

*Klamath County, Oregon*

**RESOURCE  
ATLAS**

- NATURAL
- HUMAN
- ECONOMIC
- PUBLIC

SEPTEMBER 1973

EXTENSION *Community Development* PROJECT

OREGON STATE UNIVERSITY

Klamath County, Oregon

RESOURCE

ATLAS

NATURAL

HUMAN

ECONOMIC

PUBLIC

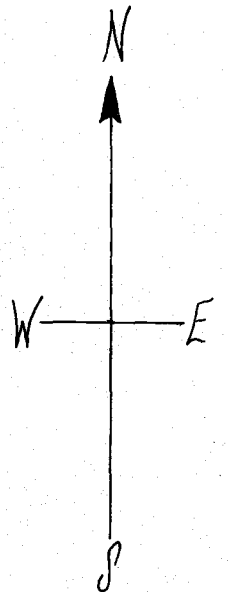
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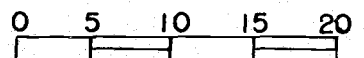
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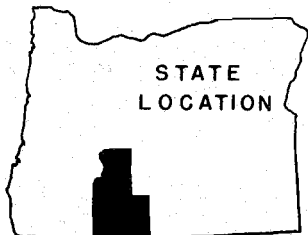
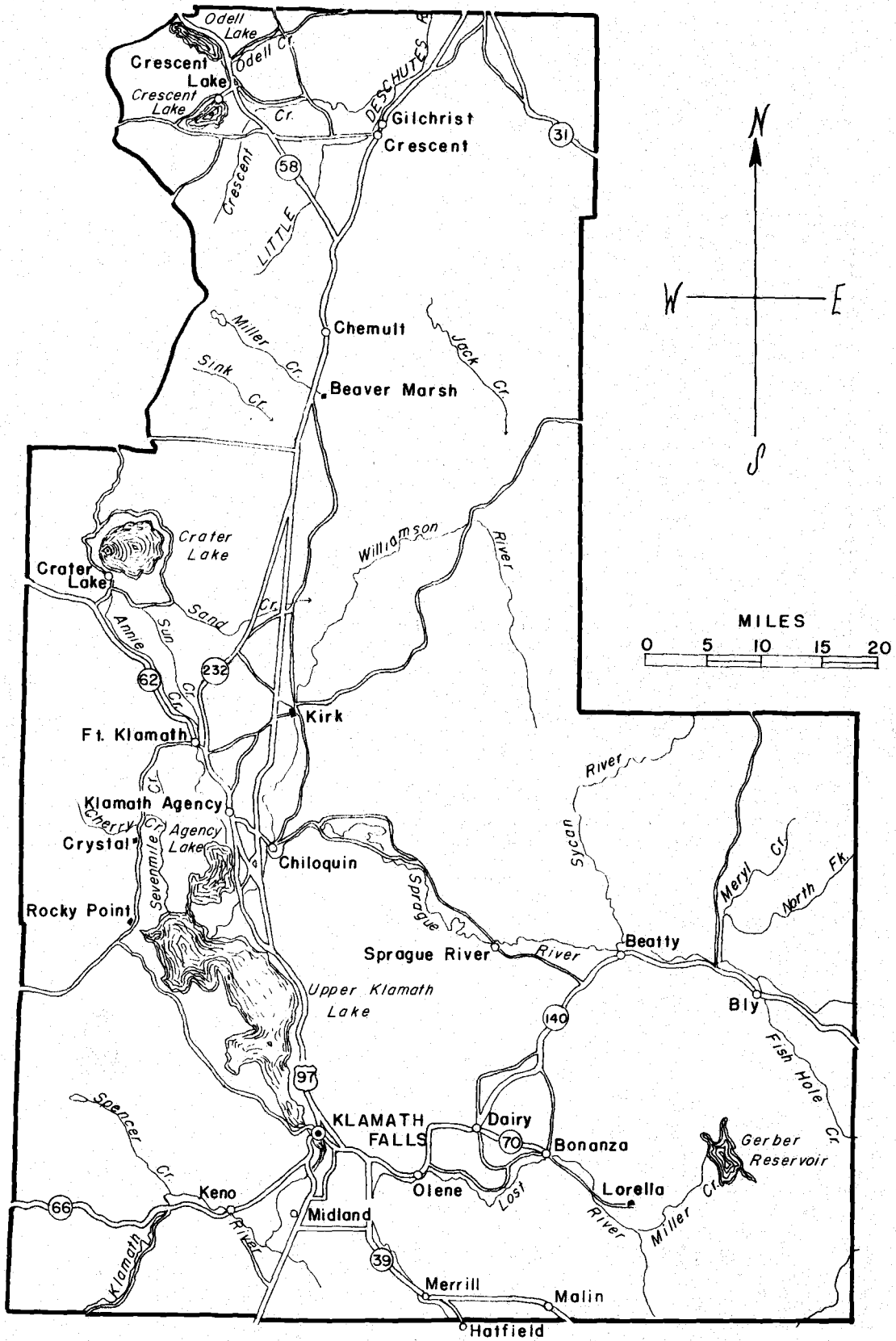
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KLAMATH  
COUNTY







MILES





**LEGEND**

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

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## GENERAL DESCRIPTION 1/

Klamath County is located in south-central Oregon on the California border. It is bordered on the west by Jackson, Douglas, and Lane Counties, on the north by Deschutes County, and on the east by Lake County.

Covering over 3,900,000 acres, Klamath County is the fourth largest county in Oregon. Klamath Falls, the county seat and largest city, is located in the south-central portion of the county and is approximately 280 miles south-east of Portland, 420 miles north of San Francisco, 173 miles southeast of Eugene, and 96 miles west of Lakeview.

Over 75 percent of the land area in the county is forest. Over half of the land is publicly owned.

In 1972, the county ranked eleventh in the state in population with 51,940 people.

The climate of Klamath County varies considerably throughout the county. Heavy rainfall occurs in the Cascade Mountains in the western portion of the county, while desert areas exist in its eastern portion.

The county's economy is based around lumbering and agriculture. Recreation is also important.

Klamath County was established in 1882 from part of Lake County. The county is named after the Klamath Indian tribe.

A brief summary of the major facts for the county is noted below.<sup>2/</sup>

Area: 6,151 square miles  
3,936,640 acres

Population: 51,940  
(July 1, 1972)

Elevation at Klamath Falls: 4,105 ft.

True Cash Value: \$620,904,409  
(1972)

Average Temperature:  
Summer - 65.9  
Winter - 34.1

Principal Industries:  
Agriculture, Lumbering,  
Recreation

County Seat: Klamath Falls

1/ Oregon State Water Resources Board, Klamath River Basin, 1971.

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

## PHYSICAL ASPECTS 1/

High mountains, numerous lakes, and a high plateau are features of Klamath County's topography. The rugged Cascade Mountains cover the western quarter of the county. Mt. Scott in Crater Lake National Park, with an elevation of 8,938 feet, is the highest point. The remainder of the county is part of the high central Oregon plateau with elevations ranging from 4,000 to 6,000 feet.

Fresh-water lakes are numerous. Crater Lake, 62 miles northwest of Klamath Falls, lies within the rim of an extinct volcano which was 12,500 feet high. Nearly 2,000 feet deep, the lake is the deepest in the United States. Upper Klamath Lake, the largest body of fresh water west of the Rockies, is about 8 miles wide and 40 miles long. It lies between the lower slopes of the Cascades and the central plateau. In the northwestern corner of the county are Odell Lake, Crescent Lake, and Davis Lake. Small lakes are found throughout the region. The Klamath River, rising in Lake Ewauna just south of Upper Klamath Lake and flowing southwest into California, drains the southern part of the county. Lost River follows a circular course through the Klamath basin before emptying into Tule Lake. Williamson and Sprague Rivers drain the eastern part and empty into Upper Klamath Lake.

Extensive pumice plains and marshlands occur in the northern and western parts of the basin. The uplands and broad flat valleys in the central area support pine timber in the higher elevations. Lower elevation valleys in the northern section are generally covered with native grasses and sagebrush where they are not farmed. The eastern portion of the county is mountainous and well timbered with both pine and fir. The low-lying flat southern portion is under intensive agricultural development.

### Climate 1/

The climate of Klamath County is characterized by relatively dry summers with high temperatures and wet winters with moderate to low temperatures.

Much of the winter precipitation falls as snow. Total average annual snowfall at Klamath Falls is about 41 inches and at Crater Lake approximately 521 inches. Average annual precipitation ranges from 10 inches to over 70 inches.

Killing frosts have been recorded throughout the county in every month of the year. Growing seasons range from 20 to 40 days at higher elevations to 100 to 125 days in the lower valleys. Climate is the major limitation on the variety of crops which may be grown in many areas of the county.

