

Douglas County, Oregon

RESOURCE ATLAS

- NATURAL
- HUMAN
- ECONOMIC
- PUBLIC

MAY 1973

EXTENSION *Community Development* PROJECT

OREGON STATE UNIVERSITY

Douglas County, Oregon

RESOURCE

ATLAS

NATURAL

HUMAN

ECONOMIC

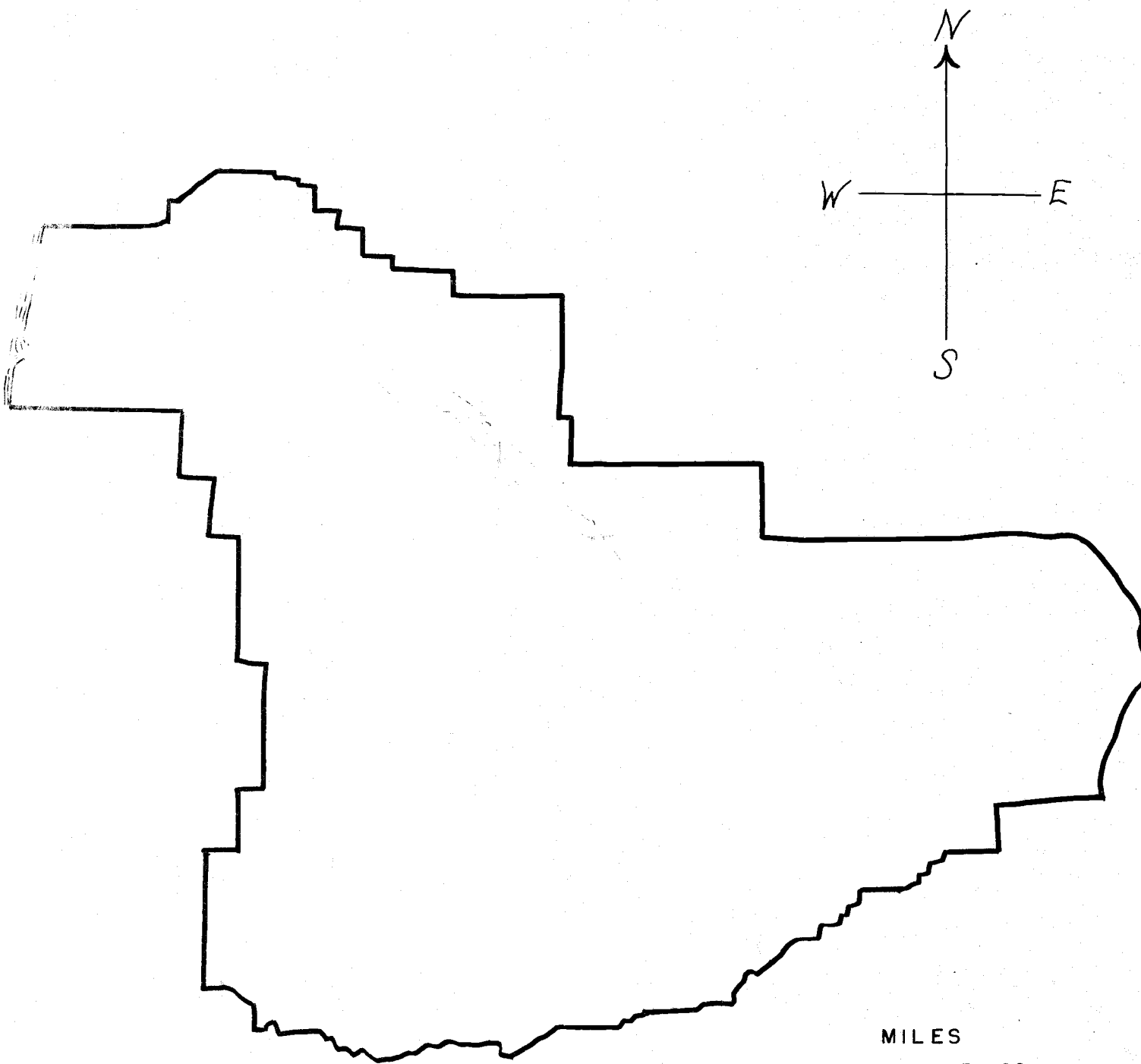
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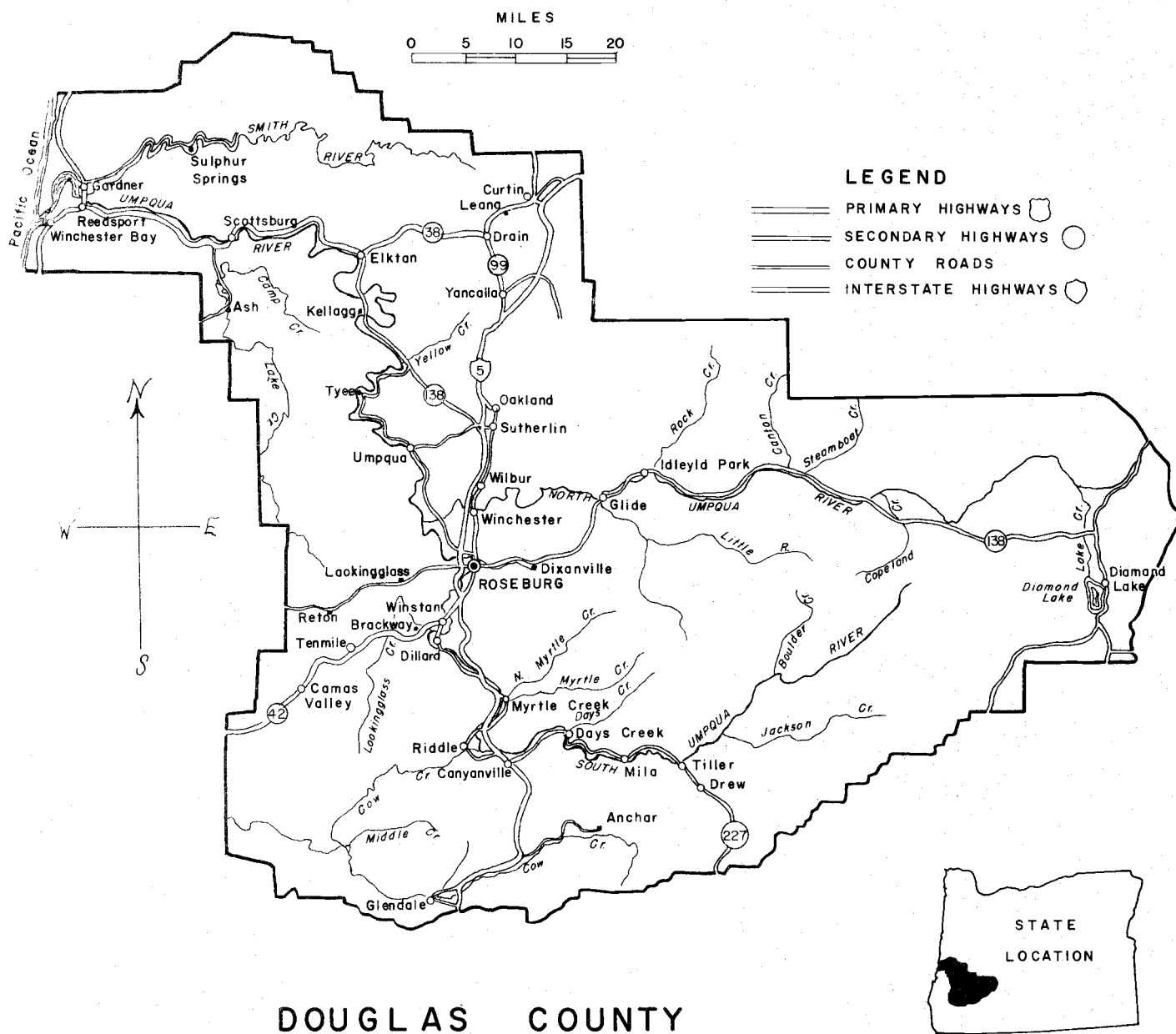
Oregon State University Extension Service

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DOUGLAS COUNTY



Contents

General Description	1
Physical Aspects.	2
Climate	3
Soils	5
Soil Characteristics and Land Capability.	7
Land Ownership.	10
Land Use.	11
Agricultural Land	12
Forest Land	13
Water	16
Water-based Recreation.	21
Minerals.	22
Wildlife.	22
Human Resources	24
Population.	24
Employment.	27
Income.	34
Education	37
Health and Vital Statistics	42
Public Welfare.	45
Housing	46
The County's Economy.	47
Agriculture	47
Logging and Wood Products	52
Manufacturing	55
Mining - Mineral and Metal Industries	55
Outdoor Recreation.	56
Business.	64
Public Services	66
Transportation.	66
Communication	68
Library Facilities.	69
Utilities	70
Public Finance.	72
Selected List of Agencies	78
Selected Bibliography	80

GENERAL DESCRIPTION 1/

Douglas County encompasses an area of 3,240,320 acres and ranks fifth among counties in area. Its boundaries are very nearly the same as those of the Umpqua River drainage basin. The county has a temperate maritime climate with dry, warm summers and wet, mild winters. The average annual precipitation varies from a low of 24 inches in the interior valleys to over 100 inches in the coastal mountains. The interior valleys, which are the areas of agriculture and population density have a median temperature near 54° F.

One twentieth of the nation's virgin timber reserves are located in Douglas County. The nation's only operational nickel mine is located at Riddle.

Douglas County is located in southwestern Oregon and is bordered by the Pacific Ocean and Coos, Curry, Josephine, Jackson, Lane, and Klamath Counties. The county's southern border is approximately 60 miles north of the Oregon-California border.

The county seat, Roseburg, is 71 miles south of Eugene and 184 miles south of Portland via Interstate Highway 5.

Area: 5,089 square miles
3,240,320 acres

Population: 71,743
(July 1, 1972)

Elevation at Roseburg: 479 feet

True Cash Value: \$803,218,000
(January 1971)

Average Temperature:

Summer - 65.8

Winter - 44.6

Principal Industries:

Lumbering, Mining, Agriculture,
Fishing, Recreation

County Seat: Roseburg

1/ Oregon State Executive Department, Clay Meyers, Secretary of State, Oregon Blue Book, 1971-72, January 1971.

PHYSICAL ASPECTS ^{1/}

The lowland section of Douglas County has large areas covered with alluvial material of recent and Pleistocene age. This material is variable in texture, coarse-fragment content, degree of weathering, and lithology. Basalt and related volcanic rocks of Eocene age occur in the lowlands in the vicinity of Roseburg, Elkhead, and Drain. Sedimentary rocks of the Eocene age make up most of the remaining area. They are in the Umpqua formation consisting of thinly bedded, alternating strata of mudstone and sandstone.

The Cascade Mountains area are made up almost entirely of basic volcanic rocks, including lava, tuff, and breccia. These rocks of late Eocene to late Miocene age have been warped, faulted, and altered. Evidence of uplift in these mountains after the Miocene age outpouring of basalts occurred in two stages. The amount of uplift varies from a few hundred feet along the western margin to as much as a few thousand feet along the axis of the range.

The rocks of the Coast Range are mostly sandstone, mudstone, and siltstone of Eocene age, generally part of the tyee formation. Slip scars and landslide debris suggest that mass movement has been important in the formation of the regolith.

The Klamath section is an area of generally resistant rocks of Jurassic and Cretaceous age that have been leveled by erosion, uplifted a few thousand feet and then dissected by two or more later cycles of erosion. The sedimentary rocks and igneous rocks have been altered by heat and pressure in varying degrees.

Douglas County extends from sea level at the Pacific Ocean to 9,182 feet to Mt. Thielsen in the Cascade Mountains. It has the entire Umpqua River drainage basin. The basin is a long north-south alluvial valley, and within the basin many short, discontinuous valleys follow the Umpqua River and its tributaries. To the south, the Umpqua River drainage basin is separated from the Rogue River basin by a ridge of the Klamath Mountains which reaches 6,000 feet in elevation. To the north, the Calapooya hills, reaching elevations of 1,500 feet, separate the Umpqua and Willamette drainage basins. To the west is the Coast Range, rising to 2,500 feet, and to the east are the Cascade Mountains which reach heights of 9,000 feet.

The extreme eastern edge of the county lies in the Cascade mountains in a band of peaks ranging from 4,300 to 9,182 feet on Mt. Thielsen, which straddles the eastern boundary. The ridges and mountains that separate the

^{1/} State Water Resources Board, "Oregon's Long Range Requirements for Water", General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16, 1969.

Douglas County Planning Commission, The Character of Douglas County, 1955.

Umpqua basin from other drainage basins and form the rim of the county are responsible for the lack of heavy winds and reap the moisture from the skies to provide the precipitation required to produce the forest wealth of the county.

The flat, or relatively flat, land of the county follows the Umpqua River and its tributaries.

Elevations of cities within the county are: Glendale 1,446 feet; Riddle 715 feet; Roseburg 479 feet, Oakland 453 feet; and Drain 299 feet.

Climate

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

The outstanding characteristic of the county's climate is the seasonal distribution of precipitation. About 60 percent of the annual precipitation occurs during the November through February winter storm season while only 10 percent occurs during the June through September dry season.

The average annual precipitation is as low as 24 inches in the valley portions of the county but increases rapidly with elevation to over 100 inches in parts of the Coast Range in the western portion of the county. Below 2,000 feet elevation, most of the precipitation occurs as rain falling at low intensities. Intensity of precipitation and the proportion of precipitation that occurs as snow increases from about 2 percent on the floor of the valley region to 50 percent at 5,000 feet elevation and about 75 percent at 7,000 feet. Winter snow accumulations are quite large in much of the Cascades where they are an important source of summer streamflows. Summer precipitation in the county is limited to occasional light rainstorms and thunderstorms and frequently there are periods of from 60 to 90 days when no rainfall occurs.

The prevailing winds are from the north and north-west during the summer and from the south and south-west during winter storm periods. Wind velocities are moderate; the highest wind velocity ever recorded at Roseburg was 40 m.p.h.

Seasonal temperature variations are small in the valley area of the county. Winter temperatures below 10 degrees and summer temperatures above 100 degrees are rare. Maximum temperatures at Roseburg during the four summer months normally range from 74 to 84 degrees, although maximum daily as high as 106 degrees have been recorded. The normal minimum January temperature is 33.4 degrees. Some freezing of short duration occurs in the valley every winter. Temperatures in the Cascades are generally cooler and seasonal variations greater than elsewhere in the county.

The frost-free season in most of the valley area of the county is from April to October, a period of 190 to 220 days.

Table 1. Temperature and Precipitation, Douglas County, By Month 1951-1960

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Average Temperature	- - - - - degrees Farenheit - - - - -												
Drain 1NE.....	41.6	44.2	45.8	51.6	56.8	61.3	66.8	65.6	62.5	54.7	46.0	42.6	53.3
Reedsport.....	44.5	45.8	46.1	49.6	53.8	57.0	59.7	60.3	59.7	55.6	49.0	45.6	52.2
Roseburg.....	41.8	43.7	45.7	51.5	56.7	61.6	68.2	67.1	63.3	54.2	45.8	42.3	53.3
Toketee Falls ^{1/} ..	35.5	39.2	42.3	48.2	55.3	61.3	68.7	66.4	62.3	51.7	42.4	37.3	50.9
Average Precipitation	- - - - - inches - - - - -												
Drain 1NE.....	9.16	6.82	5.73	2.93	2.80	1.70	.18	.42	1.15	4.20	6.17	9.64	50.9
Reedsport.....	15.3	10.6	10.2	4.86	3.63	1.65	.50	.99	2.30	6.81	9.20	12.3	78.4
Roseburg.....	6.69	5.01	3.55	1.76	1.80	1.36	.10	.38	.97	3.00	4.00	6.59	35.2
Toketee Falls ^{1/} ..	7.61	5.76	5.46	2.99	3.26	2.38	.42	.56	1.36	4.29	5.78	8.12	48.0
Highest Temperature	- - - - - degrees Farenheit - - - - -												
Drain 1NE.....	65	70	82	95	96	99	105	101	103	91	71	68	101
Reedsport.....	67	66	73	79	93	81	94	83	96	88	68	67	96
Roseburg.....	65	70	81	90	95	99	104	103	102	94	73	69	104
Toketee Falls ^{1/} ..	59	66	80	89	94	104	103	102	109	92	67	60	109
Lowest Temperature	- - - - - degrees Farenheit - - - - -												
Drain 1NE.....	6	14	20	26	25	35	35	36	30	28	12	24	6
Reedsport.....	19	20	25	30	33	37	40	41	38	34	23	26	19
Roseburg.....	9	13	19	27	26	34	40	41	32	26	15	23	9
Toketee Falls ^{1/} ..	4	8	17	25	27	34	37	37	31	26	14	13	4
Mean Number of Days with Temperature 32°F or Below	- - - - - days - - - - -												
Drain 1NE.....	10	10	10	4	1	0	0	0	+ ^{2/}	2	8	9	54
Reedsport.....	5	4	5	1	0	0	0	0	0	0	4	4	23
Roseburg.....	12	11	10	4	+	0	0	0	+	2	9	10	58
Toketee Falls ^{1/} ..	22	18	18	9	1	0	0	0	1	5	14	21	109

^{1/} Somewhat less than 10 years.^{2/} More than 0 but less than 0.5.

