Multnomah County, Oregon

RESOURCE ATLAS

- NATURAL
- HUMAN
- ECONOMIC
- PUBLIC

APRIL 1974

EXTENSION Community Development PROJECT

OREGON STATE UNIVERSITY

Multnomah County, Oregon

RESOURCE

ATLAS

HUMAN ECONOMIC PUBLIC

NATURAL

April 1974

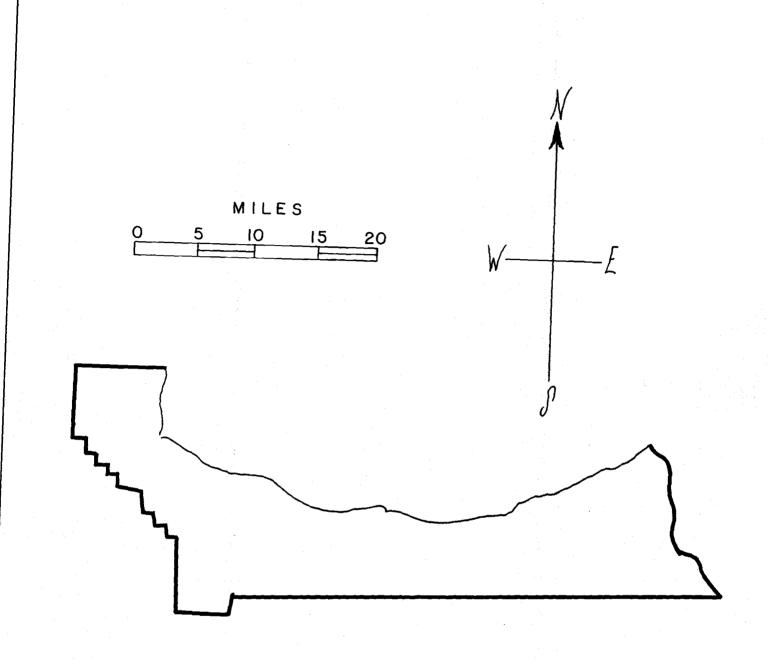
Oregon State University Extension Service

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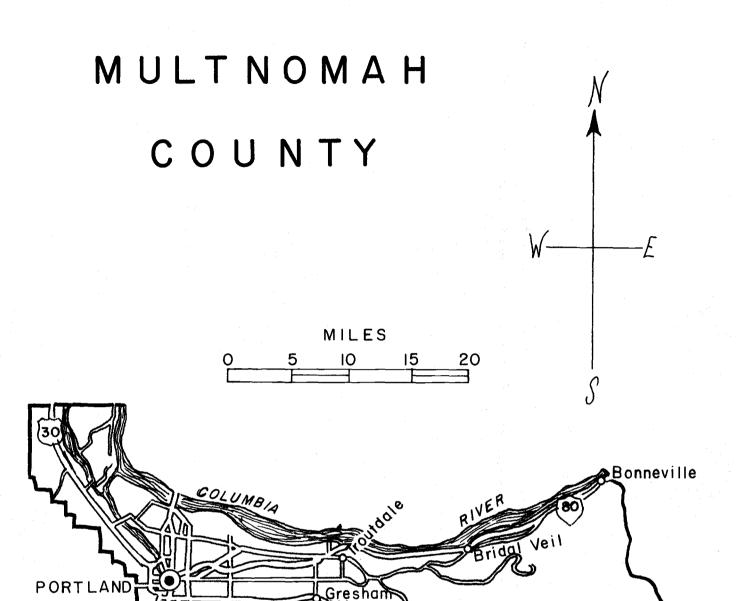
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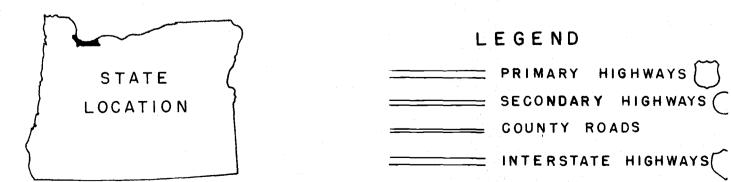
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MULTNOMAH COUNTY





GENERAL DESCRIPTION

Multnomah County was established by the Territorial Legislature on December 22, 1854, seven years before statehood. The land included part of Washington and Clackamas Counties. Its entire population numbered 1,500 to 3,000 at that time.

The county encompasses an area of 270,400 acres and ranks 36th among counties in area. The county is composed of three topographic-structural provinces which are from west to east, the Coast Range uplift, the Willamette trough, and the western and high Cascades, respectively. The Coast Range uplift area is caused by anticlinal folding of the underlying formations. It has a topography of irregular ridges and short steep slopes. The Willamette trough is relatively smooth, broken by low, rolling hills or buttes. The western and high Cascades are characterized by steep slopes, sharp ridgetops and deep canyons.

The county has a temperate maritime climate with dry, moderately warm summers and wet, mild winters. The average annual precipitation is as low as 36 inches in the Willamette Valley, and up to 100 inches in the higher elevations.

The average annual frost-free season varies from about 180 to 250 days in the Willamette trough, to less than 30 days at the higher elevations in the Cascades.

White settlement of the county began in 1835 by Hudson Bay Company employees. At first the economy was largely based on agriculture, but since then, logging manufacturing, and services have become important. The population has increased from 108,167 in 1900 to 560,000 in 1972.

Multnomah County is located in the northern portion of western Oregon. The county is bounded on the east by Hood River County, by Clackamas County on the south, and by Washington and Columbia Counties on the west. The northern boundary is formed by the Columbia River. The county lies entirely within the Lower Willamette River Basin.

Following is some general information on the county. 1/

Area: 457 square miles	Population: 560,000
270,400 acres	(July, 1972)
Elevation at Portland: 77 feet	True Cash Value: \$5,447,815,621 (1972)
Average Temperature:	Principal Industries:
Summer - 69.7 ⁰ F	Manufacturing, Lumbering,
Winter - 40.2 ⁰ F	Transportation

County Seat: Portland

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

PHYSICAL ASPECTS

Multnomah County is divided into three geological and topographical provinces. They are from west to east, the Coast Range uplift, the Willamette trough, and the western and high Cascades, respectively. The Coast Range uplift is caused by anticlinal folding of the underlying formations. Its relief is irregular ridges and short steep slopes. The areas of sedimentary rock are dissected and have numerous slumps and slides. The areas of igneous rocks are less dissected because of its resistence to weathering and erosion. It contains drainage that is rugged, steep and convex.

The rocks of the Coast Range uplift are relatively young and are slightly altered either in structure or in mineral associations.

Following a period of extrusion, the area was warped upward to its present altitude accompanied by some minor folding such as the Portland Hills anticline. Following weathering and erosion of the Columbia basalt, a structureless light brown silt was formed known as the Portland Hills silt. It has a depth of 25 to 100 feet.

The Willamette trough includes the level area of Portland. The smooth surface is broken by low, rolling hills or buttes.

Downfoldings of rock formations created the Willamette syncline, a structural depression, with hills of moderate relief separating broad flats filled with alluvial sediments from the surrounding hills.

The rock formations under the alluvial sediments are presumed to be the same as the Coast Range and the Cascades. The Pliocene Age consists of beds of micacious and quartzose sandstone and siltstone and tuffaceous siltstone, sandstone, and conglomerate. The late Pliocine flows remain as buttes near Gresham and exit as erosional remnants along the slope of the Portland Hills.

During the period of Pliocene time, there were three effects that affected the county's geology. They were uplift, glaciation, and deglaciation. Uplift coupled with erosion caused incision of the streams and alluviation of the valley. Glaciation caused lowered sea level and stream incision as ice accumulated on land. Deglaciation caused drowned streams, stream cut terraces, and alluviation.

The western high Cascades area begins at the east edge of the Willamette trough and extends to the summit of the Cascades. It is characterized by steep slopes, sharp ridgetops, and deep canyons. Elevations range from 200 feet near the Columbia River to 4,800 feet. The drainage formation is influenced by glacial action and displays the typical U-shaped canyons with hanging valley tributaries.

- 2 -

Some 7,500 feet of moderately deformed sequence of lava flows, pyroclastics and a small amount of marine ædimentary rocks are found in the western high Cascades.

The Eocene Goble volcanics series is the oldest formation. On the Goble volcanics is the Miocene Eagle Creek formation consisting of mud flows, volcanic debris, and fossil wood and leaves. This was eroded to a low relief followed by the pouring out of Columbia River basalt in the thickness of 200 to 2,000 feet.

A fault north-south between the western and high Cascades dropped the Cascades area. Plio-Pleistocene Cascan lavas built the high Cascades to its present height.

Climate

Multnomah County has a temperate maritime climate, moderately warm summers and wet, mild winters. The varying topography produces some variation in the climate depending primarily upon elevation.

Precipitation is as low as 26 inches in the Willamette Valley but increases rapidly with elevation to 100 inches in parts of the Coast Range and 140 inches in the Cascades. About 60 percent of this average annual precipitation is in November through February while only about 10 percent occurs from June through September.

At elevations below 2,000 feet, most of the precipitation occurs as rain at low intensities. With the rise in elevation, precipitation intensity also increases. Snow increases from about 2 percent of the annual precipitation on the floor of the Willamette Valley to 50 percent at 5,000 feet elevation and about 75 percent at 7,000 feet. Snow buildups in the Cascade Mountains are an important source of summer streamflows.

The prevailing winds are from the west and northwest during the summer months, and from the south and southwest during winter storm periods. Wind velocities are moderate, though strong winds sometimes accompany winter storms; and short periods of strong easterly or northerly winds may occur at any time of the year.

The seasonal temperature variations are small in the Willamette trough and Coast Range. A winter temperature below 10 degrees and a summer temperature above 100 degrees are rare in the county. The temperatures in the Cascades have a wide variation and are generally cooler than the rest of the county.

The frost-free season in most of the Valley area of the county is from March to November--a period of 180 to 250 days. At the higher elevation in the Cascades, the frost-free season is less than 30 days.

Station	Elevation	Years of Record	
Bonneville Dam	85	1/	·
Portland WB AP	22	1/	
Portland WB City	30	1/	
Gresham 2 SE	450	3	
Gresham	310	3	
Gresham	376	1	
Sauvies Island	40	1/	

Table 1. Weather Stations, Elevation and Years of Record, Multnomah 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. Temperature and Precipitation, Multnomah County, By Month, 1951-1960 Averages

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Average Temperature	`				'	degre	es Fa	ahren	heit			-	······································
Bonneville Dam	36.5	40.1	43.1	50.6	56.6	61.2	67.3	66,3	63.2	54.5	44.3	39.6	51.9
Portland WB AP Portland	39.2	42.3	44.6	51.0	56.8	61.4	67.0	65.9	62.1	54.2	44.8	40.9	52.5
WB City	40.9	43.9	46.0	52.9	58.6	62.7	68.4	67.5	64.7	56.8	47.0	42.9	54.4
Total Precipitation						inch	nes -		 				•
Bonneville Dam Portland	14.0	8.2	9.2	5.3	3.9	3.0	.7	1.5	2.6	7.7	10.2	12.7	78.9
WB AP Portland	6.8	4.1	3.9	2.2	2.1	1.8	. 3	.8	1.5	3.7	4.9	5.5	37.6
WB City				2.6					1.7				43.5
Gresham Sauvies Is.	9.9 8.4			2.7 2.4	2.6 1.9			1.8 .7		4.8 3.6			50.2 42.9
	Depart te, Su												

The following table indicates an average day-time high and low for each month over the years 1951-60. The minimum temperatures are generally considered to be night-time temperatures.

Station	Jan.	Feb.	Mar.	Apr.	May	June	Ju1y	Aug.	Sep.	Oct.	Nov.	Dec.	Annua1
Mean Daily							<u> </u>						
Maximum Temp.	{					- deg	grees	Fahre	enhei	t - •			
Bonneville Dam	41.2	46.0	50.4	59.5	66.0	70.3	78.2	76.9	73.4	62.3	50.2	44.5	59.9
Portland WB AP	44.2	49.0	52.6	61.1	66.7	70.8	78.6	76.9	73.9	63.7	51.8	46.4	61.3
Portland WB City.	45.5	49.6	53.0	61.7	67.9	71.6	79.3	77.6	74.6	64.5	52.7	47.6	62.1
Mean Daily	{												
Minimum Temp.						deg	rees	Fahre	enheit	;			
Bonneville Dam	31.7	34.1	35.8	41.7	47.1	52.1	56.5	55.7	53.0	46.7	38.3	34.5	43.9
Portland WB AP	34.1	35, 5	36.5	40.9	46.8	52.0	.55.3	54.9	50.3	44.7	37.7	35.4	43.7
Portland WB City.	36.3	38.2	39.1	44.1	49.3	53.9	57.4	57.3	54.8	49.1	41.3	38.1	46.6

Table 3.	Mean Daily Maximum and Minimum Temperatures, Multnomah County,	
	By Month, 1951-1960 Averages	

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

Table 4. Freeze Data for Multnomah County, By Month, 1951-1960 Averages

		Ме	an Nu	mber	of Da	ys wit	th Ter	npera	ture	of 32	⁰ F. o	r Belo	W
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annua1
Bonneville Dam	15	11	8	1	1/	0	0	.0	0	0	5	10	50
Portland WB AP	11	9	8	1	$\overline{1}/$	0	0	0	0	1/	7	9	45
Portland WB City.	7	4	3	0	ō	0	0	0	0	ō	3	4	21

1/ Less than .5 days.

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

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

Soi1s

The Multnomah County soil survey consists of 328 square miles or 209,920 acres. The topographic features consist of the alluvial lands along the Columbia River and tributaries, bench lands and hilly to mountainous districts. The soils are classified in 18 groups which shall be described on the following pages.

Olympic Loam has a depth of 10 to 14 inches and is brown to reddishbrown in color. It contains large quantities of very find sand.

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Olympic Loam is relatively unimportant and about 30 percent of this soil is under cultivation. Wheat, oats and vetch are the principal crops of this soil. Where the soil is sufficient in depth, prunes, cherries, and walnuts could be grown.

The largest area of Olympic Silt Loam is located east of the Sandy River and extends northeasterly to the county line. The topography of this soil ranges from smooth plateau-like to rough and hilly. All areas of Olympic Silt Loam are well-drained.

About 50 percent of this soil is under cultivation. The crops that are grown include wheat, oats, and vetch. The dairy industry has been wellestablished on this soil. When this soil was first cultivated, organic matter was abundant and crops were very productive. However, the neglected addition of organic matter has resulted in smaller yields in recent years.

About 20 percent of the Cascade Silt Loam series is under cultivation and produces crops of red clover, wheat, oats, and vetch and oat hay. Corn is also grown for silage. The major need of this soil is organic matter.

The topography of Willamette Loam is gently rolling with rather abrupt slopes to drainage ways. Because of this, drainage is good. The soil is generally located along rivers and streams at elevations from 15 to 30 feet above the high water mark. The largest area of this soil occurs around Gresham extending north to Troutdale.

Willamette Loam is best adapted to clover crops and would be greatly benefited if used more for this purpose. The addition of organic matter would also benefit this soil greatly.

Willamette Silt Loam has a color of light-brown to brown and a depth ranging from 12 to 24 inches. The topography of the soil is gently sloping to gently rolling with short steep slopes leading down to drainage ways. The soil is able to withstand comparatively long periods of droughts.

The principal area of this soil is located within the Portland city limits. Other small areas are located near Gresham and east of Mount Tabor.