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1/ Oregon State Water Resources Board, Klamath River Basin, 1971.

Table 1. Selected Weather Stations and their Elevations, Klamath County

Station	Elevation in Feet
Chemult.....	4,760
Chiloquin.....	4,200
Crater Lake NPS Hq.....	6,475
Klamath Falls 2 SSW.....	4,085
Merrill 2NW.....	4,080
Round Grove.....	4,888

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

Table 2. Temperature and Precipitation, Klamath County, By Month, 1951-1960 Averages

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
<u>Average Temperature</u>	----- degrees Farenheit -----												
Chemult.....	25.8	29.9	32.2	40.1	46.8	53.5	60.4	56.7	52.7	43.7	33.8	28.5	42.0
Chiloquin <u>1/</u> ...	27.2	31.5	35.4	42.6	48.5	54.8	62.8	59.8	55.2	45.4	35.2	30.5	44.1
Crater Lake NPS Hq.....	23.9	26.2	26.5	33.4	39.4	45.9	56.4	54.3	50.7	41.2	32.9	28.5	38.3
Klamath Falls 2 SSW.....	30.5	34.4	38.1	46.2	52.6	59.6	68.5	65.3	60.1	49.5	38.2	31.9	47.9
Merrill 2NW <u>1/</u> .	29.7	32.6	36.9	43.9	50.3	55.6	63.1	59.8	56.5	46.9	37.0	30.6	45.2
Round Grove....	28.6	31.4	33.7	41.2	47.5	54.1	62.3	59.9	55.2	46.1	36.3	30.8	43.9
<u>Total Precipitation</u>	----- inches -----												
Chemult <u>1/</u> .....	5.63	3.63	2.28	.94	1.27	1.21	.55	.58	.89	1.55	2.80	4.47	25.43
Chiloquin.....	3.24	2.21	1.73	.79	1.27	.99	.39	.36	.69	1.36	2.39	2.94	18.36
Crater Lake NPS Hq.....	12.55	8.90	8.29	4.29	3.60	2.37	.65	.91	2.11	5.69	8.54	12.20	70.10
Klamath Falls 2 SSW.....	2.31	1.64	1.31	.65	1.01	.95	.23	.37	.86	1.14	1.67	2.72	14.86
Merrill 2NW <u>1/</u> .	1.28	1.27	1.19	.64	1.17	.78	.33	.32	.63	.86	1.37	1.54	11.38
Round Grove <u>1/</u> .	2.09	2.00	1.63	1.23	2.15	1.27	.58	.46	.75	1.48	1.75	2.61	18.00

1/ Some months are for somewhat less than the 1951-1960, ten year, period.

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



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

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Mean Daily Maximum Temp.	- - - - - degrees Farenheit - - - - -												
Chemult <u>1/</u> .....	36.3	42.5	45.5	56.0	63.6	72.2	82.7	78.6	73.9	60.8	46.9	39.6	58.2
Chiloquin <u>1/</u> ...	37.6	44.1	48.7	58.6	65.8	74.6	85.8	82.6	77.8	64.4	49.2	43.6	61.1
Crater Lake NPS Hq. ....	30.8	34.5	35.7	43.5	49.9	57.6	70.3	68.2	63.4	51.3	41.3	36.2	48.6
Klamath Falls 2 SSW.....	38.1	43.2	48.6	58.8	65.9	73.7	84.1	81.1	75.4	62.9	48.3	40.7	60.1
Merrill 2NW <u>1/</u> .	38.9	44.5	50.0	59.4	66.2	72.6	82.8	79.5	75.8	64.2	50.7	42.1	60.6
Round Grove <u>1/</u> .	38.0	42.4	45.5	55.8	62.9	71.6	82.8	80.8	75.9	63.1	49.6	42.0	59.2
Mean Daily Minimum Temp.	- - - - - degrees Farenheit - - - - -												
Chemult <u>1/</u> .....	15.3	17.2	18.8	24.1	29.9	34.7	38.0	34.7	31.6	26.7	20.8	17.4	25.8
Chiloquin <u>1/</u> ...	16.7	18.9	22.1	26.6	31.2	35.4	39.9	37.1	32.5	26.4	21.4	17.4	27.1
Crater Lake NPS Hq. <u>1/</u> ....	17.0	17.9	17.2	23.4	28.9	34.1	42.3	40.7	37.9	31.2	24.5	20.8	28.0
Klamath Falls 2 SSW <u>1/</u> .....	22.9	25.5	27.6	33.5	39.4	45.5	52.8	49.6	44.7	36.1	28.1	23.2	35.7
Merrill 2NW <u>1/</u> .	20.4	20.7	23.8	28.3	34.4	38.5	43.4	40.0	37.2	29.7	23.2	19.0	29.9
Round Grove <u>1/</u> .	19.2	20.3	21.8	26.7	32.0	36.5	41.7	39.0	34.4	28.9	23.1	19.5	28.6

1/ Some months are for somewhat less than the 1951-1960, ten year, period.  
 SOURCE: U.S. Department of Commerce, Weather Bureau, Decennial Census of U.S. Climate, Supplement for 1951 through 1960, Oregon, No. 86-31, 1965.

Table 4. Freeze Data for Klamath County, 1951-1960

Station	Mean Number of Days with a Temperature of 32 <sup>o</sup> F. or Below												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Chemult <u>1/</u> .....	30	27	30	27	21	13	6	11	17	26	27	29	264
Chiloquin <u>1/</u> ...	30	27	29	25	17	10	4	7	19	26	26	29	249
Crater Lake NPS Hq. <u>1/</u> ...	31	28	31	26	21	12	2	4	6	17	26	30	234
Klamath Falls 2 SSW.....	28	24	23	14	6	1	0	<u>2/</u>	1	9	21	27	154
Merrill 2NW <u>1/</u> .	29	27	27	22	13	6	1	<u>2</u>	8	20	25	29	209
Round Grove <u>1/</u> .	29	25	28	25	16	8	2	3	11	22	26	29	224

1/ Some months are for somewhat less than the 1951-1960, ten year, period.  
2/ Less than 0.5 days.  
 SOURCE: U.S. Department of Commerce, Weather Bureau, Decennial Census of U.S. Climate, Supplement for 1951 through 1960, Oregon, No. 86-31, 1965.

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

### Soils 1/

Klamath County can be divided into three major physiographic areas: the Cascade Mountains in the western part, the basin and range section in the south-central section, and the lava plateau in the northern and eastern parts.

Soils in the Cascade Mountains are on very steep to gently rolling slopes. They are generally stony with bouldery clay loam subsoils.

There are three major divisions of lava plateau soils: pumice mantled portions, depressional marshy areas, and tablelands. The pumice mantled soils range from steep slopes to nearly level. They are moderately deep, excessively to moderately well drained soils. Most of these soils are covered by forest land. Depressional marshy soils are silty and dominantly organic. Tablelands are covered by subhumid to semiarid forest and grassland. They range from well drained, very stony shallow soils to poorly drained, deep soils in small stream valleys.

Basin and range area soils have been most extensively identified since they support most of the agricultural production in the area. Some of these soils are on sloping mountain ridges. They range from very stony, shallow soils to deep, stony soils with very stony clay loam subsoils.

Lake bottoms in warmer basins contain soils ranging from deep silty soils to shallow, grayish brown soils over clayey subsoils.

Bottomlands and terrace soils in warm basins on low levels range from strongly alkaline to neutral and are generally somewhat poorly drained. On higher levels, with better drainage such soils are less alkaline and range from deep loamy soils to shallow loam soils over bedrock.

Bottomlands and terraces in colder basins range from poorly drained to excessively drained and from deep loam soils in volcanic ash to shallow, clayey soils with hardpans.

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1/ For more detailed information on Klamath County soils, see: Cahoun, J.S., and G.H. Simenson, Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-13, Oregon State Water Resources Board, 1969.

## Soil Characteristics and Land Capability

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

Table 5. Use of Inventory Acreage by Capability Class, Klamath County, 1967

Capability Class and Limitations <sup>1/</sup>	Use in Acres				
	Cropland	Pasture-Range	Forest	Other Land	Total
I.....	0	0	0	0	0
II					
E.....	35,913	493	0	3,252	39,658
W.....	1,461	0	0	0	1,461
S.....	1,438	0	0	352	1,790
C.....	15,978	0	0	880	16,858
III					
E.....	19,472	493	0	3,528	23,493
W.....	34,871	0	0	3,531	38,402
S.....	33,748	247	0	3,118	37,113
IV					
E.....	11,928	7,385	62,039	1,409	82,761
W.....	53,501	9,581	39,777	8,288	111,147
S.....	3,788	5,168	1,241	352	10,549
C.....	8,406	2,953	3,912	528	15,799
V					
W.....	63,364	79,910	1,975	0	145,249
VI					
E.....	832	4,277	601,161	1,245	607,515
S.....	300	1,028	0	177	1,505
VII					
E.....	0	3,447	205,731	0	209,178
S.....	0	156,802	208,753	1,176	366,731
VIII					
W.....	0	0	0	31,298	31,298

<sup>1/</sup> E indicates that the main limitation is erosion, W that water in the soil interferes with plant growth, S that the soil is shallow, droughty, or stony, and C that the main limitation is climate, too cold or too dry.

