
Total special districts	44,703,857		
Total gross ad valorem levies	44,703,657		
Special assessments Fire patro1	65 771		
	65,731		
Forest fee	4,825		
Diking and drainage			
Irrigation	-		
Lighting	29,636		
Other	-		
Total special assessments	100,192		
Total gross levies and assessments	44,804,049		
Less property relief money	010 105		
Senior citizens	218,487		
Game commission	· · · · · · · · · · · · · · · · · · ·		
Total net ad valorem levies	44,485,370		
Net Ad Valorem Taxes by Class			
Real property	37,503,249		
Personal property	3,1 <b>13</b> ,701		
Utility property	3,868,421		

SOURCE: Oregon State Department of Revenue, Summary of Assessment and Tax Rolls for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property Tax Collections, Research and Special Services Division, 1972.

Item	Assessed Value	Percent of Total
	\$1,000	
lass		
eal property		
	\$171,861	10.38
Lands inside corporate limits		24.03
Lands outside corporate limits	397,743	24.03
Improvements inside corporate limits	412,358	25.49
Improvements outside corporate limits	421,909	
Timber (excludes land)	14,477	.87
Less veterans exemptions	12,805	.77
Less senior citizens residence exemptions.	6,634	.40
axable real property	1,398,910	84.54
ersonal property		
Merchandise and stock in trade	62,182	3.75
Furniture, fixtures and equipment	24,783	1.49
Farm machinery and equipment	5,642	. 34
Other machinery and equipment	13,138	.79
Livestock	4,407	. 26
Miscellaneous	3,964	.23
Less veterans exemptions	162	1/
Less senior citizens residence exemptions.	148	$\overline{1}/$
axable personal property	113,806	6.87
otal taxable real and personal property	1,512,716	91.41
tilities		
Air1ine companies	4	1/
Electric companies	91,623	$\frac{1}{5.53}$
Express companies	_	<b>_</b> _
Gas companies	14,877	. 89
Heating companies	_	-
Pipeline companies	185	.01
Railroad companies	4,197	. 25
Tank and private car companies	509	.03
Telegraph companies	14	1/
Telephone companies	28,877	$1.7\overline{4}^{-\prime}$
Water companies	357	.02
Water transportation companies	1,370	.07
axable utility property	142,012	8.58
otal taxable real, personal and utility		
property	\$1,654,728	100.00
	· · · · · · · · · · · · · · · · · · ·	100.00
/ Less than .01 percent.		•
OURCE: Oregon State Department of Revenue, S		
Rolls for the 1971-72 Fiscal Year and	1 1969-70 and 197	0-71 Property

### Table 97. Summary of Assessment Rolls for 1971-72 Fiscal Year Real Property, Personal Property and Utilities, Clackamas County

The following list gives names and addresses of agencies that have served as data sources for this publication and may provide further or more current data on subjects of interest.

In addition, a number of local and county offices are available to offer local information and assistance, including:

Agriculture Stabilization and Conservation Assessor City Library Corrections and Parole County Engineer County Extension County Surveyor Employment Division Game Commission Health Department Public Welfare Soil Conservation Service

- Bureau of Business and Economic Research, Univerity of Oregon, Eugene, Oregon 97403
- 2. Center for Population Research and Census, Portland State University, 724 S.W. Harrison, Portland, Oregon 97201
- 3. Children Services Division, Oregon State Department of Human Resources, Public Services Building, Salem, Oregon 97310
- Department of Environmental Quality, 1234 S.W. Morrison, Portland, Oregon 97204
- 5. Economic Research Service, U.S.D.A. Extension Hall, Oregon State University, Corvallis, Oregon 97331
- 6. Extension Service, Oregon State University, Corvallis, Oregon 97331
- 7. Fish Commission of Oregon, 1400 S.W. 5th St., Portland, Oregon 97201
- 8. 4-H Youth Office, Extension Hall, Oregon State University, Corvallis, Oregon 97331
- 9. Forest Service, U.S.D.A., 319 S.W. Pine St., Portland, Oregon 97204
- Governor's Office, Economic Development Special Projects, State Capitol Building, Salem, Oregon 97310