Hillsboro Loam has a depth of 10 to 24 inches and brown to light-brown in color. The topography is characterized by well-rounded knolls and ridges running parallel to the course of the river. Because of this, erosion is prevented. Drainage is excellent.

The largest area is located along the banks of the Columbia River. This soil is one of the more important soils in the county. Ninety percent is under cultivation. The crops grown are red clover, alsike clover, wheat, oats, and vetch hay, and vegetables. The dairy industry is also very important here. Berries, fruit, corn, and potatoes are being produced for commercial and home use. With the addition of commercial fertilizers or barnyard manure, a high state of productiveness is maintained. Powell Silt Loam is one of the most extensive in Multnomah County covering 12 percent of its area. It is extensively located in high plateau regions east and west of Gresham and bordering the Sandy River on the west. Drainage of this soil is excellent with only a few areas needing artificial drainage.

Sixty percent of the land is now utilized for agricultural practices of which dairy farming is the most important.

Salem fine sandy loam has a depth ranging from 12 to 16 inches and is brown in color. The topography is smooth but has sufficient slope to provide good drainage. The most important area of this soil is located west of Troutdale and southwest of Wilkes School.

About 90 percent of this soil is under cultivation. The principal crops grown in this soil are wheat, oats, vetch and clover. All kinds of berries and fruits do well in this soil.

The dark-colored phase of Amity Silt Loam consists of 12 inches of grayish-brown or dark-brown silt loam. The largest area of this type is located one-half mile north of Gresham with small areas located throughout the county. The soil is well above the present courses of streams which provide for poor drainage.

About 80 percent of the soil is under cultivation. The principal crops are oats, vetch, wheat and red clover. The principal need for the soil is drainage and addition of organic matter.

Columbia Fine Sand consists of a brownish-gray to grayish-brown sand. This soil is almost entirely confined to the banks of the Columbia River, and is slightly higher than soils of river bottoms.

Only 20 percent of this soil is under cultivation; the rest is used for pasture. The principal crops are wheat, oats, corn, alfalfa, clover and potatoes. Organic matter should be added for moisture retention.

A very small portion of this soil acreage has been cleared for agriculture use. This soil is one of the most important soils in the Columbia River bottom and is utilized for truck farming and dairying. The principle crops grown are alfalfa, clover, wheat, corn, and oats. In the areas devoted to trucking, all kinds of vegetables as well as strawberries are grown.

The cropping production is used mainly for feeding dairy cattle on the farms. The dairy industry in this area is very extensive with cream being the primary product.

Columbia Loam has an average depth of 8 inches and is light-brown to dark-brown in color. The soil contains a substantial amount of organic material. The topography of this soil is smooth and only occasionally interrupted by a channel scoured out by floods. Drainage is good, except areas with high water tables.

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About 60 percent of the land is under cultivation producing crops of peas, beans, wheat, clover, corn, and oats. The more poorly drained areas furnish summer pasturage. When the land is well-drained the production of corn and vegetables are good.

Columbia Silt Loam has an average depth of 18 inches. This soil contains a relatively large proportion of organic matter and very fine sand.

The topography is smooth, with only slight irregularities. The drainage of Columbia Silt Loam is generally good. About 30 percent of the land is under cultivation and used for pasture. The primary crops are wheat, oats, corn, clover, beans and peas.

When the soil is diked it can be used in the production of many crops. When thoroughly drained, it is best adapted to corn and vegetables.

Wapato Silt Loam has an average depth of 12 inches and is dark-brown in color. The soil contains a small amount of clay. The soil is subject to periodic overflows which restricts drainage of the soil.

This soil is a productive soil, but owing to its small extent it is relatively unimportant in agricultural uses. About 60 percent of this soil is under cultivation producing crops of wheat, oats, corn and potatoes. The principal need for the land is drainage, which can be best accomplished by tilling.

Sauvie Silt Loam has a brownish or dull-gray color and an average depth of 8 inches. This soil contains a relatively high amount of organic matter. The surface is somewhat uneven and is subject to overflow. It is slightly higher than that of surrounding soils which gives good drainage for this soil.

The largest area not found in river bottoms is located in the City of Portland. Eighty percent of the land is under cultivation being used primarily for the production of vegetables. Areas that are free from over flow could be used for the production of wheat and forage crops.

The depth of Sauvie Silty Clay Loam is from 10 to 12 inches and has a brownish-gray to dull gray color. This type forms the greater part of the overflowed land of the Columbia River bottoms. The largest area is on Sauvies Island and in the northwestern part of the county. Drainage of the greater part of this type is deficient on account of the high water table.

Toutle Sand consists of 36 inches or more of a brownish-gray to drab sand. This type of soil is confined almost entirely to the channel of the Sandy River where the less swift water deposits sediments of sand. The soil is subject to annual overflow and because of this, it is not used for agricultural purposes.

Bourlington Fine Sand has a depth of 36 inches or more and is darkbrown in color. Two of the largest areas of this soil occur on the west central part of Sauvies Island. The topography varies from gently undulating to rolling to dune-like land. Drainage is very good to excessive in this type of soil.

Agricultural use is of little importance on this type of soil. Twenty percent of this land is cultivated producing primary crops of wheat, oats, corn, clover and potatoes. This soil could be made to produce very good crops through the addition of organic matter.

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.

Capability Class	Use in Acres									
and Limitations <u>1</u> /	Cropland	Pasture-Range	Forest	Other land	Total					
I II	3,387	0	1,597	153	5,137					
E	7,486	0	3,847	1,687	13,020					
W	4,608	5,071	1,699	460	11,838					
S	1,907	0	274	2,953	5,134					
III										
Ε	4,089	0	9,237	977	14,303					
W	5,386	0	5,374	153	10,913					
IV										
Е	882	3,941	9,065	364	14,252					
VI I										
E	311	3,376	19,591	824	24,102					
VII										
Ε	0	561	5,617	0	6,178					
VIII										
W	0	0	566	0	566					
S	0	0	1,133	0	1,133					
Tota1	28,056	12,949	58,000	7,571	106,576					

Table 5.	Use of Inventory A	creage by Capab	ility Class	and Limitations,
	Mu	1tnomah County,	1967	

W - water in soil interferes with plant growth;

S - Soil is shallow, droughty, or stony.

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

Table 6.	Land Area	and Use of	Inventory	Acreage,	Multnomah	County,	1967	
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Use	Acres	
Inventory Acreage		·· ····· ·····························
Cropland	28,056	
Pasture	12,949	
Range	0	
Forest and woodland	58,000	
Other land	7,571	
Total inventory acres	106,576	
Percent of total land area in		
inventory	40%	
Non-Inventory Acreage		
Federal land	74,598	
Urban and built-up areas	87,746	
Water areas	1,800	
Total non-inventory acres	164,144	
Total land area	270,720	

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

Table 7. Conservation Treatment Needs, Multnomah County, 1967

Classification	Acreage	
ALL CROPLAND	28,056	
Cropland needing treatment Type of treatment needed:	15,214	
Residue cover Sod in rotation	2,093 1,429	
Drainage Management Other	8,055 2,371 1,266	
ALL PASTURE	12,949	
Pasture needing treatment Type of treatment needed:	9,949	
Brush control and improvement Improvement of vegetation	4,390 361	
Protection only	5,198	

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

Land Use and Ownership

In this report, land ownership in Multnomah County is classified as public lands; federal, state, and county; and private. About 61 percent of Multnomah County is privately owned. Most of the private land is in forests and farms. Approximately 27 percent of the county is in federal ownership, of which, 92 percent is in National Forests administered by the U.S. Forest Service. The majority of the remaining federal land is managed by the Bureau of Land Management.

Five percent of the county is owned by the State of Oregon. About 63 percent of the State-owned land is administered by the Highway Commission; 31 percent by the Game Commission; and the remaining divided between the Land Board, Higher Education, and Fish Commission.

Approximately 6 percent of the county is owned by the county and consists of county and city parks, municipalities, and road rights-of-way.

Land use in the county is primarily devoted to forests, agirculture, and urban development.

About 50 percent of the county is forest land. Agriculture land includes 20 percent of the county and intensified-type farming. Urban uses encompass 25 percent of the county due to the large population in the Portland area.

Conservation uses include approximately 3 percent of the county's land.

			State	
and a second		h County	State	
Item	Acres	Percent	Percent	
Total land area	271,360	100.00	100.00	
Land Use				
Urban	69,468	25.60	.49	
Industrial	1,302	.48	. 16	
Military	-	-	.10	
Intensive agriculture	55,655	20.51	6.52	
Dryland farming	-	-	3.33	
Forests	135,897	50.08	44.84	
Parks	-	-	. 32	
Conservation	8,195	3.02	2.25	
Grazing	-	· _	41.50	
Non-productive land	841	.31	.49	
Land Ownership				
Total private land ownership	170,748	62.9	44.2	
Total public land ownership.	100,612	37.1	55.8	
Federal	74,856	27.6	51.8	
State	12,977	4.8	2.9	
Loca1	12,779	4.7	1.1	

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

SOURCE: Oregon Department of Planning and Development, Resources for Development, 1964.

Agency	Acres	Land Value	Improv. Value	Total Value	Annual Rental Income
Board of Education.	2.86	\$22,000	\$165,000	\$187,000	\$ -
Fish Commission	24.00	23,550	175,620	199,170	420
Game Commission Dept. of General	1,199.45	727,225	589,766	1,316,991	7,389
Services Div. of Continuing	1.84	1,625,000	7,248,025	8,873,025	205,850
Education Portland State	3.38	166,000	910,289	1,076,289	-
University U. of O. Dental	22.74	14,858,000	34,624,014	49,482,014	• •
SchoolU.of 0. Medical	.80	40,000	4,718,447	4,758,447	·
School Division of State	99.68	2,812,000	36,109,521	38,921,521	
Lands	200.00	8,000		8,000	-
Military Dept Highway Division	19.94	150,250	1,115,620		-
Parks	2,755.53	282,825	1,173,162	1,455,987	840
Offices	17.15	107,673	757,760		-
Totals	4,347.37	\$20,822,523	\$87,587,224	\$108,409,747	\$214,499
				ate-Owned Real Dregon, 1970.	Property,

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

	M	ultnomah Coun	ty
Ownership	Acres		Percent
State highways	5,480		30.46
County roads	5,980		33.24
City streets	6,525		36.28
Total	17,985		100.00

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

Agricultural Land

The land base for agriculture in Multnomah County consists of 29,290 acres of cropland, 22,106 acres of woodland, including woodland pasture, and 19,396 acres of other land.

About 10 percent of the total county area is in cropland. Included in this figure are harvested cropland, cropland that is used for pasture, and other cropland. The cropland is used mainly for production of small grains, hay crops, grass seed, fruits, and vegetables. About 10 percent of the land in farms is irrigated.

	19	64	1969		
Item	Acres	Percent	Acres	Percent	
Total land area	270,725		270,400		
Proportion in farms		24.6		26.2	
Acres in farms	66,728	100.00	70,792	100.00	
Cropland harvested	19,433	29.12	16,968	23.96	
Cropland pasture	9,098	13.63	8,821	12.46	
Other cropland Woodland including	4,514	6.76	3,480	4.91	
woodland pasture	14,542	21.79	22,106	31.22	
Other land	19,133	28.67	19,396	27.39	
Irrigated land	5,157	7.72	7,130	10.07	
SOURCE: U.S. Bureau of the Census	, Census of Ag	riculture,	1964 and 1969,		

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

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

Forest Land

The forest land of Multnomah County may be divided into four distinct zones on the basis of ecology, climate, and pattern of land ownership as follows: the valley zone, the principal 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 of any part of the county. This zone was only partially forested at the time of settlement, and much of it has since been cleared for agricultural, urban, residential, and other uses. Most of the remaining forest land is generally in blocks of less than 500 acres owned by farmers and ranchers intermingled with agricultural land. There are both hardwood and coniferous in this zone. The hardwood stands--cottonwoods, alder, bigleaf maple, and willows--occur on bottom lands subject to flooding and on dry 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 principal forest zone begins at 500 to 1,000 feet elevation and extends up to 3,000-4,000 feet. It contains the major share of the timber producing land in the county. Approximately 90 percent of the land is forested. Coniferous forests of Douglas-fir predominate with smaller stands of Western hemlock, Western red cedar, and True fir. Red alder stands occur at lower elevations of the Coast Range where fire or logging removed the original stand. Most of this land is owned by large timber companies or the public.

The upper slope forest zone begins at about 3,000 to 4,000 feet elevation and extends to 5,000 to 6,000 feet. About 80 percent of the land is forested; the remainder consists of rock outcrops, shallow, stony soils, meadows, and lakes. The true fir mountain-hemlock stands are predominant. The subalpine forest zone begins at 5,500 to 6,000 feet elevation in the Cascades and extends to the upper limits of tree growth. The principal tree species--subalpine fir, mountain hemlock, whitebark pine, and Alaska yellow-cedar--occur in scattered stands intermingled with meadows and barren areas.

About 53 percent of the forest land in Multnomah County, or 68,000 acres, in 1963 was owned and managed by National Forests. National Forest lands are federal lands which have been designated by Executive order or statute as National Forests or purchase units, and other lands under the administration of the Forest Service.

About 44 percent of the forest land in Multnomah County, or 56,000 acres, is owned by farmer and miscellaneous private. Farmer-owned lands are lands owned by companies or individuals operating wood-using plants. Miscellaneous private lands are those lands privately owned other than forest industry or farmer-owned lands.

Three percent of the forest land in Multnomah County is owned by other public. This is about 4,000 acres. Other public lands are federal lands other than National Forests, including lands administered by the U.S. Bureau of Land Management, U.S. Bureau of Indian Affairs, and miscellaneous federal agencies, and land owned by states, counties, and local public agencies, or land leased by these governmental units for more than 50 years.

The major uses of forest land in Multnomah County are for production of crops of commercial timber, for outdoor recreation, and for watershed protection. Other uses such as wildlife habitat and grazing are also important.

The "Multiple Use-Sustained Yield" concept is used in the National Forest system. This means management of forest and related areas in a manner that will conserve the basic land resource itself while at the same time producing a high-level sustained yields of water, timber, recreation, wildlife, and forage in the combination that will best meet the needs of the American people.

On many private holdings, the only management is that related to the harvesting of mature timber while on other private holdings considerable attention is given to measures that will maximize the continuous production of timber.

In 1963, there were 128,000 acres of commercial forest land in Multnomah County. Commercial forest land is that land which is producing or capable of producing industrial wood and not withdrawn from timber utilization.

There were an estimated 4,000 acres of noncommercial forest land in Multhomah County in 1963. Noncommercial forest land that is unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions, and productive public forest land withdrawn from commercial timber use through statute or administrative regulation. Table 12. Forest Acreage, Ownership and Use, Multnomah County, 1963

Item	Acres	Percent
LAND		
Total land	271,000	100.00
Forest land	132,000	48.70
Commercial	128,000	47.23
Unproductive	3,000	1.10
Productive-reserved	1,000	.36
Nonforest	139,000	51.29
DWNERSHIP		
All ownerships	128,000	100.00
National forest	68,000	53.12
Other public	4,000	3.12
Forest industry	-	-
Farmer and misc. private.	56,000	43.75

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

Table 13. Volume of All Growing Stock and Sawtimber by Ownership, Multnomah County, 1963

Ownership	Total Con Growing		Total Com Sawtim	
	million cubic ft.	percent	million board ft. <u>1</u> /	percent
National forest Other public	448 31	69.89 4.83	2,872 211	75.06 5.51
Forest industry Farmer and misc. private	- 162	- 25.27	- 743	- 19.41
Tota1	641	100.00	3,826	100.00

1/ International ¹/₄ inch rule; not reported in Scribern Log Rule.