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

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

Use	Acres
<u>Inventory Acreage</u>	
Cropland.....	285,000
Pasture.....	86,400
Range.....	185,384
Forest and woodland.....	1,124,589
Other land.....	59,134
Total inventory acres.....	1,740,507
Percent of total land area in inventory.	45.5%
<u>Non-Inventory Acreage</u>	
Federal land.....	2,060,903
Urban and built-up areas.....	13,324
Water areas.....	7,346
Total non-inventory acres.....	2,081,573
Total land area.....	3,822,080

271,784  
-615,918  
20  
14  
049

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

Tot Private -	1,707,862	Non-Forest	795,000
Tot Public -	2,114,858		
Fed -	2,058,747		
State -	47,486		
Local	13,352		

Table 7. Conservation Treatment Needs, Klamath County, 1967

Classification	Acreage
ALL CROPLAND IN TILLAGE ROTATION <u>1/</u> .....	285,000
Cropland needing treatment.....	206,356
Type of treatment needed:	
Residue cover.....	6,474
Sod in rotation.....	10,017
Drainage.....	3,473
Management.....	24,927
Other <u>2/</u> .....	161,465
ALL PASTURE AND RANGE.....	271,784
Pasture and range needing treatment....	181,330
Type of treatment needed:	
Establishment of vegetation.....	12,544
Improvement of vegetation.....	168,786
FOREST AND WOODLAND.....	1,124,589
Forest and woodland needing treatment..	922,589
Description of problems:	
Establishment of timber stand.....	350,794
Improvement of timber stand.....	571,795
OTHER LAND.....	59,134
Other land needing treatment.....	10,000

1/ Figures for all cropland not available.

2/ Includes improved irrigation systems and water management.

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

#### Land Ownership and Land Use

Approximately 55 percent of Klamath County's land is publicly owned. Almost 54 percent is owned by the federal government. Most of this federal land is managed by the U.S. Forest Service, although substantial acreages are administered by the Bureau of Land Management and the U.S. Fish and Wildlife Service.

The state owns about 3 percent of Klamath County. The State Department of Forestry, the Division of State Lands, and the State Game Commission manage most of this state land.

Over 70 percent of the county's land is used for forests. Grazing, with 15 percent, and intensive agriculture, at 7 percent, are next in importance of land use.

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

Item	Klamath County		State
	Acres	Percent	Percent
Total land area.....	3,822,720	100.00	100.00
<u>Land Use</u>			
{ Urban.....	13,380 ✓	0.35	0.49
{ Industrial.....	--	--	0.16
{ Military.....	--	--	0.10
Intensive agriculture.....	280,588	7.34	6.52
Dryland farming.....	--	--	3.33
{ Forests.....	2,690,813	70.39	44.84
{ Parks.....	140,676	3.68	0.32
{ Conservation.....	81,042	2.12	2.25
Grazing.....	591,757	15.48	41.50
Non-productive land.....	24,465	0.64	0.49
<u>Land Ownership</u>			
Total private land ownership.....	1,707,862	44.7 ✓	44.2
Total public land ownership.....	2,114,858	55.3	55.8
Federal.....	2,053,747	53.7	51.8
State.....	47,486	1.2	2.9
Local.....	13,352	0.3	1.1

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

Table 9. Land Area in Highways, Streets, and Roads, Klamath County

Ownership	Klamath County	
	Acres	Percent
State highways.....	5,080	36.4
County roads.....	8,060	57.8
City streets.....	840	6.0
Total.....	13,940	100.0

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

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

Agency	Acres	Land Value	Improvement Value	Total Value	Annual Rental Income
Employment Division.	0.30	\$ 13,000	\$ 88,700	\$ 101,700	\$ --
Dept. of Forestry...	27,778.00	2,260,000	830	2,260,880	--
Game Commission.....	3,071.27	309,107	443,540	752,647	--
Oregon Technical Institute.....	162.31	37,100	9,375,230	9,412,330	690
Div. of State Lands.	10,234.37	856,569	--	856,569	--
Military Dept.....	2.74	35,000	267,570	302,570	--
Aeronautics Div.....	74.60	1,492	--	1,492	--
Highway Division					
Parks.....	448.60	51,399	329,365	380,764	300
Office & Maintenance.....	19.42	36,358	348,773	385,131	540
Totals.....	41,791.48	\$3,600,025	\$10,854,058	\$14,454,083	\$3,213

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

Agricultural Land

In 1969, there were nearly 725,000 acres in farms in Klamath County, but only 136,000 acres or less than 20 percent of the farm land was harvested cropland. Most of the remaining land was rangeland or woodland. About 27 percent of the county's farm land was under irrigation in 1969.

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

Item	1964		1969	
	Acres	Percent	Acres	Percent
Total land area.....	3,820,850	100.0	3,821,056	100.0
Proportion in farms.....		28.5		19.0
Acres in farms.....	1,091,950	100.0	724,809	100.0
Cropland harvested.....	167,735	15.4	136,440	18.8
Cropland pasture.....	81,794	7.5	85,865	11.8
Other cropland.....	26,017	2.4	21,865	3.0
Woodland including woodland pasture.....	281,197	25.8	184,273	25.4
Other land.....	535,176	49.0	296,366	40.9
Irrigated land.....	255,505	23.4	199,091	27.5

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

Nearly 80 percent of Klamath County is forest land. Forest lands in the county are used for producing timber crops, outdoor recreation, grazing, and wildlife habitat. They also serve as a watershed for the county.

The U.S. Forest Service classifies commercial forest land as 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 1965, the U.S. Forest Service estimated that there were 2,601,000 acres of commercial forest in Klamath County. The remaining forest land was considered unproductive because it was incapable of producing industrial crops of wood or was withdrawn from commercial timber use through statute or administrative regulations.

Over half the commercial forest land in the county is national forest. Another 27 percent is private forest industry.

Table 12. Forest Acreage, Ownership and Use, Klamath County, 1965

Item	Acres	Percent
<b>LAND</b>		
Total land.....	3,822,000	100.0
Forest land.....	3,027,000	79.2
Commercial.....	2,601,000	68.1
Unproductive.....	257,000	6.7
Productive-reserved.....	169,000	4.4
Nonforest land.....	795,000 -	20.8
<b>OWNERSHIP</b>		
All ownerships.....	2,601,000	100.0
National forest.....	1,454,000 ✓	55.9
Other public.....	116,000	4.5
Forest industry.....	701,000	26.9
Farmer and miscellaneous private.	330,000	12.7

SOURCE: U.S. Forest Service, Forest Statistics for Central Oregon, Resource Bulletin PNW-24, Pacific Northwest Experiment Station, 1968.



Table 13. Volume of All Growing Stock and Sawtimber by Ownership, Klamath County, 1965

Ownership	Total Commercial Growing Stock		Total Commercial Sawtimber	
	million cubic ft.	percent	million board ft. <sup>1/</sup>	percent
OWNERSHIP				
National forest.....	3,647	67.6	14,330	68.8
Other public.....	261	4.8	1,032	5.0
Forest industry.....	1,130	20.9	4,200	20.2
Farmer and misc. private.....	359	6.7	1,259	6.0
Total.....	5,397	100.0	20,821	100.0

<sup>1/</sup> Scribner log rule.

SOURCE: U.S. Forest Service, Forest Statistics for Central Oregon, Resource Bulletin PNW-24, Pacific Northwest Experiment Station, 1968.

Table 14. Volume of All Growing Stock and Sawtimber on Commercial Forest Land by Species, Klamath County, 1965

Species	Growing Stock		Sawtimber	
	million cubic ft.	percent	million board ft. <sup>1/</sup>	percent
All species.....	5,397	100.0	20,821	100.0
Softwoods.....	5,396	99.9	20,821	100.0
Ponderosa pine.....	1,850	34.6	8,891	42.7
Douglas fir.....	372	6.9	1,995	9.6
Sugar pine.....	66	1.2	308	1.5
Western white pine...	70	1.3	344	1.6
Lodgepole pine.....	1,307	24.2	2,377	11.4
Whitebark pine.....	4	0.1	11	0.1
White fir.....	703	13.0	2,826	13.6
California-Shasta red fir.....	430	8.0	1,832	8.8
Grand fir.....	6	0.1	28	0.1
Pacific silver fir...	14	0.2	56	0.3
Noble fir.....	27	0.5	110	0.5
Subalpine fir.....	37	0.7	137	0.6
Engelman spruce.....	27	0.5	123	0.6
Mountain hemlock.....	421	7.8	1,568	7.5
Western hemlock.....	6	0.1	17	0.1
Incense cedar.....	56	1.0	198	1.0
Western red cedar....	--	--	--	--
Western larch.....	--	--	--	--
Hardwoods.....	1	<sup>2/</sup>	--	--

<sup>1/</sup> Scribner log rule.

