

*Benton County, Oregon*

# RESOURCE ATLAS



- NATURAL
- HUMAN
- ECONOMIC
- PUBLIC

MARCH 1974

EXTENSION *Community Development* PROJECT

OREGON STATE UNIVERSITY

Benton County, Oregon

RESOURCE

ATLAS

NATURAL

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Oregon State University Extension Service

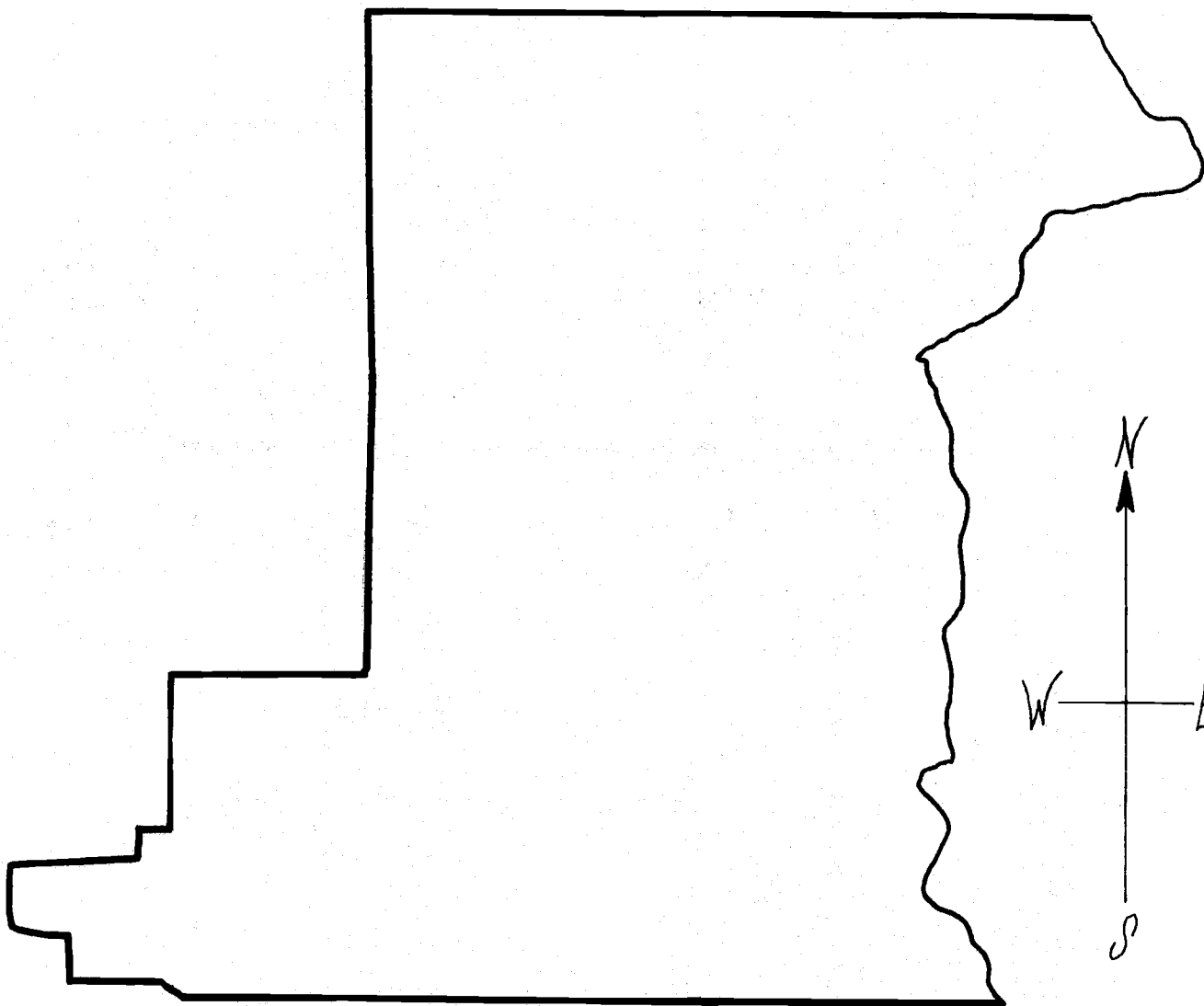
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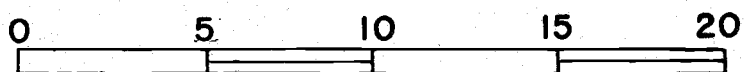
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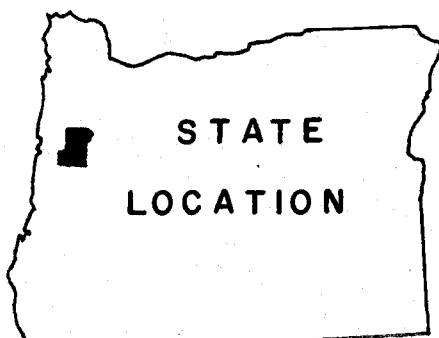
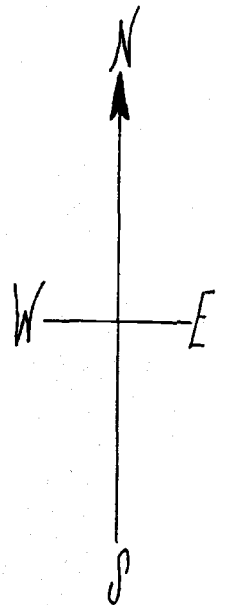
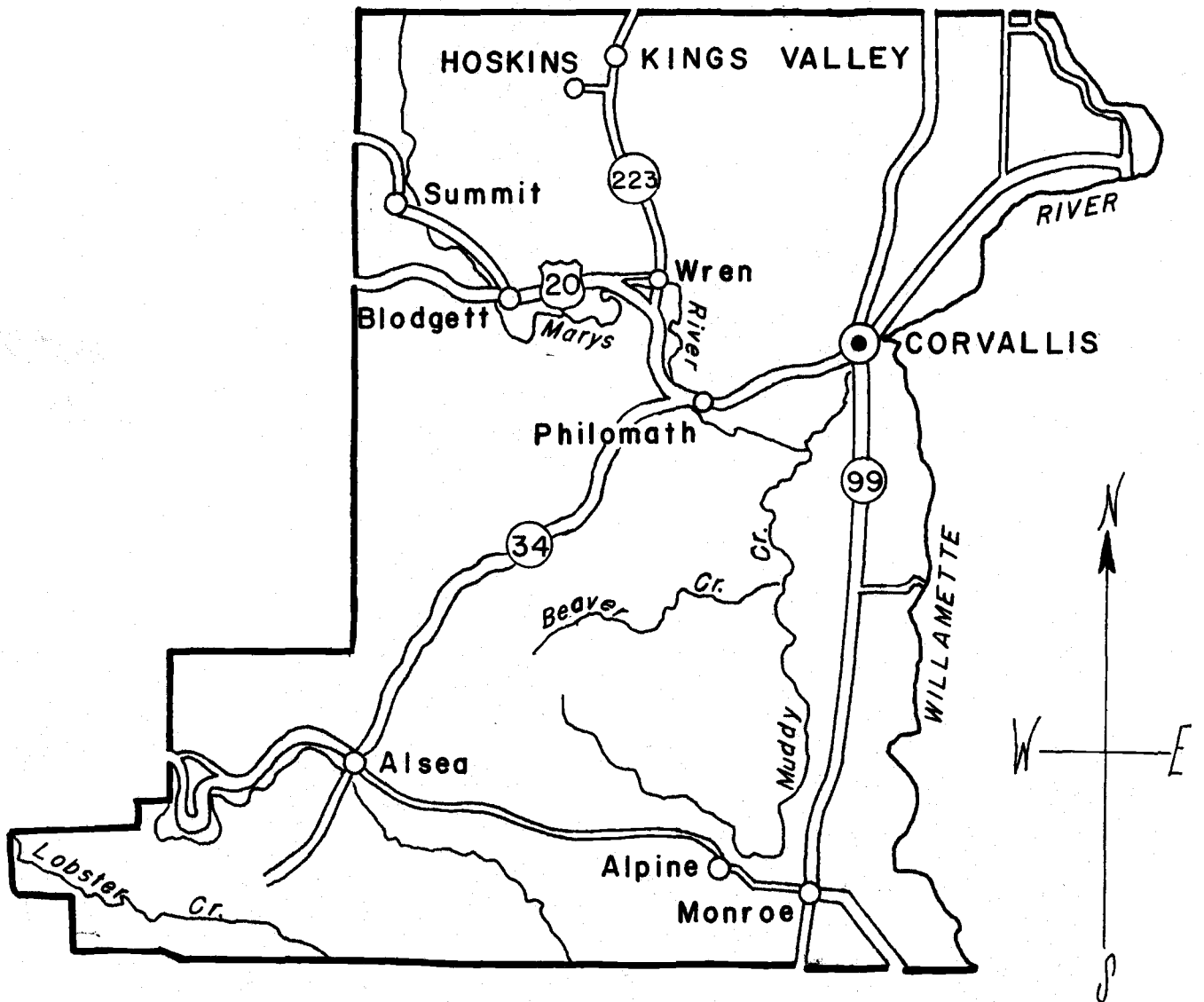
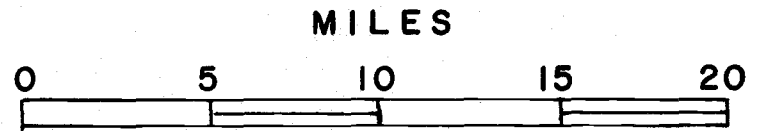
# BENTON COUNTY



MILES



# BENTON COUNTY



- ===== PRIMARY HIGHWAYS
- ===== SECONDARY HIGHWAYS
- ===== COUNTY ROADS
- ===== INTERSTATE HIGHWAYS

## GENERAL DESCRIPTION 1/

Benton County is located in the west central portion of Oregon. The county is bordered on the south by Lane County, on the east by Linn County, on the north by Polk County, and on the west by Lincoln County. The Willamette River forms its eastern border, while its western border is located in the Coastal Mountain range.

Corvallis, the county seat, is about 80 miles southwest of Portland, 40 miles northeast of Eugene, and 55 miles west of Newport on the coast.

With an area of 668 square miles or 427,520 acres, Benton County ranks thirty-third in size among Oregon counties. Over half of the county's area is forest land. Another third of the area is used for intensive agriculture.

The climate is temperate with mild wet winters and warm dry summers. Precipitation is greatest in the highest elevations of the coast range and decreases westward at lower elevations.

In 1972 the county's total population was 59,800. Corvallis, the largest town in the county had a 1972 population of 36,800.

Agriculture and lumbering are major industries in Benton County. Research and Development activities at Oregon State University, in Corvallis, also have a significant impact on the economy,

Benton County was first inhabited by the Klikitat Indians who rented the area from the Calapooia Indians for hunting grounds. The county was created in 1847. At that time it included what is Lincoln County today.

A brief summary of facts is noted below 2/:

Area: 668 square miles  
427,520 acres

Population: 59,800  
(July 1, 1972)

Elevation at Corvallis: 224 feet

True Cash Value: \$443,925,944  
(1972)

Average Temperature:  
Summer - 65.7  
Winter - 43.5

Principal Industries: Agriculture  
Lumbering, Research and  
Development

County Seat: Corvallis

1/ Oregon State Water Resources Board, Middle Willamette River Basin Report, 1963.

2/ Oregon State Executive Department, Economic Development Division, Oregon Blue Book, 1973-74, January, 1973.

## PHYSICAL ASPECTS 1/

Benton County has two distinct physiographic areas: the Willamette River and the Coastal Mountain range. The Willamette Valley contains broad alluvial plains which stretch out toward the foot hills of the Coastal Mountains. The highest peak in the Coastal Range, Mary's Peak with an elevation of 4,097 feet, is located in the western part of the county.

About 459 square miles of the county lie in the middle Willamette River drainage basin and 184 square miles are included in the mid-coast drainage basin.

### Climate

Benton County has a temperate climate with mild wet winters and warm dry summers. Precipitation is heaviest in the Western portion of the county at higher elevations in the Coast Range.

Moist maritime air from the Pacific Ocean releases its moisture as it rises over the Coast Range. Total annual precipitation reaches over 100 inches in the Coast Range and decreases to about 40 inches at Corvallis on the county's eastern border.

Most precipitation falls during the winter months. In the valley about 70 percent of the annual total falls from November through March while only 5 percent occurs during the summer.

Although several feet of snow may fall at higher elevations in the Coast Range, there are only a few days annual with measurable snowfall in the valley.

The average growing season at Corvallis is 215 days.