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. Selected Douglas County Weather Stations

Station	Elevation	Location
Drain.....	750	In Calapooya Hills
Reedsport.....	94	On Coast
Roseburg.....	505	In Valley
Toketee Falls.....	2,430	In Cascade Range

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

Soils ^{1/}

The soils study used in this analysis includes an area that covers 1,232,000 acres, slightly more than one-third of the total area in the Umpqua Basin. About 276,000 acres of the basin are considered suitable for cultivated crop or improved pasture production.

The coastal plain consists of beaches, active sand dune, and terraces. Elevations range from sea level to 300 feet. The dune areas are rolling to steep. Most areas are void of vegetation. A few areas are covered with shore pine. Essentially no soil profile development is possible in the shifting, unvegetated sands of the dune areas, and they are classified as the miscellaneous land type, active dune land. Soils of the Netart series occur on the stabilized dunes. They are very strongly acid, with strongly leached topsoils and iron enriched subsoils. Soils of the very strongly acid Lint series occur in the silty material of the terraces.

The flood plain soils of the Coast Range are generally strongly acid. Differences between soil series are due mainly to variations in drainage and texture. Soils of the well drained Nehalem and Gardiner series generally occur adjacent to streams. In less well drained areas, soils of the moderately well drained Nestucca and the poorly drained Brenner series occur. Soils of the very poorly drained Coquille series occupy flat areas subject to tidal influences.

Soils of the Astoria and Trask series are dominant in the uplands on the west side of the Coast Range in areas receiving from 70 to over 100 inches of rainfall. These soils are very strongly acid, dark colored in the surface, and moderately fine to fine textured. Astoria soils are very deep, whereas the Trask soils are underlain by bedrock at depths between 15 to 30 inches.

^{1/} State Water Resources Board, "Oregon's Long Range Requirements for Water", General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16, 1969.

The soils of the uplands on the east side of the Coast Range are generally redder or browner than those of the west side. They generally have good drainage, increasing acidity with depth, and dark colored surface horizons fairly high in organic matter. Some of the soils have subsoil horizons of silicate clay accumulation. Dominant soils in these uplands are classified in the Blachly, Slickrock, Honeygrove, and Apt series.

Soils of the wide flood plains of the Umpqua River and major tributaries are mainly slightly acid and well drained. They are subject to seasonal or occasional overflow. The medium-textured Cloquato, moderately fine-textured Chehalis, and moderately coarse-textured Newberg are the major soils. The imperfectly drained (St) soils and the poorly drained Drain soils are less common. Soils of the coarse-textured Camas series occur near the stream channels along with inclusions of unvegetated, recent flood deposits.

A variety of soils are formed in old alluvium on terrace and fan positions. These soils have characteristics that reflect variations in source materials. Associated with uplands underlain by basalt are the soils of the Climax and Bashaw series. The well drained Climax soils are sloping fans that merge with the upland soils above and with the poorly drained, very clayey Bashaw soils below. Fans originating in the sandstone and siltstone uplands are covered by soils of the well drained Oakland series; the somewhat poorly drained, dark colored, Anlauf series; and the somewhat poorly drained, light colored, Yoncalla series. Soils of the low terraces along some of the tributaries coming out of the Cascade Mountains are mostly well drained and underlain by gravel. They include soils of the Salem, (Tl), Packard, and O'Shea series. Soils of the Dole, Olalla, and Calapooya series occur on higher, more cobbly terraces. Dole soils are well drained; Olalla soils are well to moderately well drained; and Calapooya soils are somewhat poorly drained.

A lowland area along the Umpqua River in the vicinity of Elkton is separated from the rest of the lowland section by ridges of the Coast Range. Flood plain soils in this section are similar to those in the major lowland section. Adjacent soils on the terraces are generally more acid and redder in color. These are soils of the Hedden, Mehl, and Brand series, which are well drained, somewhat poorly drained, and poorly drained, respectively.

Dixonville soils occur on southern and western slopes of the basaltic uplands. Soils of the Nekia and Jory series occur on originally forested portions of the basaltic uplands. Dillard soils occur on foothills of the Klamath Mountains. They are underlain by somewhat basic metasedimentary rocks.

Soils of the (No) series occur on gently to strongly sloping foothills and rolling uplands. They are underlain by sedimentary rocks of the Umpqua formation. Oakland and Yoncalla soils are associated with soils of the (No) series. Soils of the Willakenzie and (Sp) series occur on originally forested areas in these uplands.

The intermountain lowlands section is used mainly for the production of cultivated crops and forages. The flood plain soils are intensively used for growing irrigated specialty crops. The sloping terraces and foothills are used mainly for pasture and dryland grain production.

The dominant soils from the metasedimentary and intermediate igneous rocks belong to the Josephine and Boomer series. Boomer soils are associated with more basic rocks than those of the Josephine series. These soils are well drained, tend to become more acid with depth, and have moderately fine to fine textures.

Soils of the Cornutt and Peel series are associated with ultrabasic rocks.

In quartz diorite areas, soils of the Siskiyou series occur.

Soils of the Bashaw series occur on fans below areas of Peel soils. Soils of the Ruch, Pollard, and Kerby series occur on fans and terraces in areas surrounded by the metasedimentary and intermediate igneous rocks. The dominant flood plain soils are classified in the Camas and Newberg series.

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

The classification can be broken into two divisions: (1) land in capacity classes I through IV is generally suited for cultivation and other uses; and (2) land in capability classes V through VIII is best suited for range, forestry, and wildlife. Land capability classes are sometimes divided into subclasses to indicate the dominating limitation or hazard. The subclasses are "e" for wind or water erosion, "w" for wetness or frequent inundation from overflow, "s" for soil limitations, and "c" for climatic limitations.

All the soils of division 1 in Douglas County are limited to the interior valleys and do not include any of Class I. The area in division 1 includes 275,100 acres or approximately 8.5% of the county. The remaining 2,965,220 acres are division 2 soils.

An inventory of land use was taken by the Oregon Conservations Needs Committee in 1967 and published in 1971. The acreage covered by the inventory included about 48 percent of the total land area in Oregon by county. Most of the excluded area was federally owned land on which conservation programs were already in progress.

The inventory was developed from basic data regarding: (1) present acreage in major uses and (2) acreage of each land use classified by physical problems affecting its use. The estimates of needs for conservation treatment, for each major land use, were based on observed samples of the inventory acreage.

Table 3. Land Area and Use of Inventory Acreage, Douglas County, 1967

Use	Acres
<u>Inventory Acreage</u>	
Cropland.....	99,379
Pasture.....	125,944
Range.....	0
Forest.....	1,291,762
Other land.....	29,009
Total inventory acreage.....	1,546,094
<u>Non-Inventory Acreage</u>	
Federal land.....	1,645,093
Urban and build-up areas.....	37,123
Water areas.....	10,730
Total non-inventory acres.....	1,692,946
Total land area.....	3,239,040
Percent of total land in inventory.	47.7

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

Table 4. Use of Douglas County Inventory Acreage by Capability Class,
In Acres, 1967

Capability Class	Use				
	Cropland	Pasture-Range	Forest	Other Land	Total
I.....	4,337	0	9,063	0	13,400
II.....	15,042	0	3,368	0	18,410
III.....	18,823	0	16,881	1,919	37,623
IV.....	55,843	48,816	220,578	11,180	336,417
V.....	0	0	0	0	0
VI.....	5,334	56,625	511,145	1,383	574,487
VII.....	0	20,503	530,727	12,452	563,682
VIII.....	0	0	0	2,075	2,075
Total.....	99,379	125,944	1,291,762	29,009	1,546,094

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

Table 5. Conservation Treatment Needs, Douglas County, 1967

Classification	Acreage
Cropland, total under cultivation...	95,829
Type of treatment needed:	
Residue cover.....	8,600
Sod in rotation.....	14,534
Permanent cover.....	5,332
Drainage.....	16,576
Other.....	10,345
Pasture, total acres.....	125,944
Type of treatment needed:	
Improvement of vegetation.....	2,929
Reestablishment of vegetation...	34,368
Change in land use.....	62,482
Forest, total acres.....	1,291,762
Type of treatment needed:	
Establishment and reinforcement.	525,921
Timber stand improvement.....	132,417
Other land, total acres.....	29,009
Needing treatment.....	4,084

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

Land Ownership

In this report, land ownership in Douglas County is classified either as public lands, including federal, state, and county, or private lands. About 54 percent of Douglas County is privately owned. Most of the private land is in farms and forests. Approximately 52 percent of the county is in federal ownership, of which 27 percent is national forests administered by the U.S. Forest Service. The majority of the remaining federal land is administered by the Bureau of Land Management.

About 2.9 percent of the county is owned by the State of Oregon. About 18.6 percent of the state-owned land is administered by the State Board of Forestry, 7.7 percent by the State Highway Commission, and 72.5 percent is administered by the State Land Board.

Approximately 1.1 percent of the county is owned by the county and consists of county and city parks, municipalities, and road right-of-ways.

Table 6. Federal Land Ownership, Douglas County, 1962

Agency	Douglas County		State
	Acres	Percent	Percent
Bureau of Land Management.....	748,261	45.4	49.7
U.S. Forest Service.....	897,829	54.5	47.0
Fish and Wildlife Service.....	---	---	1.4
Bureau of Reclamation.....	---	---	.5
National Park Service.....	---	---	.3
Navy.....	---	---	.2
Corps of Engineers.....	360	.02	.1
Army.....	36	<u>1/</u>	.1
Agricultural Research Service.....	---	---	.01
Bonneville Power Administration....	21	<u>1/</u>	.01
Bureau of Indian Affairs.....	---	---	<u>1/</u>
Federal Aviation Agency.....	52	<u>1/</u>	<u>1/</u>
Maritime Administration.....	---	---	<u>1/</u>
Air Force.....	---	---	<u>1/</u>
Coast Guard.....	89	<u>1/</u>	<u>1/</u>
Veterans Administration.....	256	.01	<u>1/</u>
Federal Communications Commission..	---	---	<u>1/</u>
Bureau of Mines.....	---	---	<u>1/</u>
Post Office Department.....	---	---	<u>1/</u>
General Services Administration....	---	---	<u>1/</u>
Public Health Service.....	---	---	<u>1/</u>
All Federal Agencies.....	1,646,905	100.0	100.0
Percent Federal Ownership.....		50.8	

1/ less than .01 percent.

SOURCE: Carolan, W.B., Jr., Federal Land in Oregon, Oregon State University, 1963.

Table 7. State Land Ownership, Douglas County, 1970

Agency	Douglas County		State	
	acres	percent	acres	percent
Land Board.....	35,090	72.5	809,933	45.6
Board of Forestry.....	8,992	18.6	653,190	36.8
Highway Commission.....	3,742	7.7	221,644	4.3
Game Commission.....	528	1.1	58,123	3.3
Higher Education.....	0	---	17,762	1.0
Board of Control.....	0	---	6,615	.37
State Engineer.....	0	---	4,330	.24
Military Department.....	.4	<u>1/</u>	1,504	.08
Board of Aeronautics.....	77	.02	860	.05
Fish Commission.....	0	---	472	.03
Fair Commission.....	0	---	181	.01
Liquor Commission.....	0	---	15	<u>1/</u>
Public Employees Retirement Board..	0	---	4	<u>1/</u>
Department of Employment.....	.3	<u>1/</u>	2	<u>1/</u>
Finance and Administration.....	0	---	2	<u>1/</u>
Total.....	48,430	100.00	1,774,637	100.00

1/ Less than .01 percent.

SOURCE: Oregon State Lands Division, Inventory of State-Owned Real Property, By County, January 1970.

Table 8. Land Area in Highways, Streets, and Roads, Douglas County

Ownership	acres	percent
State highways.....	9,120	46.3
County roads.....	9,765	49.6
City streets.....	810	4.1
Total.....	19,695	100.0

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

Land Use

In 1964 by far the largest portion of Douglas County, 86.4 percent, was forest land. Next in importance was grazing land with 8.7 percent of the total area, followed by agricultural land with 4.4 percent..

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

Category	Douglas County		State
	acres	percent	percent
<u>Land Use</u>			
Urban.....	9,600	.3	.5
Industrial.....	---	---	.2
Military.....	---	---	.1
Intensive agriculture.....	142,546	4.4	6.5
Dryland farming.....	---	---	3.3
Forests.....	2,799,084	86.4	44.8
Parks.....	648	.02	.3
Conservation.....	---	---	2.3
Grazing.....	281,522	8.7	41.5
Non-productive land.....	---	---	.5
Total land area.....	3,239,680	100.00	100.0
<u>Land Ownership</u>			
Private lands.....	1,506,304		54.2
Public lands, total.....	1,733,376		55.8
Federal.....	1,646,906		51.8
State.....	57,469		2.9
Local.....	29,001		1.1

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

Agricultural Land

In 1969 the agricultural land base in Douglas County consisted of 106,710 acres of cropland, 151,430 acres of woodland, and 206,194 acres of "other" land including wasteland. Less than 4 percent of the total county area consisted of cropland while about 14 percent was in farms.

Table 10. Land in Farms, Douglas County, 1969

Item	Acres	Percent
Total land area.....	3,240,000	100.0
Proportion in farms.....		14.3
Acres in farms.....	464,334	100.0
Cropland harvested.....	31,915	6.9
Cropland pasture.....	63,920	13.8
Other cropland.....	10,875	2.3
Woodland.....	151,430	32.6
Other land.....	206,194	44.4

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

The forest land of Douglas County may be divided into four distinct zones on the basis of ecology, climate, and pattern of land ownership as follows: the Umpqua Valley zone, the principal forest zone, the upper slope forest zone, and the subalpine forest zone.

The Umpqua Valley zone generally lies below 1,000 feet elevation and has the driest and warmest climate of any part of the county. This zone was only partially forested at the time of settlement, and much of it has since been cleared for agricultural, urban, residential, and other uses. Most of the remaining forest land is generally in blocks of less than 500 acres owned by farmers and ranchers intermingled with agricultural land. There are both hardwood and coniferous stands. The hardwood stands -- cottonwoods, Oregon ash, bigleaf maple, and oaks -- occur on bottom lands subject to flooding and on dry sites. Ponderosa pine and Douglas fir are the most common coniferous species and occur on a variety of sites.

The principal forest zone begins at about 500 to 1,000 feet elevation in the Cascades and extends up to 3,000 to 4,000 feet. It contains the major share of the timber producing land of the county. More than 90 percent of this land is forested, most of which is in public ownership. Coniferous species of Douglas fir, western hemlock, western red cedar, Ponderosa pine, sugar pine, and true firs are predominant.

The upper slope forest zone begins at about 3,000 to 4,000 feet elevation and extends upward to 5,000 to 6,000 feet. About 80 percent of this land is forested; 20 percent of the land consists mainly of nonforested areas of volcanic origin, meadows, and lakes. True fir and mountain hemlock stands are predominant. Most of the land is in national forests.

The subalpine forest zone begins at 5,500 to 6,000 feet elevation in the Cascades and extends to the upper limit of tree growth. The principal tree species -- subalpine fir, mountain hemlock, whitebark pine, and Alaska yellow-cedar -- occur in scattered stands intermingled with meadows and barren areas.

About 43 percent of the forest land in Douglas County, or 1,220,000 acres, in 1963 was in private ownership. Over 24 percent of the county's forest land was owned by the commercial forest industry. About 57 percent of the forest land in the county, or 1,644,000 acres, in 1963 was in public ownership. National forest composed over 33 percent of the county's forest land.

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

The national forest land is managed under the "Multiple Use-Sustained Yield" concept. This means the management of forest and related areas in a manner that will conserve the basic land resource itself while at the same time producing high-level sustained yields of water, timber, recreation, wildlife, and forage.

On many private holdings the only management is that related to the harvesting of mature timber while on other private holdings considerable attention is given to measures that will maximize the continuous production of timber. Tree farming is gaining acceptance by private owners, and some cutover land is being reforested and managed for timber production.

There was an estimated 2,864,000 acres of commercial forest land in Douglas County in 1963. Commercial forest land is forest land that is (a) producing, or is physically capable of producing, usable crops of wood, (b) economically available, now or prospectively, for timber harvest, and (c) not withdrawn from timber harvest.

In 1963, the U.S. Forest Service estimated there was 57,000 acres of noncommercial forest land in Douglas County. Noncommercial forest land is physically incapable of producing usable crops of wood or is withdrawn from timber harvest through statute, ordinance, or administrative order.

Table 11. Forest Acreage Ownership, Douglas County, 1963

Ownership	Acres	Percent
All ownerships.....	2,864,000	100.0
National forest.....	960,000	33.5
Other public.....	684,000	23.9
Forest industry.....	695,000	24.3
Farmer and miscellaneous private.	525,000	18.3

SOURCE: U.S. Forest Service, Forest Statistics for Southwest Oregon, 1964, Resource Bulletin PNW-8, Pacific Northwest Forest and Range Experiment Station.