<sup>2/</sup> Less than 0.05 percent.

SOURCE: U.S. Forest Service, Forest Statistics for Central Oregon, Resource Bulletin PNW-24, Pacific Northwest Experiment Station, 1968.

## Water

Several large rivers form the drainage system for Klamath County.

The Sprague River flows westerly until it empties into the Williamson River near Chiloquin. The Williamson River flows northward for some distance before entering Klamath Marsh. From Klamath Marsh it flows southerly into Upper Klamath Lake.

The Lost River originates at the outlet of Clear Lake in California. It then flows northward into Klamath County. At Olene Gap about 10 miles east of Klamath Falls the river turns southeast to return to California.

As the Klamath River leaves Lake Ewauna just south of Klamath Falls, it flows southwestward. Near Keno the stream narrows and enters a precipitous gorge from which it enters John C. Boyle Reservoir. It then flows southward into California.

The major drainage subbasins in the Klamath County area and their approximate sizes are: Williamson River, 1,000,000 acres; Sprague River, 1,013,000 acres; Wood River, 210,000 acres; Upper Klamath Lake, 256,000 acres; Swan Lake, 85,000 acres; Lost River, 755,000 acres, and Klamath River, 364,000 acres.

Table 15. Annual Yield of Representative Streams, Klamath County

Stream and Gaging Point	Drainage Area sq. miles	Years of Record	Mean Annual Yield <sup>1/</sup>	
			acre-feet <sup>2/</sup>	acre-feet/ sq. mile
Williamson R. near Klamath Agency.....	1,200	14	160,000	133
Sprague R. near Beatty.....	513	18	218,600	426
Sprague R. near Chiloquin..	1,580	47	401,800	254
Link R. at Klamath Falls...	3,810	64	1,153,000	303
Klamath R. at Keno.....	3,920	48	1,205,000	307
Odell Cr. near Crescent....	39	35	58,280	1,494
Crescent Cr. near Crescent.	60.7	42	41,270	676
Williamson R. near Chiloquin.....	3,000	51	732,700	244

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

<sup>2/</sup> Acre-feet equals the quantity of water (43,650 cu. ft.) that covers one acre to a depth of one foot.

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

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

Stream and Location	Maximum Discharge		Minimum Discharge	
	Year	Flow (cfs) <sup>1/</sup>	Year	Flow (cfs) <sup>1/</sup>
Williamson R. near Klamath Agency.....	1910	1,590	No flow at times	
Sprague R. near Beatty.....	1964	6,980	1924	57
Sprague R. near Chiloquin.....	1964	14,900	1926	50
Williamson R. near Chiloquin..	1964	16,100	1920	320
Link R. at Klamath Falls.....	1904	9,400	1937	17
Klamath R. at Keno.....	1965	8,480	1960	60
Odell Cr. near Crescent.....	1964	1,100	1934	9
Crescent Cr. at Crescent Lake.	1929	313	No flow at times	

<sup>1/</sup> cfs - cubic feet per second.

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

Table 17. Klamath County Community Water Supplies, 1971

City	Population Served, 1971	Water Source	Treatment
Beatty.....	85	wells	none
Bly.....	400	well	clorox
Bonanza.....	230	wells	none
Chemult.....	180	wells	chlorine
Chiloquin.....	826	well	none
Dorris.....	1,000	2 wells	chlorine
Fort Klamath.....	220	wells	none
Keno.....	200	wells	none
Klamath Falls and Altumeant.....	15,775	8 wells	chlorine (2 wells)
Macdoel.....	125	well	none
Malin.....	486	2 wells	none
Merrill.....	722	2 wells	none
Sprague River.....	100	well	none
Tule Lake.....	1,600	2 wells	none

SOURCE: Oregon State Water Resources Board, Klamath Basin, 1971.

Table 18. Sewage Treatment Plants, Klamath County, 1973

Location	Year Built	Type <sup>1/</sup>	Design Population	Design Flow MGD <sup>2/</sup>	Population Served	Receiving Stream
Bonanza School.....	1966	AD	120	0.011	120	Lost River
Chiloquin.....	1947, 1959	TF	800	0.08	830	Williamson R.
Henley High School.	1964	AD	160	0.016	270	Lost River
Klamath Falls.....	1959, 1970	AS	30,000	6.00	16,000	Lake Ewauna
Airport.....	1944, 1969	AS	5,000	0.5	3,500	Lost River
Malin.....	1937, 1970	L	1,400	0.14	800	Drainage ditch
Merrill.....	1937, 1948, 1970	AS	1,250	0.125	740	Lost River
South Suburban Sanitary District	1959, 1969	L	23,600	2.36	15,700	Lake Ewauna
Weyerhaeuser (Klamath Falls)..	1969	L	350	0.035	600	Klamath River

<sup>1/</sup> AD - aerobic digestion

AS - activated sludge

TF - trickling filter

L - lagoon

<sup>2/</sup> MGD - million gallons per day.

SOURCE: Oregon State Department of Environmental Quality, unpublished data, 1973. Note: this data will soon be available in published form.

### Minerals <sup>1/</sup>

Most of the income from mineral production is derived from stone, sand, and gravel, which are used for construction purposes.

Diatomite underlies much of the southern portion of the county but is generally too high in volcanic ash and other impurities to have commercial value at this time. Exploratory wells have found no commercial quantities of oil or gas in the county. Geothermal steam is a mineral resource with further potential development in the county.

<sup>1/</sup> Oregon State Water Resources Board, Klamath Basin, 1971.

Wildlife 1/

Big game in Klamath County includes mule and black-tailed deer, elk, pronghorn antelope, black bear, and cougar. A small herd of elk range in the southwest portion of the county during the summer and migrate west during the winters. Antelope also have summer ranges in the county.

Table 19. Big Game Animal Population Trends, Klamath County

Game Management Unit	Miles Traveled	Animals Observed	Animals Per Mile		
		1971	1971	1970	5 yr. average <sup>1/</sup>
Mule deer					
Sprague.....	21	206	9.8	--	20.1
Klamath.....	50	410	8.2	9.0	15.7
Fort Rock.....	27	163	6.0	9.3	16.7
Black-tailed deer					
Keno.....	39	690	17.7	16.9	19.7

<sup>1/</sup> 5 year average - 1966-1970.

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

Approximately 80 percent of the waterfowl in the Pacific Flyway spend some time feeding and resting in the county during spring and fall migrations. During November, waterfowl numbers often exceed 5 million in the county. Five national wildlife refuges, covering over 190 square miles, are maintained by the U.S. Bureau of Sport Fisheries and Wildlife.

Populations of the numerous species of fur-bearing animals in the county are concentrated along marshy areas.

Rainbow trout are the most important game fish in the county. Brook, brown, Dolly Varden trout also inhabit the county. Kokanee and Coho salmon have been introduced into high mountain lakes in the county. Warm-water fish including black crappie, largemouth bass, yellow perch, bluegill, and brown bullhead are confined to warm lower elevation streams, lakes, and rivers.

For additional information on wildlife in Klamath County, see the Outdoor Recreation under the Economy division of this publication.

<sup>1/</sup> Oregon State Water Resources Board, Klamath Basin, 1971.

HUMAN RESOURCES

Population

Klamath County's population was about 51,940 in 1972, or 8.7 persons per square mile. About 63 percent of the population lived in urban areas and 37 percent in rural areas of the county during 1970. Klamath Falls, the county seat and largest town in the county, had a 1972 population of 15,815.

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

Racial Group	Number of Persons
Total.....	50,021
Caucasian.....	46,390
Spanish Language.....	1,281
Black.....	469
American Indian.....	1,420
Other.....	461

SOURCE: Valde, Gary R. and Robert O. Coppedge, Income and Poverty Data for Racial Groups: A Compilation for Oregon Census County Divisions, Special Report 367, Oregon State University Extension Service, Corvallis, Oregon, 1972.