- 11. Local Government Relations Division, Oregon Executive Department, 240 Cottage S.E., Salem, Oregon 97310
- 12. Oregon Association of Broadcasters, Allen Hall, University of Oregon, Eugene, Oregon 97403
- 13. Oregon Board of Higher Education, School Finance and Statistical Services, 942 Lancaster Dr. N.E., Salem, Oregon 97310
- 14. Oregon Department of Geology and Mineral Industries, 1400 S.W. 5th St., Portland, Oregon 97201
- Oregon Educational Coordinating Council, 4263 Commercial S.E., Salem, Oregon 97310
- Oregon State Department of Revenue, State Office Building, Salem, Oregon 97310
- Oregon State Employment Division, Community Manpower, Research and Statistics, or Rural Manpower sections, Labor and Industries Building, Salem, Oregon 97310
- 18. Oregon State Game Commission, 1634 Alder, Portland, Oregon 97214
- Oregon State Health Division, Department of Human Resources, 1400 S.W. 5th, Portland, Oregon 97201
- 20. Oregon State Highway Division, State Parks and Recreation Section, 8009 E. Burnside, Portland, Oregon 97215
- 21. Oregon State Lands Division, 502 Winter N.E., Salem, Oregon 97310
- 22. Oregon State Library, State Library Building, Salem, Oregon 97310
- 23. Oregon State Public Welfare Division, Department of Human Resources, Public Services Building, Salem, Oregon 97310
- 24. Pacific Northwest Forest and Range Experiment Station, U.S. Forest Service, 809 N.E. 6th St., Portland, Oregon 97232
- 25. Secretary of State's Office, State Capitol Building, Salem, Oregon 97310
- 26. Soil Conservation Service, U.S.D.A., 1218 S.W. Washington, Portland, Oregon 97205
- 27. State Water Resources Board, 1158 Chemeketa N.E., Salem, Oregon 97310
- 28. U.S. Department of Commerce, 921 S.W. Washington, Portland, Oregon 97204 (for copies of U.S. Census publications)

- 1. Bureau of Business and Economic Research, <u>Oregon Economic Statistics</u> <u>1972</u>, University of Oregon, 1972.
- 2. Carolan, W.B. Jr., Federal Land Oregon, Oregon State University, 1963.
- 3. Coppedge, Robert O., <u>Agriculture in Oregon Counties Farm Sales and</u> <u>General Characteristics</u>, Special Report 330, Oregon State University Extension Service, Corvallis, Oregon, 1971.
- Center for Population Research and Census, <u>Population Estimates of</u> <u>Counties and Incorporated Cities of Oregon</u>, Portland State University, July 1972.
- 5. Legislative Fiscal Committee, <u>Inventory of State-Owned Real Property</u>, By County, Sec. 7, 115 State Capital, Salem, Oregon, 1970.
- Manock, Eugene R., Grover A. Choate, Donald R. Gedney, <u>Oregon Timber</u> <u>Industries, 1968, Wood Consumption and Mill Characteristics</u>, Oregon State Department of Forestry jointly with U.S. Forest Service, Salem, Oregon, 1968.
- 7. Nielsen, Alice M., Editor, <u>Directory of Oregon Libraries</u>, annual statistics for the year ending June 30, 1970, Oregon State Library, Salem, Oregon.
- 8. Office of the Governor, Planning Division, Health Facts, 1969.
- 9. Oregon Association of Broadcasters, <u>Directory of Radio and Television</u> Stations for the State of Oregon, 1972.
- 10. Oregon Board of Higher Education, <u>1969 School Directory</u> and <u>1971-72 Oregon</u> School-Community College Directory, School Finance and Statistical Services.
- 11. Oregon Conservation Needs Committee, <u>Oregon Soil and Water Conservation</u> <u>Needs Inventory</u>, U.S.D.A. Soil Conservation Service and Oregon State University Extension Service, 1971.
- 12. Oregon Department of Planning and Development, <u>Resources for Development</u>, 1964.
- 13. Oregon Educational Coordinating Council, <u>Post Secondary Enrollment in</u> Oregon, An Analysis of the Statewide Student Enrollment Data Survey, 1972.
- 14. Oregon State Board of Census, <u>Components of Population Growth</u>, Population Bulletin P-3, 1961.
- 15. Oregon State Board of Health, <u>Oregon Plan for Construction and Moderni-</u> zation of Hospitals, Public Health Centers and Medical Facilities, 1971 Annual Revision, Health Facility Planning and Construction Section, 1971.

- 16. Oregon State Department of Employment, 1965 Oregon Farm Labor Report, 1966.
- 17. Oregon State Department of Environmental Quality, <u>Water Quality Control</u> In Oregon, Oregon Sanitary Authority, 1970.
- 18. Oregon State Department of Human Resources, Children Services Division, <u>Adolescent Population and Commitment Data by County, by Calendar Year</u> <u>1967-1970.</u>
- Oregon State Department of Human Resources, Employment Division, <u>Labor</u> Force and Employment in Oregon by County 1968 through 1971 publications, Research and Statistics Section, 1969, 1972.
- 20. Oregon State Department of Human Resources, Employment Division, <u>1971</u> Annual Rural Manpower Report, 1972.
- 21. Oregon State Department of Human Resources, Employment Division, <u>Oregon</u> <u>Covered Employment and Payrolls, 1970</u> and <u>1971</u>, Summary Data, Research and Statistics Section, 1971, 1972.
- 22. Oregon State Department of Human Resources, Oregon Public Welfare Division, Public Welfare in Oregon, various editions.
- 23. Oregon State Department of Human Resources, Oregon State Health Division, Implementation and Enforcement Plan for the Public Waters of the State of Oregon, Oregon Sanitary Authority, Portland, Oregon, 1967.
- 24. Oregon State Department of Human Resources, Oregon State Health Division, Vital Statistics Annual Report, Vital Statistics Section, 1971.
- 25. Oregon State Department of Revenue, First Biennial Report 1968-70.
- 26. Oregon State Department of Revenue, <u>Summary of Assessment and Tax Rolls</u> for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property Tax Collections, Research and Special Services Division, 1972.
- 27. Oregon State Department of Transportation, State Highway Division, "Day Visitor Attendance", State Parks and Recreation Section, 1972.
- 28. Oregon State Department of Transportation, State Highway Division, "Overnight Camping by the Public", State Parks and Recreation Section, 1972.
- 29. Oregon State Department of Transportation, State Highway Division, "The State Park Visitor in Oregon", State Parks and Recreation Division.
- 30. Oregon State Executive Department, Clay Meyers, Secretary of State, Oregon Blue Book, 1973-74, January 1973.
- Oregon State Executive Department, Economic Development Division, Directory of Oregon Manufacturers - 1970.