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

Species		ommercial g Stock		Total Commercial Sawtimber		
	million cubic ft.	percent	million board ft.	<u>1/</u> percent		
Softwoods	552	86.11	2,877	90.64		
Douglas-fir	289	45.08	1,605	50.56		
Pines	1	. 15	7	.22		
True firs	80	12.48	313	14.39		
Sitka spruce	-	-	-	- '		
Western hemlock	156	24.33	819	25.80		
Western redcedar.	25	3.90	132	4.15		
0ther	1	.15	1	.03		
łardwoods	89	13.88	297	9.35		
Red alder	64	9.98	209	6.58		
Bigleaf maple	25	3.90	88	2.77		
11 species	641	100.00	3,174	100.00		

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

1/ Scribner log rule.

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

Water

Surface drainage for Multnomah County is carried on by the Columbia and the Sandy Sub-basins. The Columbia Sub-basin consists of the Scappoose Creek Watershed, the Portland Watershed, Fairview Watershed, and the Johnson Creek Watershed. The Scappoose Watershed contains 52,400 acres, with only a small portion of this in Multnomah County. The Portland Watershed contains 155,200 acres which is divided between Columbia, Multnomah, and Clackamas Counties. The Fairview Watershed is contained entirely in Multnomah County and occupies 15,600 acres. The Johnson Creek Watershed has 28,800 acres that are divided between Multnomah and Clackamas Counties. The Sandy Sub-basin has several watersheds within its boundaries. The Bonneville watershed is located in northeast Multnomah County and contains 49,970 acres. Bull Run River Watershed contains 89,400 acres and is located in Multnomah and Clackamas Counties and contains 237,030 acres. It is located in eastern Multnomah County.

The Bull Run Watershed is the primary source of water for the Portland area. It provides 70,000,000 gallons of water per day for Portland and surrounding areas.

The average monthly flows are high from November to April and are low during the late summer months--July, August, September and October. This follows seasonal precipitation patterns except for some modifications on those streams originating in the Cascades.

Water shortages are most critical in the month of August whereas December is the month in which water supplies are at their peak. The major stream regulation occurs in the Willamette Basin before reaching Multnomah County. Table 15. Annual Yield of Representative Streams, Multnomah County

	Drainage	Years	Mean Annua	1 Yield 1/
Stream and Gaging Point	Area sq. miles	of Record	acre-feet <u>2/</u>	acre-feet/ sq.mile
Bull Run River near Multnomah Falls North Fork Bull Run R.	47.9	2	NA	NA
near Multnomah Falls.	8.32	3	NA	NA

NA - not available.

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 Oct. 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.

2/ Acre-feet equals the quantity 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, Water Resources Data for Oregon, Part 1, Surface Water Records, 1968.

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

	Maxim	um Discharge	Minimum Discharge	
Stream and Location	Year	Flow (cfs) <u>1</u> /	Year	Flow (cfs)
Bull Run River near Multnomah Falls North Fork Bull Run River	1968	6,540	1967	33
near Multnomah Falls	1968	988	1967	9.8

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.

The occurence of ground water in Multnomah County is governed principally by topography, precipitation, and rock permeability. Ground slope determines, in part, the time surface runoff has to enter the ground, whereas permeability is the capacity of the rocks to transmit water.

The Willamette Valley Division is generally deficient in ground water--except for the flood plain areas which provide most abundant supplies.

Agriculture in Multnomah County already uses considerable ground water. Much of the irrigated land uses wells as a main source of water. It is the chief source of water in the Sandy Sub-Basin.

Ground water is still a good source for future development in certain areas in Multnomah County. The quality and quantity of water are usually adequate for domestic, agricultural, and industrial needs. However, a few local ground water shortages have occurred because of improper spacing of wells rather than a real lack of water. Irrigation development has been accomplished primarily on an individual farm basis. Most irrigation is on land near the major streams where water is readily available from streams or wells.

Major industrial water users in the county fall mainly within two categories: lumber and woods products manufacturing, and food and kindred products processing.

Water requirements for use in food and kindred products processing include water for washing and cleaning of food products, brining, packaging, and canning of food stuffs. Water use is very seasonal with approximately 80 percent being required during the summer processing season from June through October.

Much of the water diverted for industrial uses is returned for further use downstream, but waste products from some manufacturing processes lower the quality of water and contribute to its pollution.

Pollution of streams has long been a matter of state and local concern. The table below lists the sewage treatment plants which have been constructed in the county by cities and other developed areas.

Location	Year Built	Type <u>1</u> /	Design Population	Population Served	Receiving Stream
AP Industrial Park	1969	AD(L)	75	25	Columbia Slough
Columbia Way Court	1971	AD	175	145	Ditch to Col. Slough
Gresham	1955-1972	AS	30,000	17,500	Columbia River
Jubitz Truck Station	1964	AD	50	25	Columbia Slough
Mountain States					
Airport Park	1969	AD-EF	500	510	Columbia Slough
Portland					
Columbia Blvd	1951-1971	Р	1,100,000	411,200	Columbia River
Tryon Creek	1965	AS	31,000	31,000	Willamette R.
Portland Mobile				-	
Home Court	1963-1972	TF	620	650	Columbia Slough
Portland Airport	1941	Р	3,000	3,000	Columbia River
Propco	1963	AD	150		Columbia Slough
Reynolds Aluminum	1942	Р	1,000	300	Salmon River
Troutdale	1970	AS	5,000	1,310	Sandy River
Wood Village	1943-1964	TF	1,500	1,275	Creek to Col. R.

Table 17. Sewage Treatment Plants, Multnomah County, 1973

AS - activated sludge, EF - effluent filtration, TF - trickling filter. SOURCE: Oregon State Department of Environmental Quality, <u>Water Quality Control</u> in Oregon, Oregon Sanitary Authority, 1970.

Water-based Recreation

The population density of Multnomah County results in heavy recreational use of the area's water bodies despite the generally low bacterial quality of the Willamette River. Boating, fishing, and stream or lakeoriented picnic and camping activities are expanding greatly.

The Sandy River is a recreation site that is popular with Portland residents because of its proximity to the urban area. The main reservoir in Multnomah County is located on the Bull Run River. This is used for recreation besides being a major water supply for Portland.

Multnomah County's two state parks--Dabney and Lewis and Clark-are the most-attended parks in the entire Willamette Basin.

Water needs for wildlife vary according to species and are met in most areas from streams, lakes, and marsh areas.

Multnomah County has an extensive fishlife population. One of the outstanding uses for the Willamette River and its tributaries is the production of anadromous fish for the sport and commercial fisheries of the Willamette and Columbia Rivers and the Pacific Ocean. Salmonoids include spring chinook, fall chinook, coho, steelhead trout, and resident species of trout.

The Willamette River serves as through-way for spring chinook, silver salmon, and steelhead trout.

Minerals

Income producing mineral deposits are primarily sand, gravel, and stone. In 1965, \$5,198,000 of sand and gravel were produced in Multnomah County. This was 13 percent lower than 1964's figure. The reason lies in the reduced yield of sand and gravel. The minerals that are produced in Multnomah County are sand and gravel, lime, stone, and clay; however, many other minerals commodities are consumed.

Many companies located in Portland use imported minerals for refining and producing by-products. Chemical, metalurgical, and processing plants furnish calcium carbide, ferrosilicone, ferromanganese, silicomanganese, caustic soda, chlorine, cast-steel products, and an inert carrier for insecticides.

The Union Carbide Corporation is a big producer of alloy metals and calcium carbide. They purchased 178.3 million kilowatt-hours of electrical energy for the production of these.

Wildlife

The most numerous big game animal in Multnomah County is the Columbia black-tailed deer. Hunting pressure is variable depending upon accessibility.

There are also several species of small game birds in Multnomah County. They include ring-necked pheasants, valley quail, bobwhite quail, mourning doves, and band-tailed pigeons.

In forested areas, band-tailed pigeons, blue grouse, ruffed grouse, and mountain quail are most common.

Migratory waterfowl are abundant during the migration period. The State Game Commission purchased 13,000 acres on Sauvies, Government, Lemon and McGuire Islands to develop and preserve wintering grounds. About one-half of this area is used for public hunting.

There are many species of furbearers in Multnomah County such as beaver, racoon, gray fox, red fox, marten, mink, muskrat, otter, skunk, and weasel. Pollution of some streams has created unfavorable habitat conditions, which have forced furbearers into smaller streams and ditches, where considerable damage is caused.

Table 18. Big Game Animal Population Trends, Multnomah County

Game Management Unit <u>1</u> /	Miles Traveled	Animals Observed, 1971			er Mile 5 yr. ave.*
Black-tailed deer Santiam	260	503	1.9	1.8	2.2
1/ Santiam Game Management is it completely contain SOURCE: Oregon State Game (ed within t	t h e county.			

SOURCE: Oregon State Game Commission, 1971 Annual Report, Oregon State Game Commission.

* - 5-year average, 1966-1970.

All the major stream and most of the minor streams maintain runs of anadromous fish. Coho, or silver, salmon, spring chinook, and cutthroat trout migrate annually to spawn in the county. However, low summer flows accompanies by high water temperatures and stream turbidity are detrimental to migration and spawning.

Nearly all of the game fish found in Oregon are in the streams, lakes, and reservoirs located in Multnomah County. The lowland streams and reservoirs contain warm water fish such as large-mouth bass, smallmouth bass, white crappie, bullhead catfish, and bluegill. Native fish population has been hard to maintain because of pollution and physical barriers to fish movement.

HUMAN RESOURCES

Population

Although the county was explored prior to 1800, the most significant exploration was the Lewis and Clark expedition of 1805. Trappers and employees of British and American fur companies traveled through the area as early as 1812. The first settlers in the Lower Willamette River Basin were retired Hudson Bay Company employees who settled in the east Portland area of the county. Settlers began arriving about 1835 and increased rapidly after 1840. The Donation Land Claim Law provided free land to immigrants arriving in Oregon by 1850 and encouraged rapid and widespread homesteading. Most of the Willamette Valley was taken up in donation land claims by 1855. As in most metropolitan areas, the greatest growth during the past 20 years has occurred in the fringe areas of the City of Portland. By 1972, the population totaled 650,000 for the entire county.

The following tables give more detailed information on the population growth, composition, and movement within the county.

Racial Group	Number of Persons	
Total	556,667	
Caucasian	515,166	
Spanish language	8,356	
Black	22,155	
American Indian	2,673	
Other	8,317	

Table 19. Number of Persons by Racial Group, Multnomah County, 1970

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 Extension Serivce, Corvallis, Oregon, 1972.

Table 20. Multnomah and Bordering Counties, Population and Rank Order in Oregon, 1960 and 1972

	19	60	1972	
County	Rank	Population	Rank	Population
MULTNOMAH	1	522,812	1	560,000
Clackamas	4	113,038	4	178,400
Columbia	20	22,739	17	30,070
Washington	5	92,237	3	178,300

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1960 General</u> Social and Economic Characteristics, Final Report PC(1)-C39, Oregon, U.S. Government Printing Office, 1962; and Center for Population Research and Census, <u>Population Estimates of Counties</u> and Cities of Oregon, Portland State University, July, <u>1972</u>.

		Population Density			
County and State	Land Area	1950	1960	1970	
	square miles	person	ns per sq.	mile	
State of Oregon	96,248	15.8	18.4	21.7	
MULTNOMAH	424	1,112.1	1,233.0	1,308.2	
Clackamas	1,887	45.9	59.9	88.0	
Columbia	646	35.6	34.6	44.6	
Washington	716	85.6	128.8	220.5	

Table 21. Land Area and Population Density, Multnomah 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 editions.

Table	22.	Population	Growth
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		Percent Increase or Decrease			
Year	Population	Period	Percent		
1910	226,261	·			
1920	275,898	1910-1920	21.9		
1930	338,241	1920 - 1930	22.6		
1940	335,099	1930-1940	4.9		
1950	471,537	1940-1950	32.8		
1960	522,813	1950-1960	10.9		
1965	555,000	1960-1965	6.2		
1970	554,668	1965-1970	(.8)		
1972	560,000	1971-1972	1.0		

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

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

Year	Net Change	Natural Increase	Net Migration
1940-1950	116,438	42,002	74,436
1950-1960	51,276	53,122	-1,846
1960-1970	33,854	33,400	454

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

	Url	ban	Ru	ral
Year	Population	Percent Change	Population	Percent Change
1950	425,968	-	45,569	- -
1960	503,766	18.3	19,047	-58.2
1970	540,080	6.8	14,588	-23.5

Table 24. Urban and Rural Population, Multnomah County

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

Table 25. Population Estimates of Incorporated Cities, Multnomah County, Selected Years, 1960-1972

City and County	1960	1965	1971	1972
Maywood Park		-	1,200	1,220
Fairview	578	759	1,115	1,255
Gresham	3,944	5,400	12,150 2/	13,850
Port1and 1/	372,298	381,600	$382,356 \overline{2}/$	383,356
Troutdale	522	600	1,410	1,680
Wood Village	822	900	1,925	1,960
Incorporated Area	378,164	389,259	400,308	403,441
Unincorporated Area	144,699	165,741	159,392	156,559
Total	522,813	555,000	559,700	560,000

This figure represents the part of Portland that is located in Multnomah 1/ County. A very small part of Portland (about .01) is located in Clackamas County.

Includes population annexed during the period from April 1, 1970 to June 2/ 30, 1971.

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

Population by Age and Sex, Multnomah County, 1960 and 1970 Table 26.

	Ma	1e	Fe	male	То	tal	Per	cent
Age Group	1960	1970	1960	1970	1960	1970	1960	1970
Total population.	251,719	264,538	271,094	292,129	522,813	556,667	100.0	100.0
Under 5	26,053	21,449	25,308	20,369	51,361	41,818	9.8	7.5
5-9	26,138	23,319	24,902	22,710	51,040	46,029	9.8	8.3
10-14	22,817	24,902	22,915	24,576	45,732	49,478	8.8	8.9
15-19	15,795	24,368	18,063	26,454	33,858	50,822	6.5	9.1
20-24	12,265	21,181	15,146	26,965	27,411	48,146	5.2	8.6
25-34	28,175	33,697	30,327	33,329	58,502	67,026	11.2	12.0
35-44	34,052	27,267	37,202	29,015	71,254	56,282	13.6	10.1
45-54	32,682	32,227	33,847	35,554	66,529	67,781	12.7	12.2
55-64	25,193	27,798	27,522	30,972	52,715	58,770	10.1	10.6
65 and over	28,549	28,330	35,862	42,185	64,411	70,515	12.3	12.7
Median age	33.2	29.4	34.7	32.0	34.0	30.6		

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

	Gres	sham	Port1and	
Age Group	1960	1970	1960	1970
Jnder 5	315	850	32,422	26,779
5-14	718	2,189	63,727	59,594
15-24	485	1,558	43,975	69,926
25 - 34	331	1,381	38,385	43,668
35-44	536	1,173	49,193	35,363
45-54	465	1,070	50,311	46,333
55-64	383	727	41,739	44,274
5 and over	710	927	52,920	56,682
Cotal population	3,944	9,875	372,676	382,619
Male	1,836	4,843	172,092	179,163
Female	2,108	5,032	195,584	203,456

Table 27. Population of Selected Cities by Age and Sex, Multnomah County, 1960 and 1970

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

Employment

The U.S. Census of Population, Department of Commerce reported in 1970 the total civilian labor force for Multnomah County was 240,895. At the time, the unemployment rate was 5.6 percent of the total labor force or 15,383 persons unemployed. For number of persons unemployed, Multnomah County ranked first in the State; however, ranking by percent the County ranked twenty-third for unemployment.