Table 1. Selected Benton County Weather Stations, and Elevation

Station	Elevation in Feet
Corvallis Water Bureau.....	592
Corvallis, Oregon State University	205
Philomath.....	230
Summit.....	720

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, Benton County, By Month, 1951-1960 Averages

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<u>Average Temperature</u>	- - - - - degrees Farenheit - - - - -												
Corvallis Water Bureau.....	1/												
Corvallis, OSU.	39.4	42.1	44.0	50.0	55.6	60.0	65.7	65.0	61.8	53.3	44.2	40.7	51.8
Philomath.....	1/												
Summit.....	1/												
<u>Total Precipitation</u>	- - - - - inches - - - - -												
Corvallis Water Bureau.....	13.3	9.8	8.5	3.7	2.3	1.2	.3	.7	1.0	4.4	8.5	10.5	64.0
Corvallis, OSU.	7.7	5.2	4.6	2.2	1.9	1.6	.2	.4	1.2	3.8	5.3	6.6	40.8
Philomath.....	7.9	4.9	4.3	2.4	1.6	1.2	.2	.5	1.2	3.5	5.1	6.6	39.3
Summit.....	12.8	9.2	8.2	4.6	3.0	2.0	.4	.7	2.2	5.8	8.1	11.4	68.3

1/ Figures for these stations not available.

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

The following table gives an average day-time high and night-time low for each month over the years 1951-1960.

Table 3. Mean Daily Maximum and Minimum Temperatures, Benton County, By Month 1951-1960 Averages 1/

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
<u>Mean Daily Maximum Temp.</u>	- - - - - degrees Farenheit - - - - -												
Corvallis, OSU.	45.2	49.7	52.7	60.8	67.0	71.7	81.1	80.3	76.0	64.7	52.2	46.9	62.4
<u>Mean Daily Minimum Temp.</u>	- - - - - degrees Farehnhit - - - - -												
Corvallis, OSU.	33.6	34.6	35.3	39.3	44.1	48.3	50.3	49.8	47.6	42.0	36.1	34.5	41.3

1/ Data available only for the Corvallis, OSU Station.

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 4. Freeze Data for Benton County, by Month, 1951-1960 Averages 1/

Station	Mean Number of Days with Temperature of 32 <sup>0</sup> F. or Below												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Corvallis, OSU..	13	11	10	3	2/	0	0	0	0	1	10	11	59

1/ Data available only for Corvallis, OSU Weather Station.

2/ Less than 0.5 days.

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

For more recent climatological data on Benton County see U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, Climatological Data Annual Summary, 1971, Vol. 77, No. 13, 1971.

### Soils

A Soil Survey of Benton County was published in 1924 by the Bureau of Soils, U.S.D.A. The following discussion is based upon this soil survey. A table giving the extent of occurrence of each soil series is given at the end of this section.

The mountainous parts of the county which are undeveloped due to their steep topography, were not mapped in detail. The soils are of residual origin and are derived either from igneous or sedimentary rocks. Bedrock is encountered at depths between 6 and 36 inches, and rock fragments are numerous on the surface. Rock outcrops are common. Due to its topography and shallowness, this soil is best suited for forestry.

Melbourne Series. These soils are brown, reddish-brown, or in places light-brown to yellowish-brown in color. The subsoil is yellow to yellowish-brown, and locally mottled with gray or brown and red iron stains. Bedrock is generally encountered at depths varying from 3 to 8 feet. These soils are derived from sandstone or shale rock, and rocks are common in the lower subsoil.

The series generally is developed in the lower foothills, and the topography varies from broken to gently rolling. Where the topography allows, cultivation can produce excellent results with proper management. The remainder of the area supports a forest growth of mainly fir and oak.

Olympic Series. The surface soil, 8 to 12 inches deep, consists of brown to dark-brown friable silty clay loam to heavy, plastic clay. The subsoil is a brown compact silty clay loam, clay loam, or clay, underlain at depths varying from 2 to 6 feet by massive bedrock, mainly basalt. Fragments of the parent rock occur throughout the profile. Rock and outcrops are numerous on the steeper and more broken slopes. Olympic soils are of residual origin, derived from the weathering of basalt and associated igneous rocks. They occur mainly throughout the hill and mountain section of the central part of the county.

Aiken Series. The surface soil consists typically of 10 to 12 inches of red to brownish-red silty clay loam. The subsoil is red in color, slightly heavier than the surface soils and compact. It may contain numerous round, partly cemented brown or rusty-brown iron concretions. In places the soil includes angular fragments of basalt, and the bedrock is found at shallow depths (generally 4 to 6 feet) though it rarely outcrops. The soil is friable and easily worked.

The Aiken soil is a residual soil derived from the weather in place of basalt and to some extent from coarser grained igneous rocks. It is prominently developed on the eastern slopes of the Coast Range south of Mary's River where it occupies nearly one-half of the total area of residual soils in that section. Other large areas are located along Soap Creek, Woods Creek, and in the vicinity of Wren and Blodgett.

Chehalis Series. The surface soil consists of a light brown to yellowish-brown friable silty clay loam to fine sandy loam 10 to 18 inches deep. The subsoil is brown to slightly reddish-brown material which is similar to or heavier than the surface soil. The subsoil grades into lighter textured material, which underlies nearly all the Willamette River bottom soils at depths of 2 to 6 feet or more.

This soil is developed on the flood plains of nearly all creeks and larger streams of the county. It is derived from recently deposited alluvial material. This soil is very productive and it is extensively farmed.

Amity Series. The surface soil consists of 14 to 18 inches of brown or light grayish-brown silty clay loam, which is plastic when wet and has a tendency to bake upon drying. The subsoil is a light grayish-brown compact silty clay loam or clay loam. It is invariably mottled. The surface is gently sloping to nearly flat, and during periods of heavy rainfall, water stands on these soils for several days at a time. Surface drainage is fairly good in places, but underdrainage is restricted.

Wapato Series. The surface soil is a faintly mottled brown, dark brown, or dark grayish-brown, smooth, heavy silty clay loam 8 to 12 inches deep. The subsoil, to a depth of 26 inches or more, is a moderately compact drab or brown clay or clay loam mottled with rusty-brown, yellow and gray. The wapato soil is an extensive recent-alluvial soil, occurring in nearly all the smaller stream valleys.

The surface is almost level to gently sloping and the drainage is generally poor.

Newberg Series. The surface material is brown to rather dark brown fine sandy loam, loam or silty clay loam, with subsoils generally slightly lighter brown and lighter textured. The subsoil layer is encountered at depths varying from 1 to 3 feet and continues to a depth of several feet. This series closely resembles the Chehalis soils.

This soil series consists of recent-alluvial soils, found close to nearly all rivers and creeks. Even though these soils may be subject to overflow, drainage is generally good. Due to its high natural fertility, these soils are very important agriculturally.

Willamette Series. The surface soil consists of 10 to 14 inches of a dull-brown to light-brown, smooth friable silt loam or silty clay loam. Some areas contain appreciable quantities of rounded and sub-angular gravel.

This soil occurs in a number of areas scattered through the old-alluvial deposits of the valley sections. The surface is gently sloping to slightly undulating, broken here and there by the steep banks of drainage ways. Drainage is well developed.

Dayton Series. The surface soil is a gray or light grayish-brown to dull brownish-gray plastic silty clay loam, 12 to 18 inches deep. It is low in organic matter, and when dry has a characteristics white or gray appearance, which is the reason for the local name of "white land". The upper subsoil, between 6 and 14 inches thick, consists of a heavy drab or dark bluish-gray impervious clay, slightly mottled. The lower subsoil is composed of gray to yellowish-gray friable silty clay loam or silt loam, with numerous mottling stains.

The topography is nearly level, and after rains water often stands on the surface for weeks at a time. Both surface and subsoil drainage are very poor.

Sites Series. The surface soil consists of 8 to 20 inches of brownish-red to dull-red moderately friable clay containing appreciable quantities of organic matter and red iron concretions. It is underlain by a compact red clay grading into bedrock at 2 to 4 feet.

The topography is generally steep and broken, though the crests of the larger hills are comparatively smooth. The soil is of residual origin being derived from weathering of sandstone and shale. The largest area of this soil occurs between Monroe and Alpine. The soil is productive, but can be improved by application of fertilizers.

Carlton Series. The surface soil is a grayish brown smooth silty clay loam of friable structure, 8 to 13 inches deep. It is underlain to a depth of 36 inches or more by a dull-brown to grayish brown compact clay loam or silty clay loam, mottled in the lower and more poorly drained areas. Bedrock is quite deep, occurring at depths of more than 7 feet, even though partly weathered shale fragments are encountered at depths of 4 feet or more.

The Carlton silty clay loam occurs throughout the foothills areas. The surface is gently rolling or hilly to smoothly sloping. Surface drainage is well-developed, though underdrainage is not good in all places.

Cascade Series. The surface soil typically consists of 12 to 14 inches of brown to light-brown clay loam. The subsoil is a yellow or brownish-yellow clay loam of compact structure. Bedrock is reached at depths of 4 to 6 feet. The Cascade soil is a residual soil derived from the coarser grained basic igneous rocks. It occupies the forests of the flat or plateau-like lower hills or areas of gently sloping and rolling

topography. Drainage is generally good. The soil is productive, but can be improved greatly by fertilizing.

Grande Ronde Series. The surface soil, with an average depth of 14 inches, consists of a yellowish-brown to light-brown smooth-textured silty clay loam,, low in organic matter. The subsoil, to a depth of 22 inches, consists of yellowish-brown silty clay, mottled with gray or iron stains. The soil occupies terraces and alluvial slopes and is derived mainly from water-laid deposits having their source in the sandstone or shale rocks of the adjacent hills. The topography is gently sloping to undulating and surface drainage is usually good, though underdrainage is restricted.

Cove Series. The Cove clay consists of 15 to 20 inches of black, dark gray, or very dark brown clay, underlain by a black waxy clay. The subsoil usually grades into lighter textured, grayish, mottled material at depths ranging from 36 to 60 inches. The type occupies low areas bordering the base of the higher terraces, or areas of outwash from the adjacent hills. Drainage is poorly developed. Cove clay is a productive soil, but poor drainage and clayey structure provide some difficulties in working it.

Salem Series. The surface soil has a depth of 10 to 12 inches and consists of a friable brown to reddish-brown clay loam or clay. The subsoil is a reddish-brown to brown heavy clay loam or light-textured clay with a large amount of gravel. Gravel predominates below a depth of 30 to 36 inches.

The soil occupies a terrace position from 10 to 30 feet above the flood waters of the streams. The surface is gently sloping to undulating. Surface and internal drainage are good to excessive.

Riverwash. Riverwash is a nonagricultural type of material, consisting of sand, gravel, and cobble, which lies only a few feet above the normal flow of the rivers. In general, this soil type supports no vegetation, though a few alders or willows have found a foothold in some protected areas.

Camas Series. The surface soil consists of 15 to 20 inches of brown to dark-brown friable clay loam. The subsoil is a brown clay loam containing gravel in the upper part, which increases in quantity to a depth of 30 to 40 inches, where a layer of porous sand and gravel is encountered. This soil occupies the deeper former channels of the Willamette River and is rather unimportant agriculturally.

Whiteson Series. The surface soil consists of 8 to 10 inches of light-gray to brownish-gray or grayish-brown plastic silty clay loam. The upper subsoil is a drab clay, very compact, plastic, and impervious. The lower subsoil consists of a slightly less compact drab clay. This soil is found in stream bottoms, and its drainage is poor. Due to the insignificant extent (256 acres), this soil is unimportant agriculturally.

Table 5. Acreages of Soil Series in Benton County

Soil Series	Acres	Percent of County Area
Rough mountainous land.....	153,344	37.0
Melbourne.....	53,568	13.0
Olympic.....	39,872	9.8
Aiken.....	38,720	9.3
Chehalis.....	31,936	7.7
Amity.....	18,112	4.4
Wapato.....	16,896	4.1
Newberg.....	16,448	4.0
Willamette.....	14,976	3.6
Dayton.....	9,152	2.2
Sites.....	6,144	1.5
Carlton.....	5,632	1.3
Cascade.....	3,392	.8
Grande Ronde.....	2,688	.6
Cove.....	2,112	.5
Salem.....	512	.1
Riverwash.....	512	.1
Camas.....	448	.1
Whiteson.....	256	.1

SOURCE: U.S.D.A., Bureau of Soils, Soil Survey of Benton County, 1929.

For more detailed information on Benton County Soils see: Simonson, G.H., and J.A. Norgren, General Soil Map Report with Irrigable Areas, Willamette Drainage Basin, Appendix I-2, Oregon State Water Resources Board, 1969; and Thomas, B.R., and Simonson, G.H., General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I 1, 17, and 18, Oregon State Water Resources Board, 1969.

#### 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 limitation, whereas Class VIII land is so limited that it is unfit for cultivation and grazing. This land can be used only for recreation, wildlife habitat or water supply.

Table 6. Land Area and Use of Inventory Acreage, Benton County, 1967

Use	Acres
<u>Inventory Acreage</u>	
Cropland.....	90,570
Pasture.....	21,800
Range.....	0
Forest and woodland.....	204,343
Other land.....	18,208
Total inventory acres.....	334,921
Percent of total land area in inventory.	78.3
<u>Non-Inventory Acreage</u>	
Federal land.....	79,041
Urban and built-up areas.....	11,758
Water areas.....	1,800
Total non-inventory acres.....	92,599
Total land area.....	427,520

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

Table 7. Use of Inventory Acreage by Capability Class, Benton County, 1967

Capability Class and Limitations <u>1/</u>	Use				
	Cropland	Pasture-Range	Forest	Other Land	Total
I.....	2,240	0	498	0	2,738
II					
E.....	8,037	0	5,000	287	13,324
W.....	33,103	0	1,490	17,061	51,654
III					
E.....	19,323	1,677	20,695	0	41,695
W.....	4,632	0	1,118	573	6,323
IV					
E.....	8,082	6,708	27,724	0	42,514
W.....	15,153	0	931	287	16,371
V.....	0	0	0	0	0
VI.....					
E.....	0	11,738	105,553	0	117,291
S.....	0	1,677	4,973	0	6,650
VIII					
S.....	0	0	36,361	0	36,361

1/ Limitations: E - main limitation is erosion.