Table 12. Volume of All Growing Stock and Sawtimber by Ownership, Douglas County, 1963

Ownership	Growing Stock	Sawtimber
	Million Cubic Feet	Million Board Feet 1/
All owners, total.....	14,945	94,234
National forest.....	6,237	40,191
Other public.....	4,281	26,596
Forest industry.....	3,626	23,575
Farmer and other private...	801	3,872

1/ International 1/4 inch rule.

SOURCE: U.S. Forest Service, Forest Statistics for Southwest Oregon, 1964, Resource Bulletin PNW-8, Pacific Northwest Forest and Range Experiment Station.

Table 13. Volume of All Growing Stock and Sawtimber on Commercial Forest Land, By Species, Douglas County, 1963

Species	Growing Stock		Sawtimber	
	Million Cubic Feet	Percent	Million Board Feet ^{1/}	Percent
All Species.....	14,945	100.0	76,986	100.0
Softwoods.....	14,144	94.6	74,210	96.4
Douglas fir.....	10,256	68.6	57,204	74.3
Ponderosa pine and Jeffery pine.....	199	1.3	826	1.1
Sugar pine.....	296	2.0	1,467	1.9
Western white pine.....	187	1.2	894	1.2
Lodgepole and other pines.....	190	1.3	217	.3
White and grand fir....	484	3.2	1,914	2.5
California and Shasta Red fir.....	88	.6	389	.5
Other true firs.....	445	3.0	1,897	2.5
Spruces.....	94	.6	530	.7
Western hemlock.....	878	5.9	4,103	5.3
Incense cedar.....	393	2.6	1,891	2.5
Port Orford cedar.....	2	<u>2/</u>	11	<u>2/</u>
Western red cedar.....	246	1.6	1,219	1.6
Other softwoods.....	386	2.6	1,648	2.1
Hardwoods.....	801	5.4	2,776	3.6
Red alder.....	225	1.5	860	1.1
Black cottonwood.....	17	.1	115	.1
Bigleaf maple.....	171	1.1	717	.9
Oak.....	132	.9	457	.6
Tanoak.....	---	---	---	---
Pacific madrone.....	193	1.3	489	.6
Other hardwoods.....	63	.4	138	.2

^{1/} Scribner Log Rule

^{2/} Less than .01 percent

SOURCE: U.S. Forest Service, Forest Statistics for Southwest Oregon, 1964, Resource bulletin PNW-8, Pacific Northwest Forest and Range Experiment Station.

Water

Table 14. Umpqua Sub-Basin Area, Douglas County

Sub-Basin	Drainage Area Square Miles
<u>Lower Umpqua River</u>	1,490
Smith River.....	347
Mill Creek.....	135
Elk Creek.....	290
Calapooya Creek.....	247
Miscellaneous streams.....	471
<u>North Umpqua River</u>	1,308
Little River.....	206
Rock Creek.....	93
Steamboat Creek.....	220
Copeland Creek.....	34
Fish Creek.....	82
Clearwater River.....	70
Miscellaneous streams.....	603
<u>South Umpqua River</u>	1,762
Deer Creek.....	63
Roberts Creek.....	24
Lookingglass Creek.....	160
Myrtle Creek.....	117
Cow Creek.....	397
West Fork Cow Creek.....	87
Canyon Creek.....	37
Elk Creek.....	80
Jackson Creek.....	155
Miscellaneous streams.....	642
Total Umpqua River Basin.....	4,560

SOURCE: State Water Resources Board, U.S.D.A. River Basin Reports on Water and Related Land Resources, 1962.

Domestic water supplies are household and minor irrigation uses by individuals not served by municipalities or other public corporations. The sources in Douglas County are: (1) surface supplies from rivers and springs; and (2) wells. Rough field reconnaissance indicates that the use of ground water for domestic supplies is limited due to the undependable nature of these supplies with respect to quality and quantity.

Municipalities and public corporations rely primarily on the surface waters of the Umpqua system. Some supplies, particularly those in the South Umpqua system, have greatly reduced supplies from July through November. Urban expansion in this area could be restricted if adequate supplies for municipal purposes are made available during periods of low summer flow.

Table 15. Municipal Water Supply Data, Douglas County

Community	1950 Population	Certified 1966 Population	Source of Water Supply	Legal Diversion Right-cfs	Use Restric- tions	Treat- ment
Canyonville....	861	1,000	O'Shea Creek	1.00	Irrig.	Chlor.
Coos Bay.....	---	14,200	N. Umpqua (out of basin use)	100.00	---	---
Drain.....	1,150	1,000	Bear Creek	4.00	None	Chlor.
Elkton.....	201	150 ^{1/}	Springs, Umpqua River	0.50	None	Chlor.
Gardiner.....		*400 ^{1/}	Stream at Fisher's Cove	---	0.1 mgd.	Chlor.
Glide.....		*100 ^{1/}	Little River	0.10	Pump cap.	Chlor.
Glendale.....	871	780	Section Cr., Mill Cr., and Cow Cr.	1.82	None	Chlor.
Myrtle Creek...	1,781	2,770	Harrison-Yong Br. of N. Myrtle Cr.	7.17	None	Chlor.
Oakland.....	829	850	Calapooya Creek & wells	2.00	None	Chlor.
Reedsport.....	2,288	4,200	Clear Lake (out of basin)	25.00	None	Chlor.
Riddle.....	634	1,100	Judd Cr., Unnamed Cr. of S. Umpqua, Wilson Cr., and Cow Cr.	2.75	None	Chlor.
Roberts Cr. Water Dis. ^{2/}		*4,000 ^{1/}	Cooper Cr. of Roberts Cr., and S. Umpqua R.	1.22	None	Chlor. Filter, Coagu.
Roseburg.....	8,390	15,000 ^{1/}	North Umpqua River	25.00	None	Chlor.
Scottsburg.....	120	*120 ^{1/}	Creek	---	---	Chlor.
Sutherlin.....	2,230	2,780	Calapooya Creek	3.00	Irrig.	Chlor. Filter, Coagu.
Winston.....		2,500	South Umpqua River	2.57	---	---
Yoncalla.....	626	6,500	Adams Cr. and Wilson Cr.	1.50	Irrig.	Chlor. Filter

* Estimated 1956 population

^{1/} 1958 certified population

^{2/} Serves Winston-Dillard

SOURCE: State Water Resources Board, "Oregon's Long Range Requirements for Water-Umpqua Drainage Basin", 1969.

Table 16. Sewage Treatment Plants, Douglas County, 1967

Location	Type ^{1/}	Built	Population	Est. Pop. Served	Design Flow MGD	Receiving Stream
Bremmer Hills Trailer Park.....	AD	1965	100	50	0.005	Lookingglass River
Canyonville.....	TF	1961	2,400	1,200	0.300	S. Umpqua R.
Douglas High S.....	AD	1963	800	600	0.016	S. Umpqua R.
Drain.....	TF	1960	2,000	1,000	0.300	Elk Creek
Glendale.....	TF	1957	1,000	700	0.200	Cow Creek
Milo Academy.....	TF	1956	450	250	0.060	S. Umpqua R.
Myrtle Creek.....	TF	1952	3,000	2,700	0.300	Myrtle Creek
N. Roseburg.....	TF	1951-64	10,000	7,500	1.000	S. Umpqua R.
Ranch Motel.....	L	1965	100	60	0.004	Yoncalla Cr.
Rice Hill.....	L	1965	400	20	0.040	Yoncalla Cr.
Riddle.....	TF	1952	2,000	1,100	0.300	Cow Creek
Roseburg.....	TF	1958	20,000	13,000	2.600	S. Umpqua R.
Sutherlin.....	TF	1956	3,500	2,800	0.700	Sutherlin Cr.
S. Umpqua H.S.....	AD	1965	150	130	0.005	S. Umpqua R.
Town & Country Mobile Park.....	AD	1960	300	150	0.015	S. Umpqua R.
Winston.....	TF	1957	3,500	2,000	0.445	S. Umpqua R.

^{1/} Type of treatment: AD - aerobic digestion, L - lagoon, TF - trickling filter

SOURCE: Oregon State Sanitary Authority, 1966-67 Annual Report.

Table 17. Maximum - Minimum Discharges, Douglas County

Stream	Gaging Station	Maximum c.f.s	Minimum c.f.s	Years of Record
Mill Creek.....	Ash	10,000 (11-23-09)	1.5 (9-13-10)	7
Umpqua River.....	Elkton	265,000 (12-23-64)	640 (7-18-26)	61
North Umpqua River.	Winchester	119,000 (12-22-64)	383 (9-25-60)	23
Sutherlin Creek....	Sutherlin	2,250 (2-10-61)	--- (9-25-60)	11
North Umpqua River.	Glide	90,000 (12-22-55)	552 (8-27-31)	17
Little River.....	Peel	21,000 (12-11-56)	15 (9-24,25-57)	12
Cavitt Creek.....	Peel	4,910 (12-26-55)	--- (9-24,25-57)	1
Rock Creek.....	Glide	22,800 (12-22-64)	14 (9-5,11-66)	10

Table 17, cont. Maximum - Minimum Discharges, Douglas County

Stream	Gaging Station	Maximum c.f.s	Minimum c.f.s	Years of Record
North Umpqua River..	Rock Creek	68,000 (12-22-55)	521 (10-16-31)	21
Steamboat Creek.....	Glide	51,000 (12-12-64)	31 (9-24-57)	10
North Umpqua River..	Copeland	40,700 (12-22-64)	565 (9-13-59)	17
Fish Creek.....	Big Camas	12,000 (12-22-64)	35 (11-27-52)	19
Clearwater River....	Mouth	1,380 (1-18-53)	192 (11-19-52)	7
Clearwater River....	Trap Creek	1,020 (12-23-64)	91 (11-4,6-31)	38
North Umpqua River..	Toketee Falls	4,680 (12-25-64)	9.7 (5-13-55)	38
North Umpqua River..	Clearwater	3,680 (1-18-53)	470 (11-22-49)	6
North Umpqua River..	Lemolo	4,680 (12-25-64)	9.7 (5-13-55)	38
Lake Creek.....	Diamond Lake	336 (1-1-43)	0 (8-25-31)	30
Deer Creek.....	Roseburg	7,910 (12-28-65)	---	9
South Umpqua River..	Brockway	105,000 (12-23-64)	36 (8-12-46)	34
Lookingglass Creek..	Brockway	35,000 (12-26-55)	---	11
North Myrtle Creek..	Myrtle Creek	3,260 (1-20-64)	.40 (8-8-59)	11
South Myrtle Creek..	Myrtle Creek	3,050 (12-11-56)	.20 (8-2-61)	11
Cow Creek.....	Riddle	41,100 (10-29-50)	18 (8-22-66)	12
West Fork Cow Creek.	Glendale	15,700 (12-22-64)	6.3 (8-22-66)	12
Cow Creek.....	Azalea	8,430 (12-22-64)	4 (9-19-29)	39
Days Creek.....	Days Creek	3,450 (2-21-56)	---	11
Elk Creek.....	Drew	8,880 (12-22-64)	.30 (8-22-66)	12
South Umpqua River..	Tiller	60,200 (12-22-64)	20 (9-3-11)	28
Jackson Creek.....	Tiller	21,100 (12-22-64)	12 (10-2-55)	11

Note: () indicates year when maximum occurred.

SOURCE: U.S. Geological Survey, taken from State Water Resources Board, Middle Willamette River Basin, June 1963.

Water supplies within the county provide adequate power for the immediate future. The estimated physical power potential of the Umpqua system is about 25 percent developed. Improvements in the flow patterns of the streams of the system would offer increased power production in many cases. Adequate supplies can be considered available as long as undeveloped sites remain from which power can be produced at a marketable cost.

The North Umpqua has developed sites of considerable power potential. Power potential for the North Umpqua totals at least 180,000 kilowatts capacity, almost the equivalent of the existing California-Oregon Power Company development above Toketee Falls on this same stream. Future possibilities of a limited nature exist elsewhere in the Umpqua system.

The main stream of the Umpqua has potential for power development. Federal Power Commission figures indicate the possibility of an installed capacity of approximately 130,000 kilowatts. With proper storage facilities, this figure could be revised upward possibly to a range of 200,000 to 220,000 kilowatts. In addition, there are two steam power plants, one at Roseburg Lumber Company, Dillard (17,000 K.W.) and one at International Paper Company, Gardiner (4,500 K.W.) which add to the power capacity of Douglas County.

Table 18. List of Existing Hydroelectric Power Projects on the North Umpqua River in Douglas County

Name of Owner	Name of Plant	Installed Capacity (KW)	Av. Annual Generation (1,000 KWH)	Gross Head (feet)
The Calif.-Oregon Power Company....	Winchester	500	3,900	14
The Calif.-Oregon Power Company....	Soda Springs	12,700	63,500	114
The Calif.-Oregon Power Company....	Slide Creek	20,000	104,000	179
The Calif.-Oregon Power Company....	Toketee Falls	44,900	232,100	448
The Calif.-Oregon Power Company....	Fish Creek	12,300	76,000	1,032
The Calif.-Oregon Power Company....	Clearwater 1	18,700	67,300	651
The Calif.-Oregon Power Company....	Clearwater 2	32,000	108,100	760
The Calif.-Oregon Power Company....	Lemolo 1	33,000	136,300	750
The Calif.-Oregon Power Company....	Lemolo 2	35,000	171,800	721

SOURCE: Federal Power Commission, Hydroelectric Power Resources of the United States, Developed & Undeveloped, 1957, Washington, D.C.

Table 19. List of Potential Power Projects in Douglas County

Name of Project or Site	River	Installed Capacity (KW)	Av. Annual Generation (1,000 KWH)	Gross Head (feet)
<u>LOWER UMPQUA</u>				
12 RD No. 3.....	Smith	3,000	13,000	130
12 RD No. 1.....	Smith	5,400	23,600	320
Loon Lake Diverson.....	Mill Creek	6,500	55,900	385
Scottsburg.....	Umpqua	38,100	290,000	100
Kelleys Smith Ferry....	Umpqua	30,800	236,000	85
Kellogg.....	Umpqua	23,500	196,000	70
Wolf Creek.....	Umpqua	37,000	298,000	145
<u>NORTH UMPQUA</u>				
Winchester.....	N. Umpqua	13,400	89,000	80
Oak Creek.....	N. Umpqua	11,300	86,500	70
Horseshoe Bend.....	N. Umpqua	14,000	98,300	90
Glide.....	N. Umpqua	9,000	62,200	60
Rock Creek.....	N. Umpqua	51,000	263,000	221
Boundary.....	N. Umpqua	44,000	216,000	187
Steamboat.....	N. Umpqua	16,300	113,000	190
Copeland Diversion.....	N. Umpqua	24,300	175,000	290
Lake Creek No. 3.....	Lake Creek	3,600	9,800	325
Lake Creek No. 1.....	Lake Creek	5,000	13,000	480
<u>SOUTH UMPQUA</u>				
Roseburg.....	S. Umpqua	3,000	22,000	50
Dillard.....	S. Umpqua	3,600	26,000	60
Ruckles.....	S. Umpqua	2,899	21,000	50
Myrtle Creek.....	S. Umpqua	3,900	28,000	70
Riddle Diversion.....	S. Umpqua	5,800	44,000	125
Days Creek.....	S. Umpqua	4,900	24,100	100
Perdue.....	S. Umpqua	4,600	20,800	100
Coffee Creek.....	S. Umpqua	3,100	20,000	80
Tiller Diversion.....	S. Umpqua	6,200	39,800	160
Deadman Creek.....	S. Umpqua	3,100	21,000	175
TOTAL.....		377,000	2,514,000	

SOURCE: Federal Power Commission, Hydroelectric Power Resources of the United States, Developed & Undeveloped, 1957, Washington, D.C.

Water-based Recreation

Sufficient quantities of water for recreational uses are of great importance to Douglas County. Most of the county's income from outdoor recreation stems from some phase of recreation allied with water. The game fishing of the Umpqua is one of the important recreation values of the county. Developments receiving greatest use are Diamond Lake and the areas along the major streams.

Minerals ^{1/}

Douglas County leads the State of Oregon in mineral production with deposits of nickel, sand and gravel, stone, mercury, gold and silver (in that order of value of mineral produced in 1968). Other minerals present of lesser value are chromite, copper, zinc, coal, sulphur, and quicksilver.

Nickel Mountain, the only commercial nickel mining operation in the U.S., is about five miles northwest of Riddle. The summit of this mountain has an elevation of 3,533 feet with the nickel deposit occupying much of the upper part of this mountain.

There are several properties in the county containing sulphide deposits in which the commercial metals are gold, silver, copper, and zinc. The best known are on Silver Peak, south of Riddle.

The county has been a leading quicksilver producer, but declining prices forced closure of the mines, the major one being the Bonanza mine east of Sutherlin. During World War II this mine was ranked second among domestic quicksilver producers.