The Census of Population shows that only 3,157 persons were employed in agriculture. However, this does not include the large number of seasonal workers employed in growing and harvesting crops during June, July, and August.

Employed in nonagricultural industries were 225,508 employees and employers.

	Multnor	mah County	Por	t1and
Subject	1960	<u>1970 1/</u>	1960	<u>1970 1</u> /
Total males, 14 years and over	180,055	189,664	130,896	131,902
Total labor force	137,844	143,827	98,307	97,608
Armed forces	1,314	592	586	362
Civilian labor force	136,570	143,235	97,721	97,246
Employed	128,786	133,316	91,942	90,006
Unemployed	7,784	9,919	5,779	7,240
Not in labor force	42,171	45,837	32,589	34,294
Inmate of institution	48	2,549	932	1,008
Enrolled in school	13,306	11,499	9,615	8,311
Other	26,797	31,789	22,042	24,975
Total females, 14 years and over	201,797	218,972	150,682	156,869
Total labor force	77,663	97,660	60,628	70,041
Employed	74,201	92,192	58,000	66,293
Unemployed	3,437	5,464	2,603	3,748
Not in labor force	124,316	121,312	90,054	86,828
Inmate of institution	2,477	3,137	1,320	1,781
Enrolled in school	14,022	12,764	9,971	9,121
Other	107,817	105,411	78,763	75,926
Married (husbands present), in				
labor force	27,159	50,502	16,462	33,276

Table 28. Employment Status, Multnomah County and Portland, 1969 and 1970

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

Table 29. Percent of Age Group in Labor Force, Multnomah County and Portland, 1970

	Multnom	ah County	Portland		
Age Group	Male	Female	Male	Fema1e	
'ears					
14-15	17.6	8.8	NA	NA	
16-17	43.4	30.3	43.3	29.6	
18-19	64.8	56.7	64.3	56.8	
20-21	75.1	64.3	73.7	64.8	
22-24	86.5	62.7	85.3	65.5	
25-34	93.1	50.3	92.0	53.6	
35-44	95.0	53.8	94.6	54.0	
45-64	87.8	51.9	87.2	52.9	
65 and over	22.4	10.7	22.9	10.8	

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.

NA - not available.

	Number E	mployed	
Industry	1960	1970	
Agriculture Forestry and fisheries	^{2,710} 472	3,157	
lining	76	257	
onstruction	12,018	11,783	
anufacturing	39,888	40,685	
Lumber and wood products	5,667	4,242	
Food and kindred products	6,298	3,528	
Other	27,923	32,915	
ransportation	14,238	12,663	
ommunications	3,635	4,016	
holesale trade	13,374	16,774	
etail trade	34,517	39,236	
usiness services	15,420	25,159	
ersonal services	15,548	12,624	
ospitals and health services	6,728	15,898	
ducational services	10,184	17,400	
rofessional and related services.	7,243	11,350	
ublic administration	10,657	10,161	
tilities and sanitary services	NA	4,345	

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

NA - not available.

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 and 1972.

Table 31.	Number of Hired Seasonal Workers in Agriculture by Type of Worker,
	Portland Area, 1965 and 1971, Midmonth Figures

		Portland Area							
	Log	cal	Intra Migra	state torv	Interstate Migratory				
Month	1965	1971	1965	1971	1965	1971			
Мау	270	245	~	-	_	- -			
June	3,420	2,505	-	-	-	5			
July	3,825	6,835	25	-	80	15			
August	5,140	2,345	-	35	125	· · · · · · · · · · · · · · · · · · ·			
September	895	530	<u> </u>	· _	-	-			
October	290	515	-	-	· _	· · · <u>-</u>			

Oregon State Department of Human Resources, Employment Division,

1971 Annual Rural Manpower Report, 1972.

	Number Employed				
Occupation	Male	Female	Total		
Fotal employed, 16 years and over	133,316	92,192	225,508		
Professional, technical and					
kindred workers	18,964	13,907	32,871		
Engineers	2,624	-	2,624		
Physicians and related					
practioners	1,917	-	1,917		
Other health workers	467	4,075	4,542		
Teachers	1,999	4,375	6,375		
Technicians, except health	1,864	286	2,150		
Other professional workers	10,093	5,171	15,264		
Managers and administrators	17,126	3,855	20,981		
Sales workers	12,029	7,153	19,182		
Clerical and kindred workers	11,699	37,261	48,960		
Craftsmen and kindred workers	26,665	1,620	28,285		
Operative except transport	14,281	7,261	21,542		
Transport	8,949	321	9,270		
Laborers except farm	9,487	877	10,364		
Farmers and farm managers	384	126	510		
Farm laborers	841	212	1,053		
Service workers	12,806	17,337	30,143		
Cleaning service	4,239	2,371	6,610		
Food service	3,691	7,092	10,783		
Health service	368	3,805	4,173		
Personal service	1,293	2,283	3,576		
Protective service	2,031	137	2,168		
Private household	85	2,262	2,347		

Table 32. Multnomah 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., 1972.

Table 33. Median Earnings of Selected Occupation Groups, Multnomah County, 1959 and 1969

Occupation Group	1959	1969
Male, total with earnings Professional, managerial, and kindred	\$5,285	\$7,968
workers	6,874	10,449
Farmers and farm managers	2,651	5,036
Craftsmen, foremen, and kindred workers	5,628	8,578
Operatives and kindred workers	4,938	7,443
Farm laborers	847	1,968
Laborers, excluding farm and mine	3,980	5,414
Female, total with earnings	\$2,546	\$3,853
Clerical and kindred workers	3,158	4,331
Operatives and kindred workers	2,608	3,660

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.

	Thousands of Persons						
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	7.1			
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/, 1968-197	Table 34.	Annua1	Average	Labor	Force	in	Portland	Area	1/.	1968-197
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1/ Includes Multnomah, Clackamas, and Washington Counties in Oregon and Clark County in Washington.

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 35. Number and Percent of Persons Unemployed in Multnomah and Bordering Counties, 1968 and 1971

		er of	Percent of Labor Force	
County	1968	1971	1968	1971
MULTNOMAH 1/	15,500	28,800	3.6	6.1
Columbia	440	720	5.4	7.9
Hood River	440	550	7.3	8.4

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

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 36.	Covered	Payro11s	and	Employment	by	Industry,	Multnomah	County
			197	70 and 1971				

	Average	Employment	Annual Payroll
Industry	1970	1971	1971
Agriculture, forestry, and fisheries.	423	509	\$3,079,617
4ining	87	86	933,664
Contract construction	11,642	11,654	124,142,907
Lumber and wood products manufacturing	4,337	4,285	41,878,620
Food and kindred products			
manufacturing	7,332	7,250	67,232,489
Other manufacturing	38,474	37,052	335,215,589
ransportation, communication, elec-			
tric, gas, and sanitary services	21,718	21,289	219,113,764
Wholesale and retail trade	71,555	71,054	509,742,909
inance, insurance and real estate	20,458	20,322	153,179,086
Services and miscellaneous	35,486	36,512	213,433,929
Government	17,648	22,535	215,388,151
(early total	229,163	232,554	\$1,883,379,170

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. Major Occupation Group of Unemployed, Multnomah County, 1960 and 1970

	Number of Persons			
Occupation Group	1960	1970		
Professional, technical, and kindred workers.	321	1,164		
Farmers and farm managers	60	1/		
Managers, officials and proprietors,		-		
excluding farm	372	1/		
Clerical and kindred workers	1,335	2,112		
Sales workers	703	885		
Craftsmen, foremen, and kindred workers	1,681	2,616		
Dperatives and kindred workers	2,243	3,196		
Service workers, including private household.	1,667	2,624		
Farm laborers	312	353		
Laborers, excluding farm and mine	1,329	1,483		

 1/ Included in Professional, technical, and kindred workers.
 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 38.	Local	Government	Employees	and	Payroll,	Multnomah	County,
			October,	196	7		

Item	Employees and Earnings
Employees Full-time only	17,446 13,986
Full-time equivalent employmentEducationTeachers onlyFunctions other than educationHighwaysPublic welfareHospitalsHealthPolice protectionFire protectionSewerageSanitation other than sewerage.Parks and recreationNatural resourcesHousing and urban renewalCorrectionLibrariesFinancial administrationWater supplyOther local utilitiesOther and unallocable	$ \begin{array}{r} 14,848\\7,993\\5,805\\6,855\\720\\153\\517\\305\\1,160\\845\\153\\130\\711\\15\\54\\711\\-\\390\\603\\524\\-\\504\end{array} $
October payroll Education Teachers only Functions other than education	\$9,156,000 5,067,000 3,993,000 4,089,000
Average monthly earnings, full-time employment Teachers Others	\$687 \$577

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

Tab1e 39.	Net Effective	Buying Income Estimates,	Multnomah County,
		1967 and 1969	

	Net Dollars		Per H o usehold	
Area	1967	1969	1967	1969
	- thousand	dollars -	do1	1ars
State of Oregon	\$5,224,888	\$6,650,690	\$8,113	\$9,440
Multnomah County	1,666,808	2,042,097	8,508	10,060
Portland	1,195,926	1,435,416	8,236	9,751

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

Table 40. Bank Debits and Deposits, Multnomah County, 1965-1971

Year	Bank Debits <u>1</u> /	Bank Deposits	
	thousand dollars		
1965	\$20,034,014	\$1,414,817	
1966	21,394,758	1,457,987	
1967	23,178,484	1,593,763	
1968	27,429,188	1,786,592	
1969	34,698,383	1,631,439	
1970	37,442,435	1,788,209	
1971	41,280,740	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
ean Income	an the second	and and the second s
Families:		
A11 races	\$11,582	1/
Caucasian	11,747	<u>/</u>
Spanish language	10,435	
Black	8,131	
Other	10,352	
Unrelated individuals:		
All races	\$4,042	
Caucasian	4,106	
Spanish language	3,900	
Black	3,043	
Other	2,999	
amilies by Family Income Class		
under \$3,999	17,807	12.46
\$4,000 to \$5,999	13,785	9.65
\$6,000 to \$11,999	58,854	41.18
	52,464	36.71
\$12,000 +		
total ucasian:	142,910	100.00
under \$3,999	15,895	11.88
\$4,000 to \$5,999	12,524	9.36
\$6,000 to \$11,999	55,178	41.22
\$12,000 +	50,253	37.54
	· •	100.00
total	133,850	100.00
anish Language:	0.54	10 55
under \$3,999	236	12.55
\$4,000 to \$5,999	204	10.85
\$6,000 to \$11,999	900	47.87
\$12,000 +	540	28.73
tota1	1,880	100.00
ack:		
under \$3,999	1,288	26.07
\$4,000 to \$5,999	824	16.68
\$6,000 to \$11,999	1,866	37.76
\$12,000+	963	19.49
total	4,941	100.00
her:	L	100.00
under \$3,999	388	17.38
\$4,000 to \$5,999	233	10.43
φτ,000 το φ3,333 ¢6 000 το \$11 000	910	40.48
\$6,000 to \$11,999	1	
\$12,000+	708	31.71
to ta l	2,237	100.00

Table 41. Income and Poverty Data for Racial Groups, Multnomah County, 1970

Tab	1e	41,	con
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nt. Income and Poverty Data for Racial Groups, Multnomah County, 1970

Item	Number	Percent
Income below poverty level (bp1)		
Families bpl		
A11 races	10,773	100.00
Caucasian	9,153	84.96
Spanish language	233	2.16
Black	1,099	10.21
Other	288	2.67
Persons in families bpl	37,136	
Unrelated individuals bp1		
Under 65	13,214	
65 and over	11,208	
Male family head, 14-64 years, bp1		
Employed	2,608	
Unemployed	448	
Not in labor force	1,293	
Female family heads bpl in labor		
force with children below 6 years.	822	
Income source of families and		
unrelated individuals bp1		
Earnings	14,765	
Social security or railroad		
retirement	14,496	
Public assistance or welfare	5,773	

1/ 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, Corvallis, Oregon, 1972.

Education

In addition to the public grade schools and high schools listed in the table below, there are a number of private colleges and schools of higher education, one state university and two community colleges located within the county as well as one publically financed medical school.

	Table 42.	Formal	Education	Facilities,	Multnomah	County,	1969-70	and 1	1971
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School District, Type School and Number of Each Type Bonneville School District #46	1969-70		High School
Ronneville School District #46	1505470	1971	Graduates, 197
Elementary - 1	50	44	
Corbett School District #39			
Elementary - 2	363	395	
High School - 1	185	185	40
David Douglas School District #40			
Elementary - 13	6,591	6,213	ч С
High School - 1	3,093	3,092	672
Gresham School District #4	-,	-,	
Elementary - 5	1,927	2,781	
Gresham Union High #2J		-,	
High School - 3	3,997	4,495	929
Lynch School District #28	.,	,,	
Elementary - 7	3,830	3,787	
Drient School District #6J	0,000	0,.07	
Elementary - 2	673	711	
Parkrose School District #3			and the second second
Elementary - 7	2,763	2,630	
Junior high - 2	1,462	1,483	
High School - 1	1,369	1,439	417
Portland School District #1J		,	
Elementary - 102	50,789	48,676	
High School - 15	23,919	23,442	5,275
Reynolds School District #7		- /	
Elementary - 5	1,744	1,830	
Junior high - 1	586	580	
High School - 2	1,038	1,203	280
Riverdale School District #51J			
Elementary - 2	317	274	
Rockwood School Disrict #27			
Elementary - 5	2,114	2,146	
Sauvies Island School District #19			
Elementary - 1	98	91	
County totals			
Elementary - 174	71,629	69,578	
Junior high - 3	2,048	2,063	
High School - 24	33,601	33,856	7,613

1/ Average daily membership.

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

District	White	Black	American Indian	Spanish Surname	0ther <u>1</u> /	Total
· · · · · · · · · · · · · · · · · · ·		I	number of s	tudents -		
Bonneville	42	_	-	-		42
Corbett	551	1	4	4	6	566
David Douglas	8,580	46	43	51	135	8,855
Gresham	3,051	11	4	19	47	3,132
Gresham (UHS) 2/	4,538	8	12	12	52	4,622
Lynch	3,599	14	19	19	50	3,701
Orient	703	1	3	4	10	721
Parkrose	5,137	53	14	31	73	5,308
Pleasant Valley	386	4	-	-	1	391
Portland District #1	62,471	7,056	426	724	1,066	71,743
Reynolds	3,635	13	5	29	56	3,738
Riverdale	257	1	-	-	8	266
Rockwood	2,063	1	16	35	21	2,136
Sauvies Island	101	_	-	-	· _	101
Tota1	95,114	7,209	546	928	1,525	105,322

Table 43. Racial and Ethnic Distribution of Public School Enrollment by School District, Multnomah County, 1972

 $\overline{2}$ / Incomplete.

SOURCE: Compiled from Oregon Board of Education reports by Oregon State Extension Service.