W - water in soil interferes with plant growth.

S - soil is shallow, droughty, or stoney

C - main limitation is climate, too cold or too dry.

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

Table 8. Conservation Treatment Needs, Benton County, 1967

Classification	Acreage
ALL CROPLAND.....	90,570
Cropland needing treatment.....	64,438
Type of treatment needed:	
Residue cover.....	13,326
Sod in rotation.....	4,464
Drainage.....	35,214
Management.....	2,420
Other.....	9,014 <sup>1/</sup>
ALL PASTURE.....	21,800
Pasture needing treatment.....	11,000
Type of treatment needed:	
Establishment of vegetation.....	0
Improvement of vegetation.....	11,000
FOREST AND WOODLAND.....	104,343
Forest and woodland needing treatment	
Description of problems:	
Establishment of timber stand....	7,000
Improvement of timber stand.....	108,743
OTHER LAND.....	18,208
Other land needing treatment.....	6,760

<sup>1/</sup> Includes improved irrigation systems.

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 Ownership and Use

About 75 percent of the land in Benton County is privately owned with the remaining 25 percent owned by various public agencies. The federal government owns 17 percent of the total land area, the state owns 4.4 percent and local governments own 2.6 percent of the land.

Over 90 percent of the land area of Benton County is used either for intensive agriculture or forestry, the two leading industries of the county. The county has a slightly higher percentage of urban land than the state average, although the total amount is still less than 1 percent.

Table 9. Land Use and Ownership, Benton County, 1964

Item	Benton County		State
	Acres	Percent	Percent
Total land area.....	427,520	100.00	100.00
<u>Land Use</u>			
Urban.....	2,437	0.57	0.49
Industrial.....	-	-	0.16
Military.....	-	-	0.10
Intensive agriculture.....	148,862	34.82	6.52
Dryland farming.....	-	-	3.33
Forests.....	246,465	57.65	44.84
Parks.....	-	-	0.32
Conservation.....	11,714	2.74	2.25
Grazing.....	18,041	4.22	41.50
Non-productive land.....	-	-	0.49
<u>Land ownership</u>			
Total private land ownership.....	323,273	75.6	44.2
Total public land ownership.....	104,247	24.4	55.8
Federal.....	74,081	17.3	51.8
State.....	18,841	4.4	2.9
Local.....	11,325	2.6	1.1

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

Table 10. Inventory of State-Owned Real Property, 1970

Agency	Acres	Land Value	Improv. Value	Total Value	Annual Rental Income
Department of Forestry.	8,326.19	\$5,782,670	\$248,470	\$6,031,140	\$ -
Game Commission.....	97.94	41,640	716,616	758,256	1,154
Oregon State University	15,412.48	28,599,550	119,109,684	147,709,234	59,844
Division of State Lands	723.41	580,000	-	580,000	-
Military Department....	1.03	5,150	154,830	159,980	-
Highway Division					
Parks.....	6.70	852	928	1,780	-
Office & Maintenance.	12.38	10,951	261,668	272,619	-
Total.....	24,580.13	\$35,020,813	\$120,492,196	\$155,513,009	\$60,998

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



Table 11. Land Area in Highways, Streets, and Roads

Ownership	Benton County	
	Acres	Percent
State highways.....	1,470	27.0
County roads.....	3,625	66.7
City streets.....	340	6.3
Total.....	5,435	100.0

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

### Agricultural Land

In 1969 nearly 130,000 acres or 30 percent of Benton County was in farms. About 40 percent of the farmland was harvested cropland. Over 25 percent was woodland.

From 1964 to 1969 irrigated farmland increased from 13,000 acres to about 15,100 acres or 11.7 percent of the total farmland.

Table 12. Land in Farms, Benton County, 1964 and 1969

Item	1964		1969	
	Acres	Percent	Acres	Percent
Total land area.....	427,525		427,520	
Proportion in farms.....		48.5		30.2
Acres in farms.....	207,635	100.0	129,034	100.0
Cropland harvested.....	51,232	24.7	50,814	39.4
Cropland pasture.....	23,946	11.5	16,300	12.6
Other cropland.....	16,088	7.7	7,673	5.9
Woodland including wood- land pasture.....	74,681	36.0	34,309	26.6
Other land.....	41,672	20.1	19,938	15.5
Irrigated land.....	13,000	6.3	15,092	11.7

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

### Forest Land

A part of the Siuslaw National Forest is contained within Benton County, although most of the forest land is held in private ownerships. The forest land in Benton County totals 65.4 percent of the county land area. All of this land is useable for commercial forests.

Softwood species predominate both in growing stock and in sawtimber production, but there are also a wide variety of hardwoods grown and harvested each year.

For additional information on forest land in Benton County, see the following tables and the U.S. Forest Service Publication entitled "Forest Statistics for West Central Oregon", Resource Bulletin PNW-10.

Table 13. Forest Acreage, Ownership and Use, Benton County, 1963

Item	Acres	Percent
LAND		
Total land.....	428,000	100.0
Forest land.....	280,000	65.4
Commercial.....	280,000	65.4
Unproductive.....	-	-
Productive-reserved.....	-	-
Nonforest.....	148,000	34.6
OWNERSHIP		
All ownerships.....	280,000	100.0
National forest.....	17,000	6.1
Other public.....	72,000	25.7
Forest industry.....	15,000	5.4
Farmer and miscellaneous private	176,000	62.9

SOURCE: U.S. Forest Service, Forest Statistics for West Central Oregon, Resource Bulletin PNW-10, Pacific Northwest Experiment Station, 1965.

Table 14. Volume of all Growing Stock and Sawtimber by Ownership, Benton County, 1963

Ownership	Total Commercial Growing Stock		Total Commercial Sawtimber	
	million cubic ft.	percent	million board ft. <sup>1/</sup>	percent
OWNERSHIP				
National forest.....	108	8.5	885	11.5
Other public.....	592	46.5	3,597	46.8
Forest industry.....	61	4.8	386	5.0
Farmer and miscellaneous private.....	511	40.2	2,822	36.7
Total.....	1,272	100.0	7,690	100.0

<sup>1/</sup> International  $\frac{1}{4}$  inch rule. Not reported by Scribner log rule.

SOURCE: U.S. Forest Service, Forest Statistics for West Central Oregon, Resource Bulletin PNW-10, Pacific Northwest Experiment Station, 1965.

Table 15. Volume of All Growing Stock and Sawtimber on Commercial Forest Land by Species, Benton County, 1965

Species	Total Commercial Growing Stock		Total Commercial Sawtimber	
	million cubic ft.	percent	million board ft. <u>1/</u>	percent
All species.....	1,272	100.0	6,356	100.0
Softwoods.....	1,091	85.8	5,716	89.9
Douglas-fir.....	1,023	80.4	5,383	84.7
White & grand fir...	10	.8	40	.6
Noble fir.....	2	.2	7	.1
Western hemlock.....	22	1.7	90	1.4
Western red cedar...	34	2.7	196	3.1
Hardwoods.....	181	14.2	640	10.1
Red alder.....	29	2.3	148	2.3
Oregon ash.....	13	1.0	30	.5
Black cottonwood....	<u>2/</u>	-	<u>3/</u>	-
Bigleaf maple.....	59	4.6	194	3.1
Oregon white oak....	79	6.2	258	4.1
Golden chinkapin....	1	.1	9	.1
Other hardwoods.....	<u>2/</u>	-	1	<u>4/</u>

1/ Scribner log rule.

2/ Less than 500,000 cubic feet.

3/ Less than 500,000 board feet.

4/ Less than 0.05 percent.

SOURCE: U.S. Forest Service, Forest Statistics for West Central Oregon, Resource Bulletin PNW-10, Pacific Northwest Experiment Station, 1965.

### Water

The area of Benton County is divided among three drainage basins. The basin with the largest area in the county is the Middle Willamette Basin with 459 square miles or 69 percent of the county area. The western part of the county is located in the Mid-Coast Basin, covering 184 square miles or 28 percent of the county. The remainder, 34 square miles or 4 percent is included in the Upper Willamette River Basin. Each of these areas will be discussed separately.

The major tributary to the Willamette River in Benton County is the Marys River. It is entirely located within the Coastal Range Sub-Basin of the Middle Willamette Drainage Basin. Marys River has a drainage area of 299 square miles and a mean annual yield of 546,000 acre-feet. This figure is below the average for the Coast Range Sub-Basin which is 2,000 acre feet per square mile.

The Mid-Coast Basin includes most of the western part of Benton County, consisting mainly of the Alsea River and Lobster Creek headwaters. The Alsea River near Tidewater, Lincoln County, has an average annual yield of 1,110,000 acre-feet, with a drainage area of 334 square miles.

The area of Benton County included in the Upper Willamette River basin consists of 34 square miles located between the Long Tom River and the Willamette in the extreme southeaster part of the county. The annual yields of the Willamette River, measured immediately below the Long Tom River confluence, ranged from 4,767,000 acre-feet to 14,520,000 with a mean value of 8,624,000 acre-feet. Long Tom River yields, measured at Monroe, ranged from 220,000 acre-feet to 1,100,000 with a mean value of 562,930 acre-feet for the period 1922 through 1958.

Table 16. Annual Yield of Representative Streams, Benton County

Stream and Gaging Point	Drainage Area sq. miles	Years of Record	Mean Annual Yield 1/	
			acre-feet 2/	acre-feet/ sq. mile
North fk. Alsea River at Alsea.....	63	11	199,100	3,160
Marys River near Philomath.....	159	28	333,800	2,100
Muddy Creek near Corvallis.....	107	5	149,900	1,400
Luckiamute River near Hoskins.....	343	34	149,100	4,347
Willamette River at Albany.....	4,840	74	10,410,000	2,130

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

2/ Acre-feet equals the quantity of water (43,650 cu. ft.) that covers one acre to the 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 17. Extremes of Discharge at Selected Stations, Benton County

Stream and Location	Maximum Discharge		Minimum Discharge	
	Year	Flow(cfs) 1/	Year	Flow(cfs)
North Fk. Alsea River at Alsea.....	1964	14,100	1965	12
Marys River near Philomath.....	1964	13,600	1967	0.6
Muddy Creek near Corvallis.....	1964	6,040	1966	0.6
Luckiamute River near Hoskins.....	1946	5,560	1962	4
Willamette River at Albany.....	1881	266,000	1940	1,840

1/ cfs - cubic feet per second.

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

Domestic water rights within Benton County include those granted for individual and small group water supply systems plus campsite, park, and stock watering use. Water for these purposes is obtained mostly from wells and springs, with a small amount taken from streams. The amount of water is generally sufficient, except for occasional shortages during the dry months. Some especially shallow wells may be subject to contamination during periods of high water. Other minor problems are related to high iron, sulphur and salt content. In general, however, the supply is sufficient to satisfy domestic needs.

Water rights classified as municipal include those held by water districts as well as by municipalities. Data about municipal water systems is summarized in the table below.

Table 18. Public Water Systems, Benton County

Location	Population Served	Treatment*	Maximum Capacity MGD	Average Output MGD	Water Rights MGD
Adair A.F.S. <u>1/</u> ..	1,000	A,B,C,D,	1.8	0.4	1.9
Corvallis <u>1/</u> .....	25,500	A,B,C,D,E	13.5	3.8	23.2
(Philomath).....	(1,500)			(0.1)	
Monroe <u>3/</u> .....	360	None	.04	.04	-
Alsea Coop. Inc. <u>3/</u>	150	A	<u>4/</u>	.006	.03

1/ Data for 1963.

2/ Data for 1961.

3/ Data for 1965.

4/ Figure not reported.

\* Treatment: A - Disinfection D - Taste and Odor Control  
B - Sedimentation E - Floridation  
C - Filtration

SOURCE: Unpublished Data, State Water Resources Board.

Most of the sewage treatment plants in Benton County are located near the major population centers. The following table gives further information on the sewage treatment plants located in Benton County.

Table 19. Sewage Treatment Plants, Benton County, 1967

Location	Year Built	Type <u>1/</u>	Design Population	Population Served	Receiving Stream
Corvallis.....	1954, 1966	TF	52,440	28,000	Willamette R.
Airport.....	1962	L	100	75	Creek to Willamette R.
Mobile Park.....	1959	AD	250	150	Oak Creek
Adair.....	1959	TF	750	700	Slough to Willamette R.
Philomath.....	1952	TF	1,800	1,600	Marys River
Riverview Heights..	1960	AD	400	104	Cr. to Willamette R.
West Hills Sanitary District.....	1961	AD	300	65	Cr. to Marys R.

1/ TF - trickling filter

L - Lagoon

AD - aerobic digestion

SOURCE: Oregon State Department of Environmental Quality, Water Quality Control in Oregon, Vol 1. for Calendar Years 1966-67, Oregon Sanitary Authority, 1967.