Several chromite deposits are known in Douglas County with some small projects active from time to time depending on prices. Deposits are known on Quartzmill Peak in the Starveout Creek area (has been mined), on the South Umpqua River near Day Creek, on Nickel Mountain, and on Cow Creek south of Riddle.

Limstone occurs southeast and east of Roseburg and also in Camas Valley.

Sub-bituminous coal deposits are found at Comstock and near the Umpqua River about 17 miles west of Drain.

Sulphur occurs in small lenses at the headwaters of Castle Rock Creek near Diamond Lake.

Wildlife

The most numerous big game animal in Douglas County is black-tailed deer, but there are also Roosevelt elk.

Upland game birds in Douglas County include pheasants, valley quail, mountain quail, blue grouse, ruffed grouse, and band-tailed pigeons.

Fur bearing animals are numerous in the county. They include: beaver, otter, mink, muskrat, and raccoon.

^{1/} Douglas County Planning Commission, The Character of Douglas County, September 1955. (See Mining and Mineral Industries section for additional information.)

Table 20. Mule Deer Population Trends, Douglas County Area, 1966-1971

Management Unit ^{1/}	1971		Deer Per Mile		
	Miles Traveled	Deer Observed	1966-70	1970	1971
Dixon.....	100	439	3.6	4.1	4.4
Elkton.....	40	144	3.2	2.6	3.6
Melrose.....	100	520	4.3	4.2	5.2

^{1/} Oregon State Game Commission management units do not coincide with county boundaries. Therefore, the management units listed may contain parts of other counties.

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

Table 21. Douglas County Trapping Reports, 1970-71 ^{1/}

Animal	Number Trapped
Beaver.....	730
Otter.....	34
Mink.....	17
Muskrat.....	112
Raccoon.....	100
Skunk.....	8
Civet cat.....	106
Weasel.....	10
Opossum.....	2
Gray fox.....	6
Red fox.....	1
Wildcat.....	30
Coyote.....	22
Nutria.....	150

^{1/} 49 trapper reports were received from Douglas County.

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

Anadromous species and resident trout population comprise the basic game and commercial fisheries resources. Anadromous fish present in the county include: spring chinook, fall chinook, silver salmon, summer steelhead, and winter steelhead. The resident fish population includes: brown trout, rainbow trout, brown bullhead, and kokanee.

HUMAN RESOURCES

Population

Exploration of Douglas County began as early as the 17th century. In 1827 the Hudson Bay Company established Fort Umpqua on the Umpqua River as one of the first trading posts in the area. Increasing settlement continued along the Umpqua River, and in 1851 a site now called Roseburg was established. During this year, Umpqua County was created and included much of Coos and Curry Counties. In 1852 Umpqua County was renamed Douglas County after Senator Stephen A. Douglas. The Donation Land Law provided free land to immigrants arriving in Oregon and as a result further settlement progressed. By 1880, the population of Douglas County was 9,596.

The population of Douglas County was about 72,000 in 1971, or about 14.2 persons per square miles. This compares with 21.7 persons per square mile for the state. In 1970, about two-thirds of the population lived in rural areas while one-third lived in urban areas. There were 12 incorporated cities with a total 1966 population of 33,147. Roseburg, the county seat, had the largest population of 14,530.

The following table gives a breakdown of Douglas County's population by race and geographic area. Caucasian, Spanish Language, Black, American Indian, and "Other" racial categories are given. There are 13 geographic subdivisions called Census County Divisions plus a county total listed.

Table 22. Number of Persons by Racial Group, Douglas County, 1970

Census County Division	Number of Persons					
	Total	Caucasian	Spanish Language	Black	American Indian	Other
Calapooia.....	6,714	6,571	93	2	22	26
Elkton-Drain.....	2,739	2,715	20	1	1	2
Kellogg-Yoncalla.....	2,425	2,409	--	--	12	4
Lookingglass.....	7,011	6,827	127	--	41	16
Melrose.....	2,371	2,342	--	--	24	5
Myrtle Creek-Riddle...	10,452	10,286	71	--	68	27
North Umpqua.....	3,203	3,098	31	17	52	5
Reedsport.....	6,162	6,032	40	4	57	29
Roseburg.....	14,461	14,127	192	23	52	67
Roseburg Rural.....	9,047	8,871	110	4	30	32
South Umpqua.....	3,166	2,997	131	3	19	16
Tenmile.....	2,559	2,536	3	--	20	--
Wilbur.....	1,433	1,410	8	--	15	--
County Total.....	71,743	70,221	823	57	413	229

Dashes indicate a zero, suppressed data, or not applicable.

SOURCE: Oregon State University Cooperative Extension Service, Income and Poverty Data for Racial Groups: A Compilation for Oregon Census County Divisions, Special Report 367, Oregon State University, 1972.

Table 23. Population Rank Order in Oregon for Douglas and Bordering Counties, 1960 and 1971

County	1960		1971	
	Rank	Population	Rank	Population
DOUGLAS.....	7	68,458	8	72,000
Coos.....	9	54,955	9	56,720
Curry.....	25	13,983	26	12,770
Josephine.....	14	29,917	15	36,560
Jackson.....	6	73,962	6	97,620
Klamath.....	10	47,475	11	50,500
Lane.....	2	162,890	2	222,850

SOURCES: Oregon State Center for Population Research and Census, Population Estimates of Counties and Incorporated Cities of Oregon, Portland State University, July 1971.

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.

Between 1960 and 1970, the county growth rate was approximately 4.8 percent. This compares to a 18 percent increase for the State of Oregon during the same period of time. Although the county's population has been growing steadily, the rate of increase has been declining since the 1940's.

Table 24. Population Growth, Douglas County

Year	Population	Percent Increase	
		Period	Percent
1890.....	12,000	---	---
1900.....	14,565	1890-1900	22.8
1910.....	19,674	1900-1910	35.1
1920.....	21,332	1910-1920	8.4
1930.....	21,967	1920-1930	3.0
1940.....	25,728	1930-1940	17.1
1950.....	54,549	1940-1950	112.0
1960.....	68,458	1950-1960	25.5
1970.....	71,743	1960-1970	4.8

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

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

Years	Net Change	Natural Increase	Net Migration
1940-1950.....	28,821	3,964	24,857
1950-1960.....	13,909	12,778	1,131
1960-1970.....	3,285	8,300	-5,015

SOURCE: U.S. Bureau of the Census, U.S. Census of Population, General Demographic Trends for Metropolitan Areas, Final Report PHC (2)-39, U.S. Government Printing Office, Washington, D.C., 1950, 1960, and 1970 editions.

Table 26. Urban and Rural Population, Douglas County, 1950-70

Year	Urban		Rural	
	Population	Percent Change	Population	Percent Change
1950.....	8,390		46,159	
1960.....	19,541	132.9	48,817	6.0
1970.....	24,303	24.4	47,440	-2.8

SOURCE: U.S. Bureau of the Census, Census of Population: General Population Characteristics, Final Report PC(1) - B39 Oregon, U.S. Government Printing Office, Washington, D.C., 1951, 1961, and 1971 editions.

Table 27. Population Estimates of Incorporated Cities, Douglas County, 1965, 1970, 1971

City and County	1965	1970	1971
Douglas County.....	76,000	71,743	72,000
Canyonville.....	999	940	1,020
Drain.....	1,000	1,204	1,200
Elkton.....	153	176	180
Glendale.....	795	709	745
Myrtle Creek.....	2,750	2,677	2,705
Oakland.....	850	1,010	1,020
Reedsport.....	4,173	4,039	4,170
Riddle.....	1,106	1,042	1,060
Roseburg.....	13,400	14,461	14,530
Sutherlin.....	2,761	3,084	3,270
Winston.....	2,480	2,468	2,572
Yoncalla.....	640	675	675
Unincorporated Areas.....	44,893	39,258	38,853

SOURCE: Center for Population Research and Census, Population Estimates of Counties and Incorporated Cities of Oregon, Portland State University, 1970 and 1971 reports.

The composition of Douglas County's population by age and sex is much the same by percent as that of the State of Oregon. About 39 percent of the county's population is under 18 years of age, 54 percent is 18 to 64 years and over. The remaining 7 percent is 65 years and over. The median age in Douglas County in 1960 was 27.1 years of age. Composition by sex is split almost in half, with 50.9 percent of the population males, and 49.1 percent females. Figures for the State of Oregon are nearly the same with 36 percent under 18 years of age, 54 percent 18 to 64 years of age, 10 percent 65 years and over, and 49.8 percent males and 50.2 percent females. The median age is about 27 years old.

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

Age Group	Male		Female		Total		Percent	
	1960	1970	1960	1970	1960	1970	1960	1970
Total Population.	34,906	35,965	33,552	35,778	68,458	71,743	100.0	100.0
Under 5.....	4,115	2,918	4,074	2,980	8,189	5,898	12.0	8.2
5-9.....	4,011	3,873	4,013	3,586	8,024	7,459	11.7	10.4
10-14.....	3,803	4,186	3,686	3,980	7,489	8,166	10.9	11.4
15-19.....	2,545	3,561	2,700	3,428	5,245	6,989	7.7	9.7
20-24.....	1,653	1,942	1,941	2,295	3,594	4,237	5.3	5.9
25-34.....	4,252	4,101	4,375	4,365	8,627	8,466	12.6	11.8
35-44.....	4,738	4,182	4,507	4,251	9,245	8,433	13.5	11.8
45-54.....	4,301	4,343	3,703	4,271	8,004	8,584	11.7	12.0
55-64.....	2,895	3,604	2,324	3,381	5,219	6,985	7.6	9.7
65 and over....	2,593	3,255	2,229	3,271	4,822	6,526	7.0	9.1
Median Age.....	28.4	28.7	25.9	28.6	27.1	28.6		

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

Employment

The Oregon State Department of Employment reported in 1970 the average annual civilian labor force in Douglas County was 28,860 or 40 percent of the total population. At that time the unemployment rate was 7.9 percent of the total labor force or 1,430 unemployed. For number of persons unemployed, the county ranked fifth in the state; however, ranking by percent unemployment was eighth. ^{1/}

^{1/} Oregon State Department of Human Resources, Employment Division, Labor Force and Employment in Oregon by County 1968 through 1971 publications, Research and Statistics Section.

The 1960 Census of Population shows that about 22,459 people were employed in the county out of a total labor force of 24,293. About 5 percent of those employed worked in agriculture. However, this does not include the large number of seasonal workers employed in growing and harvesting crops during June, July, and August. About 43 percent of those employed worked in manufacturing with lumber and wood products and food and kindred products manufacturing employing the major share. Construction employed about 5 percent, retail trade 14 percent, personal services 7 percent, education 6 percent, and public administration 4 percent of the total labor force.

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

Subject	Douglas County		Roseburg	
	1960	1970 ^{1/}	1960	1970 ^{1/}
Male, 14 years and over.....	23,550	24,055	4,339	5,118
Labor Force.....	18,039	17,940	2,943	3,558
Armed Forces.....	30	55	3	21
Civilian Labor Force.....	18,009	17,885	2,940	3,537
Employed.....	16,685	16,301	2,782	3,270
Unemployed.....	1,324	1,584	158	267
Not in Labor Force.....	5,511	6,115	1,396	1,565
Inmate of Institution....	761	520	715	508
Enrolled in School.....	2,088	1,486	235	301
Other.....	2,662	4,109	446	756
Female, 14 years and over....	22,442	24,383	4,051	5,256
Labor Force.....	6,254	8,547	1,557	2,224
Employed.....	5,774	7,783	1,451	2,086
Unemployed.....	476	761	106	138
Married, Husband Present.	4,263	5,959	943	1,463
Not in Labor Force.....	16,188	15,836	2,494	3,032
Inmate of Institution....	67	163	42	121
Enrolled in School.....	2,400	1,645	352	325
Married, Husband Present.	12,282	11,280	577	1,850
Other.....	1,539	2,748	1,523	736

^{1/} 16 years old and over.

SOURCE: U.S. Bureau of the Census, Census of Population: 1960 and 1970 General Social and Economic Characteristics, Final Report PC(1) - 39 Oregon, U.S. Government Printing Office, Washington, D.C., 1961, 1971.

Table 30. Percent of Age Group in Labor Force, Douglas County, 1970

Age Group	Male	Female
Years		
14-15.....	10.6	6.2
16-17.....	29.9	18.8
18-19.....	67.1	38.4
20-21.....	88.3	42.2
22-24.....	89.8	36.5
25-34.....	95.7	35.7
35-44.....	92.4	46.0
45-64.....	82.9	41.1
65 and over.....	21.7	9.5

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 General Social and Economic Characteristics, Final Report PC(1) - 30 Oregon, U.S. Government Printing Office, Washington, D.C., 1971.

Table 31. Industry Groups of Employed, Douglas County, 1960 and 1970

Industry	Number Employed	
	1960	1970
Agriculture, Forestry, and Fisheries.....	1,374	1,341
Mining.....	234	271
Construction.....	1,079	1,352
Manufacturing.....	9,206	8,084
Lumber and Wood Products.....	8,410	6,321
Food and Kindred Products.....	197	284
Other.....	599	1,479
Transportation.....	537	609
Communication.....	182	284
Utilities and Sanitary Services....	266	253
Wholesale Trade.....	401	540
Retail Trade.....	3,005	3,817
Business Services.....	1,037	1,384
Personal Services.....	1,067	1,063
Entertainment and Recreation.....	123	97
Health Services.....	735	1,468
Education.....	1,377	2,031
Professional and Related Services..	607	556
Public Administration.....	745	988

SOURCE: U.S. Bureau of the Census, Census of Population: 1960 and 1970 General Social and Economic Characteristics, Final Report PC(1) - 39 Oregon, U.S. Government Printing Office, Washington, D.C., 1961, 1971.

Table 32. Douglas County Occupations, 1970

Occupation	Male	Female	Total
Total employed, 16 years old and over.....	16,301	7,783	24,084
Professional.....	1,663	1,220	2,883
Engineers.....	NA*	NA	178
Physicians and Related Practitioners..	NA	NA	123
Other Health Workers.....	34	244	278
Teachers, except health.....	428	660	1,088
Other professional workers.....	900	316	1,216
Managers and administrators.....	1,605	341	1,946
Sales workers.....	701	671	1,372
Clerical and kindred workers.....	527	2,445	2,972
Craftsmen, foremen, and kindred workers.	3,402	131	3,533
Operatives, except transport.....	3,076	476	3,552
Transport.....	1,242	119	1,361
Laborers, except farm.....	2,464	118	2,582
Farmers and farm managers.....	494	99	593
Farm laborers.....	215	38	253
Service workers.....	897	1,865	2,762
Cleaning services.....	365	292	657
Food services.....	89	881	970
Health services.....	112	408	520
Personal services.....	54	185	239
Protective services.....	247	19	266
Private household.....	15	260	275

*NA - not available

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 General Social and Economic Characteristics, Final Report PC(1) - 39 Oregon, U.S. Government Printing Office, Washington, D.C., 1971.

Table 33. Number and Percent of Persons Unemployed in Douglas and Bordering Counties, 1960 and 1970

County	Total Civilian Labor Force		Number Unemployed		Percent Unemployed	
	1960	1970	1960	1970	1960	1970
DOUGLAS.....	24,263	28,860	1,800	2,290	7.4	7.9
Lane.....	43,367	90,800	2,459	6,400	5.7	7.0
Coos.....	20,310	22,870	1,199	1,870	5.9	8.2
Jackson.....	26,632	40,470	1,882	3,410	7.1	8.4
Klamath.....	17,872	20,440	1,307	1,280	7.3	6.3
Josephine.....	10,423	14,950	1,096	1,820	10.5	12.2
Curry.....	4,151	4,800	274	390	6.6	8.1

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., 1961, 1971.

Table 34. Major Occupation Group of Unemployed, Douglas County, 1960 & 1970

Group	Douglas County		Roseburg	
	1960	1970	1960	1970
Professional, technical, and kindred workers.....	57	145	4	21
Clerical and kindred workers.....	93	184	32	76
Sales workers.....	58	104	13	--
Craftsmen, foremen, and kindred workers.....	230	382	34	63
Operatives and kindred workers.....	379	452	39	53
Service workers.....	220	98	69	34
Farm laborers.....	47	95	--	15
Laborers, except farm and mine.....	494	536	30	55

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., 1961, 1971.

Table 35. Covered Payrolls and Employment by Industry, Douglas County, 1970

Industry	Average Annual Employment	Annual Payroll
Agriculture, forestry, and fisheries.....	133	\$ 447,696
Mining.....	213	2,011,867
Contract construction.....	712	6,758,908
Food and kindred products.....	325	1,518,649
Lumber and wood products.....	7,495	65,380,050
Other manufacturing.....	1,169	10,445,485
Transportation, communication, gas, electric, and sanitary services..	824	6,440,208
Wholesale and retail trade.....	3,435	16,370,822
Finance, insurance, and real estate.....	430	2,420,251
Services.....	1,501	6,104,539
Government.....	1,601	14,376,260

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

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

Occupation Group	Douglas County		Roseburg	
	1959	1969	1959	1969
Male, total with earnings.....	\$4,995	\$7,571	\$5,369	\$ 7,792
Professional, managerial, and kindred workers.....	5,874	9,765	6,718	10,394
Farmers and farm managers.....	2,212	3,110	---	---
Craftsmen, foremen, and kindred workers.....	5,802	8,478	5,750	7,886
Operative and kindred workers.....	4,968	7,342	4,856	7,102
Farm laborers.....	---	1,250	---	912
Laborers, except farm and mine.....	4,470	6,530	4,069	5,864
Female, total with earnings.....	1,853	3,000	2,231	3,355
Clerical and kindred workers.....	2,467	3,676	2,789	3,711
Operative and kindred workers.....	1,966	2,819	---	3,971

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., 1961, 1971.