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

Education		Number Males	Number Females	Total	Percent
Total, 25 years	and over	149,503	171,127	320,630	100.00
No school yea	rs completed	1,240	1,455	2,695	.84
Elementary:	1-4 years	2,856	2,274	5,130	1.59
	5-7 years	9,867	8,607	18,474	5.76
	8 years	19,672	20,182	39,854	12.42
High School:	1-3 years	26,750	32,229	58,979	18.39
	4 years	44,227	67,020	111,247	34.69
College:	1-3 years	22,181	23,695	45,876	14.30
-	4 yrs. or more	22,710	15,665	38,375	11.96
Median school y	ears completed.	12.3	12.3	12.3	

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

Institution	Number Enrolle	ed
Total enrolled	17,457	••••••••••••••••••••••••••••••••••••••
Eastern Oregon College	59	
Oregon College of Education	332	
Oregon State University	2,373	
Portland State University	9,112	
Southern Oregon College	283	
University of Oregon	2,387	
Oregon Technical Institute	99	
University of Oregon Dental School	131	
University of Oregon Medical School.	365	
Total in private and independent		
institutions	2,316	

Table 45. Multnomah County Residents Enrolled in Higher Education Institutions, Fall 1971

SOURCE: Oregon Educational Coordinating Council, Post Secondary Enrollment in Oregon, An Analysis of the Statewide Student Enrollment Data Survey, 1972.

Table 46. Youth Organizations, Multnomah (
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Organization	Membership		
Boy Scouts	15,603		
Camp Fire Girls	7,285		
4-H	2,278		
Future Farmers	96		
Girl Scouts	3,087		
Junior Achievement	785 1/		
YMCA	15,566 2/		
EFNEP	1,270		

1/ Includes members 8 - 18 years of age.

 $\overline{2}$ / Multnomah and Clackamas Counties combined.

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

Although Multnomah County operates no correction 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 betweeen the ages of 12 and 21. Table 47. Felonies and Juvenile Delinquency, Multnomah County, 1968

Subject	Number	
Commitments to felony and correctional institutions, 1967-68		
Total committments	456	
Oregon State Peniteniary	172	
Oregon State Correctional Institution	152	
MacLaren (boys' training school) 1/	97	
Hillcrest (girls' training school) 1/	35	
Juvenile court cases, 1968		
A11 cases	13,971	
Delinquency	5,778	
Traffic	6,612	
Other	1,581	

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

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

Health and Vital Statistics

Multnomah County has more health facilities and medical personnel per person than any other county in Oregon. There are 16 hospitals in the county, all but one located in the major population center of the state, Portland.

The following tables give additional information on health problems in the county, medical personnel available, and facilities available in the county.

	Number of	Facilities	Number	of Beds
Category and Community	Existing	Needed	Existing	Needed
General Hospital				
Gresham	1	1	58	58
Portland	15	15	3,149	3,095
ong-term Care Facilities				
Gresham	1	1	64	64
Portland	4	° 4	370	370
Troutdale	1	1	21	21
Gresham	5	5	331	361
Portland	34	34	2,495	2,595
Troutdale	2	2	377	377
iagnostic and treatment centers				
Gresham	1	·· 1		
Portland	15	15		

Table 48. Existing Medical Facilities, Number of Existing Beds, and Numberof Beds Needed, Multnomah County, 1971

1/ Mental Facilities: the state plan of the Mental Health Division is made a part of this plan by reference. Tuberculosis Hospitals: 1 existing, one needed.

Rehabilitation Facilities: 6 existing and 6 needed.

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 49. Number of Licensed Medical Personnel and Ratio of Population Per Professional, Multnomah County, 1969

	Multn	State	
Profession	Number	Ratio 1/	Ratio <u>1</u> /
Medical doctors and doctors of			· · · · · · ·
osteopathy	1,343	417	770
Dentists	575	973	1,470
Registered nurses	3,367	166	276
Licensed practical nurses	921	607	1,002
Pharmacists	419	1,335	1,375

1/ Ratio figure equals population per professional in particular category. SOURCE: Oregon State Executive Department, Program Planning Division, District Facts, 1970.

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

ess Kaiser Hospital, Portland4ity of Roses Hospital, Portland5manuel Hospital, Portland5ood Samaritan Hospital, Portland5oultaday Park Hospital, Portland5ultnomah Hospital, Portland5hysicians and Surgeons Hospital,7Portland7ortland Adventist Hospital,7Portland7ortland Osteopathic Hospital,7Portland7rovidence Hospital, Portland7of 0. Dental School, Portland7. of 0. Medical School, Portland11. of 0. Tuberculosis Hospital,7Portland7oodland Park Hospital, Portland7/ Service Code, 1964 data.8. GancerN. OpfC. Dental9B. CancerN. OpfC. Dental9Mental HygieneP. RadE. OrthopedicQ. MedF. TuberculosisR. MusG. PhysiotherapyS. NeuH. X-RayT. ObsI. Clinical LaboratoryU. WelJ. CardiovascularV. Ped	tient Visits ing Year	Services <u>1/</u>
ess Kaiser Hospital, Portland 44 ity of Roses Hospital, Portland 7 ood Samaritan Hospital, Portland 7 ood Samaritan Hospital, Portland 7 ootladay Park Hospital, Portland 7 hysicians and Surgeons Hospital, 7 Portland 7 oortland Adventist Hospital, 7 Portland 7 ortland Osteopathic Hospital, 7 Portland 7 ortland Osteopathic Hospital, 7 Portland 7 ortland Osteopathic Hospital, 7 Portland 7 noridence Hospital, Portland 7 of O. Dental School, Portland 7 of O. Tuberculosis Hospital, 7 Portland 7 oodland Park Hospital, Portland 7 / Service Code, 1964 data. A. General M. Ele B. Cancer N. Opp C. Dental Hygiene P. Rad E. Orthopedic Q. Med F. Tuberculosis R. Mus G. Physiotherapy S. Net H. X-Ray T. Obs I. Clinical Laboratory U. Wel J. Cardiovascular V. Pee K. Arebrovascular W. Urc L. Electrocardiogram	10,823	A,H,I
<pre>ity of Roses Hospital, Portland manuel Hospital, Portland ood Samaritan Hospital, Portland ultnomah Hospital, Portland hysicians and Surgeons Hospital, Portland ortland Adventist Hospital, Portland ortland Osteopathic Hospital, Portland rovidence Hospital, Portland of 0. Dental School, Portland of 0. Tuberculosis Hospital, Portland oodland Park Hospital, Portland / Service Code, 1964 data. A. General B. Cancer C. Dental Hygiene E. Orthopedic F. Tuberculosis C. Physiotherapy H. X-Ray L. Clinical Laboratory U. Wel J. Cardiovascular V. Pee K. Arebrovascular V. Pee</pre>	44,280	A,B,E,H,I
<pre>manuel Hospital, Portland</pre>	1,825	A,H,I
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solicity of the of the of the second	y Planning and	d Construction
Section, Oregon State Plan for Construction a		
Public Health Centers and Medical Facilities		

Table 51. Percent of Occupancy of Existing Medical Facilities, 1969

Name of Facility	Location	Total Capacity	Percent of Occupancy
Conoral Hernital		I	1
General Hospital Gresham General	Gresham	CO 1/	70
	Portland	$\frac{58}{239} \frac{1}{2}$	68
Bess Kaiser Memorial			
City of Roses	Portland	$\frac{21}{1/2}$	82
Emanuel	Portland	436	89
Good Samaritan	Portland	492 <u>2/</u>	82
Holladay Park	Portland	135	80
Medical Center	Portland	53	66
Multnomah	Portland	300	82
Physicians and Surgeons	Port1and	160	77
Portland Adventist	Portland	276	74
Portland Osteopathic	Portland	103	69
Providence	Portland	400 1/ 3/	93
St. Vincents	Port1and	420 4/	66
Shriners	Portland	80 -	78
U. of O. Medical School	Portland	241	72
Wemme Memorial Hospital	Portland	13	34
Woodland Park	Portland	130	30
	FULLANG	130	50
Long-term Care Facilities			
The Village Convalescent	Gresham	64	84
Hospital			
Belmont Convalescent Hospital	Portland	58	88
Colonial Manor Sanatorium	Portland	100	97
Crestview Convalescent Center	Portland	100	75
Park Royal Health	Portland	112	62
Edgefield Manor	Troutdale	21	91
City of Roses Hospital	Portland	41 5/	64
Emanuel Hospital	Portland	6/	6/
Providence Hospital	Portland	60 5/	31
Gresham General Hospital	Gresham	48 —	151
Nursing Homes			•
Colbert Nursing Home	Gresham	78	95
Echo Nursing Home	Gresham	46	100
Hood View Convalescent Center	Gresham	53	87
Id eal	Gresham	89	94
Mountain View Manor 7/	Gresham	22	97
Rest Harbor Sanatorium 7/	Gresham	65	98
Baptist Manor	Portland	94	50
Bell Rose Sanatorium	Portland	60	105 8/
Care Convalescent Home	Portland	51	96 <u>96</u>
Carolina Nursing Home	Portland	32	129 8/
Columbia Manor	Portland	96	94
Del's Convalescent Home	Portland	40	94
Durano-Gonzales	Portland	33	10
Easport Nursing Home	Portland	91	103
Sairlawn Nursing Home	Portland	89	97
Flanders St.Con. 7/	Portland	27	87
Gard Conv. 7/	Portland	25	39
Gaceway Care Center	Portland	97	73
Clenaire Convalescent Center.	Portland	95	88

Table 51, cont. Percent of Occupancy of Existing Medical Facilities, 1969

Name of Facility	Location	Total Capacity	Percent of Occupancy
Nursing Homes, cont.		-	• • • • • • • • • • • • • • • • • • •
Graystone Nursing Home	Portland	37	95
Hazelwood Nursing Home	Portland	122	98
Hillhaven Nursing Home	Portland	86	91
Hill View Manor 7/	Portland	26	108
Jallo's Nursing Home	Portland	62	101
Kearney Care Center	Portland	192	92
Lombard Nursing Home	Portland	31	76
McCarthy Nursing Home	Portland	75	94
Midway Nursing Home	Portland	40	102 8/
Mt. St. Joseph's	Portland	139	136 8/
Mt. Tabor Care Center	Portland	113	91
Odd Fellows Home 7/	Portland	20	58
Park View Nursing Home	Portland	120	68
Parkrose Nursing Home 7/	Portland	23	104 8/
Porthaven Nursing Home	Portland	76	100
Portland East Conv. Home	Portland	86	74
Portland Medical San <i>a</i> torium	Portland	32	100
Powellhurst Nursing Home	Portland [Variable]	75	93
Reedwood Convalescent	Portland	60	100
Regina Coeli 7/	Portland	6	77
Robison Jewish Home 7/	Portland	18	96
Rose City Nursing Home	Portland	34	99
Roselawn Nursing Home	Portland	63	81
Satterlund's Nursing Home 7/.	Portland	9	96
Selby Nursing Home	Portland	61	95
Sunshine Haven Nursing Home7/	Portland	14	97
Treadwell Nursing Home	Portland	87	100
Victoria Nursing Home	Portland	44	99
Wallway Nursing Home	Portland	37	96
Willamette Blvd. San atorium	Portland	45	99
Womans Convalescent Home 7/	Portland	20	67
Edgefield Manor Nursing Home.	Troutdale	281	93
Green Acres Nursing Home	Troutdale	96	92

Excludes long term care beds.

Phase III construction was completed in March, 1969, making total 492.

Includes potential of 24 beds in solariums.

 $\frac{1}{2}/\frac{3}{4}/\frac{1}{4}$ Replacement for St.Vincents is in Washington County. Percent occupancy is based on old facility.

Excludes acute care beds.

Eighty beds under construction under Hill-Burton project.

5/ 6/ 7/ These facilities do not have the skilled nursing care required by the State Plan in order to be classified as a long term care facility. Therefore, totals for areas do not include these beds.

Licensed capacity exceeds evaluation capacity resulting in a high percentage of 8/ occupancy.

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

	Multnomah	County	State	
Item	Number	Rate <u>1/</u>	Rate <u>1</u> /	
Morbidity	~~			
Tuberculosis	126	22.5	11.6	
Syphilis	59	10.5	5.3	
Gonorrhea	4,931	881.0	422.0	
Influenza	3,704	661.8	1,171.7	
Hepatitis	190 2/	34.2 2/	45.1 2/	
Measles (Rubella)	114 —	20.4	18.1	
Deaths from all causes	6,199	11.1 3/	9.4 3/	
Malignant neoplasms (cancer)	1,078	192.6	168.4 -	
Diabetes mellitus	75	13.4	13.3	
Heart diseases	2,351	420.0	349.6	
Cerebrovascular diseases	778	139.0	110.9	
Arteriosclerosis	126	22.5	21.2	
Other cardiovascular diseases	117	20.9	17.3	
Influenza and pneumonia	175	31.3	26.4	
Bronchitis, emphysema, asthma	168	30.0	26.9	
Peptic ulcer	24	4.3	4.3	
Cirrhosis of liver	186	33.2	15.8	
Congenital anomalies	55	9.8	8.2	
Certain infancy mortality causes	90	16.1	14.7	
All other diseases	530	94.7	76.9	
Accidents	277	49.5	61.3	
Suicides	105	18.8	14.9	
Homicides	19	3.4	3.8	

Table 52. Health Statistics, Multnomah County, 1970

1/ Rate per 100,000 population.

2/ 1966-68 average, taken from Office of the Governor Planning Section, <u>Health</u> Facts, 1969.

3/ Rate per 1,000 population.

SOURCE: Oregon State Department of Human Resources, State Health Division, Vital Statistics Section, Vital Statistics Annual Report, 1970.

Table 53. Number of Admissions to State Psychiatric Hospitals and Mental Health Clinics and Ratio per 100,000 Population, Multnomah County, 1968-69

	Multnoma	State	
Facility	Number	Ratio	Ratio
Psychiatrict hospitals Mental health clinics	1,084 2,414	194 431	134 460

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

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

		State			
Category	Number		Ra	te	Rate
	1967	1971	1967	1971	1971
A11 births 1/	8,895	8,352	16.0	14.9	15.6
A11 deaths $\overline{1}/\ldots\ldots\ldots$	6,285	6,199	11.3	6.5	9.4
Illegitimate births 2/.	1,255	997	141.1	119.4	78.1
Premature births 2/	652	548	73.3	65.6	57.4
Infant deaths 2/	191	180	21.5	21.6	18.4
Accidental deaths 3/	226	277	40.7	49.5	61.3

1/ Rates per 1,000 population.

 $\overline{2}$ / Rates per 1,000 live births

3/ Rate per 100,000 population.

SOURCE: Oregon State Department of Human Resources, State Health Division, Vital Statistics Section, Vital Statistics Annual Report, 1971; 1968 Statistical Report.

Public Welfare

Table 55. Average Monthly Public Welfare Payments by Type of Service, Multnomah County, Fiscal Years 1968-69 and 1971-72

Type of Service	Average Payment Per Case		
	1968-69	1971-72	
01d Age Assistance	\$ 60.32	\$ 62.62	
Aid to the Disabled	85.01	94.73	
Aid to the Blind	96.43	118.54	
General Assistance	68.74	74.17	
Aid to Dependent Children 1/			
UN 2/	38.96	50.73	
Basic 2/	43.91	52.05	

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.