The 1969 Census of Agriculture reports that there were 162 farms in Benton County with a total area of irrigated land of 15,000 acres. Stream-flows are the source of water for about half of the irrigated acreage; groundwater provides the bulk of the remainder. Only small amounts of water are obtained from reservoir and pond storage.

Sprinkler irrigation is used almost exclusively, with flooding used on only small areas. Detailed data on amount of water used in the county is not available.

Industrial water uses fall mainly within two categories: lumber and wood products manufacturing, and food and kindred products processing. Requirements for use in lumber and woods products manufacturing include water for fire protection, hydraulic barkers, log ponds, and process water for manufacture of pulp and paper. Water requirements 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 the highest requirement in the summer processing season.

### Water-based Recreation

Although there are very few water rights reserved for recreation in Benton County, this does not accurately reflect the use of water for recreational purposes. The Mary's River and Willamette River are the two major water-based recreational areas. Numerous parks along these rivers serve as a base for swimming, boating, water-skiing, fishing, and other recreational activities. For further information on recreational facilities within Benton County, see Outdoor Recreation in The County's Economy section of this publication.

## Minerals

Benton County does not have any known important mineral deposits. The only exception is a clay deposit just south of Corvallis, which is currently being mined and processed into clay brick and tiles. There is also some production of sand and gravel, mostly from deposits along the Willamette River. The amount of production varies widely, depending on current construction activities within the county.

## Wildlife

Benton County is located in the Alsea Big Game Management Unit. This unit includes all of Benton County, the major part of Lincoln County, and smaller areas of Polk and Lane County. Care should therefore be taken in interpreting this data.

Table 20. Big Game Animal Population Trends

Game Management Unit	Miles Traveled	Animals Observed 1971	Animals per Mile		
			1971	1970	5 yr. average*
Black-tailed deer Alsea.....	250	761	3.1	3.0	3.0

\*5 year average - 1966-1970.

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

## HUMAN RESOURCES

### Population

The population of Benton County was about 59,800 in 1972, or about 89.5 persons per square mile. Approximately 65 percent of the total population lives in urban areas, 13 percent live on farms, and the remaining 22 percent make up the rural non-farm population.

Table 21. Number of Persons by Racial Group, 1970, Benton County

Racial Group	Number of Persons
Total.....	53,776
Caucasian.....	51,643
Spanish Language.....	576
Black.....	172
American Indian.....	144
Other.....	1,241

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 Service, Corvallis, Oregon, 1972.

Table 22. Benton and Bordering Counties, Population and Rank Order in Oregon, 1960 and 1972

County	1960		1972	
	Rank	Population	Rank	Population
BENTON.....	12	39,165	9	59,800
Lane.....	2	162,890	2	227,200
Lincoln.....	17	24,635	19	26,100
Linn.....	8	58,867	7	75,540
Polk.....	16	26,523	15	37,060

SOURCES: U.S. Bureau of the Census, Census of Population: 1960 General Social and Economic Characteristics, Final Report PC(1)-C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.  
Center for Population Research and Census, Population Estimates of Counties and Incorporated Cities of Oregon, Portland State University, July, 1972.



Table 23. Land Area and Population Density, 1950, 1960, 1972

County and State	Land Area	Population Density		
		1950	1960	1972
	square miles	- persons per square mile-		
State of Oregon.....	96,248	15.8	18.4	23.0
BENTON.....	668	47.3	58.6	89.5
Lane.....	4,560	27.5	35.7	49.8
Lincoln.....	985	21.6	25.0	26.4
Linn.....	2,288	23.7	25.7	33.0
Polk.....	739	35.6	35.9	50.1

SOURCES: U.S. Bureau of the Census, Census of Population, 1950 and 1960, General Population Characteristics, Final Report PC(1)-B39, U.S. Government Printing Office, Washington, D.C., 1951 and 1961.  
Center for Population Research and Census, Population Estimates of Counties and Incorporated Cities of Oregon, Portland State University, July, 1972.

The recent population growth in Benton County has been tremendous. Between 1960 and 1970, the county growth rate was 27 percent. This compares to a 15.5 percent increase for the State of Oregon during the same period of time.

Table 24. Population Growth, Benton County

Year	Population	Percent Increase or Decrease	
		Period	Percent
1910.....	10,663		
1920.....	13,744	1910-1920	28.9
1930.....	16,555	1920-1930	20.4
1940.....	18,629	1930-1940	12.5
1950.....	31,570	1940-1950	69.5
1960.....	39,165	1950-1960	24.1
1965.....	45,800	1960-1965	16.9
1970.....	53,776	1965-1970	14.9
1972.....	59,800	1970-1972	10.1

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

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

Table 25. Components of Change in Benton County's Population, 1940-1970

Year	Net Change	Natural Increase	Net Migration
1940-1950.....	12,941	3,818	9,123
1950-1960.....	7,595	6,081	1,514
1960-1970.....	14,611	5,648	8,963

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 the Census, Components of Population Growth, Population Bulletin P-3, 1961.

Table 26. Urban and Rural Population, Benton County

Year	Urban		Rural	
	Population	Percent Change	Population	Percent Change
1950.....	16,207		15,363	
1960.....	20,669	21.6	18,496	17.0
1970.....	35,153	41.3	18,623	.7

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.

Most of the population of Benton County is clustered around the Corvallis-Philomath area. In 1972, 39,191 of the 59,800 people in the county lived in one of the three incorporated cities in the county.

Table 27. Population Estimates of Incorporated Cities, Benton County, Selected Years, 1960-1972

City	1960	1966	1971	1972
Corvallis.....	20,699	29,500	36,850 <sup>1/</sup>	36,800
Monroe.....	374	380	450	470
Philomath.....	1,359	1,556	1,800	1,875

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

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

## Population Composition

The composition of Benton County's population by age and sex differs in percentages in certain categories from comparable values for the State of Oregon, probably because of the presence of Oregon State University. About 33 percent of the county's population is under 18 years of age, 60 percent between 18 and 64, and the remaining 7 percent 65 years and over. The median age in Benton County is 23.3 years, lowest median age in the state. Composition by sex shows 50.9 percent males and 49.1 percent females. Figures for the State of Oregon show 36 percent of the population 18 years and under, 54 percent between 18 and 64 years, and 10 percent 65 years and over. Forty-nine percent of the State's population are males and 50.2 percent are females. The median age for the State is 30.3 years.

Table 28. Population by Age and Sex, 1960 and 1970

Age Group	Male		Female		Total		Percent	
	1960	1970	1960	1970	1960	1970	1960	1970
Total population.	20,308	27,349	18,857	26,427	39,165	53,776	100.0	100.0
Under 5....	2,251	1,937	2,099	1,918	4,350	3,885	11.1	7.2
5-9....	1,906	2,104	1,791	2,070	3,697	4,174	9.4	7.8
10-14....	1,622	2,267	1,623	2,174	3,245	4,441	8.3	8.3
15-19....	2,316	4,189	2,052	3,992	4,368	8,181	11.1	15.2
20-24....	3,082	5,236	2,159	4,282	5,241	9,518	13.4	17.7
25-34....	2,783	3,661	2,346	3,236	5,129	6,897	13.1	12.8
35-44....	2,165	2,467	2,127	2,536	4,292	5,003	11.0	9.3
45-54....	1,657	2,345	1,696	2,342	3,353	4,687	8.6	8.7
55-64....	1,257	1,595	1,351	1,698	2,608	3,293	6.7	6.1
65 and over....	1,269	1,548	1,613	2,179	2,882	3,727	7.4	6.9
Median age.....	23.3	23.0	24.3	23.6	23.7	23.3	-	-

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 29. Population of Selected Cities by Age and Sex,  
Benton County, 1960 and 1970

Age Group	Corvallis		Philomath	
	1960	1970	1960	1970
Under 5.....	1,943	2,337	NA	NA
5-14.....	2,911	4,499	"	"
15-24.....	6,967	14,538	"	"
25-34.....	2,635	4,522	"	"
35-44.....	1,938	2,706	"	"
45-54.....	1,481	2,494	"	"
55-64.....	1,229	1,747	"	"
65 and over.....	1,565	2,310	"	"
Total population.....	20,669		1,359	1,688
Male.....	10,755		680	808
Female.....	9,914		679	880

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 Oregon State Department of Employment reported in 1971 that the Total Civilian Labor Force of Benton County was 23,830. At that time, there were 1,230 persons unemployed, which is an unemployment rate of 5.2 percent. According to the number of unemployed, the county ranked 10th, however, ranking according to unemployment rate, the county was 25th in the state.

A total of 22,600 persons were employed in the county in 1971. Educational services employed the largest number of people, with agriculture, forestry, manufacturing, and retail trade also employing many in the labor force.

Table 30. Employment Status, Benton County and Corvallis,  
1960 and 1970

Subject	Benton County		Corvallis	
	1960	1970 <sup>1/</sup>	1960	1970 <sup>1/</sup>
Total males, 14 years and over..	14,757	20,544	8,372	14,297
Total labor force.....	10,019	12,653	4,896	7,828
Armed forces.....	443	73	81	44
Civilian labor force.....	9,576	12,580	4,815	7,784
Employed.....	9,249	11,759	4,703	7,302
Unemployed.....	327	821	112	482
Not in labor force.....	4,738	7,891	3,467	6,469
Inmate of institution.....	41	79	14	65
Enrolled in school.....	3,534	5,980	2,922	5,453
Other.....	1,163	1,832	540	951
Total females, 14 years and over	13,580	19,890	7,626	13,653
Total labor force.....	4,740	8,018	2,931	5,608
Employed.....	4,614	7,450	2,871	5,245
Unemployed.....	126	568	60	363
Not in labor force.....	8,848	11,872	4,695	8,045
Inmate of institution.....	62	151	49	146
Enrolled in school.....	2,180	4,335	1,624	3,843
Other.....	4,334	7,386	1,965	4,056
Married (husbands present), in labor force.....	2,272	4,905	1,057	2,999

<sup>1/</sup> 16 years and over.

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

Age Group	Benton County		Corvallis	
	Male	Female	Male	Female
Years				
14-15.....	19.1	14.1	26.6	18.6
16-17.....	41.2	22.2	42.3	25.3
18-19.....	25.1	30.3	22.0	28.4
20-21.....	37.7	41.4	33.9	40.6
22-24.....	58.3	53.0	53.2	53.8
25-34.....	80.4	45.4	75.3	50.4
35-44.....	95.4	50.9	93.3	53.3
45-64.....	88.2	48.9	91.6	52.8
65 and over.....	28.0	11.7	27.5	12.8

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.

Table 32. Industry Group of Employed, Benton County, 1960 and 1970

Industry	Number Employed <sup>1/</sup>	
	1960	1970
Agriculture.....	883	1,123
Forestry and fisheries.....	147	
Mining.....	17	36
Construction.....	739	849
Manufacturing.....	2,433	2,589
Lumber and wood products.....	1,598	1,322
Food and kindred products.....	217	186
Other.....	618	1,081
Transportation.....	236	298
Communications.....	118	276
Wholesale trade.....	242	291
Retail trade.....	1,970	2,806
Business services.....	556	1,084
Personal services.....	1,120	955
Hospitals and health services.....	175	871
Educational services.....	3,386	5,836
Professional and related services.....	392	659
Public administration.....	548	833
Utilities and sanitary services.....	-	317
Welfare, religious, and non-profit organizations.....	-	359

1/ Some persons may be categorized in different groups in different years.

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

Month	Corvallis Area					
	Local		Intrastate Migratory		Interstate Migratory	
	1965	1971	1965	1971	1965	1971
May.....	130	100	-	-	-	-
June.....	1,090	930	-	20	10	-
July.....	345	320	-	-	-	-
August.....	2,780	1,580	35	10	20	20
September..	110	235	-	-	-	-
October....	115	195	-	-	-	-

SOURCES: Oregon State Department of Employment, 1965 Oregon Farm Labor Report, 1966.

Oregon State Department of Human Resources, Employment Division, 1971 Annual Rural Manpower Report, 1972.

Table 34. Annual Average Labor Force in Benton County, 1968-1971

Industry	Number of Persons			
	1968	1969	1970	1971
Civilian labor force.....	22,160	23,060	23,640	23,830
Workers in labor management disputes	0	10	0	0
Unemployment.....	810	890	1,160	1,230
Percent of labor force.....	3.7	3.9	4.9	5.2
Employment.....	21,350	22,160	22,480	22,600
Agricultural.....	1,130	1,050	1,020	950
Nonagricultural.....	20,220	21,110	21,460	21,650
Self-employed, unpaid family and domestics.....	2,650	2,700	2,740	2,760
Wage and salary workers.....	12,570	18,410	18,720	18,890
Manufacturing.....	2,470	2,530	2,330	2,390
Lumber and wood.....	1,600	1,630	1,450	1,480
Other.....	NA	NA	370	390
Food products.....	NA	NA	280	320
Other.....	NA	NA	230	200
Nonmanufacturing.....	15,100	15,880	16,390	16,500
Contract construction.....	430	480	460	450
Transportation, communication, utilities.....	590	640	670	680
Wholesale and retail trade.....	2,340	2,600	2,830	2,820
Finance, insurance and real estate.....	440	450	470	520
Service and miscellaneous.....	2,060	2,240	2,310	2,420
Government.....	9,240	9,470	9,650	9,610

NA - not available.