Agricultural workers are needed in the Roseburg area to help harvest a variety of crops including strawberries, pole beans, pears, and nuts. In 1969 virtually all the required labor was filled by local manpower.

Table 37. Number of Hired Seasonal Agricultural Workers, Roseburg Area, Douglas County, 1965 and 1969

Month and Day	Local		Intrastate Migratory Workers		Interstate Migratory Workers	
	1965 <u>1/</u>	1969 <u>2/</u>	1965	1969	1965	1969
May 15.....	*	65				
31.....		95				
June 15.....		660				
30.....		120				
July 15.....		470				
31.....	1,320	1,700	20		10	
August 15.....	1,375	2,015	20		10	
31.....	400	515				
September 15...		105				
30...		225				
October 15.....		215				

* Blank areas indicate no workers reported.

1/ SOURCE: Oregon State Department of Employment, 1965 Annual Farm Labor Report, 1966.

2/ SOURCE: Oregon State Department of Human Resources, Employment Division, 1969 Annual Rural Manpower Report, 1970.

Table 38. Local Government Employees and Payroll , Douglas County,
October 1967

Item	Employees and Earnings
Employees.....	2,702
Full-time, only.....	2,126
Full-time equivalent employment....	2,275
Education.....	1,490
Teachers only.....	1,053
Functions other than education...	785
Highways.....	233
Public welfare.....	42
Hospitals.....	50
Health.....	32
Police protection.....	122
Fire protection.....	39
Sewerage.....	15
Sanitation other than sewerage.	3
Parks and recreation.....	27
Natural resources.....	5
Housing and urban renewal.....	3
Correction.....	18
Libraries.....	32
Financial administration.....	44
General control.....	59
Water supply.....	23
Other local utilities.....	---
Other and unallocable.....	38
October payroll.....	\$1,235,000
Education.....	851,000
Teachers only.....	670,000
Functions other than education...	384,000
Average monthly earnings, full-	
time employment.....	\$635
Teachers.....	463

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 39. Net Effective Buying Income Estimates, Douglas County, 1967 and 1970

Area	Net Dollars (thousands)		Per Household	
	1967	1970	1967	1970
Oregon.....	\$5,224,888	\$6,650,690	\$8,113	\$9,440
Douglas County.....	171,489	194,527	7,622	8,495
Roseburg.....	42,148	45,518	8,781	9,180

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

Table 40. Bank Debits and Deposits, Douglas County, 1965 - 1970

Year	Bank Debits <u>1/</u>	Bank Deposits
1965.....	\$ 762,180,000	\$ 94,466,000
1966.....	766,349,000	98,385,000
1967.....	764,596,000	102,887,000
1968.....	940,368,000	124,187,000
1969.....	1,073,597,000	128,454,000
1970.....	1,063,587,000	130,942,000

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

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. governments, interbank, time, and savings accounts, and several other categories of accounts.

The following table gives mean incomes and income distributions by race for Douglas County. Also, data are given for persons and families in the county below federally defined poverty levels. 1/

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

Item	Number	Percent
<u>Mean Income</u>		
Families:		
All races.....	\$ 9,470	
Caucasian.....	9,473	
Spanish Language.....	9,228	
Black.....	10,300	
Other.....	9,421	
Unrelated individuals:		
All races.....	3,754	
Caucasian.....	3,749	
Spanish Language.....		
Black.....	6,690	
Other.....	3,228	
<u>Families by Family Income Class</u>		
All races,		
under \$3,999.....	3,127	16.44
\$4,000-\$5,999.....	2,106	11.07
\$6,000-\$11,999.....	8,806	46.31
\$12,000+.....	4,978	26.18
total.....	19,017	100.00
Caucasian,		
under \$3,999.....	3,081	16.47
\$4,000-\$5,999.....	2,059	11.00
\$6,000-\$11,999.....	8,667	46.32
\$12,000+.....	4,905	26.21
total.....	18,712	100.00
Spanish Language,		
under \$3,999.....	24	11.88
\$4,000-\$5,999.....	18	8.91
\$6,000-\$11,999.....	105	51.98
\$12,000+.....	55	27.23
total.....	202	100.00
Black,		
under \$3,999.....		
\$4,000-\$5,999.....		
\$6,000-\$11,999.....	6	100.00
\$12,000+.....		
total.....	6	100.00

1/ For further definition of these poverty levels, consult the U.S. Bureau of Census, current Population Reports, Series P-23, No. 28, Revision in Poverty Statistics, 1959 to 1968.

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

Item	Number	Percent
Other,		
under \$3,999.....	22	22.68
\$4,000-\$5,999.....	29	29.90
\$6,000-\$11,999.....	28	28.86
\$12,000+.....	18	18.56
total.....	97	100.00
<u>Income - below poverty level (bpl)</u>		
Families bpl		
All races.....	2,169	100.00
Caucasian.....	2,129	98.16
Spanish Language.....	7	.32
Black.....	17	.78
Other.....	16	.74
Persons in families bpl.....	7,707	
Unrelated individuals bpl		
Under 65.....	866	
65 and over.....	874	
Male family head, 14-64 years, bpl		
Employed.....	591	
Unemployed.....	122	
Not in labor force.....	402	
Female family heads bpl in labor force with children below 6 yrs..	120	
Income source of families and unrelated individuals bpl		
Earnings.....	1,692	
Social security or railroad retirement.....	1,671	
Public assistance or welfare.....	729	

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

SOURCE: Oregon State University Cooperative Extension Service, Income and Poverty Data for Racial Groups: A Compilation for Oregon Census County Divisions, Special Report 367, Oregon State University, 1972.

Table 42. Number and Percent of Families with an Income of Less than \$3,000 for Douglas and Bordering Counties, 1969

County	Total Number of Families	Families with Income Less than \$3,000	
		Number	Percent
DOUGLAS.....	19,017	2,225	11.7
Lane.....	54,741	4,796	8.8
Jackson.....	25,152	2,782	11.1
Coos.....	15,130	1,319	8.7
Josephine.....	9,931	1,529	15.4
Klamath.....	13,282	1,293	9.7
Curry.....	3,643	475	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.

Education

Table 43. Formal Education Facilities, Douglas County, 1969-70 & 1971-72

School, District, Type Schools, and Number of Each Type	Grades Included	Enrollment <u>1/</u>		High School Graduates ^{2/}
		1969-70	1971-72	
Oakland School District #1				
Elementary - 2.....	1-8	426	387	
High School - 1.....	9-12	198	191	41
Roseburg School District #4				
Elementary - 10.....	1-6	4,263	3,530	
Junior High - 2.....	7-9	1,978	1,753	
High School - 1.....	10-12	1,723	1,620	449
Glide School District #12				
Elementary - 4.....	1-8	834	777	
High School - 1.....	9-12	309	347	58
Days Creek School District #15				
Elementary - 2.....	1-8	228	206	
High School - 1.....	9-12	95	102	15
South Umpqua School District #19				
Elementary - 4.....	1-8	1,783	1,587	
High School - 1.....	9-12	701	744	146
Camas Valley School District #21				
Elementary - 1.....	1-8	117	120	
High School - 1.....	9-12	58	62	7
North Douglas School District #22				
Elementary - 1.....	1-8	541	424	
High School - 1.....	9-12	246	214	37
Yoncalla School District #32				
Elementary - 2.....	1-8	300	253	
High School - 1.....	9-12	141	133	20

Table 43, cont. Formal Education Facilities, Douglas County, 1969-70 & 1971-72

School, District, Type Schools, and Number of Each Type	Grades Included	Enrollment ^{1/}		High School Graduates ^{2/}
		1969-70	1971-72	
Umpqua School District #45				
Elementary - 1.....	1-6	71	45	
Riddle School District #70				
Elementary - 1.....	1-6	399	324	
High School - 1.....	7-12	346	334	39
Elkton School District #34				
Elementary - 1.....	1-8	180	151	
High School - 1.....	9-12	97	81	16
Glendale School District #77				
Elementary - 1.....	1-6	364	304	
High School - 1.....	7-12	273	261	28
Reedsport School District #105				
Elementary - 3.....	KG-8	1,335	1,134	
High School - 1.....	9-12	582	528	120
Winston-Dillard School District #116				
Elementary - 5.....	1-8	1,427	1,251	
High School - 1.....	9-12	563	527	101
Ash Valley School District #125				
Elementary - 1.....	1-8	15	20	
Sutherlin School District #130				
Elementary - 3.....	1-8	1,064	910	
High School - 1.....	9-12	462	417	86
County Totals				
Elementary - 43.....		13,347	11,423	
Junior High - 2.....		1,978	1,753	
High School - 14.....		5,794	5,561	
County Grand Total - 59.....		21,119	18,737	1,163

^{1/} Average daily membership.

^{2/} 1971 figures on high school graduates.

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

Table 44. Current Operating Costs for Resident Pupils, Grades 1-12,
Douglas County, 1969-70 School Year

Category	Douglas County		State
	Expenditure	Cost Per Pupil	Cost Per Pupil
Administration.....	\$ 475,886	\$ 26.00	\$ 25.00
Instruction.....	10,274,191	554.00	563.00
Health Services.....	13,061	.70	3.02
Net Transportation Costs.....	704,384	38.00	29.00
Operation and Maintenance.....	1,767,438	95.00	96.00
Fixed Charges.....	1,357,195	73.00	72.00
Net Tuition.....	(5,272)	(.28)	(.54)
Total Current Operating Costs.....	14,586,887	786.00	787.00
	- - - - number of students - - - -		
Average Daily Membership.....	18,548		461,608

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

Table 45. Racial and Ethnic Distribution of Public School Enrollment
by School District, Douglas County, 1972

District	White	Black	American Indian	Spanish Surname	Other ^{1/}	Total
	- - - - - number of students - - - - -					
Ash Valley.....	15	-	-	3	-	18
Camas Valley.....	172	-	-	4	2	178
Days Creek.....	232	-	1	1	-	234
Elkton.....	223	-	-	2	-	225
Glendale.....	550	-	6	15	9	580
Glide.....	1,085	5	12	2	5	1,109
North Douglas.....	634	1	-	8	-	643
Oakland.....	602	-	-	-	4	606
Reedsport.....	1,544	-	20	12	20	1,596
Riddle.....	695	-	1	7	2	705
Roseburg.....	6,754	4	28	58	36	6,880
South Umpqua.....	2,289	-	25	2	4	2,320
Sutherlin.....	1,437	1	10	15	12	1,475
Umpqua.....	65	-	-	2	-	67
Winston-Dillard...	1,779	-	4	17	8	1,808
Yoncalla.....	430	-	-	3	-	433
Total.....	18,506	11	107	151	102	18,877

^{1/} Includes Japanese, Chinese, Filipino, and others.

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

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

Education	Number Males	Number Females	Total	Percent
Total, 25 years and over.....	19,501	19,527	39,028	100.0
No school years completed.....	134	88	222	.6
Elementary: 1 to 4 years.....	389	252	641	1.6
5 to 7 years.....	2,033	1,138	3,171	8.1
8 years.....	3,281	2,569	5,850	15.0
High School: 1 to 3 years.....	4,574	4,772	9,346	23.9
4 years or more..	5,743	7,668	13,411	34.4
College: 1 to 3 years.....	1,576	1,860	3,436	8.8
4 years or more..	1,771	1,180	2,951	7.6
Median school years completed..	11.6	12.1		

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. Douglas County Residents Enrolled in Higher Education Institutions,
Fall 1971

Institution	Number Enrolled
Total Enrolled.....	861
Eastern Oregon College.....	12
Oregon College of Education.....	56
Oregon State University.....	265
Portland State University.....	22
Southern Oregon College.....	174
University of Oregon.....	268
Oregon Technical Institute.....	52
University of Oregon Dental School..	2
University of Oregon Medical School.	10
Total in Private and Independent Institutions.....	91

SOURCE: A Staff Report of Oregon Educational Coordinating Council, Post Secondary Enrollment Distributions in Oregon, 1972.

Table 48. Youth Organizations, Douglas County

Organization	Membership
Vo-Ag Programs.....	221
FFA.....	143
4-H.....	2,029

SOURCE: Oregon State University Extension Service, unpublished data.

Table 49. Number and Percent of Draft Rejections for Douglas and Bordering Counties, 1965 and 1971

County	Total Registration		Number Rejected		Percent Rejected	
	1965	1971	1965	1971	1965	1971
DOUGLAS.....	11,563	123	1,191	24	10.3	20
Curry.....	1,698	28	253	12	14.9	43
Coos.....	8,739	140	1,040	38	11.9	27
Lane.....	26,473	446	2,965	146	11.2	33
Klamath.....	8,362	77	878	24	10.5	31
Jackson.....	11,640	149	1,164	31	10.0	21
Josephine.....	5,250	40	504	17	9.8	43

SOURCE: Selective Service Headquarters, Salem, Oregon, unpublished data.

Table 50. Felonies and Juvenile Delinquency, Douglas County, 1968

Subject	Number
Commitments to felony and correctional institutions, 1967-68	
Total commitments.....	37
Oregon State Penitentiary.....	18
Oregon State Correctional Institution....	7
MacLaren (boys' training school).....	6 ^{1/}
Hillcrest (girls' training school).....	6 ^{1/}
Juvenile court cases, 1968	
All cases.....	2,433
Delinquency.....	1,533
Traffic.....	692
Other.....	206

1/ 1970 figures.

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

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

Although Douglas County operates no correctional institutions of its own, it is served by four state correctional institutions in Marion County. These include training schools for socially maladjusted boys between 12 and 18 years old and girls between 12 and 21 years of age.

Health and Vital Statistics

The following tables indicate the number of health facilities and health personnel available to Douglas County residents. There are fewer health professionals per capita in Douglas County than for the state as a whole.

In 1971 there were five general hospitals in Douglas County with an average occupancy rate of 47 percent. Percent occupancy in long-term care facilities and nursing homes were considerably higher, 84 percent and 88 percent respectively.

Table 51. Existing Medical Facilities and Percent of Occupancy, Douglas County, 1971

Category Community	Total Capacity	Percent of Occupancy
General Hospitals, total.....	265	47
Canyonville.....	22	63
Myrtle Creek.....	20 ^{1/}	27
Reedsport.....	20 ^{1/}	49
Roseburg (2).....	203	48
Long-term care facilities, total...	54	84
Reedsport.....	20 ^{2/}	124
Roseburg.....	34 ^{2/}	44
Nursing Homes, total.....	264	88
Roseburg (3).....	264	88
- Number of Outpatient Visits -		
Diagnostic and Treatment Centers		
Myrtle Creek.....	365	
Reedsport.....	2,586	
Roseburg (2).....	16,273	

^{1/} excludes long-term care beds.

^{2/} excludes acute beds.

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

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

Professional	Douglas County		State
	Number	Ratio <u>1/</u>	Ratio <u>1/</u>
Medical doctors and doctors of osteopathy.....	57	1,301	770
Dentists.....	26	2,852	1,470
Registered Nurses.....	177	419	276
Licensed Practical Nurses.....	51	1,454	1,002
Pharmacists.....	40	1,854	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. Health Statistics, Douglas County, 1970

Item	Douglas County		State
	Number	Rate <u>1/</u>	Rate <u>1/</u>
Morbidity			
Tuberculosis.....	10	13.9	12.7
Syphilis.....	2	2.8	8.5
Gonorrhea.....	99	138.0	324.8
Influenza.....	2,636	5,968.1	2,241.4
Hepatitis <u>2/</u>	14	19.4	39.4
Measles.....	2	2.8	21.9
Deaths from all causes.....	651	9.1 ^{<u>3/</u>}	9.3 ^{<u>3/</u>}
Malignant neoplasms (cancer).....	118	164.5	167.0
Diabetes mellitus.....	15	20.9	14.2
Heart diseases.....	238	331.7	342.3
Cerebrovascular diseases.....	62	86.4	116.1
Arteriosclerosis.....	19	26.5	22.0
Other cardiovascular.....	13	18.1	15.2
Influenza and pneumonia.....	17	23.7	26.5
Bronchitis, emphysema, asthma.....	17	23.7	24.9
Peptic ulcer.....	2	2.8	4.6
Cirrhosis of liver.....	6	8.4	13.8
Congenital anomalies.....	4	5.6	7.1
Certain infancy mortality causes..	14	19.5	14.2
All other diseases.....	45	62.7	78.5
Accidents.....	63	87.8	64.4
Suicides.....	11	15.3	14.5
Homicides.....	7	10.0	4.4

1/ Rate per 100,000 population.