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

County	1960		1972	
	Rank	Population	Rank	Population
KLAMATH.....	10	47,475	11	51,940
Deschutes.....	18	23,100	16	33,800
Douglas.....	7	68,458	8	73,950
Jackson.....	6	73,962	6	100,100
Lake.....	29	7,158	31	67,040
Lane.....	2	162,890	2	227,200

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

Table 22. Land Area and Population Density, Klamath and Bordering Counties, 1950, 1960, and 1970

County and State	Land Area	Population Density		
		1950	1960	1970
	- square miles -	- persons per sq. mile -		
State of Oregon.....	96,248	15.8	18.4	21.7
KLAMATH.....	5,970	7.1	7.9	8.4
Deschutes.....	3,031	7.2	7.6	10.0
Douglas.....	5,063	10.8	13.5	14.2
Jackson.....	1,793	20.8	26.3	33.6
Lake.....	8,231	0.8	0.9	0.8
Lane.....	4,552	27.5	35.7	47.3

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

Klamath County's population has continued to grow since 1910. The rate of growth, however, has varied widely. In recent years the population has been expanding at about 1.5 to 2 percent per year inspite of a net migration out of the county.

Table 23. Population Growth, Klamath County

Year	Population	Percent Increase	
		Period	Percent
1910.....	8,554		
1920.....	11,413	1910-1920	33.4
1930.....	32,407	1920-1930	183.9
1940.....	40,497	1930-1940	25.0
1950.....	42,150	1940-1950	4.1
1960.....	47,475	1950-1960	12.6
1965.....	48,100	1960-1965	1.3
1970.....	50,021	1965-1970	4.0
1972.....	51,940	1970-1972	3.8

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

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 editions.

Table 24. Components of Change in Klamath County's Population, 1940-1970

Year	Net Change	Natural Increase	Net Migration
1940-1950.....	1,653	6,980	-5,327
1950-1960.....	5,325	7,174	-1,849
1960-1970.....	2,546	5,896	-3,350

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

Oregon State Board of Census, Components of Population Growth, Population Bulletin P-3, 1961.

Table 25. Urban and Rural Population, Klamath County, 1950, 1960, 1970 <sup>1/</sup>

Year	Urban		Rural	
	Population	Percent Change	Population	Percent Change
1950.....	25,294		16,856	
1960.....	27,760	9.7	19,715	17.0
1970.....	31,521	5.4	18,500	-6.2

<sup>1/</sup> The urban population comprises all persons living in urbanized areas and in places of 2,500 inhabitants or more outside urbanized areas. The population not classified as urban constitutes the rural population.

SOURCE: U.S. Bureau of the Census, Census of Population: 1960 and 1970 Number of Inhabitants, Final Report PC(1) - A39, Oregon, U.S. Government Printing Office, Washington, D.C., 1961, 1971.

Table 26. Population Estimates of Incorporated Cities, Klamath County, 1960, 1965, 1971, and 1972

City and County	1960	1965	1971	1972
Klamath County.....	47,475	48,100	50,500	51,940
Bonanza.....	297	287	225	230
Chiloquin.....	945	910	830	830
Klamath Falls.....	16,949	17,600	15,800	15,815
Malin.....	568	560	510	515
Merrill.....	804	848	740	745
Incorporated areas.....	19,563	20,205	18,105	18,135
Unincorporated areas.....	27,912	27,895	32,395	33,805

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



In 1970, about 37 percent of Klamath County's population was 18 years or under while over 8 percent was 65 years old or over. The median age for the county decreased slightly from 28.2 in 1960 to 28.0 in 1970.

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

Age Group	Male		Female		Total		Percent	
	1960	1970	1960	1970	1960	1970	1960	1970
Total population.	24,788	25,627	22,687	24,394	47,475	50,021	100.0	100.0
Under 5....	2,796	2,193	2,641	2,081	5,437	4,274	11.5	8.5
5-9....	2,543	2,582	2,512	2,456	5,055	5,038	10.6	10.1
10-14....	2,441	2,649	2,262	2,477	4,703	5,126	9.9	10.2
15-19....	1,882	2,344	1,695	2,222	3,577	4,566	7.5	9.1
20-24....	1,670	2,161	1,404	1,883	3,074	4,044	6.5	8.1
25-34....	3,056	3,129	2,932	3,064	5,988	6,193	12.6	12.4
35-44....	3,287	2,922	3,215	2,817	6,502	5,739	13.7	11.5
45-54....	3,151	3,033	2,766	2,904	5,917	5,937	12.5	11.9
55-64....	2,235	2,569	1,722	2,346	3,957	4,914	8.3	9.8
65 and over....	1,727	2,045	1,538	2,144	3,265	4,189	6.9	8.4
Median age.....	28.5	27.6	27.9	28.4	28.2	28.0		

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

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

Age Group	Klamath Falls	
	1960	1970
Under 5.....	NA*	1,363
5-14.....	"	2,536
15-24.....	"	3,209
25-34.....	"	1,780
35-44.....	"	1,442
45-54.....	"	1,864
55-64.....	"	1,762
65 and over.....	"	1,819
Total population.....	16,949	15,775
Male.....	NA	7,911
Female.....	NA	7,864

\*NA - not available.

SOURCE: 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.

Employment

The Oregon State Department of Employment reported that the 1971 annual average civilian labor force in Klamath County was 20,950 or 41 percent of the total population. At that time, the unemployment rate was 6.4 or about 1,350 persons unemployed.

The 1970 Census of Population shows that 17,460 people 16 years or older were employed in the county out of a total labor force of 20,146. These figures are based on a survey taken during March 1970. About 21 percent were employed in manufacturing with lumber and wood products contributing 18 percent alone. Other important industrial employers were: retail trade, 19 percent; agriculture and forestry, 9.7 percent; educational services, 8.6 percent; transportation, 6.2 percent; public administration, 5.8 percent; and construction, 5.3 percent.

Table 29. Employment Status, Klamath County and Klamath Falls, 1960 and 1970

Subject	Klamath County		Klamath Falls	
	1960	1970 <sup>1/</sup>	1960	1970 <sup>1/</sup>
Total males, 14 years and over.....	17,395	17,620	6,316	5,810
Total labor force.....	14,093	13,678	5,051	4,161
Armed forces.....	1,343	1,385	305	320
Civilian labor force.....	12,789	12,293	4,746	3,841
Employed.....	11,908	11,579	4,466	3,603
Unemployed.....	881	714	280	238
Not in labor force.....	3,302	3,942	1,265	1,649
Inmate of institution.....	104	108	71	54
Enrolled in school.....	1,471	1,410	423	681
Other.....	1,727	2,424	771	914
Total females, 14 years and over...	15,648	16,925	6,126	5,851
Total labor force.....	5,513	6,468	2,407	2,383
Employed.....	5,083	5,881	2,245	2,142
Unemployed.....	426	571	162	231
Not in labor force.....	10,135	10,457	3,719	3,468
Inmate of institution.....	50	95	18	51
Enrolled in school.....	1,257	1,086	459	401
Other.....	8,828	9,276	3,242	2,216
Married (husbands present), in labor force.....	3,912	4,443	1,555	1,447

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

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

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

Industry	Number Employed	
	1960	1970
Agriculture.....	1,743	} 1,692 ✓
Forestry and fisheries.....	79	
Mining.....	8	
Construction.....	942	924 ✓
Manufacturing.....	3,881	3,671
Lumber and wood products.....	2,930	3,089 ✓
Food and kindred products.....	253	173 ✓
Other.....	698	409 ✓
Transportation.....	1,203	1,091 ✓
Communications.....	190	225 ✓
Wholesale trade.....	595	685 ✓
Retail trade.....	2,938	3,365 ✓
Business and repair services.....	845	846 ✓
Personal services.....	1,102	727 ✓
Hospitals.....	228	877 1/ ✓
Educational services.....	1,115	1,498 ✓
Professional and related services.....	549	386 ✓
Public administration.....	773	1,016 ✓
Utilities and sanitary services.....	275	293 ✓

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

1/ Includes other health services.

Table 31. Percent of Age Group in Labor Force, Klamath County and Klamath Falls, 1970

Age Group	Klamath County		Klamath Falls	
	Male	Female	Male	Female
Years				
14-15.....	13.0	8.2	25.5	16.1
16-17.....	28.0	21.7	37.1	32.0
18-19.....	50.0	38.6	53.5	68.3
20-21.....	77.1	48.7	83.9	55.8
22-24.....	88.2	45.0	90.0	59.3
25-34.....	94.1	39.1	96.7	47.8
35-44.....	97.3	45.0	95.4	62.4
45-64.....	87.9	44.5	91.0	59.7
65 and over.....	23.8	12.3	19.8	11.6

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

Table 32. Klamath County Occupations, 1970

Occupation	Number Employed		
	Male	Female	Total
Total employed, 16 years and over..	11,579	5,881	17,460
Professional, technical, and kindred workers.....	1,024	855	1,879
Engineers.....	NA*	NA	90
Physicians and related practitioners.....	NA	NA	105
Other health workers.....	NA	NA	177
Teachers.....	247	442	689
Technicians, except health....	94	13	107
Other professional workers.....	493	218	711
Managers and administrators.....	1,347	357	1,704
Sales workers.....	617	501	1,118
Clerical and kindred workers.....	576	1,691	2,267
Craftsmen and kindred workers....	2,629	95	2,724
Operative except transport.....	1,334	295	1,629
Transport.....	882	75	957
Laborers except farm.....	1,384	141	1,525
Farmers and farm managers.....	445	47	492
Farm laborers.....	625	138	763
Service workers.....	716	1,559	2,275
Cleaning service.....	258	225	483
Food service.....	173	803	976
Health service.....	5	296	301
Personal service.....	64	146	210
Protective service.....	183	---	183
Private household.....	---	127	127

\*NA - not available.