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 Benton and Bordering Counties, 1968 and 1971

County	Number of People		Percent of Labor Force	
	1968	1971	1968	1971
Benton.....	810	1,230	3.7	5.2
Lincoln.....	520	740	5.7	7.8
Lane.....	4,250	6,600	5.1	7.2
Polk 1/.....	4,000	5,400	5.6	6.8
Linn.....	1,440	2,200	5.3	7.4

1/ Figures include Marion and Polk Counties.

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

Table 36. Median Earnings of Selected Occupation Groups,  
Benton County, 1959 and 1969

Occupation Group	1959	1969
Male, total with earnings <u>1/</u> .....	\$ 4,627	\$ 6,829
Professional, managerial, and kindred workers.....	6,172	9,574
Farmers and farm managers.....	2,415	7,917
Craftsmen, foremen, and kindred workers.	5,127	6,154
Operatives and kindred workers.....	4,700	3,213
Farm laborers.....	2,050	5,278
Laborers, excluding farm and mine.....	3,542	1,899
Female, total with earnings <u>1/</u> .....	\$ 1,660	\$ 2,657
Clerical and kindred workers.....	2,150	3,326
Operatives and kindred workers.....	2,010	1,602

1/ 16 years and older included in 1969 data.

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 37. Covered Payrolls and Employment by Industry,  
Benton County, 1970 and 1971

Industry	Average Employment		Annual Payroll
	1970	1971	1971
Agriculture, forestry, and fisheries...	75	80	\$ 318,669
Mining.....	18	23	159,688
Contract construction.....	446	565	4,613,597
Lumber and wood products manufacturing.	1,472	1,461	12,779,187
Food and kindred products manufacturing	297	323	2,354,670
Other manufacturing.....	608	606	4,815,300
Transportation, communication, electric, gas, and sanitary services.....	634	652	4,629,931
Wholesale and retail trade.....	2,717	2,766	13,280,835
Finance, insurance, and real estate....	377	412	2,334,168
Services and miscellaneous.....	1,410	1,371	8,432,988
Government.....	3,238	2,858	20,912,911
Yearly total.....	11,294	11,118	74,638,986

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



Table 38. Major Occupation Group of Unemployed, Benton County  
1960 and 1970

Occupation Group	Number of Persons	
	1960	1970 <sup>1/</sup>
Professional, technical, and kindred workers...	46	180
Farmers and farm managers.....	12	<u>2/</u>
Managers, officials and proprietors, excluding farm.....	51	<u>2/</u>
Clerical and kindred workers.....	40	204
Sales workers.....	37	62
Craftsmen, foremen, and kindred workers.....	382	190
Operatives and kindred workers.....	4	202
Service workers, including private household...	154	223
Farm laborers.....	89	66
Laborers, excluding farm and mine.....	459	202

<sup>1/</sup> 1970 data includes only those 16 years and older.

<sup>2/</sup> 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 39. Local Government Employees and Payroll, Benton County, October, 1967

Item	Employees and Earnings
Employees.....	1,338
Full-time only.....	1,098
Full-time equivalent employment.....	1,143
Education.....	791
Teachers only.....	584
Functions other than education.....	352
Highways.....	84
Public welfare.....	2
Hospitals.....	-
Health.....	21
Police protection.....	63
Sewerage.....	6
Sanitation other than sewerage.....	7
Parks and recreation.....	11
Natural resources.....	-
Housing and urban renewal.....	-
Correction.....	4
Libraries.....	21
Financial administration.....	30
General control.....	35
Water supply.....	25
Other local utilities.....	-
Other and unallocable.....	11
October payroll.....	\$ 651,000
Education.....	470,000
Teachers only.....	383,000
Functions other than education.....	181,000
Average monthly earnings, full-time employment	
Teachers.....	\$ 654
Others.....	481

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

# Income

Table 40. Net Effective Buying Income Estimates 1/, 1967 and 1970

Area	Net Dollars		Per Household	
	1967	1970	1967	1970
	- -thousand dollars - -		- - - dollars - - -	
State of Oregon.....	\$5,224,888	\$6,650,690	\$8,113	\$9,440
Benton County.....	123,325	173,366	9,343	10,835

1/ Effective buying income is personal income - wages, salary, interest, dividends, profits, and property income minus federal, state, and local taxes.

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

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

Year	Bank Debits <u>1/</u>	Bank Deposits
	- - - - - thousand dollars - - - - -	
1965.....	\$ 455,709	\$ 56,751
1966.....	528,230	61,705
1967.....	551,626	67,428
1968.....	631,140	85,876
1969.....	713,612	82,779
1970.....	710,777	83,759
1971.....	770,760	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, 1972, University of Oregon, 1972.

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

Item	Number	Percent
<u>Mean Income</u>		
Families:		
All races.....	\$11,412	<u>1/</u>
Caucasian.....	11,497	
Spanish Language.....	6,670	
Black.....	5,871	
Other.....	9,543	
Unrelated Individuals:		
All races.....	2,305	
Caucasian.....	2,351	
Spanish Language.....	1,592	
Black.....	1,059	
Other.....	1,598	
<u>Families by Family Income Class</u>		
All races:		
under \$3,999.....	1,703	14.23
\$4,000-\$5,999.....	1,440	12.03
\$6,000-\$11,999.....	4,542	37.96
\$12,000+.....	4,282	35.78
Total.....	11,967	100.00
Caucasian:		
under \$3,999.....	1,599	13.69
\$4,000-\$5,999.....	1,421	12.17
\$6,000-\$11,999.....	4,435	37.99
\$12,000+.....	4,220	36.15
Total.....	11,675	100.00
Spanish Language:		
under \$3,999.....	48	41.38
\$4,000-\$5,999.....	14	12.07
\$6,000-\$11,999.....	28	24.14
\$12,000+.....	26	22.41
Total.....	116	100.00
Black:		
under \$3,999.....	13	44.83
\$4,000-\$5,999.....		
\$6,000-\$11,999.....	11	37.93
\$12,000+.....	5	17.24
Total.....	29	100.00
Other:		
under \$3,999.....	43	29.25
\$4,000-\$5,999.....	5	3.40
\$6,000-\$11,999.....	68	46.26
\$12,000+.....	31	21.09
Total.....	147	100.00

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

Item	Number	Percent
<u>Income Below Poverty Level (bpl) 2/</u>		
Families bpl		
All races.....	985	100.00
Caucasian.....	909	92.28
Spanish Language.....	34	3.45
Black.....	9	.92
Other.....	33	3.35
Persons in families bpl.....	3,278	
Unrelated individuals bpl		
Under 65.....	3,409	
65 and over.....	406	
Male family head, 14-64 yrs., bpl		
Employed.....	322	
Unemployed.....	40	
Not in labor force.....	253	
Female family heads bpl in labor force with children below 6 yrs.....	24	
Income source of families and unrelated individuals bpl		
Earnings.....	3,597	
Social security or railroad retirement.....	643	
Public assistance or welfare.....	186	

1/ Blank spaces indicate a zero, suppressed data, or not applicable.

2/ Poverty levels are federally defined. For further definition of poverty levels, see: 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.

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 elementary and high school education facilities available to residents of Benton County, there are two institutions of higher education.

Oregon State University, a Land-and Sea-Grant University is located in the county seat of Corvallis. The school offers a wide variety of Bachelor's, Master's, and Doctoral Degrees. One out of every 7 students is enrolled in the Graduate School. The school has an enrollement of about 15,000 students.

Linn-Benton Community College is located in Albany and serves the two-county area. The college offers Associate Degrees in a variety of fields, in addition to providing adult education programs.

The following tables give information on the enrollment in elementary and high schools in the county, and on other aspects of education.

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

District	White	Black	American Indian	Spanish Surname	Other <u>1/</u>	Total
	- - - - - number of students - - - - -					
Alpine.....	85	-	2	3	-	90
Alsea.....	249	-	-	2	1	252
Belfountain.....	54	-	-	-	-	54
Corvallis.....	7,542	27	22	36	125	7,752
Fairmount.....	186	-	-	-	-	186
Fir Grove.....	131	-	-	-	-	131
Irish Bend.....	33	-	-	-	-	33
Monroe # 254.....	216	-	-	3	-	219
Monroe Union H.S..	183	-	-	1	-	184
North Albany.....	176	-	-	1	-	177
Oak Grove.....	152	-	-	-	1	153
Philomath.....	1,172	-	4	2	7	1,185
Total.....	10,179	27	28	48	134	10,416

1/ Includes Japanese, Chinese, Filipino, and others.

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

Table 44. Formal Education Facilities, Benton County, 1969-70 and 1971

School District, Type School and Number of Each Type	Enrollment <sup>1/</sup>		High School Graduates, 1971
	1969-70	1971	
Alpine School District # 26			
Elementary - 1 .....	78	93	
Alsea School District # 7J			
Elementary - 1.....	190	152	
High School - 1.....	64	100	20
Bellfountain School District # 23			
Elementary - 1.....	75	68	
Corvallis School District # 509J			
Elementary - 14.....	4,245	4,131	
Junior High - 3.....	1,892	1,786	
High School - 3.....	1,907	1,829	597
Fairmount School District # 43			
Elementary - 1.....	153	160	
Fir Grove School District # 74			
Elementary - 1.....	91	123	
Irish Bend School District # 24			
Elementary.....	44	33	
Monroe School District # 25J.			
Elementary.....	200	200	
Monroe Union High District # 7J			
High School.....	205	203	43
North Albany School District # 34			
Elementary - 1.....	143	175	
Oak Grove School District # 4			
Elementary - 1.....	141	129	
Philomath School District # 17J			
Elementary - 4.....	512	552	
High School - 1.....	579	592	85

<sup>1/</sup> Average daily membership.

SOURCES: Oregon Board of Higher Education, 1969 School Directory and 1971-72 Oregon School-Community College Directory, and 1971 Oregon Public High School Graduates, School Finance and Statistical Services.

Table 45. Youth Organizations, Benton County

Organization	Membership
Boy Scouts.....	NA
Camp Fire Girls.....	1,497
4-H.....	1,003
Future Farmers.....	50
Girl Scouts.....	465
YMCA.....	4,300

NA-- not available.

SOURCES: 4-H, 1972 figures from Oregon State Extension Office, 4-H Division, unpublished data; FFA, 1972 figures from State Dept. of Education, unpublished data; YMCA, 1972 figures from telephone interview; Girl Scout figures from telephone interview; Camp Fire Girls, 1973 figure from Salem office, unpublished data.

Table 46. Years of School Completed by Population 25 Years and Over  
Benton County, 1970

Education	Number Males	Number Females	Total	Percent
Total, 25 years and over.....	11,625	11,993	23,618	100.00
No school years completed.....	54	48	102	.43
Elementary: 1-4 years.....	73	79	152	.64
5-7 years.....	530	349	879	3.72
8 years.....	1,102	858	1,960	8.30
High School: 1-3 years.....	1,328	1,518	2,846	12.05
4 years.....	2,668	4,188	6,856	29.03
College: 1-3 years.....	1,704	2,122	3,826	16.20
4 years or more.	4,166	2,831	6,997	29.63
Median school years completed...	13.1	12.8	13.0	-

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.

Table 47. Benton County Residents Enrolled in Higher Education  
Institutions, Fall 1971

Institution	Number Enrolled
Total enrolled.....	4,042
Eastern Oregon College.....	10
Oregon College of Education.....	128
Oregon State University.....	3,580
Portland State University.....	34
Southern Oregon College.....	45
University of Oregon.....	212
Oregon Technical Institute.....	8
University of Oregon Dental School.....	5
University of Oregon Medical School.....	20
Total in private and independent institutions.....	76

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

Although Benton County operates no correctional institutions of its own, it is served by three state correctional institutions in Marion County. These include training schools for socially maladjusted boys between 12 and 18 years of age and girls between the ages of 12 and 21. There are also several group foster homes available to the residents of the county in need of training.



Table 48. Felonies and Juvenile Delinquency, Benton County, 1968

Subject	Number
Commitments to felony and correctional institutions, 1967-68	
Total commitments.....	12
Oregon State Penitentiary.....	7
Oregon State Correctional Institution....	4
MacLaren (boy's training school) 1/.....	1
Hillcrest (girl's training school) 1/....	0
Juvenile court cases, 1968	
All cases.....	927
Delinquency.....	785
Traffic.....	32
Other.....	110

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

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

### Health and Vital Statistics

In 1969-70, Benton County allocated \$282,633 to their County Health Department budget. This amounts to \$5.54 per capita and is slightly less than the state average of \$5.70 per capita. There are no county-operated hospitals in Benton County although there is a privately operated hospital in addition to several clinics and long-term care facilities. The information in the following tables in this section gives data on the medical personnel in the county, medical facilities available, and on the health problems that are encountered by residents of Benton County.

Table 49. Diagnostic or Treatment Center Facilities, Benton County, 1970

Name and Location	Outpatient Visits During Year	Services 1/
Good Samaritan Hospital Corvallis.....	20,838	A, H, I, E

1/ Service code: A - general; H - X-ray; I - clinical laboratory; E - orthopedic, 1964 data.