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

Category	Cases	Average Payment
Cases receiving non-medical payments		
Old Age Assistance	2,448	\$ 64.47
Aid to the Blind	267	118.59
Aid to the Disabled	3,415	97.00
Aid to Dependent Children <u>1</u> /	30,047	50.69
General Assistance	1,305	72.09
Foster care Physicians services 1/	NA	NA
OAA	541	\$ 19.76
AB	63	21.90
AD	1,150	26.65
ADC	5,592	18.80
GA	580	19.70
FC	261	17.61
Hospital payments 1/		
OAA	68	\$227.69
AB	7	1,194.82
AD	139	821.44
ADC	531	423.56
GA	102	725.36
FC	13	497.54
Drug payments 1/		
OAA	1,878	\$ 18.88
AB	83	21.03
AD	1,538	20.81
ADC	2,964	6.70
GA	318	9.90
FC	121	7.93

NA - not available.

1/ Persons not cases.

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

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-and-out patient training for mentally deficient minors and adults.

Housing

	Multnomał	n County	State
Subject	Number units	Percent	Percent
Occupancy		•••••••	-+
All housing units	208,950	100.00	100.0
Seasonal or migratory	82	.03	1.3
Owner occupied	120,457	57.64	61.3
Renter occupied	79,134	37.87	31.5
Vacant year-round	9,277	4.43	5.9
Population in housing units per unit			
Owner occupied	2.7	_	-
Renter occupied	3.0	-	-
Persons per room			
All occupied units	199,591	100.00	100.0
1.00 or less	192,3 22	96.35	94.7
1.01-1.50	5,906	2.95	4.2
1.51 or more	1,363	.68	1.1
Facilities			
Lacking some or all			
plumbing facilities	7,993	3.8	3.6
Telephone available	182,385	91.4	89.5
Air conditioning	19,079	9.13	10.3
	- number -		- number
Median number of rooms	4.9		5.0
Median value 1/	\$15,200	·	\$11,300
Median gross rent 2/	\$110	-	\$ 107

Table 57. Housing Occupancy and Facilities, Multnomah 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.

	Port	land	Gres	ham
Subject	Number	Percent	Number	Percent
ccupancy			··· ••• ··· ··· ··· ··· ··· ··· ··· ···	
All year-round				
housing units	151,980	100.00	3,168	100.00
Owner occupied	81,841	53.84	1,995	62.97
Renter occupied	63,179	41.57	924	29.16
Vacant year-round	696	. 45	249	7.85
acilities				
Telephone available.	NA	NA	2,761	94.55
Air conditioning	473	7.2	231	
edian gross rent of renter occupied	\$91		\$150	

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

NA - not available.

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

Trade, both wholesale and retail, is the largest industry in Multnomah County as of 1970 and employs 23 percent of the employed. Government and private services rank second, then manufacturing, transportation, construction, furniture, lumber and wood products manufacture, agriculture and food and kindred products.

Wholesale and retail trade have had increases, probably due to the migration of population and better transportation systems.

Agriculture

Agriculture in Multnomah County is highly diversified. The temperate climate conditions and fertile valley soils are conducive to production of a multitude of agricultural products. Within the county is Portland, the population center of Oregon, offering ready markets for many of the farm products.

Agriculture in Multnomah County is affected by the pressures of the growing urban population, which has resulted in a shifting of agricultural land to other uses, higher taxes and inflated values on much of the remaining agricultural land, and more part-time farms. The expansion of the urban communities will undoubtedly continue to cause rapid changes in the agricultural sector of the economy.

Subject	1959	1964	1969
Approximate acres of land area	217,360	270,725	270,400
Proportion in farms	32.9	24.6	26.2
Total number of farms	1,104	918	623
Acres in farms	89,379	66,728	70,792
Average size of farms	81.0	72.7	113.6
Value of land and buildings	NA	NA	\$63,133,196
Average per farm	\$40,100	\$64,161	101,337
Average per acre	758.55	896.44	891.81

Table 59. Farm Size and Value, Multnomah County, 1959, 1964, and 1969

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

		Number			Percent			
Size	1959	1964	1969	1959	1964	1969		
Less than 10 acres	400	308	176	36.23	33.55	28.25		
10 to 49 acres	451	385	260	40.85	41.93	41.73		
50 to 69 acres	61	50	43	5.52	5.44	6.90		
100 to 139 acres	48	39	23	4.34	4.24	3.69		
140 to 179 acres	21	24	19	1.90	2.61	3.04		
180 to 219 acres	15	17	9	1.35	1.85	1.44		
220 to 259 acres	12	4	8	1.08	.43	1.28		
260 to 499 acres	32	32	26	2.89	3,48	4.17		
500 to 999 acres	6	2	8	.54	.21	1.28		
1,000 to 1,999 acres.	4	5	3	. 36	.54	.48		
2,000 acres or more	5	2	1	.45	.10	. 16		
Total farms	1,104	918	623	100.00	100.00	100.00		

Table 60. Number and Percent of Farms by Size, Multnomah County, 1959, 1964, and 1969

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

Tenure	1959	1964	1969
Full owners	NA	659	399
Part owners	198	181	143
Managers	10	-	
Tenants	66	72	81
Total operators	1,104	918	623

Table 61. Farm Operators by Tenure, Multnomah County, 1959, 1964, and 1969

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, <u>1972</u>. Table 62. Farms by Economic Class, Multnomah County, 1959, 1964 and 1969

		Number		Percent		
Economic Class	1959	1964	1969	1959	1964	1969
Commercial farms						
Class I (sales of \$40,000						
or more)	59	72	77	5.34	7.84	12.35
Class II (sales of \$20,000						
to \$39,999)	85	72	69	7.69	7.84	11.07
Class III (sales of \$10,000						
to \$19,999)	158	79	51	14.31	8.60	8.18
Class IV (sales of \$5,000						
to \$9,999)	131	83	67	11.86	9.04	10.75
Class V (sales of \$2,500						•
to \$4,999)	97	101	80	8.78	11.00	12.84
Class VI (sales of \$50 to						
\$2,499)	30	71	38	2.71	7.73	6.09
ther farms						
Part-time	395	307	210	35.77	33.44	33.70
Part-retirement	160	130	30	14.49	14.16	4.81
Abnormal	6	3	1	.54	. 32	.16
otal farms	1,104	918	623	100.00	100.00	100.00

Volume 1, Area Reports, Part 47, Oregon, U.S. Government Printing Office, Washington, D.C., 1967, 1972.

The income of farmers in the county contributes in several ways. It provides returns to farm labor inputs, sales of farm products provide for payment of land investment, and is used in other farm expenditures. The farms provide raw materials that contribute to transportation, processing, and other industries. Income from all crops, livestock, and livestock products was about 17.9 million dollars in 1970.

Income from crops amounted to 83 percent, and income from livestock amounted to 17 percent of the total income. Horticultural crops rank first with 45 percent of total agricultural income. Then comes vegetables fresh and for processing at 23 percent; all berries 9 percent; dairy products 8 percent; poultry products 3 percent; cattle and calves 3 percent; and all grains and hay seeds at 2 percent.

Subject	t	1959	1964	1969	
Average age (years)		53.3	53.4	51.6	
65 years and ove	er	227	202	89	
Years of school	completed				
Elementary:	0-4 years	NA	_	NA	
·	5-7 years	NA	61	NA	
	8 years	NA	177	NA	
High School:	1-3 years	NA	149	NA	
	4 years	NA	322	NA	
College:	1-3 years	NA	126	NA	
5	4 years or				
	more	NA	83	NA	

Table 63. Farm Operators by Age and Years of School Completed, Multnomah County, 1959, 1964.and 1969

NA - not available.

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

Table 64. Acres of Crops Harvested Multhomah County, 1969 and 1970

Crops Harvested	1969		1970 <u>1</u> /
Small grains			
Wheat	900		400
Oats	200		200
Barley	400		500
lay crops	6,250		5,700
egetables			
Potatoes	850		700
Sweet corn	500		400
Snap beans	1,200		1,000
Berries			. •
Strawberries	450	1	420
Blackberries	320		280
Raspberries	825		690
ree fruits, nuts, and			
grapes 1/	373		NA

1/ Preliminary figures.

NA - not available.

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

Product	1966	1967	1968	1969	1970 2/
		· t	housand do	11ars	
All crops, livestock and livestock products	16,692	17,575	16,750	18,139	17,981
<pre>A11 crops A11 grain, hay and seeds A11 seed crops A11 grain and hay A11 hay A11 grains A11 grains Barley Barley Vegetables, fresh and for processing A11 berries Strawberries A11 tree fruits and nuts Specialty field crops Specialty horticultural</pre>	13,535 273 3 270 204 66 47 9 3,981 2,034 NA 64 -	14,488 248 6 242 162 80 56 16 4,129 1,706 NA 59 -	13,640 193 - 193 127 66 48 10 3,767 1,542 382 66 -	14,925 187 10 177 106 71 52 12 3,691 2,043 366 117 -	14,810 167 15 152 103 49 29 13 3,800 1,562 385 177 3
crops All potatoes	6,800 370	8,004 321	7,727 330	8,407 460	8,772 309
All livestock and live- stock products Dairy products Poultry products Cattle and calves Sheep and lambs Hogs	3,157 1,309 283 678 19 231	3,087 1,474 261 642 21 221	3,110 1,485 267 739 23 195	3,214 1,503 306 721 22 202	3,171 1,562 265 770 25 181

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

NA - not available.

1/ Crop year includes quantities sold or held for sale.

 $\overline{2}$ / Preliminary figures.

SOURCE: Oregon State University Extension Service and USDA cooperating, "Oregon Commodity Data Sheets," Oregon State University, 1971-72.

Table 66. Livestock and Poultry Numbers, Multnomah County, 1950, 1960, 1969, and 1970

Category <u>1</u> /	1950	1960	1969	1970 <u>2</u> /
All cattle Dairy cattle Sheep and lambs Hogs Chickens Turkeys raised	10,800 6,100 700 2,800 NA NA	14,000 5,100 2,700 2,900 NA NA	11,500 2,800 1,000 2,200 67,000 200	11,000 2,600 1,100 NA 60,000

NA - not available.

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

 $\overline{2}$ / Preliminary figures.

SOURCE: Oregon State University Extension Service and USDA cooperating, "Oregon Commodity Data Sheets," Oregon State University, 1971-72.

Product Group	Number of Firms 1970	Employment 1970
Meat products	21	1,243
Dairy products	12	1,351
Canning and preserving fruits,		
vegetables and sea foods	21	477
Grain mill products	12	529
Bakery products	26	2,313
Confectionery and related		
products	8	160
Beverages	14	914
Miscellaneous food products	14	472

Table 67. Food and Kindred Products Manufacturing, Multnomah County, 1970

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

Logging and Wood Products

Table 68.	Lumber	and	Wood	Products	Manufa	acturing	Excluding	Furniture,
			Mu	l t nomah C	ounty,	1970		

	Number of Firms	Employment
Product Group	1970	1970
Logging camps and contractors	9	318
Sawmills, general	29	1,930
Special product sawmills	4	55
Millwork	18	642
Veneer and plywood	4	495
Prefabricated wooden buildings	9	8,383
Nailed and lock corner wooden boxes	6	444
Wire bound boxes and crates	1	75
Wood preserving	1	85
Packaging materials	3	633
Wood products, not elsewhere		
classified	13	124

SOURCE: Oregon State Executive Department, Economic Development Division, Directory of Oregon Manufactuerers, 1970

Logging and sawmill operations began in Multnomah County at the time of settlement. Lumber production exceeded timber harvest in the county until 1955; since then timber harvest has led slightly. The large cargo mills have closed, and lumber is now mainly produced by smaller more efficient mills. The number of plywood plants has increased greatly since 1950, and their resources are mostly from local timber.

Ownership	Production 2/	Percent of Total
Total timber harvest	52,910	100.00
Private 3/ Bureau of Land Management 4/	1,370	2.58
National forest 5/	51,5 31	97.41
State <u>3</u> /	- -	. – –

Table 69. Timber Harvest by Ownership, Multnomah County, 1970 1/

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

2/ Scribner log rule - thousand board feet.

3/ Compiled by State Forester.

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

5/ Compiled by U.S. Forest Service.

SOURCE: Wall, Brian R., "1970 Timber Harvest," U.S.D.A. Forest Service Resource Bulletin PNW-38, Pacific Northwest Forest and Range Experiment Station, 1971.

Table 70. Log Consumption in Thousand Board Feet by Species and Industry, Multnomah County, 1968 1/

		Type of Industry	
Species	Sawmi11s	Veneer and Plywood	Shake and Shingle
All species	97,810	113,000	NA
Douglas-fir	44,686	77,045	11
Hemlock	24,829	25,606	11
True firs	1,323	1,068	11,
Spruce	396	6,138	11
Pine	17,280	-	11
Other softwoods	2,296	3,143	11
Hardwoods	7,000	-	11

1/ Scribner log rule

NA - not available.

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

> Table 71. Installed 8-hour Capacity of Wood-Using Industries, Multnomah County, 1968

Industry	Capacity
Sawmill-lumber 1/	412
Veneer and plywood 2/	360
Pulp and board mills 3/	and a state of the
1/ Scribner log rule - board feet. $\overline{2}$ / Square feet, 3/8 inch basis, w $\overline{3}$ / 24 hour capacity in tons.	
SOURCE: Manock, Eugene, R., Grover	A. Choate, and Donald R. Gedney, Oregon
	Vood Consumption and Mill Characteristics,
Oregon State Dept. of Fore	estry jointly with U.S. Forest Service, 1968.
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Manufacturing

Item	Value Added	Percent of Total
	millions of dollar	Ś
All manufacturing	650.8	100.00
Food and kindred products	120.3	18.48
Meat products	9.4	1.44
Canned, cured, frozen foods	8.6	1.32
Apparel, textile products	19.7	3.02
Lumber, wood products	45.6	7.00
Millwork, plywood, related		A A A
products Furniture and fixtures	28.9	4.44
	18.7	2.87
Paper and allied products	15.2	2.33
Printing and publishing	43.1	6.62
Commercial printing	15.7	2.41
Chemicals and allied products	36.2	5.56
Stone, clay and glass products Concrete, gypsum, plaster	20.5	3.14
products	8.7	.13
Fabricated metal products	51.5	7.19
Fabricated structural metal		
products	28.8	4.42
Machinery, except electrical	68.9	10.58
Misc. machinery exc. electrical	7.9	1.21
Electrical equipment and supplies	15.4	2.36
Transportation equipment	88.4	13.58
Misc. manufacturing industries	8.8	1.35
Misc. manufactures	5.6	.86

Table 72. Value Added by Major Manufacturing Industries, Multhomah County, 1967

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 73.	Manufacturing,	Other than	Lumber and W	ood Products; Food and
Kindred P	roducts and Min	neral, Metal,	, and Related	Products Manufacturing,
		Multnomah Co	ounty, 1970	

	Number of Firms	Employment
Product Group	1970	1970
Ordnance and accessories	1	20
Textile mill products	16	2,756
Apparel and other products from		
fabrics	63	2,990
Furniture and fixtures	61	2,608
Paper and allied products	20	1,121
Printing, publishing and allied		
industries	182	3,738
Chemicals and allied products	75	1,731
Petroleum refining and related		
industries	11	424
Rubber and misc. plastic products	30	810
Leather and leather products	11	123
Machinery, exc. electrical	183	7,469
Electrical machinery	45	1,770
Transportation equipment	69	4,814
Professional, scientific controlling	· · · · · · · · · · · · · · · · · · ·	
instruments	28	1,077
Miscellaneous manufacturing	59	478

Directory of Oregon Manufacturers, 1970.

Mining

Sand and gravel, lime, stone, and clays are the minerals of greatest economic value in the county. Their value to the total economy and their production depends largely on construction activity in Multnomah and neighboring counties.