- 32. Oregon State Executive Department, Program Planning Division, <u>District</u> <u>Facts</u>, 1970.
- 33. Oregon State Fisheries Commission, 1968 and 1971 Annual Report.
- 34. Oregon State Game Commission, <u>1968</u> and <u>1971 Annual Report</u>, Oregon State Game Commission.
- 35. Oregon State Game Commission, "Oregon State Game Commission Bulletin", May 1972.
- 36. Oregon State Water Resources Board, River Basin Reports.
- 37. Simenson, G. H., E. G. Knox, H. W. Hill, and R. W. Mayko, General Soil Map Reports with Irrigable Areas, Oregon State University Agricultural Experiment Station with U.S.D.A. Soil Conservation Service in cooperation with Oregon State Water Resources Board.
- U.S. Bureau of the Census, <u>Census of Agriculture, 1969</u>, Vol. 1, <u>Area</u> <u>Reports</u>, Part 47, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., 1972.
- 39. U.S. Bureau of the Census, Census of Business, 1967 <u>Retail Trade: Oregon</u>, BC 67 - RA 39, U.S. Government Printing Office, Washington, D.C., 1969.
- U.S. Bureau of the Census, Census of Business, 1967 <u>Wholesale Trade:</u> <u>Oregon</u>, BC 67 - WA 39, U.S. Government Printing Office, Washington, D.C., 1969.
- U.S. Bureau of the Census, Census of Governments, 1967, Vol. 4, No. 5: <u>Compendium of Government Finances</u>, U.S. Government Printing Office, Washington, D.C., 1969.
- 42. U.S. Bureau of the Census, Census of Governments, 1967, Vol. 3, No. 2, <u>Compendium of Public Employment</u>, U.S. Government Printing Office, Washington, D.C., 1969.
- 43. U.S. Bureau of the Census, Census of Housing: <u>1970 Detailed Housing</u> <u>Characteristics</u>, Final Report HC(1) - B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.
- U.S. Bureau of the Census, Census of Manufacturers, 1967, <u>Area Services:</u> <u>Oregon</u>, MC 67(3) - 38, U.S. Government Printing Office, Washington, D.C., 1970.
- U.S. Bureau of the Census, Census of Population, <u>General Demographic</u> <u>Trends for Metropolitan Areas, 1960 to 1970</u>, Final Report PHC(2) - 39, U.S. Government Printing Office, Washington, D.C., 1971.
- 46. U.S. Bureau of the Census, Census of Population: <u>1970 General Population</u> <u>Characteristics</u>, Final Report PC(1) - B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1971.

- 75 -

- 47. U.S. Bureau of the Census, Census of Population: <u>1970 General Social</u> and Economic Characteristics, Final Report PC(1) - C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.
- 48. U.S.D.A. and Oregon State University Extension Service cooperating, "Oregon Commodity Data Sheets", Oregon State University, 1971-72.
- U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, <u>Climatological Data</u>, <u>Annual Summary 1971</u>, Vol. 77, No. 13, 1971.
- 50. U.S. Department of Commerce, Weather Bureau, <u>Decennial Census of U.S.</u> Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965.
- 51. U.S. Forest Service, Forest statistics publications for various Oregon regions, Resource Bulletins, Pacific Northwest Experiment Station.
- 52. U.S. Soil Conservation Service, Soil Survey Reports.
- 53. Valde, Gary R. and Robert O. Coppedge, <u>Income and Poverty Data for</u> <u>Racial Groups: A Compilation for Oregon Census County Divisions</u>, <u>Special Report 367</u>, Oregon State University Extension Service, Corvallis, Oregon, 1972.
- 54. Wall, Brian R., "1970 Timber Harvest", U.S.D.A. Forest Service Resource Bulltin PNW-38, U.S. Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon, 1971.



Extension Service, Oregon State University, Corvallis, Joseph R. Cox, director. This publication was produced and distributed in furtherance of the Acts of Congress of May 8 and June 30, 1914. Extension work is a cooperative program of Oregon State University, the U. S. Department of Agriculture, and Oregon counties.