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

Table 50. Existing Medical Facilities, Number of Existing Beds, and Number of Beds Needed, Benton County, 1971 <sup>1/</sup>

Category and Community	Number of Facilities		Number of Beds	
	existing	needed	existing	needed
<u>General Hospital</u>				
Corvallis.....	1	1	158	166
<u>Long-term Care Facilities</u>				
Corvallis.....	2	2	219	301
<u>Diagnostic and Treatment Centers</u>				
Corvallis.....	1	1	-	-

<sup>1/</sup> Mental Facilities: the state plan of the Mental Health Division is made a part of this plan by reference.

Tuberculosis Hospitals: none

Rehabilitation Facilities: No facilities proposed in addition to those in area hospitals.

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 51. Percent Occupancy of Existing Medical Facilities, Benton County, 1969

Name of Facility	Location	Total Capacity	Percent of Occupancy
<u>General Hospitals</u>			
Good Samaritan Hospital.....	Corvallis	158 <sup>1/</sup>	75
<u>Long-Term Care Facilities</u>			
Corvallis Convalescent Center.	Corvallis	84	80
Corvallis Manor.....	Corvallis	135	82
Olson Nursing Home.....	Corvallis	18 <sup>2/</sup>	100
Total.....		219	87
<u>Tuberculosis Hospitals</u>			
None in area			

<sup>1/</sup> Excludes acute care beds.

<sup>2/</sup> This facility does not have skilled nursing care as defined by federal standards so beds are not included in totals.

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

Table 52. Number of Licensed Medical Personnel and Ratio of Population Per Professional, Benton County, 1969

Profession	Benton County		State
	Number	Ratio <u>1/</u>	Ratio <u>1/</u>
Medical doctors and doctors of osteopathy	70	729	770
Dentists.....	31	1,645	1,470
Registered nurses.....	189	270	276
Licensed practical nurses.....	17	3,000	1,002
Pharmacists.....	50	1,020	1,375

1/ Ratio figure equals population per professional in particular category.

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

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

Facility	Benton County		State
	Number	Ratio <u>1/</u>	Ratio <u>1/</u>
Psychiatric hospitals.....	42	82	134
Mental health clinics.....	251	492	460

1/ Ratio figure equals admissions per 100,000 population.

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

Table 54. Births and Deaths by Major Category, Benton County and State of Oregon, 1968 and 1971

Category	Benton County				State
	Number		Rate		Rate
	1968	1971	1968	1971	1971
All births <u>1/</u> .....	805	777	16.7	13.9	15.6
All deaths <u>1/</u> .....	319	320	6.6	5.7	9.4
Illegitimate births <u>2/</u> ...	51	25	63.4	32.2	78.1
Premature births <u>2/</u> .....	51	36	63.4	46.3	57.4
Infant deaths <u>2/</u> .....	20	12	24.8	15.4	18.4
Accidental deaths <u>3/</u> .....	19	24	39.5	42.9	61.3

1/ Rates per 1,000 population.

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, 1968 Statistical Report, 1969, 1971.

Table 55. Health Statistics, Benton County, 1971

Item	Benton County		State
	Number	Rate <u>1/</u>	Rate <u>1/</u>
Morbidity			
Tuberculosis.....	3	5.4	11.6
Syphilis.....	3	5.4	5.3
Gonorrhea.....	116	207.1	422.0
Influenza.....	1,254	2,239.3	1,171.7
Hepatitis (Infectious).....	10 <u>2/</u>	20.4 <u>2/</u>	45.1 <u>2/</u>
Measles (Rubella).....	1	1.8	18.1
Deaths from all causes.....	320	5.7 <u>3/</u>	9.4 <u>3/</u>
Malignant neoplasms (cancer)....	71	126.8	168.4
Diabetes mellitus.....	3	5.4	113.3
Heart diseases.....	116	207.1	349.6
Cerebrovascular diseases.....	40	71.4	110.9
Arteriosclerosis.....	6	10.7	21.2
Other cardiovascular diseases...	5	8.9	17.3
Influenza and pneumonia.....	6	10.7	26.4
Bronchitis, emphysema, asthma...	4	7.1	26.9
Peptic ulcer.....	2	3.6	4.3
Cirrhosis of liver.....	2	3.6	15.8
Congenital anomalies.....	4	7.1	8.2
Certain infancy mortality causes	6	10.7	14.7
All other diseases.....	24	42.9	76.9
Accidents.....	24	42.9	61.3
Suicide.....	7	12.5	14.9
Homicides.....	-	-	3.8

1/ Rate per 100,000 population.

2/ 1966-68 average, taken from Office of the Governor, Planning Division, Health 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, 1971.

Public Welfare

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

Category	Cases	Average Payment
<u>Cases receiving non-medical payments</u>		
Old Age Assistance.....	52	\$ 57.89
Aid to the Blind.....	5	93.00
Aid to the Disabled.....	79	95.76
Aid to Dependent Children <u>1/</u> .....	827	49.20
General Assistance.....	15	85.07
Foster Care.....	-	-
<u>Physicians services <u>1/</u></u>		
OAA.....	28	21.35
AB.....	2	29.13
AD.....	32	27.55
ADC.....	166	22.47
GA.....	15	56.05
FC.....	19	24.11
<u>Hospital payments <u>1/</u></u>		
OAA.....	1	151.45
AB.....	0	-
AD.....	8	534.12
ADC.....	18	396.80
GA.....	3	799.00
FC.....	2	200.73
<u>Drug payments <u>1/</u></u>		
OAA.....	89	19.31
AB.....	33	13.63
AD.....	39	41.22
ADC.....	113	8.58
GA.....	13	16.34
FC.....	3	6.89

1/ Persons not cases.

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

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

Type of Service	Average Payment per Case	
	1968-69	1971-72
Old Age Assistance.....	\$55.63	\$62.73
Aid to the Disabled.....	60.40	90.62
Aid to the Blind.....	67.14	84.75
General Assistance.....	43.95	70.98
Aid to Dependent Children <u>1/</u>		
UN <u>2/</u> .....	34.53	44.54
Basic <u>2/</u> .....	37.95	46.94

1/ Payment per person, not case.

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

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

The State of Oregon operates three special schools for the handicapped, all located at Salem in Marion County. The School for the Blind provides special education for approximately 100 children with acute vision problems in a boarding school situation. The School for the Deaf provides parallel training for severely 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

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

Subject	Corvallis	
	Number	Percent
Occupancy		
All year-round housing units...	10,731	100.00
Owner occupied.....	4,943	46.06
Renter occupied.....	5,338	49.74
Vacant year-round, for rent....	291	2.71
Facilities		
Telephone available.....	NA	-
Air conditioning.....	764	7.18
Median gross rent of renter occupied.....	\$125	

NA - Not available.

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

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

Subject	Benton County		State
	Number units	Percent	Percent
Occupancy			
All housing units.....	16,617	100.00	100.00
Seasonal or migratory.....	5	.03	1.3
Owner occupied.....	9,104	54.79	61.3
Renter occupied.....	6,794	40.89	31.5
Vacant year-round.....	714	4.30	5.9
Population in housing units per unit			
Owner occupied.....	3.3	-	-
Renter occupied.....	2.5	-	-
Persons per room			
All occupied units.....	15,896	100.00	100.0
1.00 or less.....	15,351	96.57	94.7
1.01 - 1.50.....	413	2.60	4.2
1.51 or more.....	134	.84	1.1
Facilities.....			
Lacking some or all plumbing	456	2.74	3.6
Telephone available.....	14,835	93.31	89.5
Air conditioning.....	1,082	6.51	10.3
	number		number
Median number of rooms.....	5.0		5.0
Median value <u>1/</u> .....	\$19,000		\$11,300
Median gross rent <u>2/</u> .....	\$122		\$107

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

## THE COUNTY'S ECONOMY

The economy of Benton County is based on two major industries, agriculture and forestry. To a large extent, it is also based on education, with Oregon State University located at the county seat of Corvallis.

The value of agriculture to the county's economy has increased in recent years, while forestry has declined slightly because of lessened demands. As can readily be seen in the mineral section, the value of mining and mineral production fluctuates greatly from year to year.

The tables in this section give data on all major sectors of Benton County's economy.

### Agriculture

Agriculture is an essential part of the economy in Benton County. However, in recent years the amount of land used for farming has decreased rapidly, as has the number of farms. In 1964 208,000 acres of Benton County was in farmland. By 1969, this acreage had decreased to 129,000 acres.

Agriculture is principally devoted to field crops, although there are some dairy farms and some cattle raised. The following tables give additional information on farm size, economic class, operators characteristics, and value of products sold.

For further information on Agriculture in Benton County, see the Census of Agriculture, 1969, Vol. 1, Area Reports, Part 47, Oregon, U.S. Government Printing Office, Washington, D.C., 1972, or Agriculture in Oregon Counties - Farm Sales and General Characteristics, Special Report 330, Oregon State University Extension Service, Corvallis, Oregon.



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

Subject	1959	1964	1969
Approximate acres of land area.....	427,520	427,520	427,520
Proportion in farms.....	48.0	48.6	30.2
Total number of farms.....	895	858	575
Acres in farms.....	205,340	207,633	129,034
Average size of farms.....	229.4	242.0	224.4
Value of land and buildings.....	NA	NA	\$52,749,041
Average per farm.....	\$44,981	\$50,973	\$91,737
Average per acre.....	\$186.34	\$186.34	\$408.79

NA - not available.

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

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

Size	Number			Percent		
	1959	1964	1969	1959	1964	1969
Less than 10 acres.....	89	71	43	9.94	8.27	7.47
10 to 49 acres.....	250	280	176	27.93	32.63	30.60
50 to 69 acres.....	70	57	41	7.82	6.64	7.13
70 to 99 acres.....	71	70	54	7.93	8.16	9.39
100 to 139 acres.....	73	71	55	8.16	8.28	9.57
140 to 179 acres.....	67	51	39	7.49	5.94	6.78
180 to 219 acres.....	41	31	22	4.58	3.61	3.83
220 to 259 acres.....	32	36	19	3.58	4.19	3.30
260 to 499 acres.....	112	107	73	12.51	12.47	12.70
500 to 999 acres.....	54	48	34	6.03	5.59	5.9
1,000 to 1,999 acres.....	20	19	10	2.23	2.21	1.73
2,000 acres or more.....	16	17	9	1.79	1.98	1.57
Total farms.....	895	858	575	-	-	-

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

Classification of farms by farm 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) did not work off the farm 100 or more days of 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.

Table 62. Farms by Economic Class, Benton County, 1959, 1964, and 1969

Economic Class	Number			Percent		
	1959	1964	1969	1959	1964	1969
Commercial farms, total.....	453	360	294	49.40	41.95	51.13
Class I (sales of \$40,000 or more).....	31	37	50	3.38	4.31	8.69
Class II (sales of \$20,000 to \$39,999).....	43	45	36	4.68	5.24	6.26
Class III (sales of \$10,000 to \$19,999).....	63	53	31	6.87	6.17	5.39
Class IV (sales of \$5,000 to \$9,999).....	93	60	61	10.14	6.99	10.61
Class V (sales of \$2,500 to \$4,999).....	136	85	87	14.83	9.90	15.13
Class VI (sales of \$50 to \$2,499).....	87	80	29	9.48	9.32	5.05
Other farms						
Part-time.....	342	374	216	31.29	43.58	37.56
Part-retirement.....	121	122	63	13.19	14.21	10.95
Abnormal.....	1	2	2	.11	.23	.34
Total farms.....	917	858	575	100.00	100.00	100.00

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

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

Tenure	1959	1964	1969
Full owners.....	650	657	415
Part owners.....	157	133	116
Managers.....	6	5	-
Tenants.....	82	63	44
Total operators.....	895	858	575

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

Table 64. Farm Operators by Age and Years of School Completed,  
Benton County, 1959, 1964, and 1969

Subject	1959	1964	1969
Average age (years).....	51.9	51.9	50.9
65 years and over.....	166	166	98
Years of school completed			
Elementary: 0-4 years.....	NA	13	NA
5-7 years.....	"	26	"
8 years.....	"	163	"
High School: 1-3 years.....	"	117	"
4 years.....	"	337	"
College: 1-3 years.....	"	80	"
4 years or more	"	122	"

NA-- not available.

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

Table 65. Acres of Crops Harvested, Benton County, 1969 and 1970

Crops Harvested	1969	1970 <u>1/</u>
	- - - - - acres - - - - -	
Corn for grain.....	400	300
Small grains.....	8,400	7,100
Wheat.....	4,900	4,800
Oats.....	1,300	1,300
Barley.....	2,200	1,000
Hay crops.....	10,200	9,100
Field seed crops		
Ryegrass.....	12,700	18,575
Fescue.....	3,100	3,300
Bentgrass.....	2,400	2,400
Vegetables		
Beets.....	400	400
Sweet corn.....	2,900	3,000
Snap beans.....	2,100	2,400
Berries		
Strawberries.....	260	230
Blackberries.....	10	10
Raspberries.....	95	95
Other berries.....	35	35
Tree fruits, nuts, and grapes <u>2/</u> ....	1,600	850
Peppermint.....	2,500	2,400

1/ Preliminary figures.

2/ Production sold (in tons).