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.

The following table indicates the levels of employment on a single midmonth date and does not necessarily show either peak or average employment for the month.

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

Month	Local		Intrastate Migratory		Interstate Migratory	
	1965	1971	1965	1971	1965	1971
May.....	175	150	--	15	100	75
June.....	30	60	--	--	20	30
July.....	160	200	15	5	55	50
August.....	85	120	--	--	15	25
September.....	150	145	25	5	125	90
October.....	390	500	40	20	120	65

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

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

Industry	Number of Persons			
	1968	1969	1970	1971
Civilian labor force.....	19,930	20,220	20,520	20,950
Workers in labor management disputes....	0	0	0	0
Unemployment.....	930	960	1,280	1,350
Percent of labor force.....	4.7	4.7	6.2	6.4
Employment.....	19,000	19,260	19,230	19,600
Agricultural.....	1,720	1,650	1,640	1,620
Nonagricultural.....	17,280	17,610	17,600	17,980
Self-employed, unpaid family and domestics.....	2,440	2,370	2,360	2,400
Wage and salary workers.....	14,840	15,240	15,240	15,580
Manufacturing.....	3,820	3,900	3,870	4,140
Lumber and wood.....	3,440	3,490	3,460	3,720
Food products.....	170	160	150	150
Other.....	210	250	260	270
Nonmanufacturing.....	11,020	11,340	11,370	11,440
Contract construction.....	400	470	470	530
Transportation, communication, utilities.....	1,530	1,500	1,460	1,470
Wholesale and retail trade.....	3,230	3,320	3,290	3,290
Finance, insurance and real estate....	570	610	610	600
Service and miscellaneous.....	2,080	2,230	2,260	2,200
Government.....	3,210	3,210	3,280	3,350

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

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

Occupation Group	1959	1969
Male, total with earnings.....	\$4,955	\$7,516
Professional, managerial, and kindred workers.....	6,608	9,995
Farmers and farm managers.....	4,077	6,040
Craftsmen, foremen, and kindred workers....	5,476	8,026
Operatives and kindred workers.....	4,833	7,448
Farm laborers.....	2,559	4,137
Laborers, excluding farm and mine.....	4,153	5,771
Female, total with earnings.....	\$1,884	\$2,935
Clerical and kindred workers.....	2,388	3,983
Operatives and kindred workers.....	1,675	2,106

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

Table 36. Covered Payrolls and Employment by Industry, Klamath County, 1970 and 1971

Industry	Average Employment		Annual Payroll
	1970	1971	1971
Agriculture, forestry, and fisheries.....	120	132	\$ 610,906
Mining.....	38	<u>1/</u>	<u>1/</u>
Contract construction.....	470	532	5,239,241
Lumber and wood products manufacturing.....	3,435	3,675	34,318,106
Food and kindred products manufacturing.....	154	149	1,207,258
Other manufacturing.....	256	275	2,193,700
Transportation, communication, gas, electric, and sanitary services..	682	715	6,169,154
Wholesale and retail trade.....	3,112	3,232	16,906,346
Finance, insurance and real estate.	395	383	2,265,941
Services and miscellaneous.....	1,556	1,503	6,580,674
Government.....	1,303	1,254	10,638,848
Yearly total.....	11,488	11,854	\$86,142,790

1/ Not published.

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

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

County	Number of People		Percent of Labor Force	
	1968	1971	1968	1971
KLAMATH.....	930	1,350	4.7	6.4
Deschutes.....	620	890	5.4	6.3
Douglas.....	1,700	2,160	6.1	7.3
Jackson.....	2,350	3,270	6.3	7.6
Lake.....	210	210	7.0	7.0
Lane.....	4,250	6,600	5.1	7.2

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

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

Occupation Group	Number of Persons	
	1960	1970
Professional, technical, and kindred workers.	42	117 <sup>1/</sup>
Farmers and farm managers.....	--	NA*
Managers, officials and proprietors, excluding farm.....	28	NA
Clerical and kindred workers.....	142	102
Sales workers.....	39	84
Craftsmen, foremen, and kindred workers.....	224	208
Operatives and kindred workers.....	248	204
Service workers, including private household.....	216	158
Farm laborers.....	59	85
Laborers, excluding farm and mine.....	207	166

\*NA - not available.

<sup>1/</sup> Includes managerial workers.

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

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

Item	Employees and Earnings
Employees.....	1,660
Full-time only.....	1,468
Full-time equivalent employment.....	1,520
Education.....	969
Teachers only.....	619
Functions other than education.....	551
Highways.....	102
Public welfare.....	50
Hospitals.....	--
Health.....	22
Police protection.....	58
Fire protection.....	56
Sewerage.....	11
Sanitation other than sewerage.....	5
Parks and recreation.....	12
Natural resources.....	57
Housing and urban renewal.....	--
Correction.....	24
Libraries.....	28
Financial administration.....	32
General control.....	55
Water supply.....	1
Other local utilities.....	--
Other and unallocable.....	38
October payroll.....	\$730,000
Education.....	496,000
Teachers only.....	387,000
Functions other than education.....	234,000
Average monthly earnings, full-time	
employment	
Teachers.....	\$626
Others.....	381

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



Income

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

Area	Net Dollars		Per Household	
	1967	1970	1967	1970
	- thousand dollars -		- dollars -	
State of Oregon.....	\$5,224,888	\$6,650,690	\$8,113	\$9,440
Klamath County.....	117,330	144,887	7,719	8,781
Klamath Falls.....	47,127	51,540	7,480	8,736

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

Table 41. Bank Debits and Deposits, Klamath County, 1965-1970

Year	Bank Debits <u>1/</u>	Bank Deposits
	- - - thousand dollars - - -	
1965.....	464,108	56,781
1966.....	494,799	59,054
1967.....	537,550	67,132
1968.....	590,149	70,186
1969.....	646,059	75,959
1970.....	683,872	78,044

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

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

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

Item	Number	Percent
<u>Mean Income</u>		
<u>Families:</u>		
All races.....	\$9,622	<u>1/</u>
Caucasian.....	9,746	
Spanish Language.....	8,946	
Black.....	6,002	
Other.....	6,776	
<u>Unrelated individuals:</u>		
All races.....	3,669	
Caucasian.....	3,775	
Spanish Language.....	3,641	
Black.....	1,879	
Other.....	1,637	
<u>Families by Family Income Class</u>		
<u>All races:</u>		
under \$3,999.....	1,987	14.96
\$4,000-\$5,999.....	1,683	12.67
\$6,000-\$11,999.....	6,205	46.72
\$12,000+.....	3,407	25.65
total.....	13,282	100.00
<u>Caucasian:</u>		
under \$3,999.....	1,807	14.40
\$4,000-\$5,999.....	1,591	12.68
\$6,000-\$11,999.....	5,849	46.61
\$12,000+.....	3,301	26.31
total.....	12,548	100.00
<u>Spanish Language:</u>		
under \$3,999.....	50	17.67
\$4,000-\$5,999.....	14	4.95
\$6,000-\$11,999.....	161	56.89
\$12,000+.....	58	20.49
total.....	283	100.00
<u>Black:</u>		
under \$3,999.....	31	26.95
\$4,000-\$5,999.....	25	21.74
\$6,000-\$11,999.....	53	46.09
\$12,000+.....	6	5.22
total.....	115	100.00
<u>Other:</u>		
under \$3,999.....	99	29.47
\$4,000-\$5,999.....	53	15.77
\$6,000-\$11,999.....	142	42.26
\$12,000+.....	42	12.50
total.....	336	100.00

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

Item	Number	Percent
<u>Income Below Poverty Level (bpl)</u>		
Families bpl		
All races.....	1,328	100.00
Caucasian.....	1,167	87.88
Spanish Language.....	31	2.33
Black.....	28	2.11
Other.....	102	7.68
Persons in families bpl.....	4,584	
Unrelated individuals bpl		
Under 65.....	810	
65 and over.....	663	
Male family head, 14-64 yrs, bpl		
Employed.....	461	
Unemployed.....	79	
Not in labor force.....	159	
Female family heads bpl in labor force with children below 6 yrs..		
	106	
Income source of families and unrelated individuals bpl		
Earnings.....	1,394	
Social security or railroad retirement.....	997	
Public assistance or welfare.....	352	

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

SOURCE: Valde, Gary R. and Robert O. Coppedge, Income and Poverty Data for Racial Groups: A Compilation for Oregon Census County Divisions, Special Report 367, Oregon State University, Corvallis, Oregon, 1972.