2/ Oregon State Executive Department, Program Planning Division, District Facts, 1970.

3/ Rate per 1,000 population.

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

Douglas County's birth rate rose from 15.0 per 1,000 population in 1967 to 17.5 in 1970. This compares with the state birth rate of 16.9 in 1970. The county's death rate also increased during this period to 9.1 per 1,000 population but remained below the state rate of 9.3.

Table 54. Estimated Births and Deaths by Major Category, Douglas County, 1967 and 1970

Category	Douglas County				State
	Number		Rate		Rate
	1967	1970	1967	1970	1970
All births.....	1,124	1,254	15.0	17.5 <u>1/</u>	16.9 <u>1/</u>
All deaths.....	543	651	7.2	9.1 <u>1/</u>	9.3 <u>1/</u>
Illegitimate births..	74	92	65.8	73.4 <u>2/</u>	82.4 <u>2/</u>
Premature births.....	81	104	72.1	82.9 <u>2/</u>	59.5 <u>2/</u>
Infant deaths.....	22	19	19.6	15.2 <u>2/</u>	15.7 <u>2/</u>

1/ Rates per 1,000 population.

2/ Type births per 1,000 live births.

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

Table 55. Admissions to State Psychiatric Hospitals and Mental Clinics, 1969

Facility	Douglas County		State
	Number	Ratio 1/	Ratio 1/
Psychiatric Hospitals.....	78	105	134
Mental Health Clinics.....	342	461	460

1/ Ratio equals admission per 100,000 population.

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

In 1969-70 Douglas County allocated \$514,184 to its county health department or \$6.93 per capita. This compares with \$5.70 spent per capita by all counties in the state.

Public Welfare

Table 56. Public Welfare Payments for Assistance, Douglas County, June 1972

Category	Cases	Average Payments
<u>Cases receiving non-medical payments</u>		
Old Age Assistance.....	250	\$ 65.85
Aid to the Blind.....	31	129.36
Aid to the Disabled.....	183	87.18
Aid to Dependent Children.....	775	44.67
General Assistance (Family).....	44	66.44
Foster Care.....	NA*	NA
<u>Physicians Services 1/</u>		
OAA.....	61	18.70
AB.....	10	20.28
AD.....	77	15.48
ADC.....	495	17.66
GA.....	16	27.55
FC.....	15	11.80
Total.....	674	17.65
<u>Hospital Payments 1/</u>		
OAA.....	7	237.23
AB.....	1	78.00
AD.....	8	302.86
ADC.....	39	351.70
GA.....	0	---
FC.....	3	132.22
Total.....	58	315.08
<u>Drug Payments 1/</u>		
OAA.....	104	9.24
AB.....	9	9.58
AD.....	77	11.08
ADC.....	337	5.21
GA.....	13	11.27
FC.....	5	17.90
Total.....	545	7.14

*NA - Not available

1/ Persons, not cases.

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

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.

Table 57. Average Monthly Public Welfare Cases and Cost Per Case,
Douglas County, 1968 and 1971

Category	Number Cases		Average Payments	
	1968	1971	1968	1971
Aid to Dependent Children.....	1,963	2,872	\$ NA*	\$ NA
Old Age Assistance.....	282	262	60.05	66.78
Aid to the Disabled.....	171	187	70.76	87.15
Aid to the Blind.....	21	34	95.16	119.53
General Assistance.....	85	66	58.39	77.34

*NA - not available.

SOURCE: Oregon State Department of Human Resources, Oregon Public Welfare Division, Public Welfare in Oregon, October 1970, December 1970, August 1972 editions.

Housing

Table 58. Housing Occupancy and Facilities, Douglas County, 1970

Subject	Douglas County		State
	Number Units	Percent	Percent
Occupancy			
All housing units.....	23,851	100.0	100.0
Seasonal and migratory.....	23	.1	1.3
Owner occupied.....	15,937	66.8	61.3
Renter occupied.....	6,623	27.8	31.5
Vacant year-round.....	1,268	5.3	5.9
Population in housing units			
Per unit			
Owner occupied.....	3.2	--	--
Renter occupied.....	3.1	--	--
Persons per room			
All occupied units.....	22,560	100.0	100.0
1.00 or less.....	20,650	91.5	94.7
1.01 to 1.50.....	1,543	6.9	4.2
1.50 or more.....	367	1.6	1.1
Facilities			
Lacking some or all plumbing...	946	4.0	3.6
Telephone available.....	19,095	84.6	89.5
Some air conditioning.....	3,163	13.3	10.3
Median number of rooms.....	4.9		5.0
Median value.....	\$12,700		\$11,300
Median rent.....	\$68 ^{1/}		\$107

^{1/} 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 Douglas County is very closely related to that of its lumber and wood products industry which provides employment for approximately one-third of the labor force within the county. Excluding wood products, the economic base is diversified among agriculture, mineral production, commercial fisheries, retail and wholesale trade, and the associated services necessary to the community.

The most apparent increase has come in the areas of services and recreation.

Agriculture

Douglas County had 1,203 farms totaling 464,334 acres and averaging 386 acres in 1969. Douglas County leads the state in sheep raising with approximately 110,000 head in 1970.

Cattle included 39,300 head of beef and 2,700 dairy cows in 1970. Some 10,000 turkeys and 60,000 chickens made up the poultry numbers.

The largest portion of crop land in the county, nearly 40,000 acres, was in hay crops in 1970.

The value of all crops and livestock sold in 1970 totaled approximately \$9.2 million. More than two-thirds of the total sales came from livestock.

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

Subject	1959	1964	1969
Approximate acres of land area.....	3,239,040	3,240,000	3,240,000
Proportion in farms.....	15.6	16.3	14.3
Total number of farms.....	1,811	1,922	1,203
Acres in farms.....	505,501	528,305	464,334
Average size of farms.....	279.1	274.9	385.9
Value of land and buildings			
Average per farm.....	\$26,627	\$38,847	\$73,697
Average per acre.....	\$100.02	\$141.21	\$190.93

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.

The following table shows the distribution of farms by size and percentage in each acreage group. In 1969, over 25 percent of Douglas County's farms were from 260 to 999 acres in size. The percent of farms in larger acreage categories has increased from 1959 to 1969.

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

Size	Number			Percent		
	1959	1964	1969	1959	1964	1969
Less than 10 acres.....	121	125	83	6.7	6.5	6.9
10 to 49 acres.....	465	556	269	25.7	28.9	22.4
50 to 69 acres.....	109	138	73	6.0	7.2	6.1
70 to 99 acres.....	118	150	87	6.5	7.8	7.2
100 to 139 acres.....	127	124	88	7.0	6.4	7.3
140 to 179 acres.....	167	142	81	9.2	7.4	6.7
180 to 219 acres.....	114	105	51	6.3	5.5	4.2
220 to 259 acres.....	72	67	64	4.0	3.5	5.3
260 to 499 acres.....	251	243	176	13.8	12.6	14.6
500 to 999 acres.....	156	160	126	8.6	8.4	10.6
1,000 to 1,999 acres....	78	77	69	4.3	4.0	5.7
2,000 acres or more.....	---	35	36	---	1.8	3.0
Total farms.....	1,811	1,922	1,203	100.0	100.0	100.0

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.

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

In general, all farms with a total value of products sold amounting to \$2,500 or more are classified as commercial. Farms with sales of \$50 to \$2,499 are classified as commercial if the farm operator was under 65 years of age and (1) he did not work off the farm 100 or more days during the year and (2) the income received by the operator and members of his family from nonfarm sources was less than the value of all farm products sold. In 1969 about 56 percent of Douglas County's farms were classified as commercial.

Table 61. Farms by Economic Class, Douglas County, 1959, 1964, and 1969

Economic Class	Number			Percent		
	1959	1964	1969	1959	1964	1969
Commercial farms.....	765	748	674	42.3	38.9	56.0
Class I (Sales of \$40,000 or more).....	27	15	36	1.4	.8	3.0
Class II (Sales of \$20,000 to \$39,999).....	36	38	54	2.0	2.0	4.5
Class III (Sales of \$10,000 to \$19,999).....	126	110	111	7.0	5.7	9.2
Class IV (Sales of \$5,000 to \$9,999).....	182	128	179	10.0	6.6	14.9
Class V (Sales of \$2,500 to \$4,999).....	306	230	218	16.9	12.0	18.1
Class VI (Sales of \$50 to \$2,499).....	88	227	76	4.9	11.8	6.3
Other farms.....	1,045	1,174	529	57.7	61.1	44.0
Part-time.....	840	904	393	46.4	47.0	32.7
Part-retirement.....	205	270	136	11.3	14.1	11.3
Abnormal.....	0	0	0	---	---	---
Total farms.....	1,810	1,922	1,203	100.0	100.0	100.0

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.

Most of the farmers in the county own their own farms. Census data show that in about 1969, 80 percent of the farmers were full owners, 13 percent were part owners, and 7 percent were tenants.

Table 62. Farm Operators by Tenure and Age, Douglas County, 1959, 1964, 1969

Item	Number of Operators		
	1959	1964	1969
Tenure			
Full owners.....	1,565	1,605	972
Part owners.....	181	200	152
Managers.....	2	6	NA*
Tenants.....	62	111	79
All operators.....	1,810	1,922	1,203
Age groups			
Under 25 years.....		8	12
25 to 64 years.....		1,551	937
64 years and over.....		363	254
		51.5	52.8

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.

Douglas County's agriculture provides income not only to the farmers, but also to the workers employed for harvesting and processing the agricultural products. Income from the sale of crops and livestock in the county in 1970 was estimated at about \$9.19 million by the OSU Extension Service and U.S.D.A. cooperating.

Income from the sale of crops accounted for 33 percent of the agricultural income, and livestock accounted for 67 percent.

Cattle and calves contributed 38 percent of the agricultural income while sheep and lamb sales provided nearly 12 percent. Other major contributors to the county's agricultural income in 1970 were: vegetables, 7.9 percent; hay, 4.6 percent; tree fruits and nuts, 4.3 percent; and specialty horticultural crops, 3.1 percent.

Table 63. Value of Farm Products Sold, Douglas County, 1965 and 1968-70

Product	1965	1968	1969	1970p
- - - thousand dollars - - -				
All crops, livestock, and livestock products.....	6,650	7,612	8,666	9,188
All crops.....	2,594	2,480	3,235	3,028
All grain, hay, and seeds.....	432	525	524	592
All seeds.....	23	33	25	33
All hay.....	NA*	351	350	421
All grains.....	100	141	149	138
Wheat.....	10	21	21	20
Barley.....	80	88	98	92
Vegetables, fresh and for processing.....	389	543	764	730
All berries.....	17	67	78	121
All tree fruits and nuts.....	614	253	421	397
Pears.....	NA	36	108	66
Sweet cherries.....	NA	15	23	12
Plums.....	NA	8	84	79
Filberts.....	NA	26	38	23
Walnuts.....	NA	119	55	90
Specialty field crops.....	3	10	10	5
Specialty horticultural crops.....	164	267	271	285
All livestock and livestock products.	4,056	5,132	5,431	6,160
Dairy products.....	683	731	790	824
Poultry products.....	330	280	310	303
Cattle and calves.....	2,014	2,897	2,885	3,465
Sheep and lambs.....	944	825	977	1,072
Hogs.....	154	123	133	131

p - preliminary

*NA - not available

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

Population centers in the Willamette Valley provide outlets for most of the livestock products from Douglas County. Milk is sold to processing plants and marketed by the processors primarily as fresh milk. Other products, such as vegetables, fruits, nuts, berries, and specialty crops, are processed locally and marketed throughout the United States.

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

Crops Harvested	1969	1970p
Small grains		
Wheat.....	550	500
Oats.....	500	500
Barley.....	3,200	3,200
Hay crops.....	38,300	39,800
Vegetables.....	514 <u>1/</u>	NA
Berries.....	NA	NA
Tree fruits and nuts.....	2,412 <u>1/</u>	NA
Pears.....	352 <u>1/</u>	NA
Plums and prunes.....	1,265 <u>1/</u>	NA

p - preliminary. NA - not available.

1/ 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.

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

Although the numbers of dairy cattle in Douglas County have decreased significantly over the last twenty years, the numbers of other cattle have increased from 12,800 in 1950 to 39,300 in 1970. Douglas County leads the state in sheep and lamb numbers.

Table 65. Livestock and Poultry Numbers, Douglas County, 1950, 1960, 1969, 1970

Category <u>1/</u>	1950	1960	1969	1970p
All cattle.....	20,000	26,000	40,000	42,000
Dariy cattle.....	7,200	4,200	2,700	2,700
Sheep and lambs.....	85,000	116,000	105,000	110,000
Hogs.....	4,100	5,000	2,000	NA
Chickens.....	NA	NA	65,000	60,000
Turkeys raised.....	NA	NA	12,000	10,000

p - preliminary figures. NA - not available.

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

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

Table 66. Food and Kindred Products Manufacturing, Douglas County, 1968 & 1970

Major Group	Number of Firms		Employment	
	1968	1970	1968	1970
Meat products.....	2	2	11	32
Dairy products.....	2	3	56	65
Prepared feeds for animals and fowls..	1	1	2	2
Canning and preserving fruits, vegetables, and seafoods.....	2	3	165	305
Confectionery and related products....	0	1	--	7
Beverages.....	1	2	10	21

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

Logging and Wood Products

Lumber and wood products play an important role in the economy of Douglas County. In 1970 there were 23 sawmills and 13 plywood and veneer plants in the county. Logging and wood-using industries employ far more persons than any other industry in the county.

Table 67. Lumber and Wood Products Manufacturing Excluding Furniture, Douglas County, 1968 and 1970

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Logging camps and contractors.....	61	73	543	900
Sawmills and planing mills, general...	21	20	1,361	1,585
Special product sawmills.....	3	3	57	87
Millwork plants.....	1	2	11	12
Veneer and plywood plants.....	14	13	3,739	4,449
Wood products, not elsewhere classified.....	10	9	270	123
Total.....	110	120	5,981	7,156

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

Table 68. Log and Lumber Production, Douglas County, Selected Years

Year	Log Production <u>1/</u>	Lumber Production <u>1/</u>
1955.....	1,969,491	NA*
1960.....	1,542,699	819,000
1965.....	1,650,014	763,000
1969.....	1,671,584	NA

*NA - not available

1/ Scribner Log Rule - thousand board feet

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

In 1968, Douglas County used 999,626,000 board feet of its own timber for production and exported 413,282,000 board feet to other counties. At the same time, it imported 135,592,000 board feet for processing.

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

Ownership	Production*	Percent of Total
Total timber harvest.....	1,391,360	100.0
Private.....	694,620	49.9
Bureau of Land Management..	340,209	24.5
Forest Service.....	337,303	24.2
State.....	18,112	1.3
Other public.....	1,116	.1

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

* Scribner Log Rule - thousand board feet

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

The 1970 Douglas County timber harvest was down nearly 17 percent from 1969; however, timber production for the state dropped nearly 13 percent also. Douglas County lead the state in timber harvested in 1970.

Table 70. Log Consumption in Thousand Board Feet, ^{1/} by Species and Industry, Douglas County, 1968

Species	Type of Wood-Using Industry		
	Lumber Sawmills	Veneer and Plywood	Shake and Shingle
All species.....	532,340	591,569	11,319
Douglas Fir.....	352,786	565,863	NA*
Hemlock.....	58,287	21,031	NA
True Firs.....	26,780	980	NA
Spruce.....	---	2,990	NA
White and Sugar Pines.....	46,412	140	NA
Ponderosa and Jeffrey Pines....	9,392	---	NA
Redwood.....	6,400	---	NA
Other softwoods.....	18,783	556	NA

^{1/} Scribner Log Rule - thousand board feet

*NA - not available

SOURCE: Oregon State Department of Forestry jointly with U.S. Forest Service, Oregon Timber Industries, 1968, Wood Consumption and Mill Characteristics, 1968.

Table 71. Installed 8-Hour Capacity of Wood-Using Industries, Douglas County, 1968

Industry	Capacity
Sawmill-lumber.....	2,603,000 ^{1/}
Veneer and plywood.....	4,091,000 ^{2/}
Pulp and board mills.....	1,210 ^{3/}

^{1/} Scribner Log Rule - thousand board feet.

^{2/} Square feet, 3/8 inch basis.

^{3/} 24 hour capacity in tons.

SOURCE: Oregon State Department of Forestry jointly with U.S. Forest Service, Oregon Timber Industries, 1968, Wood Consumption and Mill Characteristics, 1968.

Over 1,042,000 tons of bark and wood residue were produced by Douglas County wood-using industries in 1968. Of this quantity, nearly 802,000 tons were consumed for such uses as pulp, particle board, and fuel. The remaining 239,000 tons were unused. (Also, see Forest Lands section for additional information.)