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

Table 66. Value of Farm Products Sold 1/, Benton County, 1966-1970

Product	1966	1967	1968	1969	1970 <u>2/</u>
All crops, livestock and livestock products.....	8,931	9,216	10,626	12,579	12,588
All crops.....	5,864	6,420	7,545	9,326	9,615
All grain, hay, and seeds....	2,914	2,666	3,193	3,646	4,262
All seed crops.....	1,960	1,685	2,235	2,969	3,610
All grain and hay.....	954	981	958	677	652
All hay.....	274	223	212	214	182
All grains.....	680	758	746	463	470
Wheat.....	456	645	636	300	355
Barley.....	149	45	66	74	36
Vegetables, fresh and for processing.....	1,235	1,607	2,173	2,288	2,131
All berries.....	230	196	284	367	294
Strawberries.....	NA	NA	248	251	218
All tree fruits and nuts....	339	413	293	410	367
Specialty field crops.....	769	854	774	1,149	1,081
Specialty horticultural crops	181	268	286	558	620
All potatoes.....	2	13	142	152	113
All livestock and livestock products.....	3,067	2,796	3,081	3,253	2,973
Dairy products.....	922	884	868	990	1,010
Poultry products.....	92	78	269	280	27
Cattle and calves.....	954	911	1,036	1,070	1,092
Sheep and lambs.....	359	304	311	296	301
Hogs.....	291	274	210	251	236

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

2/ Preliminary.

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

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

Category <u>1/</u>	1950	1960	1969	1970 <u>2/</u>
All cattle.....	12,500	13,000	13,000	12,000
Dairy cattle.....	5,400	3,800	2,000	2,000
Sheep and lambs.....	18,000	31,000	22,000	16,000
Hogs.....	3,000	2,500	3,000	NA
Chickens.....	NA	NA	25,000	22,000
Turkeys raised.....	NA	NA	3,500	3,500

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

2/ Figures are preliminary.

NA - not available.

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

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

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Meat packing plants.....	2	3	NR	8 <u>1/</u>
Poultry and small game packing, wholesale,.....	1	1	61	61
Dairy products.....	1	1	29	29
Dried and dehydrated fruits and vegetables.....	1	1	15	15
Frozen fruits, juices, vegetables and specialties.....	1	1	45	45
Candy and confectionary products.	1	1	2	2
Bottled and canned soft drinks...	1	1	11	11

NR - not reported.

1/ Some or all firms did not record number of employees.

SOURCE: Oregon State Executive Department, Economic Development Division,  
Directory of Oregon Manufacturers - 1970.  
Oregon State Department of Commerce, Economic Development Division,  
Directory of Oregon Manufacturers - 1968.

#### Logging and Wood Products

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

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Logging camps and contractors.....	16	25	132	203 <u>1/</u>
Sawmills and planing mills, general...	12	12	658	586
Veneer and plywood.....	4	4	597	516
Special product sawmills, not classi- fied elsewhere.....	1	1	2	2
Hardwood dimension and flooring mills.	1	1	11	30

1/ Some or all of the firms did not report number of employees.

SOURCE: Oregon State Department of Commerce, Economic Development Division,  
Directory of Oregon Manufacturers - 1968.  
Oregon State Executive Department, Economic Development Division,  
Directory of Oregon Manufacturers - 1970.

Table 70. Timber Harvest by Ownership, Benton County, 1970 1/

Ownership	Production <u>2/</u>	Percent of Total
Total timber harvest.....	139,265	100.00
Private <u>3/</u> .....	52,309	37.56
Bureau of Land Management <u>4/</u> .....	49,745	35.72
National forest <u>5/</u> .....	28,447	20.43
State <u>3/</u> .....	8,764	6.29

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.

4/ Compiled by Bureau of Land Management.

5/ Compiled by U.S. Forest Service.

SOURCE: USDA Forest Service Resource Bulletin PNW-38, "1970 Timber Harvest", Pacific Northwest Range and Experiment Station, 1971.

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

Species	Type of Industry		
	Sawmills	Veneer and Plywood	Shake and Shingle
All species.....	197,963	28,591	NA
Douglas-fir.....	181,058	28,483	NA
Hemlock.....	8,588	108	NA
True firs.....	257	-	NA
Other softwoods.....	2,560	-	NA
Hardwoods.....	5,500	-	NA

NA - not available.

1/ Scribner log rule.

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

Table 72. Installed 8-hour Capacity of Wood-Using Industries  
Benton County, 1968

Industry	Capacity
Sawmill-lumber <u>1/</u> .....	873
Veneer and plywood <u>2/</u> .....	215
Pulp and board mills <u>3/</u> .....	110

1/ Scribner log rule, thousand board feet.

2/ square feet, 3/8 inch basis, veneer only.

3/ 24 hour capacity in tons.

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

### Manufacturing

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

Item	Value Added	Percent of Total
All manufacturing.....	\$28,400,000	100.00
Sawmills and planing mills.	6,700,000	23.59
Lumber and wood products...	17,100,000	60.21
Other.....	4,600,000	16.20

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

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

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Canvas and related products.....	1	1	2	2
Pressed and molded pulp goods.....	1	1	87	35
Newspapers-publishing and printing.	2	2	80	80
Miscellaneous publishing.....	1	1	12	12
Commercial printing, except lithographing.....	3	4	5 <u>1/</u>	8 <u>1/</u>
Engraving and plate printing.....	1	1	3	4
Typesetting.....	1	1	3	3
Soap and other detergent, except specialty cleaners.....	-	1	-	2
Tires and inner tubes.....	-	1	-	1
Miscellaneous plastic products.....	-	1	-	7
Machine tools, metal forming types.	1	1	6	6
Woodworking machinery.....	2	2	10	20
Pumps, air and gas compressors, and pumping equipment.....	-	1	-	40
Service industry machines, not classified elsewhere.....	1	1	75	85
Miscellaneous machinery, except electrical.....	2	4	21	30
Electrical housewares and fan.....	1	1	37	37
Electronic components, not else- where classified.....	-	1	-	25
Trailer coaches.....	1	1	<u>1/</u>	<u>1/</u>
Signs and advertising displays.....	1	1	<u>10</u>	<u>10</u>

1/ Some or all firms did not report number of employees.

SOURCE: Oregon State Department of Commerce, Economic Development Division,  
Directory of Oregon Manufacturers - 1968.  
 Oregon State Executive Department, Economic Development Division,  
Directory of Oregon Manufacturers - 1970.

### Mining

Most of the income from mineral production is derived from sand, gravel, and stone, and varies considerably from year to year, depending on construction activities within the county.



Table 75. Value of Mineral Production, Benton County, 1961-1970

Year	Value	Minerals Produced in Order of Value				
1961.....	\$ 251,000	Sand and gravel, stone, clays				
1962.....	318,000	"	"	"	"	"
1963.....	423,000	"	"	"	"	"
1964.....	543,000	"	"	"	"	"
1965.....	1,323,000	"	"	"	"	"
1967.....	210,000	"	"	"	"	"
1970.....	1,030,000	"	"	"	"	"

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

Table 76. Mineral, Metal, and Related Manufacturing, Benton County  
1968 and 1970

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Brick and structural clay tile.....	2	1	5 <u>1/</u>	13 <u>1/</u>
Structural clay products, not classified.....	-	1	-	5
Concrete products except block and brick.....	1	1	13	13
Minerals and earths, ground or treated.....	3	3	96 <u>1/</u>	148
Nonmetallic mineral products, not elsewhere classified.....	-	1	-	5
Secondary smelting and refining of non-ferrous metals.....	-	1	-	<u>1/</u>
Aluminum castings.....	-	1	-	35
Fabricated structural steel.....	-	1	-	4
Fabricated platework (boiler shops)	-	1	-	12
Sheet metal work.....	1	1	6	4
Electroplating, plating, polishing, anodizing, coloring.....	1	1	35	72
Fabricated pipe and pipe fittings..	-	1	-	62
Products of petroleum and cola, not classified elsewhere.....	1	-	3	-

1/ Some or all of the firms did not report numbers of employees.

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

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

## Outdoor Recreation

Table 77. Benton County Park and Recreation Facilities, 1972

Ownership and Name	Facilities & Activities <u>1/</u>
<u>U.S. Forest Service</u> Mary's Peak.....	TS, PS, GP, T, S, V
<u>Bureau of Land Management</u> Alsea Falls.....	TC, PS, T, F, S, W

1/ TC - tent camping                      T - trails  
TS - trailer sites                      S - stream  
PS - picnic sites                      V - scenic views  
GP - group picnic sites                W - water falls  
SOURCE: Oregon State Highway Division, Travel Information Section,  
1972 Oregon Parks.

In addition to the federally owned recreational facilities listed above, there are two special points of interest located within the county. One is the Bureau of Sports Fisheries and Wildlife's National Wildlife Refuge located off US 99W near Monroe. The Refuge provides opportunities for nature study, sightseeing, photography, and wildlife viewing.

The other special point of interest in the county is the Oregon Fish Commission's Fish Hatchery at Alsea. Visitors are welcome to come and view the interesting operations at the hatchery.

The city of Corvallis also operates several parks within the city limits that provide play-ground equipment for children along with recreational opportunities for adults.

The following table gives data on the game harvest in Benton County. Many local residents of the county take advantage of the hunting opportunities in the county in addition to some people who travel to the county to hunt.

Table 78. Benton County Game Harvest

Game	Hunters		Harvest		Days Hunted
	Number	Percent of State Total	Number	Percent of State Total	
Ducks.....	1,560	2.80	17,860	3.14	12,120
Geese.....	1,170	4.17	3,030	4.76	5,400
Pheasant.....	2,510	3.48	7,011	2.88	11,602
Quail.....	783	2.99	4,456	2.81	4,326
Blue & ruffed grouse.....	91	1.18	158	.94	255
Silver-gray squirrel....	130	2.84	1,287	5.91	668
Band-tailed pigeon.....	523	4.21	5,085	4.20	2,236
Mourning dove	796	4.86	7,301	3.71	2,950
Deer 1/.....	9,280	3.32	4,150	4.72	NA
Elk 1/.....	840	1.13	104	1.01	4,030

NA - not available.

1/ Alsea Game Management Unit figures, not Benton County. The Alsea Game Unit is not entirely contained within the county, nor does it cover the entire county.

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

Business

Table 79. Retail and Wholesale Trade, Benton County, 1967

Kind of Business	Establishments	Paid 1/ Employees	Sales
	- - number - -	- number -	\$1,000
Retail trade, total.....	311	1,931	\$62,336
Lumber, building materials, hardware, farm equipment dealers, total 2/...	22	NA	7,747
General merchandise group stores.....	16	NA	6,990
Food stores.....	42	NA	14,714
Automotive dealers.....	22	NA	10,905
Gasoline service stations.....	43	NA	6,466
Apparel, accessory stores.....	19	NA	3,863
Furniture, home furnishings, equip- ment stores.....	18	NA	2,324
Eating, drinking places.....	48	NA	3,822
Drug stores, proprietary stores.....	10	NA	3/
Other retail stores.....	56	NA	6,602
Nonstore retailers.....	15	NA	3/
Wholesale trade, total.....	40	353	37,550
Merchant wholesalers.....	27	NA	26,426
Other operating types.....	13	NA	11,124

1/ Excludes active proprietors of unincorporated businesses.

2/ Only those counties with 100 or more establishments are broken down into types of business.

3/ Withheld to avoid disclosure.

SOURCE: U.S. Bureau of the Census, Census of Business, 1967 Retail Trade: Oregon, BC67-RA39; U.S. Census of Business, 1967 Wholesale Trade: Oregon, BC67-WA39, U.S. Government Printing Office, Washington, D.C., 1969.

Table 80. Selected Services, Benton County, 1967

Kind of Business	Number Establish- ments	Receipts (\$1,000)	Number Paid 1/ Employees
Selected services, total.....	237	\$6,952	571
Hotels, motels, tourist courts, camps, total 2/.....	20	NA	NA
Personal services.....	68	NA	NA
Miscellaneous business services.....	70	NA	NA
Auto repair services, garages..	28	NA	NA
Miscellaneous repair services..	28	NA	NA
Motion pictures,.....	4	NA	NA
Amusement, recreation services, except motion pictures.....	19	NA	NA

1/ Excludes active proprietors of unincorporated businesses.

2/ Only those counties with 300 establishments or more are broken down into type of services.

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

## PUBLIC SERVICES

### Transportation

Benton County has regular bus service to Corvallis and an airport is also located in Corvallis. Regular truck service is available within the county and to points outside the county.

Major transportation routes are State Highway 34 which enters the county in the southwest corner and travels north-eastward to Corvallis; U.S. Highway 20 which crosses the county in an east-west direction and passes through Corvallis; State Highway 99W which enters the county near Monroe and travels north, through Corvallis, and leaves the county near Buena Vista. Interstate 5, a major north-south freeway passes 10 miles to the east of Corvallis, just outside the county's border.

Table 81. Miles of Roadway in Benton County, 1972

Agency	Miles
Federal agency roads.....	207
State agency roads.....	160
County and public usage roads <u>1/</u>	524
City streets.....	108
Total.....	999

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 and Streets in Oregon, 1970.