Table 74. Value of Mineral Production, Multnomah County

Year	Value	Minerals Produced in Order of Value
1963	\$5,043,000	Sand and gravel, lime, stone, clays
1965	5,198,000	Sand and gravel, lime, stone, clays
1967	6,748,000	Sand and gravel, lime, stone, clays
1970	7,402,000	Sand and gravel, lime, stone, clays

Oregon.

	Number of Firms	Employment
Product Group	1970	1970
Glass and glassware, pressed or blown	1	400
Glass products of purchased glass	3	22
Structural clay products	1	45
Pottery and related products	2	26
Concrete gypsum and plaster products	25	551
Cut stone and stone products	2	19
Abrasive, asbestos and misc. non-metallic		
products	19	433
Blast furnaces, steelworks and finishing		
mills	3	770
Iron and steel foundries	8	2,018
Primary smelting and refining (non-		
ferrous)	3	946
Rolling, drawing, extruding non-ferrous		
metals	1	3
Non-ferrous foundries	4	789
Aisc. primary metal industries	6	240
Metal cans	2	292
Cutlery, hand tools, hardware	9	2,041
leating apparatus and plumbing fixtures	8	109
Fabricated structural metal products	78	4,191
Screw machine products, bolts, rivets,		
washers	3	99
Metal stampings	13	127
Coating, engraving and allied services	24	346
Aisc. fabricated wire products	6	155
Misc. fabricated metal products	23	671

Table 75. Mineral, Metal and Related Manufacturing, Multnomah County, 1970

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

Outdoor Recreation

Outdoor recreation has been an important part of the lives of Multnomah County residents for years. Recently, increased urbanization of the county has caused more people to seek the out-of-doors to "get away from it all" through camping, picnicking, wilderness travel, sightseeing, 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.

Popular activities include sight-seeing, hiking, picnicking, swimming, fishing, hunting, boating, water skiing, and skin and scuba diving.

The Willamette and Columbia Rivers are used for a variety of recreational activities, but pollution has tended to limit the attractiveness of the main stem of the Willamette. The lakes and streams in the county are visited by fishermen, campers, and sight-seers. The developed public recreational facilities in Multnomah County consist of a National Forest and Bureau of Land Management recreational areas, state parks, county parks, and city parks.

The camps range in size from 1 to 59 family units. The facilities available range from primitive to piped water, shelters, bathtubs, and flush toilets although all these refinements may not necessarily be found in one forest camp.

Ownership and Name	Facilities and Activities $\underline{1}/$
State Parks	
Lewis and Clark	TC, TS, PS, St, BR, F, H, S, Sw
Rooster Rock	PS, St, BR, BH, C, GP, BD, F, S, V, Sw
Benson	PS, BR, BH, GP, F, L, V, Sw
Sheppards Dell	T, G, S, V, W
Guy W. Talbot	PS, St, T, S, N, V, W
Crown Point	C, V
Dabney	TĆ, TS, PS, St, Bh, F, S, Sw
Portland Womens Forum	V
Ainsworth	TC, TS, PS, St, UB, T, DS, V
John B. Yeon	T, S, V, W
County Parks	
Blue Lake	PS, St, BH, C, GP, PA, T, F, L, Sw
Oxbow	TS, TC, PS, St, BR, GP, T, F, S, V
	15, 16, 15, 50, 5K, 6r, 1, 1, 5, V
U.S. Forest Service Parks	
Multnomah Falls	C, T, S, V, W
Wahkeenah Falls	PS, T, St, F, S, V, W
Larch Mountain	PS, St, T, V
1/ Facilities and Activities code:	
TC - tent camping	T - trails
TS - trailer sites	UB - utility building
PS - picnic sites	F - fishing
ST - stoves, wood or electric	G - geology
BR – boat ramp	H – history
Bh - bath house	L,S - lake, stream
BD - boat dock	N - nature study
C - concession	R - rockhounding
GC - group camp	V - scenic views
GP - group picnic	Sw - swimming
DS - trailer dumping station	W - water falls
SOURCE: Oregon State Highway Division,	, Travel Information Section, <u>1972</u>
Oregon Parks.	

Table 76. Multnomah County Park and Recreation Facilities, 1972

	Attendance				
Park and Use	1968-69	1969-70	1970-71	1971-72	
Day Visitor Attendance		······			
Lewis and Clark	203,653	397,502	356,228	249,456	
Rooster Rock	391,648	606,012	506,838	504,644	
Benson	131,876	126,134	125,525	160,094	
Guy W. Talbot	205,212	259,966	238,599	269,041	
Crown Point	449,868	537,252	628,973	1,022,068	
Dabney	326,844	394,564	368,744	509,964	
Overnight Attendance					
Ainsworth	12,436	14,712	14,960	15,429	
Dabney	8,643	8,851	8,715	6,245	
Lewis and Clark	7,231	8,624	8,135	10,892	

Table 77. Attendance at State Parks in Multnomah County

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 recreational activity available in the county. However, because of the increasingly urban nature of the county, most of the hunters in the county go outside the county to hunt.

	Hunt	ers	Harv	est	Davas
Game	Number	Percent of State Total	Number	Percent of State Total	Days Hunted
 Ducks	3,500	6.27	46,380	8.15	23,700
Geese	830	2.95	1,490	2.34	6,270
Pheasant	2,323	3.22	5,575	2.29	10,081
Quail Blue & ruffed	332	1.27	666	.42	1,198
grouse Band-tailed	136	1.76	364	2.16	419
pigeon	448	3.61	1,949	1.61	1,364
Mourning dove.	350	2.14	2,578	1.31	1,496

Table 78. Multnomah County Game Harvest

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

Business

Businesses are the most important aspect of Multnomah County's economy and will probably continue to be so because of the urbanization of the county. The following tables give detailed data on wholesale trade, retail trade, and services in the county.

Table 79. Retail Trade, Multnomah County, 1967

Kind of Business	Establishments	Paid <u>1</u> / Employees	Sales
	number	- number -	\$1,000
Retail trade, total	4,874	37,114	1,161,226
Lumber, building materials, hardware,			
farm equipment dealers Total Lumber and building materials	168	705	28,796
dealers	99	487	19,44(
Hardware stores	57	146	6,080
Farm equipment dealers	12	72	3,276
General merchandise group stores			· · · ·
Tota1	112	8,606	262,294
Department stores	14	6,178	161,964
Limited price variety stores	46		
Miscellaneous general merchandise.	52	$\frac{2}{2}$	4
Food stores			-
Tota1	625	4,096	219,718
Grocery stores	442	3,546	204,938
Meat markets and fish stores	49	148	6,642
Fruit stores, vegetable markets	19		2,162
Candy, nut, confectionary stores	24	2/ 9 9	1,678
Retail bakeries	46		2,223
Other food stores	45	<u>2/</u> 67	2,075
Automotive dealers			2,073
Tota1	284	3,421	200,709
Motor vehicle dealers	142	2,672	170,131
Tire, battery, and accessory		2,072	170,101
dealers	84	487	14,381
Miscellaneous automotive dealers	58	262	16,197
Gasoline service stations		202	10,107
Tota1	637	2,066	71,931
Apparel, accessory stores	037	2,000	71,001
	232	2,103	57,446
Tota1 Ready-to-wear stores	63	938	21,670
Women's accessory and specialty	03	930	21,070
• • •	15	42	742
stores	145		33,926
Other apparel, accessory stores	145	1,092	55,920
Furniture, home furnishing, equipment stores			
	20 5	1 526	59 140
Total	295 89	1,526 534	58,140
Furniture stores		334	19,530
Household appliances	62 73		14,090
Radio, TV, music stores		377	16,351
Home furnishing stores	71	281	8,169
Eating, drinking places	1 110	0 577	107 (05
	1,112	9,537	103,627
Eating places	702	7,458	76,177
Drinking places (alocoholic bev.).	410	2,079	27,450
Drug stores, proprietary stores	176	054	07 755
Tota1	136	954	23,355
Drug stores	$\frac{3}{3}$	$\frac{2}{2}$	3
Proprietary stores	1 3/	$\overline{2}/$	

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Kind of Business	Establishments	Paid <u>1/</u> Employees	Sales
	number	- number -	\$1,000
Other retail stores			
Tota1	909	2,636	102,607
Liquor stores	47	316	29,478
Antique, secondhand stores	136	326	6,350
Cigar stores and stands	26	41	1,282
Sporting goods stores	48	188	5,083
Florists	61	206	3,933
Jewelry stores	78	248	9,575
Fuel, ice dealers	62	552	20,454
Other stores Nonstore retailers	451	759	26,452
Tota1	364	1,464	32,603
Mail order houses	15	940	14,308
Merchandising machine operator	44	2/	10,292
Direct selling establishments.	305	$\frac{2}{2}$	8,003

Table 79, cont. Retail Trade, Multnomah County, 1967

Excludes active proprietors of unincorporated businesses. 1/

Withheld to avoid disclosure.

 $\frac{\overline{2}}{\overline{3}}$ 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 Retail Trade: Oregon, BC 67 - RA 39, U.S. Government Printing Office, Washington, D.C., 1969.

Table 80. Wholesale Trade, Multnomah County, 1967

Kind of Business	Establishments	Paid <u>1</u> / Employees	Sales
	number	- number -	\$1,000
Wholesale trade, total	1,750	25,044	4,222,513
Motor vehicles and automotive equipment	199	2,632	369,439
Drugs, chemicals & allied products	78	1,171	133,102
Piece goods, notions, appare1	37	314	40,479
Groceries and related products	185	2,112	397,480
Farm products - raw materials	36	595	971,081
Electrical goods	120	1,767	263,031
Hardware, plumbing, heating equipment	106	1,387	120,218
Machinery, equipment and supplies	408	5,811	401,157
Metals and minerals	61	1,165	191,510
Petroleum and petroleum products	56	939	237,970
Scrap and waste materials	20	609	23,231
Tobacco and its products Beer, wine, and distilled alcoholic	8	<u>2/</u>	<u>2/</u>
beverages	18	233	23,005
Paper and its products	57	1,170	104,308
Furniture and home furnishings	51	654	57,596
Lumber and construction materials	125	2,411	679,604
Other kinds of wholesale business	185	<u>2/</u>	<u>2/</u>

 $\frac{1}{2}$ Excludes active proprietors of unincorporated businesses. $\frac{2}{2}$ Withheld to avoid disclosure.

SOURCE: U.S. Bureau of the Census, Census of Business, 1967 <u>Wholesale Trade:</u> Oregon, BC67-WA39, U.S. Government Printing Office, Washington, D.C., 1969.

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Kind of Business	Establishments	Receipts	Paid 1/ Employees
n and an and an and an	number	\$1,000	- number
Selected services, total	4,014	269,735	17,780
lotels, motels, tourist courts,			
camps, tota1	248	33,984	3,266
Hotels	119	20,735	2,178
Motels, motor hotels, tourist		,	
centers	94	11,594	1,017
Trailer parks, camps	28	1,472	65
Personal services, total	1,373	44,291	3,766
Laundries, laundry service, etc	323	21,559	1,926
Beauty shops	374	989	8,441
Barber shops	380	3,474	208
Photographic studios	95	2,944	165
Shoe repair, shine, and hat		2,544	105
cleaning shops	71	835	2/
Funeral service and crematories	27	5,091	$\frac{2}{2}$
	103	•	$16\frac{2}{5}$
Other personal services fiscellaneous business services,	105	1,947	105
	069	01 202	E 601
total	968	91,292	5,681
Advertising	116	24,132	408
Services to dwellings, buildings	190	6,420	937
Business, management consulting,	107	7 417	4.25
public relations	127	7,413	425
Other	535	53,327	3,911
uto repair, services, garages, total	528	56,735	2,355
Auto repair shops	342	24,488	1,264
Auto parking	101	5,715	375
Auto, truck renting, services	85	16,532	716
liscellaneous repair services, total.	540	20,635	1,011
Electrical repair shops	180	6,731	359
Reupholstery and furniture repair	86	1,683	83
Other repair shops and related			
services	274	12,221	569
lotion pictures, total	59	8,186	517
Motion picture theaters	34	4,866	2/
musement, recreation services,			
exc. motion pictures, total	298	14,612	1,184
Producers, orchestras, entertainers	133	1,617	240
Bowling, billiards, pool	26	2,569	229
Other commercial recreation and		-	
amusement services	139	10,426	715

Table 81. Selected Services, Multnomah County, 1967

Excludes active proprietors of unincorporated businesses. 1/

2/ Withheld to avoid disclosure. SOURCE: U.S. Bureau of the Census, Census of Business, 1967, <u>Selected Services</u>, 1969.

PUBLIC SERVICE

Transportation

Multnomah County has an excellent road and highway system. The major north-south routes are Interstate 5, U.S. 99W, U.S. 99E, Oregon 211, and Oregon 213. Routes east-west are Interstate 80, U.S. 30, U.S. 26, and Oregon 8. A good system of secondary roads has been developed, along with many access roads in the forest areas. Regularly scheduled bus and motor freight service is available to incorporated cities and towns in Multnomah County.

The County also has a good railroad system. Five major railroads are located here. They provide both freight and passenger service. The southern Pacific and Spokane, Portland, and Seattle Railways extend south of Portland which branches to serve many cities and towns. The Union Pacific serves in an eastwardly direction. The Great Northern and Northern Pacific enter Portland from the north and terminate in the city.

An international airport is located in Portland and serves as the major air passage center. Flights are available to major population centers in the U.S. and connecting flights are available to virtually anywhere in the world.

The Columbia and Willamette Rivers are used extensively by shallowdraft vessels, moving freight in barges and towing log rafts. Also, the rivers are navigated by ocean-going vessels carrying goods to Portland. In 1956, there were 1,600 ships that called, ranking Portland 11th in the nation for ships' arrivals and departures. In 1960, 5,796,000 short tons were imported to Portland, and 3,080,000 short tons were exported. The majority of the export was agricultural products.

Agency	Miles
Federal agency roads	117
State agency roads	255
County and public usage roads 1/	991
City streets	1,356
Tota1	2,719

Table 82. Miles of Roadway in Multnomah County, 1972

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

SOURCE: Transportation Research Institute, Oregon State University, Functional Classification of Public Roads in Oregon, 1970.

Vehicle	Number of Vehicles			
Vehicle	1970	1971		
Passenger vehicles	331,481	329,017		
Buses	191	446		
Trucks	24,763	31,551		
All trailers	20,128	14,884		
Motorcycles	13,411	14,866		
Recreational 1/	15,742	18,513		
Snowmobiles	NA	303		
Total vehicles	405,716	409,580		

Table 83. Motor Vehicle Registration, Multnomah County, 1970 and 1971

NA - not available.

1/ Includes campers and travel trailers.

SOURCES: Oregon State Department of Transportation, Motor Vehicle 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 State Motor Vehicles Division.

Table 84. Number of Aircraft and Boats in Multnomah County, 1968

Subject	Number
Aircraft	260
Boats	17,776

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

Communication

Multnomah County is served by 25 radio stations and five television stations. Telephone service is provided by Pacific Northwest Bell Company and telegraph service by Western Union.

Multnomah County has nine newspapers that serve the surrounding area. The <u>Oregonian</u> and <u>Oregon Journal</u> are distributed throughout the Willamette Valley area, also.