Manufacturing

Table 72. Manufacturing Other than Lumber and Wood Products, Food & Kindred Products, and Mineral, Metal and Related Products, Douglas County, 1970

Major and Subgroup	Number of Firms	Employment
Paper and Allied Products except building paper.....	1	250
Printing and Publishing		
Newspapers: publishing and printing.....	7	84
Commercial printing: non-Litho...	3	5
Commercial printing: Litho.....	1	4
Machinery, except electrical		
Internal combustion engines.....	1	4
Construction machinery.....	2	23
Industrial trucks, stackers.....	1	125
Woodworking machinery.....	4	75
Misc., non-electrical machinery...	3	13
Rubber and misc. plastic products...	3	26
Transportation equipment		
Motor vehicle equipment.....	1	2
Trailer coaches.....	1	2

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

Mining - Mineral and Metal Industries

Mineral production in Douglas County consists primarily of nickel, sand and gravel, stone, mercury, pumice and gold, in descending order of value produced. The total value of minerals produced in 1968 was \$9,295,000.

Douglas County has the highest yearly value of sales in Oregon for mineral production. This worth is derived from the production of nickel, sand, stone and gravel products and also from mercury and gold.

Table 73. Mineral, Metal and Related Manufacturing, Douglas County, 1970

Major and Subgroups	Number of Firms	Employment
Stone, clay and related products		
Concrete blocks, tile, brick.....	4	25
Ready mix concrete.....	2	17
Crushed stone, gravel.....	1	22
Pottery and related products.....	1	16
Primary Smelting and Refining.....	1	400

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

Table 74. Value of Mineral Production, Douglas County, 1964-1968

Year	Value	Minerals produced in order of value
1964.....	\$ 9,804,000	Nickel, sand and gravel, mercury
1965.....	11,483,000	Nickel, sand and gravel, mercury
1966.....	9,929,000	Nickel, sand and gravel, mercury
1967.....	9,730,000	Nickel, sand and gravel, mercury
1968.....	9,295,000	Nickel, sand and gravel, stone, mercury, gold

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

Outdoor Recreation

A combination of the Cascade Mountains, the Coast Range, the Umpqua River system, Diamond and other lakes, plus 29 miles of seashore offer ample opportunity for outdoor recreation in Douglas County.

The county park department presently has 52 parksites under its maintenance, totaling 1,068 acres. The State of Oregon has 15 park areas within the county which encompass 3,878 acres. Sixty-four federal park sites are divided between the Bureau of Land Management and U.S. National Forest Service lands.

Table 75. Public Recreation Facilities, Douglas County

Name	General Location	Acreage
Britt Nichols.....	Melrose	123.75
James Wood.....	Umpqua	1.90
Fair Oaks.....	Fair Oaks	3.37
Mack Brown.....	Umpqua	3.37
Anna Drain.....	Drain	1.70
Salmon Harbor.....	Winchester Bay	90.00
Dave Busenbark.....	Reston	28.60
Ada.....	Ada	13.90
Southside.....	Smith River	30.80
Hedden.....	Scottsburg	0.50
Richard G. Baker Memorial.....	Idleyld	8.10
Singleton.....	Garden Valley	3.31
Ziolkouski Beach.....	Winchester Bay	4.63
Barton.....	Azalea	27.30
Winston-Dillard.....	Winston-Dillard	7.48
Canyonville.....	Canyonville	10.27
Edward W. Sparrow.....	Gardiner	14.60
North Myrtle Creek.....	Myrtle Creek	18.96
Gardiner County Dock.....	Gardiner	0.25
Smith Spring.....	Idleyld	30.00
V.T. Jackson Wayside.....	Glide	3.00
Stearns.....	Oakland	3.50
Cable Crossing Wayside.....	Idleyld	0.50
Lone Rock Wayside.....	Glide	0.50
Steamboat Falls.....	Steamboat	15.41
Whistlers Bend.....	Glide	174.53
Angler's Acres.....	Elkton	3.04
Chris Hetness Landing.....	Garden Valley	1.09
John Amacher.....	Winchester	14.09
Madison Wayside.....	Kellogg	1.64
O.C. Brown.....	Dixonville	5.00
Charles V. Stanton.....	Canyonville	27.25
Iverson Memorial.....	Reston	29.80
Scottsburg (M. Goodwin).....	Scottsburg	99.74
Cleveland Rapids.....	Garden Valley	8.89
The Narrows.....	Idleyld	1.82
Pass Creek.....	Curtin	20.38
Carl C. Hill Wayside.....	Milo	4.88
River Forks (Knapp).....	Garden Valley	76.07
Longfibre.....	Azalea	31.48
Green.....	Green	6.00
Windy Cove.....	Winchester Bay	14.00
Windy Creek.....	Glendale	6.00
Scotts Creek.....	Sawyer Rapids	2.01

Table 75, cont. Public Recreation Facilities, Douglas County

Name	General Location	Acreage
Cooper Creek.....	Sutherlin	45.00
Cavitt Creek.....	Little River	0.50
Yellow Creek.....	Kellogg	0.50
McHugill.....	Kellogg	0.50
Plat I.....	Sutherlin	20.00
Herbert's Pond.....	Canyonville	9.00
Umpqua Park.....	Douglas County Fair Grounds	18.50
Total County Parks.....		1,068.41

SOURCE: Douglas County Planning Commission, The Character of Douglas County, 1955.

Table 76. Financial Expenditures and Sources for Parks and Recreation in Douglas County and Region, 1967-69

Item	Douglas County		Region	
	1967-68	1968-69	1967-68	1968-69
Expenditures				
Salaries.....	\$ 84,080	\$296,750	\$266,970	\$ 90,400
Operation and Maintenance...	55,692	114,050	124,547	38,950
Acquisition.....	---	41,000	15,000	37,000
Development.....	141,498	379,775	362,739	150,030
Other.....	---	12,200	40,801	---
Total.....	281,270	843,775	810,057	316,380
Sources				
General Fund.....	\$281,270	\$776,675	\$751,670	\$316,380
Special Taxes.....	---	---	---	---
Fee and Charges.....	---	---	3,500	---
L & W Funds.....	---	41,000	17,400	---
Other Programs.....	---	26,000	---	---
Other Sources.....	17,000	10,000	40,387	---
Total.....	\$298,270	\$853,775	\$844,457	\$316,380

SOURCE: Oregon State Department of Transportation, State Highway Division, Financial Action Report for Parks and Recreation, 1967-1975, State Parks and Recreation Section.

Table 77. State Parks in Douglas County

Park Name	Location	Acreage
Bolon Island Tideways Wayside....	City of Reedsport	11.41
Camas Mountain Wayside.....	3 mi. E. Camas Valley	160.00
Canyon Creek Forest Wayside.....	3 mi. S. Canyonville	80.24
Cow Creek Tunnel Forest Wayside..	4 mi. S. Azalea	43.84
Elk Creek Tunnel Forest Wayside..	3 mi. N.W. Elkton	200.00
Hutchinson Wayside.....	10 mi. S.E. Elkton	6.00
Pass Creek Wayside.....	5 mi. S. Cottage Grove	15.00
Rice Hill Wayside.....	Near Rice Hill	57.04
Gaddis Park (leased to City of Roseburg).....	City of Roseburg	16.34
Stage Coach Forest Wayside (also 151 acres in Josephine Co., total park acreage, 231.0).....	18 mi. S. Canyonville	80.00
Susan Creek State Park.....	29 mi. N.E. Roseburg	175.89
Umpqua Lighthouse State Park.....	5 mi. S. Reedsport	2,745.02
Umpqua Myrtle Preserve.....	7 mi. W. Elkton	4.85
Umpqua Wayside.....	7 mi. E. Reedsport	95.82
William M. Tugman State Park (also 230.0 acres in Coos Co., total park acreage 480.30).....	5 mi. S. Winchester Bay	250.00
Total State Park Acreage.....		3,941.21

SOURCE: Oregon State Department of Transportation, State Highway Division, "State Park Acreage", State Parks and Recreation Division, 1972.

Table 78. Attendance at State Parks in Douglas County, 1968-72

Park and Use	1968-69	1969-70	1970-71	1971-72
Susan Creek				
Day visits.....	42,676	39,824	45,676	43,696
Overnight camping.....	8,244	9,592	11,706	11,881
Umpqua Lighthouse				
Day visits.....	264,442	60,225	48,367	38,452
Overnight camping.....	23,936	25,478	24,690	24,811
Umpqua Wayside				
Day visits.....	111,380	40,551	38,264	35,418

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

Table 79, cont. Federal Parks in Douglas County

Park Name	Location	Acreage
Clearwater Falls.....	12 mi. N.W. Diamond Lake	5.50
Cliff Lake.....	25 mi. N.E. Tiller	2.00
Coolwater.....	16 mi. E. Glide	5.00
Cover.....	17 mi. N.E. Tiller	3.00
Devils Flat.....	18 mi. E. Azalea	2.00
Diamond Lake.....	E. side Diamond Lake	100.00
Dumont Creek.....	10 mi. N.E. Tiller	2.00
Eagle Rock.....	14 mi. S.E. Steamboat	10.00
Fish Creek.....	9 mi. S. Toketee R.S.	1.00
Fish Lake.....	26 mi. N.E. Tiller	2.00
Hamaker.....	14 mi. S.W. Diamond Lake	---
Hemlock Meadow.....	32 mi. S.E. Glide	1.00
Horseshoe Bend.....	6 mi. S.E. Steamboat	25.00
Huckleberry Lake.....	26 mi. E. Tiller	1.00
Inlet.....	on Lemolo Lake	5.00
Island.....	2 mi. S.E. Steamboat	2.00
Lake in the Woods.....	20 mi. E. Glide	4.00
Lemolo Falls.....	3 mi. N.E. Lemolo Lake	1.00
Muir Creek.....	15 mi. S.W. Diamond Lake	---
Neal Springs.....	25 mi. E. Tiller	3.00
Noble Fir.....	on W. side Diamond Lake	1.00
Poole Creek.....	on Lemolo Lake	9.00
South Shore Diamond Lake.....	S. end Diamond Lake	14.00
South Umpqua Falls.....	21 mi. N.E. Tiller	3.00
Steamboat Falls.....	7 mi. N.E. Steamboat	4.00
Tahkenitch Lake.....	7 mi. N. Gardiner	---
Thielsen Creek.....	6 mi. N. Diamond Lake	1.00
Timpanogas Lake.....	40 mi. S.E. Oakridge	---
Threehorn.....	13 mi. S.E. Tiller	7.00
Toketee Lake.....	2 mi. E. Toketee	6.00
Weeping Rocks.....	13 mi. E. Steamboat	2.00
White Creek.....	17 mi. E. Glide	1.00
Whitehorse Falls.....	8 mi. E. Toketee Falls	3.00
Williams Creek.....	2 mi. W. Steamboat	1.00
Wolf Creek.....	12 mi. S.E. Glide	9.00

On the extreme eastern boundary of the county is the large Crater Lake National Park, while on the extreme western portion of the county is located proposed Dunes National Seashore Park. Nearly half of this proposed park (13,548 acres) would be in Douglas County.

SOURCE: Douglas County Planning Commission, The Character of Douglas County, 1955.

Each year a large number of both Douglas County residents and nonresidents hunt a variety of game animals in the county. More hunters participate in the blacktail deer season than any other game season, but large numbers also hunt elk, pheasant, and ducks.

Table 80. Douglas County Game Harvest

Game	Hunters		Kill		Days Hunted
	Number	Percent of State Total	Number	Percent of State Total	
Pheasant.....	1,161	1.61	2,045	.84	4,597
Quail.....	521	1.99	2,284	1.44	2,109
Blue and Ruffed Grouse..	591	7.65	1,295	7.69	1,417
Silver Gray Squirrel....	677	14.77	5,348	24.55	2,893
Pigeon.....	746	6.01	11,054	9.13	3,844
Mourning Dove.....	444	2.71	5,077	2.58	1,524
Ducks.....	920	1.64	12,930	2.27	7,960
Geese.....	20	.07	20	.03	40
Deer <u>1</u> /.....	15,170	5.43	6,790	7.73	NA*
Elk <u>1</u> /.....	2,640	3.54	383	3.73	15,930

*NA - not available.

1/ Statistics are for Dixon, Elkton, and Melrose game management areas, which include most of Douglas County but some areas of other counties as well.

SOURCE: Oregon State Game Commission, 1968 Annual Report, Oregon State Game Commission.

Table 81. Winchester Dam Fish Counts, North Umpqua River

Species	Number of Fish by Year	
	1960	1965
Salmon.....	10,680	10,680
Steelhead.....	6,100	6,100

SOURCE: Oregon State Fisheries Commission, 1968 Annual Report.

Table 82. Summary of Diamond Lake Catch Statistics, 1964, 1966, and 1968

Year	Angler Trips	Caught	Poundage	Catch Per Acre (pounds)	Average Weight of Fish (pounds)	Fish Per Hour	Fish Per Angler Trip
1964...	115,532	416,091	342,028	118.3	0.82	0.71	3.60
1966...	133,076	317,599	253,652	87.7	0.80	0.53	2.38
1968...	105,891	264,694	213,392	73.8	0.81	0.61	2.50

SOURCE: Oregon State Fisheries Commission, 1968 Annual Report.

The commercial fishing industry in the county is centered at Winchester Bay. Related fish processing consists of three cannery and cured fish processors employing over 300 persons. The exact number of fishermen involved is unavailable because many follow the fish migrations along the coast.

Table 83. Commercial Fisheries Statistics, Douglas County, 1969

Species - Type	Pounds	Value
Salmon		
Chinook.....	57,965	\$160,000
Silver.....	375,621	31,000
Crab.....	86,165	26,000
Tuna.....	82,879	19,000
Shad.....	371,174	40,000
Shrimp.....	32,711	4,000
Bottom Fish.....	3,005,789	240,000
Others.....	---	12,000
Total.....	4,078,960	\$532,000

SOURCE: Oregon State Fisheries Commission, 1968 Annual Report.

Business

Table 84. Retail and Wholesale Trade, Douglas County, 1967

Kind of Business	Establish- ments Number	Sales \$1,000	Paid Employees <u>1</u> / Number
Retail trade, total.....	704	92,035	2,588
Building materials, hardware, farm equipment			
Total.....	43	5,121	134
Building material and supply stores.....	25	2,979	82
Hardware stores.....	14	1,173	*
Farm equipment dealers.....	4	969	*
General merchandise stores			
Total.....	28	7,608	295
Department stores.....	3	5,256	195
Variety stores.....	10	1,512	*
Misc. general merchandise stores.	15	840	*
Food stores			
Total.....	111	22,413	377
Grocery stores.....	91	21,634	347
Meat and fish markets.....	5	388	*
Fruit stores and vegetable markets.....	2	*	*
Candy, nut, and confectionery stores.....	---	---	---
Retail bakeries.....	8	*	*
Other food stores.....	5	*	*
Automotive dealers			
Total.....	50	20,348	403
Motor vehicle dealers.....	27	16,557	312
Tire, battery, and accessory dealers.....	16	2,669	*
Misc. automotive dealers.....	7	1,122	*
Gasoline service stations			
Total.....	112	10,883	315
Apparel and accessory stores			
Total.....	22	2,393	*
Women's ready-to-wear.....	7	616	31
Women's accessory and specialty stores.....	---	---	---
Furriers and fur shops.....	---	---	---
Men's and boys' clothing stores..	4	595	24
Family clothing stores.....	3	*	*

Table 84, cont. Retail and Wholesale Trade, Douglas, 1967

Kind of Business	Establish- ments Number	Sales \$1,000	Paid Employees <u>1/</u> Number
Apparel and accessory stores, cont.			
Shoe stores.....	7	571	22
Other N.E.C. apparel stores.....	1	*	*
Furniture, home furnishings stores			
Total.....	37	3,090	81
Furniture stores.....	10	746	*
Home furnishing stores.....	6	664	*
Home appliance stores.....	12	918	27
Radio, TV, and music stores.....	9	762	19
Eating and drinking places			
Total.....	129	6,747	583
Eating places.....	92	5,013	456
Drinking places (alcoholic).....	37	1,734	127
Drug and proprietary stores			
Total.....	19	4,895	130
Drug stores.....	16	4,555	130
Proprietary stores.....	---	---	---
Miscellaneous retail stores			
Total.....	114	7,370	146
Liquor stores.....	14	1,832	*
Antique and secondhand stores...	13	286	6
Sporting and bicycle stores.....	14	760	11
Jewelry stores.....	7	521	*
Fuel and ice dealers.....	9	820	*
Florists.....	9	168	4
Cigar stores.....	3	10	---
Miscellaneous retail N.E.C.....	45	2,973	68
Nonstore retailers			
Total.....	39	1,167	*
Mail order houses.....	3	*	*
Merchandise machine operators...	3	81	---
Direct selling establishments...	33	*	---
Wholesale trade, total <u>2/</u>	92	42,341	433

* Withheld to avoid disclosure.

1/ Excludes active proprietors.

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

SOURCE: U.S. Bureau of the Census, Census of Business, 1967 Retail Trade: Oregon, BC 67 - RA 39, U.S. Government Printing Office, Washington, D.C., 1969.

U.S. Bureau of the Census, Census of Business, 1967 Wholesale Trade: Oregon, BC 67 - WA 39, U.S. Government Printing Office, Washington, D.C., 1969.