Education

Table 43. Formal Education Facilities, Klamath County, 1968-69 and 1971

School District, Type School, and Number of Each Type	Enrollment <sup>1/</sup>		High School Graduates, 1971
	1968-69	1971	
Klamath Falls School District #1			
Elementary - 8.....	2,031	1,825	---
Junior high - 1.....	269	593	---
Klamath County School District #600			
Elementary - 16.....	4,507	4,754	---
Junior high - 2.....	820	849	---
High school - 6.....	1,400	1,511	266
Klamath Falls Union High #702			
High school - 1.....	2,140	2,219	471
County totals			
Elementary - 24.....	6,538	6,579	---
Junior high - 3.....	1,089	1,442	---
High school - 7.....	3,540	3,740	737
County grand total - 34.....	11,167	11,761	737

1/ Average daily membership. Enrollments may vary from year to year partially because student loads were shifted from one district to another.

SOURCE: Oregon Board of Higher Education, Summary of Pupil Personnel for the Fiscal Year Ending June 30, 1969, 1971-72 Oregon School-Community College Directory, and 1971 Oregon Public High School Graduates, School Finance and Statistical Services.

Table 44. Racial and Ethnic Distribution of Public School Enrollment in Klamath County by School District, 1972

District	White	Black	American Indian	Spanish Surname	Other <sup>1/</sup>	Total
	----- number of students -----					
Klamath County						
District #600.....	6,324	47	424	111	89	6,995
Klamath Falls #1....	1,983	32	70	72	17	2,174
Klamath UHS #702....	2,169	27	38	34	14	2,282
Total.....	10,476	106	532	217	120	11,451

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

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

Table 45. Years of School Completed by Population 25 Years and Over,  
Klamath County, 1970

Education	Number Males	Number Females	Total	Percent
Total 25 years and over.....	13,696	13,249	26,945	100.0
No school years completed...	115	89	204	0.7
Elementary: 1-4 years.....	396	171	567	2.1
5-7 years.....	892	583	1,475	5.5
8 years.....	1,923	1,411	3,334	12.4
High school: 1-3 years.....	2,357	2,928	5,285	19.6
4 years.....	4,667	5,244	9,911	36.8
College: 1-3 years.....	1,935	1,807	3,742	13.9
4 yrs. or more.	1,411	1,016	2,427	9.0
Median school years completed.	12.2	12.3	--	

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

Table 46. Klamath County Residents Enrolled in Oregon Higher Education  
Institutions, Fall 1971

Institution	Number Enrolled
Total enrolled.....	1,422
Eastern Oregon College.....	12
Oregon College of Education.....	42
Oregon State University.....	248
Portland State University.....	17
Southern Oregon College.....	291
University of Oregon.....	159
Oregon Technical Institute.....	514
University of Oregon Dental School....	4
University of Oregon Medical School....	10
Total in private and independent institutions.....	51
Total in public community institutions.	74

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

Oregon Technical Institute was established near Klamath Falls in 1947. A new campus was constructed in 1964. The school can grant baccalaureate degrees in addition to two and three year programs. Total enrollment for the fall of 1971 was 1,598.

Table 47. Youth Organizations, Klamath County

Organization	Membership
Boy Scouts.....	1,112
Camp Fire Girls.....	1,600 <u>1/</u>
4-H.....	1,121
Future Farmers.....	27
Girl Scouts.....	371
YMCA.....	1,550
YWCA.....	<u>2/</u>

1/ Estimates of those only in Klamath County portion of council.

2/ No chapter in county.

SOURCE: Boy Scouts of America, Klamath Falls office, unpublished data, December 1972 figures; Camp Fire Girls, Klamath Falls office, unpublished data, June 1973 figures; Oregon State Extension Office, 4-H Division, unpublished data, 1972 figures; Oregon State Department of Education, unpublished data, 1972 FFA figures; Girl Scouts of America, Medford Girl Scout office, unpublished data, July 1973 figures; Klamath Falls YMCA, unpublished data, July 1973 figures.

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

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

Subject	Number
Commitments to felony and correctional institutions, 1967-68	
Total commitments.....	44
Oregon State Penitentiary.....	27
Oregon State Correctional Institution....	1
MacLaren (boys' training school) <u>1/</u> .....	15
Hillcrest (girls' training school) <u>1/</u> ....	1
Juvenile court cases, 1968	
All cases.....	1,153
Delinquency.....	1,084
Traffic.....	7
Other.....	62

1/ 1968 figures from Oregon State Department of Human Resources, Children Services Division, Adolescent Population and Commitment Data by County, by Calendar Year 1967-1970.

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

Health and Vital Statistics

The following tables indicate the number of health facilities and health personnel available to Klamath County residents. There are fewer health personnel per capita in Klamath County than for the state as a whole. However, the rates of recorded illnesses in the county are lower than the overall state average.

During the 1969 fiscal year, Klamath County allocated a total of \$221,944 to its county health department or \$4.46 per capita. This compares with \$5.70 spent per capita on the average by all counties in the state. 1/

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

Category and Community	Number of Facilities		Number of Beds	
	Existing	Needed	Existing	Needed
<u>General hospitals</u>				
Klamath Falls.....	1	1	137	140
<u>Long-term care facilities</u>				
Klamath Falls.....	3	3	250	226
<u>Diagnostic and treatment centers</u>				
Klamath Falls.....	1	1	---	---
<u>Rehabilitation facilities</u>				
Klamath Falls.....	0	1	---	---

1/ Mental facilities: the state plan of the Mental Health Division is made a part of this plan by reference.

Tuberculosis hospitals: none.

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 50. Diagnostic or Treatment Center Facilities, Klamath County, 1970<sup>1/</sup>

Name	Location	Outpatient Visits During Year
Presbyterian Intercommunity Hospital....	Klamath Falls	18,530

1/ A diagnostic and treatment center takes outpatients, has facilities for examination of patients by a physician or dentist, or has x-ray and clinical laboratory service available.

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.

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

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

Name of Facility	Location	Total Capacity	Percent of Occupancy
<u>General hospitals</u>			
Presbyterian Intercommunity Hospital.....	Klamath Falls	137	70
<u>Long-term care facilities</u>			
<u>Nursing homes</u>			
Klamath County Nursing Home.....	Klamath Falls	41	122 <sup>1/</sup>
Ponderosa Convalescent and Nursing Home.....	Klamath Falls	95	80
Washburn Manor.....	Klamath Falls	114	60
<u>Tuberculosis hospitals</u>			
None			

<sup>1/</sup> Licensed capacity exceeds evaluation capacity, resulting in a high percentage of occupancy.

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, Klamath County, 1969

Profession	Klamath County		State
	Number	Ratio <sup>1/</sup>	Ratio <sup>1/</sup>
Medical doctors and doctors of osteopathy.	49	1,016	770
Dentists.....	29	1,716	1,470
Registered nurses.....	128	389	276
Licensed practical nurses.....	38	1,309	1,002
Pharmacists.....	26	1,914	1,375

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

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



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

Facility	Klamath County		State
	Number	Ratio	Ratio
Psychiatric hospitals.....	60	121	134
Mental health clinics.....	217	384	460

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

From 1968 to 1971 Klamath County's birth rate rose while its death rate fell. The county's birth rate is 36 percent above the state's and its death rate is 17 percent below the state's.

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

Category	Klamath County				State
	Number		Rate		Rate
	1968	1971	1968	1971	1971
All births <u>1/</u> .....	881	1,073	17.9	21.2	15.6
All deaths <u>1/</u> .....	427	393	8.7	7.8	9.4
Illegitimate births <u>2/</u> .....	54	85	61.3	79.2	78.1
Premature births <u>2/</u> .....	78	78	88.5	72.7	57.4
Infant deaths <u>2/</u> .....	21	23	23.8	21.4	18.4
Accidental deaths <u>3/</u> .....	41	33	83.5	65.3	61.3

1/ Rates per 1,000 population.

2/ Rates per 1,000 live births.

3/ Rate per 100,000 population.

SOURCE: Oregon State Department of Human Resources, Oregon State Health Division, Vital Statistics Annual Report, Vital Statistics Section, 1971, and 1968 Statistics Report, 1969.