Table 85. Communication Facilities, Multnomah County

Type Service	Location	Network Affiliation
Radio		
KRDR	Gresham	_
KEX	Portland	
		NDC
KGW	11	NBC
KINK - FM	11	-
KISN		-
KJIB - FM	11	-
KLIQ	11	ABC
KLIQ - FM	11	ABC
ККЕҮ	n (la construction de la constru	-
KOIN	11	CBS
KOIN - FM	11	CBS
КРАМ	TT	· · · ·
KPAM - FM	11	. –
KPDQ	11	-
KPDQ - FM	11	-
КРОК	11	MBS
KPOK - FM	11	MDS
	"	
KQEM		-
KWJJ	1	ABC
KXL	the second s	ABC
KXL – FM	11	ABC
КВОО	11	
Felevision - Commercial		
KATU - TV	Portland	ABC
KGW – TV	11	NBC
KOIN - TV	TT	CBS
KPTV		-
<u> Felevision - Educational</u>		
KOAP - TV	Portland	NET
Radio - Educational		
KBPS - AM	Port land	NER/NPR
KOAP – FM		NER/NPR
KRRC - FM	tt.	NER/ NF K
Radio - Campus limited		T G D G
KDUP	Univ. of Portland	ICBS
KLC	Lewis & Clark College	ICBS
крсс	Portland Comm. College,	
	Mt. Hood Comm. College	
Newspapers		Days Published
Outlook	Gresham	Thursday
Daily Journal of Commerce	Port1and	
		Daily exc. Sunday
Daily Shipping News		Daily exc.Sat & Su
Oregon Journal		Daily exc. Sunday
Oregonian		Daily
The Press	11	Thursday

Table 85, cont. Communication Facilities, Multnomah County

Newspapers, cont.PortlandThursdaySt. John's ReviewPortlandThursdaySellwood - Moreland Bee"ThursdayOregon Labor Press"FridayTelephone ServiceCorbettColumbia Telephone CoCorbettGeneral Telephone of theGreshamNorthwestPortland	Type Service	Location	Network Affiliation
Sellwood - Moreland Bee"ThursdayOregon Labor Press"FridayTelephone Service Columbia Telephone CoCorbettGeneral Telephone of the NorthwestGresham			
Oregon Labor Press"FridayTelephone Service Columbia Telephone CoCorbettGeneral Telephone of the NorthwestGresham	St. John's Review	Portland	•
Telephone Service Columbia Telephone Co Corbett General Telephone of the Gresham	Sellwood - Moreland Bee	*1	Thursday
Columbia Telephone CoCorbettGeneral Telephone of the NorthwestGresham	Oregon Labor Press	11	Friday
General Telephone of the Northwest Gresham			
Northwest Gresham		Corbett	
	General Telephone of the		
Pacific Northwest Bell Portland	Northwest	Gresham	
	Pacific Northwest Bell	Portland [Variable]	
	Stations for the State	of Oregon, 1972.	
Stations for the State of Oregon, 1972.			a Constanting of Chats

Oregon State Executive Department, Clay Myers, Secretary of State, Oregon Blue Book, 1973-74, January 1973. Pacific Northwest Bell, unpublished data.

Table 86. Residential Communication Facilities, Multnomah County 1960 and 1970

	Number of Housing Units				
Facilities	1960	1970			
Battery radio setsYesNo	166,565 11,861	149,541 50,029			
Telephone availableYesNo	158,804 19,692	182,385 17,206			
Television setsNoneOneTwo or more	23,877 134,838 19,711	11,948 125,635 61,987			
UHF equipped Yes No	NA NA	67,133 120,489			

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.

NA - not available.

Library Facilities

City	Volumes	Circu- lation	Circ./ Capita	Hrs. Open Per Week	Operating Expend.	Expend./ Capita
County total	951,263	3,355,134	6.0	-	\$2,552,105	\$4.60
Portland Hdqts.	NA	1,100,142	NA	68	NA	NA
1bina	11	23,917	11	59	11	11
rleta	11	58,691	11	39	11	11
Belmont	11	101,792	11	39	11	11
Brooklyn	11	21,740	11	34		**
regory Hts	11	133,017	11	51	11	**
resham	11	90,570	11	51	11	11
lollywood	11	218,042	11	5 9	11	**
ents	11	39,343	11	34	11	11
ombard	11	33,453	11	34	TT	**
idland	11	242,134	11	59	11	**
lontavilla	11	73,316	11	39	11	**
. Portland	11	84,647	11	51	11	11
ockwood	11	199,216	11	51	11	11
t. Johns,	11	38,458	**	34	11	.11
elwood	11	58,318	11	34	11	**
outhwest Hills	11	229,617	11	59	11	11
niversity Pk	11	41,780	11	34	11	11
ernon	11 .	37,066	11	28	.11	11
oodstock	11	201,310	11	51	.11	**

Table 87. Multnomah County Libraries, by City of Location, 1969-70

Utilities

Table 88. Housing Units by Water Supply and Sewage Disposal, Multnomah County, 1970

	Multn	Multnomah County		
Subject	Number	Percent 1/	Percent 1/	
Water source				
Public system or private company.	205,708	98.48	79.8	
Individual well	2,575	1.23	16.9	
Other or none	582	.27	3.3	
Sewage disposal				
Public sewer	154,985	74.20	61.0	
Septic tank or cesspool	53,127	25.43	37.5	
Other or none	753	. 36	1.5	

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.

	Port	land	Gresham	
Subject	Number	Percent	Number	Percent
Water source				
Public system or private				
company	151,512	99.78	3,072	96.96
Individual well	326	.22	80	2.52
Other	-	-	12	. 37
Sewage disposal				
Public sewer	138,495	91.21	2,781	87.78
Septic tank or cesspool	13,152	8.66	371	11.71
Other or none	191	. 37	12	. 37

Table 89. Housing Units by Water Supply and Sewage Disposal for Places with Over 2,500 Inhabitants, Multnomah County, 1970

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.

The majority of the housing units in Multnomah County use electricity and utility gas for power and fuel. The table below shows fuels used by households in 1970 for heating, water heating and cooking.

Table 90. Types of Fuels for Heating, Cooking, Number of Housing Units, Multnomah County, 1960 and 1970

Type of Fuels		Heating uel	Water Heating Fuel			Cooking Fuel	
	1960	1970	1960	1970	1960	1970	
Utility gas		52,196	29,932	32,370	32,545	25,173	
Fuel oil, kerosene, etc. Coal or coke	123,170	102,346 365	19,532 402	12,407 182	409 382	1,086 18	
Wood	NA	1,024	NA	220	NA	366	
Electricity		39,147	121,817	151,380	137,301	169,251	
Bottled, tank, or LP gas Other fuel		1,552 2,827	2,733	1,206 936	4,084 1,912	1,634 254	
None	185	113	1,720	869	1,793	1,788	
All housing units	178,496	208,901	178,496	208,901	178,496	208,901	

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

Table 91. Electric Power Generating Plants in Multnomah County

Ownership	City	Туре <u>1</u> /	Kilowatts Existing
U. of Oregon Medical			· · ·
Schoo1	Port1and	IC, S	440
Pacific Power and			
Light - Lincoln	Portland	S	35,500
Portland General Elec-			-
tric			
Portland L	Portland	S	75,500
Trojan	Prescott	N	1,105,000 2/

N - nuclear

2/ Under construction.

SOURCE: U.S. Department of the Interior, BPA - Branch of Power Resources, Electric Power Plants in the Pacific Northwest and Adjacent Areas, December 31, 1969.

PUBLIC FINANCE

	Mu	ltnomah County	State	
Itom	Tota1	Per Capita	Per Capita	
Item	Amount	Amount	Amount	
	\$1,000	do1	1ars	
General revenue, exc. interlocal	\$178,766	\$334.20	\$308	
Intergovernmental revenue	39,982	74.75	97	
From state government	36,865	68.92	83	
From local sources	138,783	259.46	210	
Taxes	101,899	190.50	156	
Property	95,912	179.31	151	
Other	5,987	11.19	5	
Charges and miscellaneous	36,884	68.96	54	
		and the second second second second		
Direct general expenditure	178,602	333.90	316	
Capital outlay	33,579	62.78	62	
0ther	145,023	271.12	254	
Education	80,809	151.07	180	
Other than capital outlay	73,227	136.90	152	
Highways	9,238	17.27	30	
Other than capital outlay	6 , 416	12.00	20	
Public welfare	1,232	2.30	2	
Hospitals	3,873	7.24	6	
Other than capital outlay	3,864	7.22	· · · ·	
Health	3,105	5.80	4	
Police protection	11,216	20.97	12	
Sewerage	4,485	8.39	8	
Other than capital outlay	1,225	2.29	3	
Sanitation other than sewerage	1,233	2.31	2	
Parks and recreation	12,453	23.28	10	
Natural resources	709	1.32	4	
Housing and urban renewal	4,522	8.45	4	
Correction	1,641	3.07	2	
Libraries	2,090	3.91	3	
Financial administration	3,372	6.30	5	
General control	4,050	7.57	8	
General public buildings	1,021	1.91	3	
Interest on general debt	2,344	4.38	6	
Other and unallocable	22,313	41.71	21	
Water supply revenue	8,843	16.53	12	
Water supply revenue	8,073	15.09	12	
	-			
General debt outstanding	85,359	159.58	214	
Long-term	73,589	137.57	203	
Local schools	20,185	37.74	101	
Other	53,403	99.84	101	

Table 92.	Selected Item	s of Loca	al Government	Finances,
	Multnomah	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.

Table 93.	City Valuation,	Tax Rates a	d Taxes 1	Extended	in Multnomah	County
		for 1971-72	iscal Yea	ar		

Item	Port1and	Gresham	Troutdale
Population	383,934	12,388	1,475
True Cash Value (TCV)	\$3,659,101,319	\$98,820,051	\$6,451,594
Per capita TCV	9,531	7,977	4,374
City tax	30,846,224	266,814	45,290
Consolidated tax	107,561,513	3,232,454	249,190
Per capita tax			
City	80	22	31
Consolidated	280	261	169
Percentage of total levy			
County	17.6	15.9	13.4
City	28.7	8.3	18.2
School	50.1	73.2	58.8
Other	3.6	2.7	9.6
verage rate/1000\$TCV	5.0	2. , /	9.0
basis	- 10	F 10	5 10
County	5.18	5.19	5.19
City	8.43	2.70	7.02
School	14.73	23.93	22.70
Other	1.06	.89	3.72
Tota1	29.40	32.71	38.62
Item	Maywood Park	Fairview	Wood Villa
Population	1,295	1,115	1,925
True Cash Value (TCV)	\$7,305,838	\$4,822,046	\$8,933,449
Per capita TCV	5,642	4,325	4,641
City tax	5,042	14,466	11,345
Consolidated tax	240,873	165,978	292,815
Per capita tax	240,873		
City	-	13	6
Consolidated	186	149	152
Percentage of total levy			
County	15.7	15.1	15.8
City	.0	8.7	3.9
School	71.1	65.5	68.8
	13.2	10.7	11.5
Other	13.2	10.7	11.5
verage rate/1000\$TCV basis			
County	5.19	5.19	5.19
City	.00	3.00	1.27
Schoo1	23.44	22.55	22.55
Other	4.34	3.68	3.77
	32.94	34.42	32.78
Tota1	52.94	54.44	52.70

Tax Collections, Research and Special Services Division, 1972.

Table 94. Summary of 1971-72 Property Tax Levies and Assessments, Multnomah County

Item	Amount in Dollars
Levies	
County	\$26,304,583
Cities	31,126,226
Community colleges	5,325,282
Elementary and secondary school districts	, ,
Intermediate county	24,197,069
Education joint	13,868
Elementary and unified	51,508,442
Union high	2,360,789
County unit	2,000,700
Total school districts	78,080,168
Special districts	78,000,100
Cemetery	3,467,516
Fire protection	5,407,510
Hospital	
Park and recreation	- - 207 460
Port	5,283,460
Road	• • • • • • • • • • • • • • • • • • •
Sanitary	-
Water supply	392,999
0ther	61,739
Total special districts	9,205,714
Total gross ad valorem levies	150,041,973
Special assessments	
Fire patro1	8,478
Forest fee	785
Diking and drainage	132,412
Irrigation	-
Lighting	301,167
Other	
Total special assessments	442,842
Total gross levies and assessments	150,484,815
Less property relief money	
Senior citizens	1,049,533
Game commission	11,920
Total net ad valorem levies	148,980,520
Net ad valorem taxes by class	
Real property	114,127,641
Personal property	22,128,090
Utility property	12,724,790
, reresting the second s	
SOURCE: Oregon State Department of Revenue, Su	mmary of Assessment and Tax

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

Table 95. Summary of Assessment Rolls for 1971-72 Fiscal Year Real Property, Personal Property and Utilities, Multnomah County

Item	Assessed Value	Percent of Total	
	\$1000		
lass			
eal property			
Lands inside corporate limits	\$920,137	18.01	
Lands outside corporate limits	314,811	6.16	
Improvements inside corporate limits	2,035,986	39.86	
Improvements outside corporate limits	736,155	14.41	
Timber (excludes land)	812	.01	
Less veterans exemptions	54,105	1.05	
Less senior citizens residence exemptions	33,595	.65	
axable real property	3,920,200	76.76	
ersonal property	709 057	7.79	
Merchandise and stock in trade	398,057		
Furniture, fixtures and equipment	93,246	1.82	
Farm machinery and equipment	1,476	.02	
Other machinery and equipment	247,698		
Livestock	771	.01 .36	
Miscellaneous	18,851		
Less veterans exemptions	463 416	$\frac{1}{1}$	
Less senior citizens residence exemptions		$14.8\frac{1}{6}$	
axable personal property	759,222	14.60	
otal taxable real and personal property	4,679,422	91.63	
tilities			
Airline companies	30,166	.59	
Electric companies	136,213	2.66	
Express companies	178	1/	
Gas companies	45,632	. 89	
Heating companies	1,755	.03	
Pipeline companies	3,010	.05	
Railroad companies	33,241	.65	
Tank and private car companies	1,478	.02	
Telegraph companies	3,750	.07	
Telephone companies	165,480	3.24	
Water companies	249	1/	
Water transportation companies	6,196	. 17	
axable utility property	427,348	8.36	
otal taxable real, personal and utility			
property	5,106,770	100.00	

E: Oregon State Department of Revenue, <u>Summary of Assessments and Tax</u> Rolls for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property <u>Tax Collections</u>, Research and Special Services Division, 1972.

Item	Total Amount	Amount Unpaid	Percent Unpaid
Property taxable		· · ·	· · · · · · · · · · · · · · · · · · ·
Rea1	\$103,826,963	\$9,134,910	8.8
Personal	22,256,621	1,880,162	8.4
Public utilities	11,827,406	409,404	3.5
Western Oregon additional			
timber tax	1,916	- .	
Yield tax	7,877	-	_
Other	294,740	NA	NA
Total for collection	138,215,523		

Table 96. Amount and Percent of Unpaid 1970-71 Property Tax, As of June 30, 1971, Multnomah County

NA - not available.

SOURCE: Oregon State Department of Revenue, <u>Summary of Assessment and Tax</u> Rolls for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property <u>Tax Collections</u>, Research and Special Services Division, 1972. 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 City Engineer County Extension County Surveyor Employment Division Game Commission Health Department Public Welfare Soil Conservation Service

- Bureau of Business and Economic Research, University 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
- 4. 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

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- 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
- 17. 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
- 19. Oregon State Health Division, Department of Human Resources, 1400 S.W. 5th, Portland, Oregon 97201
- 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
- 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)

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