PUBLIC SERVICES

Transportation

Douglas County has an extensive highway and road system. Interstate 5 traverses the county in a north-south direction. State highways 28, 138, and 42 give east-west access to the Roseburg and valley areas. The system of forest access roads is ever increasing as new areas are logged out.

Regularly scheduled bus service by Greyhound and Pacific Trailways covers most of the population centers including some along secondary routes.

Southern Pacific Railroad and several smaller local lines furnish rail services.

Several motor freight lines have terminals and offer pickup and delivery services throughout the county.

Table 85. Motor Vehicle Registration, Douglas County, 1971

Item	Number
Passenger vehicles.....	44,386
Buses.....	62
Trucks.....	2,650
All trailers.....	4,778
Motorcycles.....	1,926
Recreational.....	3,844
Total vehicles.....	57,646

SOURCE: Oregon Department of Transportation, Motor Vehicles Division, March 1971.

Table 86. Trends in Average Daily Traffic Volumes at Recorder Stations, Douglas County, 1959, 1963, and 1967

Station	1959	1963	1967
Scottsburg.....	1,215	1,435	1,982
Winchester Bay.....	2,802	2,991	4,254

SOURCE: Oregon State Department of Transportation, State Highway Division, Traffic Section Planning Unit, Traffic Volume Tables.

Table 87. Seasonal Trends in Average Daily Traffic Volumes at Recorder Stations, Douglas County, 1967

Station	Feb.	May	Aug.	Nov.	Annual
Scottsburg.....	1,338	1,852	2,911	1,896	1,982
Winchester Bay.....	3,728	4,043	5,999	3,949	4,254

SOURCE: Oregon State Department of Transportation, State Highway Division, Traffic Section Planning Unit, Traffic Volume Tables.

Table 88. Traffic Volumes at Recorder Stations by Classification of Vehicles, Douglas County, 1967 1/

Item	Scottsburg	Winchester Bay
Oregon passenger cars.....	51.2	54.3
Out-of-state passenger cars.....	7.8	9.6
Panels and pickups.....	18.4	18.2
Light vehicles and trailers.....	2.9	2.6
Total light vehicles.....	80.3	84.7
Total trucks.....	19.7	15.3

1/ Figures are percent of average daily traffic.

SOURCE: Oregon State Department of Transportation, State Highway Division, Traffic Section Planning Unit, Traffic Volume Tables.

There are no state owned and operated air fields in Douglas County. Private airfields do exist, but no major airports are in the vicinity. Travel is limited to single engine and light twin engine craft. Better facilities are in the planning stage now to accommodate the larger aircraft.

The Port of Umpqua serves the Reedsport, Gardiner-Winchester Bay area of Douglas County. There is a good deal of intra-port movement of logs and sand and gravel. Access to the ocean is used mainly by commercial fishing boats, small recreational boats and commercial tugs and barges hauling wood products and sand and gravel. The Corps of Engineers is proposing to modify the existing navigation project from Reedsport to the sea so that deeper draft ocean-going ships can be accommodated.

Communication

The major means of communication are located in the Roseburg area in Douglas county, as it is the largest population center in the county. Three of the four radio stations, the one television station, and four of the eight newspapers are located in Roseburg. The following tables give information on communication facilities, both commercial and private.

Table 89. Communication Facilities, Douglas County

Type Service	Frequency	Location	Network Affiliation
<u>Radio stations</u>			
KRAF.....	1470	Reedsport	---
KQEN.....	1240	Roseburg	ABC
KRNR.....	1490	Roseburg	CBS
KYES.....	950	Roseburg	---
<u>Commercial television</u>			
KPIC - TV.....	4	Roseburg	NBC
<u>Newspapers</u>			
Courier.....		Reedsport	
Enterprise.....		Drain	
The News Review.....		Roseburg	
The Shopper.....		Roseburg	
The Sun-Tribune.....		Roseburg	
Thrifty Nickel.....		Roseburg	
Mail.....		Myrtle Creek	
Sun.....		Sutherlin	
<u>Telephone companies</u>			
California Pacific Utilities Company.....		Azalea, Canyonville, Days Creek, Glendale, Myrtle Creek, Riddle, Wolf Creek	
United Telephone Company of the Northwest.....		Diamond Lake	
Umpqua Telephone Company, Inc...		Elkton-Scottsburg	
Yoncalla Telephone Company.....		Yoncalla	
Pacific Northwest Bell.....		Roseburg	

SOURCES: Pacific Northwest Bell, unpublished data, 1971.
Oregon State Executive Department, Clay Meyers, Secretary of State,
Oregon Blue Book, 1971-72, January 1971.

Table 90. Residential Communication Facilities, Douglas County, 1970

Facilities	Number of Housing Units
<u>Battery radio sets</u>	
Yes.....	16,609
No.....	5,951
<u>Telephone available</u>	
Yes.....	19,095
No.....	3,465
<u>Television sets</u>	
One.....	17,134
Two or more.....	3,785
None.....	1,641
<u>UHF equipped</u>	
Yes.....	6,622
No.....	14,297

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

The 12 library facilities in Douglas County received \$8,000 from city funds, \$239,031 from county funds, and \$699 from other funds for operating during the 1969-70 year.

The following table gives information on the number of volumes available and their circulation.

Table 91. Douglas County Libraries, by City of Location, 1969-70

City	Population	Volumes	Circulation
Roseburg Headquarters.....	---	83,623	225,668
Canyonville.....	970	5,694	12,743
Drain.....	1,000	5,486	14,572
Glendale.....	730	5,465	15,244
Myrtle Creek.....	2,740	5,593	21,917
Oakland.....	825	5,025	12,232
Reedsport.....	4,300	7,771	24,152
Riddle.....	1,117	6,478	22,763
Sutherlin.....	3,000	6,256	25,571
Winston.....	2,500	6,134	19,703
Yoncalla.....	670	6,851	15,871
Extension Service.....	---	---	185,697
County total.....	74,150	144,776	596,133

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

Utilities

Table 92. Housing Units by Water Supply and Sewage Disposal, Douglas County, 1970

Subject	Douglas County		State
	Number	Percent 1/	Percent 1/
Water source			
Public system or private company..	16,813	70.56	79.8
Individual well.....	4,933	20.70	16.9
Other or none.....	2,066	8.67	3.3
Sewage disposal			
Public sewer.....	12,938	54.30	61.0
Septic tank or cesspool.....	10,267	43.09	37.5
Other or none.....	607	2.55	1.5

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 93. Housing Units by Water Supply and Sewage Disposal,
for Cities with over 2,500 Inhabitants, 1970

Subject	Roseburg	Myrtle Creek	Reedsport	Sutherlin
Water source				
Public system or private company.....	5,064	855	1,390	889
Individual well.....	7	19	20	121
Other or none.....	---	15	7	---
Sewage disposal				
Public sewer.....	4,947	697	1,311	703
Septic tank or cess pool.	117	183	91	307
Other or none.....	7	9	15	---

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 94. Types of Fuels and Fuel Usage, by Number of Housing Units,
Douglas County, 1970

Types of Fuels	Home Heating Fuel	Water Heating Fuel	Cooking Fuel
Utility gas.....	3,613	1,377	1,530
Fuel oil, kerosene, etc....	7,679	125	18,148
Coal or coke.....	40	---	2,464
Wood.....	3,541	101	86
Electricity.....	6,455	19,617	---
Bottled, tank, or LP gas...	1,110	988	224
Other fuel.....	36	---	87
None.....	86	352	21
All housing units.....	22,560		

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 95. Selected Items of Local Government Finances, Douglas County, 1966-67

Item	Total Amount (\$1,000)	Per Capita Amount (dollars)
General revenue, exc. interlocal...	\$26,618	\$366.64
Intergovernmental revenue.....	13,123	180.76
From state government.....	9,196	126.66
From local sources.....	13,494	185.88
Taxes.....	10,400	143.25
Property.....	10,239	141.02
Other.....	161	2.21
Charges and Miscellaneous.....	3,095	42.63
Direct general expenditure.....	26,372	690.18
Capital outlay.....	6,556	246.93
Other.....	19,806	443.25
Education.....	14,661	290.20
Other than capital outlay.....	12,591	271.27
Highways.....	5,629	122.96
Other than capital outlay.....	2,246	104.31
Public welfare.....	227	.06
Hospitals.....	352	---
Other than capital outlay.....	345	---
Health.....	277	3.33
Police protection.....	665	9.62
Fire protection.....	532	.67
Sewerage.....	554	17.83
Other than capital outlay.....	199	.53
Sanitation other than sewerage...	91	8.55
Parks and recreation.....	397	12.34
Natural resources.....	363	1.90
Housing and urban renewal.....	89	---
Correction.....	51	---
Libraries.....	188	1.42
Financial administration.....	417	12.34
General control.....	516	9.49
General public buildings.....	331	10.57
Interest on general debt.....	393	.25
Other and unallocable.....	640	188.64
Water supply revenue.....	370	5.10
Water supply expenditure.....	395	5.44
General debt outstanding.....	9,829	135.38
Long-term.....	8,643	119.05
Local schools.....	5,307	73.10
Other.....	3,336	45.95

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

Table 96. Summary of 1971-72 Property Tax Levies and Assessments, Douglas County

Item	Amount in Dollars
<u>Levies</u>	
County.....	\$ 1,249,201
Cities.....	1,809,697
Community Colleges.....	2,838,681
Elementary and Secondary School Districts	
Intermediate County.....	---
Education Joint.....	24,969
Elementary and Unified.....	23,158,601
Union High.....	---
County Unit.....	---
Total School Districts.....	11,075,232
Special Districts	
Cemetery.....	---
Fire protection.....	490,715
Hospital.....	122,469
Park and recreation.....	---
Port.....	34,511
Road.....	---
Sanitary.....	122,196
Water supply.....	84,171
Other.....	---
Total Special Districts.....	854,062
Total Gross Ad Valorem Levies.....	15,906,693
Special Assessments	
Fire patrol.....	80,967
Forest fee.....	2,217
Diking and drainage.....	6,166
Irrigation.....	---
Lighting.....	---
Other.....	---
Total Special Assessments.....	89,350
Total Gross Levies and Assessments.....	15,996,043
Less Property Relief Money	
Senior Citizens.....	(-54,634)
Game Commission.....	---
Total Net Ad Valorem Levies.....	15,852,059
Net Ad Valorem Taxes by Class	
Real Property.....	12,232,213
Personal Property.....	1,758,716
Utility Property.....	1,861,129

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

Table 97. City Valuation, Tax Rates and Taxes Extended in Douglas County

Item	Roseburg	Myrtle Creek	Reedsport	Winston
Population.....	14,530	2,705	4,254	2,572
Code Area <u>1</u> /.....	4-01,4-22	19-01	105-01	116-04
Assessed Value....	\$95,770,678	\$10,387,479	\$24,868,952	\$9,204,716
Assigned Ratio....	100.00%	100.00%	100.00%	100.00%
Rate/\$1,000 by levying unit				
County.....	1.48	1.48	1.48	1.48
City.....	9.21	11.73	7.46	7.93
School.....	12.57	13.71	17.20	15.18
Other.....	1.12 <u>2</u> /	.00	1.37	2.45
Total.....	23.26 <u>3</u> /	26.92	27.51	27.03
City Tax.....	\$1,024,815	\$121,845	\$185,522	\$ 72,993
Consolidated Tax..	2,605,548	279,631	684,145	248,803
Item	Canyonville	Drain	Oakland	Riddle
Population.....	1,032	1,200	1,020	1,060
Code Area <u>1</u> /.....	8-01	22-01	1-01	70-01
Assessed Value....	\$4,774,738	\$4,556,717	\$2,221,398	\$3,633,825
Assigned Ratio....	100.00%	100.00%	100.00%	100.00%
Rate/\$1,000 by levying unit				
County.....	1.48	1.48	1.48	1.48
City.....	12.18	6.84	15.46	11.13
School.....	13.71	18.10	13.55	15.67
Other.....	.00	.00	.00	.00
Total.....	27.37	26.42	30.49	28.28
City Tax.....	\$ 58,156	\$ 31,168	\$34,343	\$ 40,444
Consolidated Tax..	130,685	120,388	67,730	102,765

1/ Code areas are assessors' divisions which cover all or part of a city.

2/ 4-22 code area only.

3/ Total for area 4-22 is 24.38

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

Table 98. Per Capita City Taxes and Valuation Percentage Distribution of Consolidated Rates and Dollars Per Thousand Rates on True Cash Value in Douglas County

Item	Roseburg	Myrtle Creek	Reedsport	Winston
True Cash Value (T.C.V.)..	\$111,272,003	\$10,387,479	\$24,868,952	\$9,204,716
Per Capita True Cash Value.....	7,658	3,840	5,846	3,579
Per Capita Tax				
City.....	71	45	44	28
Consolidated.....	179	103	161	97
Percentage of Total Levy				
County.....	6.3	5.5	5.4	5.5
City.....	39.3	43.6	27.1	29.3
School.....	53.7	50.9	62.5	56.2
Other.....	.7	.0	5.0	9.1
Average Rate/\$TCV Basis				
County.....	1.48	1.48	1.48	1.48
City.....	9.21	11.73	7.46	7.93
School.....	12.57	13.71	17.20	15.18
Other.....	.16	.00	1.37	2.45
Total.....	23.42	26.92	27.51	27.03

Item	Canyonville	Drain	Oakland	Riddle
True Cash Value (T.C.V.)..	\$4,774,738	\$4,556,717	\$2,221,398	\$3,633,825
Per Capita True Cash Value.....	4,627	3,797	2,178	3,428
Per Capita Tax				
City.....	56	26	34	38
Consolidated.....	127	100	66	97
Percentage of Total Levy				
County.....	5.4	5.6	4.9	5.2
City.....	44.5	25.9	50.7	39.4
School.....	50.1	68.5	44.4	55.4
Other.....	.0	.0	.0	.0
Average Rate/\$TCV Basis				
County.....	1.48	1.48	1.48	1.48
City.....	12.18	6.84	15.46	11.13
School.....	13.71	18.10	13.55	15.67
Other.....	.00	.00	.00	.00
Total.....	27.37	26.42	30.49	28.28

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

Table 99. Summary of Assessment Rolls for 1971-72 Fiscal Year Real Property, Personal Property and Utilities, Douglas County

Item	Assessed Value	Percent of Total
<u>Class</u>		
Real Property		
Lands inside corporate limits.....	45,054,370	5.36
Lands outside corporate limits.....	133,211,310	15.85
Improvements inside corporate limits.....	109,003,400	12.97
Improvements outside corporate limits.....	212,788,550	25.32
Timber (excludes land).....	148,760,250	17.70
Less veterans exemptions.....	(-5,720,050)	(-.68)
Less senior citizens residence exemptions.....	(-2,536,940)	(-.30)
Taxable real property.....	640,560,890	76.21
Personal Property		
Merchandise and stock in trade.....	47,488,373	5.65
Furniture, fixtures and equipment.....	7,266,830	.86
Farm machinery and equipment.....	3,424,704	.41
Other machinery and equipment.....	27,968,238	3.33
Livestock.....	5,511,513	.66
Miscellaneous.....	1,473,220	.18
Less veterans exemptions.....	(-13,673)	(-.002)
Less senior citizens residence exemptions.....	(-13,410)	(-.002)
Taxable personal property.....	93,105,796	11.08
Total taxable real and personal property....	733,666,686	87.29
Utilities		
Airline companies.....	32,300	.004
Electric companies.....	73,194,432	8.70
Express companies.....	---	---
Gas companies.....	5,359,425	.64
Heating companies.....	---	---
Pipeline companies.....	---	---
Railroad companies.....	7,585,250	.9
Tank and private car companies.....	759,008	.09
Telegraph companies.....	18,100	.002
Telephone companies.....	17,335,448	2.06
Water companies.....	2,553,410	.30
Water transportation companies.....	22,300	.003
Taxable utility property.....	106,859,673	12.71
Total taxable real, personal, and utility property.....	840,526,359	100.00

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

Table 100. Amount and Percent of Unpaid Property Tax, Douglas County, 1971

Item	Total Amount	Amount Unpaid	Percent of Unpaid
Property Taxable			
Real.....	\$10,884,310	\$1,029,433	66.53
Personal.....	1,706,102	110,474	7.14
Public utilities.....	1,577,495	37,542	2.42
Western Oregon additional timber tax.....	370,162	369,977	23.91
Yield tax.....	1,327		
Total.....	14,499,396	1,547,426	100.00

SOURCE: Oregon State Department of Revenue, Summary of Assessment and Tax Rolls for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property Tax Collections, 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, Lab. and Ind. 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)

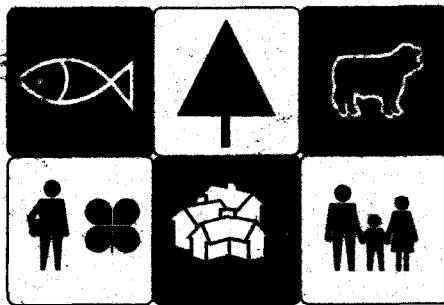
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