Table 82. Number of Aircraft and Boats in Benton County, 1968

Subject	Number
Aircraft.....	44
Boats.....	1,416

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

Table 83. Motor Vehicle Registration, Benton County, 1970 and 1972

Vehicle	Number of Vehicles	
	1970	1972
Passenger vehicles.....	25,609	28,103
Buses.....	48	19
Trucks.....	1,165	1,507
All trailers.....	1,561	893
Motorcycles.....	1,306	1,812
Recreational 1/.....	1,619	2,178
Snowmobiles.....	NA	18
Total vehicles.....	31,308	34,503

NA - not available.

1/ Includes campers and travel trailers.

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

### Communication

Table 84. Communication Facilities, Benton County

Type Service	Location	Network Affiliation
Radio		
KFLY - AM.....	Corvallis	ABC
KFLY - FM.....	Corvallis	ABC
KLOO.....	Corvallis	-
Educational radio		
KBVR - FM.....	Corvallis-OSU	-
KOAC - AM.....	Corvallis-OSU	NPR
Educational TV		
KBRV.....	Corvallis-OSU	-
KOAC.....	Corvallis-OSU	PBS
Telephone		
Monroe Telephone Co.....	Monroe	
Pioneer Telephone Coop...	Alsea, Bellfountain, Blodgett, Kings Valley Lobster Valley, Philomath, Summit	
Pacific Northwest Bell...	Corvallis	
Newspapers		Days Published
Benton County Herald.....	Corvallis	Thursday
Gazette-Times.....	Corvallis	Daily, exc. Sunday
Barometer.....	Corvallis-OSU	Tues.-Sat. of school year

SOURCES: Oregon Association of Broadcasters, Directory of Radio and Television Stations for the State of Oregon, 1972. Oregon State Executive Dept., Clay Myers, Secretary of State, Oregon Blue Book, 1973-74, January, 1973. Pacific Northwest Bell, unpublished data.

Table 85. Residential Communication Facilities, 1960 and 1970, Benton County

Facilities	Number of Housing Units	
	1960	1970
<u>Battery radio sets</u>		
Yes.....	10,429	12,643
No.....	509	3,224
<u>Telephone available</u>		
Yes.....	9,358	14,835
No.....	1,400	1,063
<u>Television sets</u>		
None.....	2,640	1,347
One.....	7,855	11,867
Two or more.....	443	2,653
<u>UHF equipped</u>		
Yes.....	NA	4,947
No.....	NA	9,537

NA - not available.

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

Library Facilities

Table 86. Benton County Libraries, by City of Location, 1969-70

City	Volumes	Circulation	Circ./Capita	Hrs. Open Per Week	Operating Expend.	Expend. Capita
Corvallis Hdqtrs...	82,633	383,659	NA	63	\$183,003	NA
Monroe.....	2,519	5,832	15.35	10	743	\$1.96
Philomath.....	6,845	17,665	10.39	32	4,226	2.49
Extension Service 1/	NA	10,554	NA	NA	NA	NA
Total.....	91,997	417,700	8.19	NA	187,972	3.69

NA - not available.

1/ Circulation for bookmobiles and stations is included in Extension Service Volumes.

SOURCE: Oregon State Library, Directory of Oregon Libraries, annual statistics for the year ending June 30, 1970.

## Utilities

Table 87. Housing Units by Water Supply and Sewage Disposal, 1970

Subject	Benton County		State
	number	percent <u>1/</u>	Percent <u>1/</u>
Water source			
Public system or private co.....	12,273	73.88	79.8
Individual well.....	3,893	23.43	16.9
Other or none.....	451	2.71	3.0
Sewage disposal			
Public sewer.....	11,077	66.68	61.0
Septic tank or cesspool.....	5,114	30.78	37.5
Other or none.....	426	2.56	1.43

1/ Percent of all year-round housing.

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.

Table 88. Types of Fuels for Heating, Cooking, Number of Housing Units, 1960 and 1970

Type of Fuel	Home Heating Fuel		Water Heating Fuel		Cooking Fuel	
	1960	1970	1960	1970	1960	1970
Utility gas.....	1,607	5,726	1,431	2,808	845	1,103
Fuel oil, kerosene, etc.	5,422	3,340	256	149	19	-
Coal or coke.....	20	18	20	-	20	-
Wood.....	1,541	636	288	-	278	15
Electricity.....	1,699	5,606	8,229	12,567	9,010	14,263
Bottled, tank, or LP gas	344	333	432	304	766	459
Other fuel.....	305	146	83	25	-	-
None.....	-	62	199	14	-	27
All housing units.....	11,715	15,867				

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



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

Subject	Corvallis	
	Number	Percent
Water source		
Public system or private co.	4,555	96.71
Individual well.....	150	3.18
Other.....	5	.11
Sewage Disposal		
Public sewer.....	4,420	93.84
Septic tank or cesspool.....	290	6.16
Other or none.....	--	

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.

PUBLIC FINANCE

Table 90. Selected Items of Local Government Finances, Benton County, 1966-67

Item	Benton County		State
	Total Amount	Per Capita Amount	Per Capita Amount
	- \$1,000 -	- - - -	dollars - - - -
General revenue, exc. interlocal.	\$11,780	\$239.92	\$308
Intergovernmental revenue.....	4,201	85.56	97
From state government.....	3,395	69.15	83
From local sources.....	7,579	154.36	210
Taxes.....	5,772	117.56	156
Property.....	5,611	114.27	151
Other.....	162	3.29	5
Charges and miscellaneous.....	1,807	36.79	54
Direct general expenditure.....	13,382	272.55	316
Capital outlay.....	3,861	78.64	62
Other.....	9,521	193.91	254
Education.....	9,370	190.84	180
Other than capital outlay....	6,191	126.09	152
Highways.....	1,092	22.25	30
Other than capital outlay....	948	19.30	20
Public welfare.....	30	.61	2
Hospitals.....	-	-	6
Other than capital outlay....	-	-	-
Health.....	174	3.54	4
Police protection.....	416	8.47	12
Fire protection.....	261	5.32	9
Sewerage.....	460	9.38	8
Other than capital outlay....	64	1.31	3
Sanitation other than sewerage.	23	.48	2
Parks and recreation.....	174	3.55	10
Natural resources.....	75	1.53	4
Housing and urban renewal.....	-	-	4
Correction.....	47	.97	2
Libraries.....	215	4.38	3
Financial administration.....	124	2.52	5
General control.....	228	4.64	8
General public buildings.....	48	.98	3
Interest on general debt.....	357	7.28	6
Other and unallocable.....	286	5.82	21
Water supply revenue.....	510	10.38	12
Water supply expenditure.....	370	7.54	13
General debt outstanding.....	12,714	258.94	214
Long-term.....	12,351	251.55	203
Local schools.....	8,979	182.87	101
Other.....	3,372	68.68	101

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 91. City Valuation, Tax Rates and Taxes Extended in Benton County  
for 1971-72 Fiscal Year

Item	Corvallis	Philomath	Monroe
Population.....	36,726	1,800	450
True Cash Value (TCV).....	\$227,359,664	\$8,598,265	\$1,946,528
Per capita TCV.....	6,191	4,777	4,326
City tax.....	1,050,402	45,915	12,263
Consolidated tax.....	7,777,974	247,114	58,902
Per capita tax			
City.....	29	26	27
Consolidated.....	212	137	131
Percentage of total levy			
County.....	3.3	3.9	3.7
City.....	13.5	18.6	20.8
School.....	83.2	77.5	75.4
Other.....	.0	.0	.0
Average rate/\$1000TCV			
County.....	1.13	1.13	1.13
City.....	4.62	5.34	6.30
School.....	28.46	22.27	22.83
Other.....	.00	.00	.00
Total.....	34.21	28.74	30.26

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

Table 92. Amount and Percent of Unpaid 1970-71 Property Tax,  
as of June 30, 1971, Benton County

Item	Total Amount	Amount Unpaid	Percent Unpaid
Property taxable			
Real.....	\$9,644,882	\$1,101,323	11.4
Personal.....	913,830	106,168	11.6
Public utilities.....	786,868	38,729	4.9
Western Oregon additional timber tax.....	55,951	29,003	31.7
Yield tax.....	1,229		
Other.....	34,090		
Total for collection.....	11,436,779		

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

Table 93. Summary of 1971-72 Property Tax Levies and Assessments, Benton County

Item	Amount in dollars
<u>Levies</u>	
County.....	\$ 466,149
Cities.....	1,112,828
Community colleges.....	590,476
Elementary and secondary school districts	
Intermediate county.....	2,642,670
Education joint.....	1,023
Elementary and unified.....	7,269,990
Union high.....	432,385
County unit.....	-
Total school districts.....	10,346,068
Special districts	
Cemetery.....	632
Fire protection.....	135,943
Hospital.....	-
Park and recreation.....	-
Port.....	-
Road.....	503
Sanitary.....	-
Water supply.....	-
Other.....	981
Total special districts.....	138,059
Total gross ad valorem levies.....	12,653,580
Special assessments	
Fire patrol.....	41,319
Forest fee.....	154
Diking and drainage.....	-
Irrigation.....	-
Lighting.....	-
Other.....	7,882
Total special assessments.....	49,355
Total gross levies and assessments.....	12,702,935
Less property relief money	
Senior citizens.....	(59,775)
Game commission.....	-
Total net ad valorem levies.....	12,593,805
Net ad valorem taxes by class	
Real property.....	10,659,440
Personal property.....	1,034,199
Utility property.....	900,165

SOURCE: Oregon State Department of Revenue, 1971-72 Fiscal Year and 1969-70 Property Tax Collections, Research and Special Services Division, 1972.

Table 94. Summary of Assessment Rolls for 1971-72 Fiscal Year Real Property  
Personal Property and Utilities, Benton County

Item	Assessed Value	Percent of Total
	\$1,000	
<u>Class</u>		
Real property		
Lands inside corporate limits.....	\$57,973	14.11
Lands outside corporate limits.....	56,955	13.87
Improvements inside corporate limits.....	146,924	35.77
Improvements outside corporate limits.....	78,170	19.03
Timber (excludes land).....	12,278	2.99
Less veterans exemptions.....	(3,139)	.76
Less senior citizens residence exemptions.	(1,694)	.41
Taxable real property.....	347,466	84.61
Personal property		
Merchandise and stock in trade.....	13,536	3.29
Furniture, fixtures and equipment.....	5,145	1.25
Farm machinery and equipment.....	3,328	.81
Other machinery and equipment.....	8,251	2.00
Livestock.....	1,530	.37
Miscellaneous.....	2,245	.54
Less veterans exemptions.....	(47)	.01
Less senior citizens residence exemptions.	(41)	1/
Taxable personal property.....	33,946	8.26
Total taxable real and personal property....	381,413	92.88
Utilities		
Airline companies.....	63	.01
Electric companies.....	11,618	2.82
Express companies.....	-	-
Gas companies.....	5,585	1.36
Heating companies.....	-	-
Pipeline companies.....	-	-
Railroad companies.....	2,502	.60
Tank and private car companies.....	13	1/
Telegraph companies.....	13	1/
Telephone companies.....	9,220	2.24
Water companies.....	160	.03
Water transportation companies.....	48	.01
Taxable utility property.....	29,221	7.11
Total taxable real, personal, and utility property.....	410,634	100.00

1/ Less than .01 percent.

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

## Selected List of Agencies

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

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

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

1. 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

10. Governor's Office, Economic Development Special Projects, State Capitol Building, Salem, Oregon 97310
11. Local Government Relations Division, Oregon Executive Department, 240 Cottage S.E., Salem, Oregon 97310
12. Oregon Association of Broadcasters, Allen Hall, University of Oregon, Eugene, Oregon 97403
13. Oregon Board of Higher Education, School Finance and Statistical Services, 942 Lancaster Dr. N.E., Salem, Oregon 97310
14. Oregon Department of Geology and Mineral Industries, 1400 S.W. 5th St., Portland, Oregon 97201
15. Oregon Educational Coordinating Council, 4263 Commercial S.E., Salem, Oregon 97310
16. 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
20. Oregon State Highway Division, State Parks and Recreation Section, 8009 E. Burnside, Portland, Oregon 97215
21. Oregon State Lands Division, 502 Winter N.E., Salem, Oregon 97310
22. Oregon State Library, State Library Building, Salem, Oregon 97310
23. Oregon State Public Welfare Division, Department of Human Resources, Public Services Building, Salem, Oregon 97310
24. Pacific Northwest Forest and Range Experiment Station, U.S. Forest Service, 809 N.E. 6th St., Portland, Oregon 97232
25. Secretary of State's Office, State Capitol Building, Salem, Oregon 97310
26. Soil Conservation Service, U.S.D.A., 1218 S.W. Washington, Portland, Oregon 97205
27. State Water Resources Board, 1158 Chemeketa N.E., Salem, Oregon 97310
28. U.S. Department of Commerce, 921 S.W. Washington, Portland, Oregon 97204 (for copies of U.S. Census publications)

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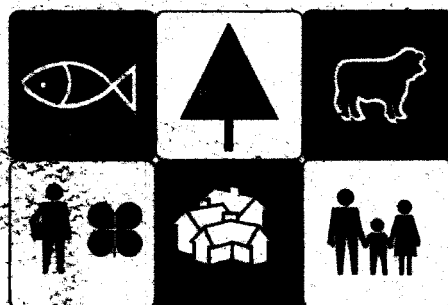
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