Table 55. Health Statistics, Klamath County, 1971

Item	Klamath County		State
	Number	Rate <sup>1/</sup>	Rate <sup>1/</sup>
<b>Morbidity</b>			
Tuberculosis.....	3	5.9	11.6
Syphilis.....	1	2.0	5.3
Gonorrhea.....	136	269.3	422.0
Influenza.....	117	231.7	1,171.7
Hepatitis, infectious.....	22	45.4 <sup>2/</sup>	45.1 <sup>2/</sup>
Measles (Rubella).....	5	9.9	18.1
<b>Deaths from all causes.....</b>			
Malignant neoplasms (cancer).....	393	7.8 <sup>3/</sup>	9.4 <sup>3/</sup>
Diabetes mellitus.....	74	146.5	168.4
Heart diseases.....	6	11.9	13.3
Cerebrovascular diseases.....	138	273.3	349.6
Arteriosclerosis.....	35	69.3	110.9
Other cardiovascular diseases.....	3	5.9	21.2
Influenza and pneumonia.....	2	4.0	17.3
Bronchitis, emphysema, asthma.....	13	25.7	26.4
Peptic ulcer.....	12	23.8	26.9
Cirrhosis of liver.....	--	--	4.3
Congenital anomalies.....	4	7.9	15.8
Certain infancy mortality causes.....	6	11.9	8.2
	12	23.8	14.7
All other diseases.....	36	71.3	76.9
Accidents.....	33	65.3	61.3
Suicide.....	6	11.9	14.9
Homicides.....	10	19.8	3.8

<sup>1/</sup> Rate per 100,000 population.

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

<sup>3/</sup> Rate per 1,000 population.

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

Public Welfare

Table 56. Public Welfare Payments for Assistance, Klamath County,<sup>1/</sup>  
August 1972

Category	Number of Cases	Average Payments
<u>Cases receiving non-medical payments</u>		
Old Age Assistance.....	151	\$ 61.57
Aid to the Blind.....	18	72.61
Aid to the Disabled.....	159	79.92
Aid to Dependent Children <u>2/</u> .....	1,813	44.09
General Assistance.....	74	57.44
Foster Care.....	NA*	NA
<u>Physicians services 2/</u>		
OAA.....	43	\$ 23.87
AB.....	2	9.13
AD.....	70	40.32
ADC.....	403	23.51
GA.....	50	33.77
FC.....	51	14.81
<u>Hospital payments 2/</u>		
OAA.....	5	\$125.14
AB.....	0	--
AD.....	13	613.70
ADC.....	26	334.81
GA.....	11	590.69
FC.....	4	612.82
<u>Drug payments 2/</u>		
OAA.....	149	\$ 28.32
AB.....	11	22.38
AD.....	96	25.60
ADC.....	205	11.35
GA.....	32	21.55
FC.....	29	5.18

\*NA - not available.

<sup>1/</sup> Includes Lake County.

<sup>2/</sup> Persons, not cases.

SOURCE: Oregon State Department of Human Resources, Public Welfare Division,  
Public Welfare in Oregon, August 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 Payments by Type of Service, Klamath and Lake Counties, Fiscal Years 1968-69 and 1971-72 1/

Type of Service	Average Payment Per Case	
	1968-69	1971-72
Old Age Assistance.....	\$ 55.42	\$ 62.37
Aid to the Disabled.....	74.65	75.99
Aid to the Blind.....	74.61	75.48
General Assistance.....	57.28	59.47
Aid to Dependent Children <u>2/</u>		
UN <u>3/</u> .....	35.54	44.27
Basic <u>3/</u> .....	38.45	45.48

1/ Klamath and Lake Counties are compiled together.

2/ Payment per person, not case.

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

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

### Housing

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

Subject	Klamath Falls	
	Number	Percent
Occupancy		
All year-round housing units.....	6,307	100.0
Owner occupied.....	2,957	46.9
Renter occupied.....	2,893	45.9
Vacant year-round.....	294	4.7
Facilities		
Telephone available.....	NA*	--
Air conditioning.....	355	5.6
Median gross rent of renter occupied <u>1/</u> .	\$87	--

\*NA - not available.

1/ 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.

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

Subject	Klamath County		State
	Number Units	Percent	Percent
<b>Occupancy</b>			
All housing units.....	18,317	100.0	100.0
Vacant-seasonal or migratory...	373	2.0	1.3
Owner occupied.....	10,278	56.1	61.3
Renter occupied.....	6,029	32.9	31.5
Vacant year round.....	1,637	8.9	5.9
<b>Population in housing units per unit</b>			
Owner occupied.....	2.5	--	--
Renter occupied.....	2.5	--	--
<b>Persons per room</b>			
All occupied units.....	16,307	100.0	100.0
1.00 or less.....	15,064	92.4	94.7
1.01 to 1.50.....	979	6.0	4.2
1.51 or more.....	264	1.6	1.1
<b>Facilities</b>			
Lacking some or all plumbing facilities.....	961	5.2	3.6
Telephone available.....	13,902	85.3	89.5
Air conditioning.....	1,163	7.1	10.3
	- number -		- number -
Median number of rooms.....	4.6		5.0
Median value <u>1</u> /.....	\$12,400		\$11,300
Median gross rent <u>2</u> /.....	\$93		\$107

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

2/ Specified renter occupied. Excludes one-family homes on 10 acres or more.

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

## THE COUNTY'S ECONOMY

Agriculture, lumbering, and recreation are the major industries in Klamath County. Most people engaged in manufacturing are employed by the lumber and wood products industry. There is also a substantial work force employed in retail and wholesale trade in the county.

### Agriculture

In 1970 agriculture contributed nearly \$30 million in sales to Klamath County's economy. A large portion of the county's farmland is woodland or rangeland used for grazing livestock.

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

Subject	1959	1964	1969
Approximate acres of land area.....	3,822,080	3,820,850	3,821,056
Proportion in farms.....	30.7%	28.5%	19.0%
Total number of farms.....	1,089	1,072	826
Acres in farms.....	1,172,577	1,091,950	724,809
Average size of farms.....	1,393.6	1,018.6	877.4
Value of land and buildings			
Average per farm.....	\$58,625	\$103,915	\$148,465
Average per acre.....	\$75.75	\$101.78	\$169.19

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

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

Tenure	1959	1964	1969
Full owners.....	701	657	512
Part owners.....	290	316	242
Managers.....	8	13	---
Tenants.....	90	86	72
Total operators.....	1,089	1,072	826

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

Table 62. Farm Operators by Age and Years of School Completed,  
Klamath County, 1959, 1964, 1969

Subject	1959	1964	1969
Average age (years).....	49.7	50.5	50.7
Farm operators 65 years and over...	134	138	91
Years of school completed:			
Elementary: 0-4 years.....	NA*	2	NA
5-7 years.....	"	64	"
8 years.....	"	217	"
High school: 1-3 years.....	"	165	"
4 years.....	"	360	"
College: 1-3 years.....	"	147	"
4 years or more.....	"	117	"

\*NA - not available.

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

Unlike most other areas of the state and nation, average farm size in Klamath County decreased from 1959 to 1969 with a substantial reduction of acreage in farms in the county. About 40 percent of the county's farms were 260 acres or larger in size in 1969.

Table 63. Number and Percent of Farms by Size, Klamath County,  
1959, 1964, and 1969

Size	Number			Percent		
	1959	1964	1969	1959	1964	1969
Less than 10 acres.....	92	98	62	8.4	9.1	7.5
10 to 49 acres.....	170	190	135	15.6	17.7	16.5
50 to 69 acres.....	41	44	19	3.8	4.1	2.3
70 to 99 acres.....	93	88	83	8.5	8.2	10.0
100 to 139 acres.....	86	74	63	7.9	6.9	7.6
140 to 179 acres.....	97	77	59	8.9	7.1	7.1
180 to 219 acres.....	52	49	38	4.8	4.6	4.6
220 to 259 acres.....	45	44	31	4.1	4.1	3.7
260 to 499 acres.....	134	126	122	12.3	11.8	14.7
500 to 999 acres.....	102	106	86	9.4	9.9	10.4
1,000 to 1,999 acres.....	75	75	57	6.9	7.0	6.9
2,000 acres or more.....	102	101	71	9.4	9.4	8.6
Total farms.....	1,089	1,072	826	100.0	100.0	100.0

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

Classification of farms by 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.

Table 64. Farms by Economic Class, Klamath County, 1959, 1964, and 1969

Economic Class	Number			Percent		
	1959	1964	1969	1959	1964	1969
Commercial farms.....	752	762	652	71.3	71.1	78.9
Class I (sales of \$40,000 or more).....	93	124	150	8.8	11.6	18.2
Class II (sales of \$20,000 to \$39,999).....	157	129	118	14.9	12.0	14.3
Class III (sales of \$10,000 to \$19,999).....	172	158	102	16.3	14.7	12.3
Class IV (sales of \$5,000 to \$9,999).....	197	148	131	18.7	13.8	15.8
Class V (sales of \$2,500 to \$4,999).....	126	118	122	11.9	11.0	14.8
Class VI (sales of \$50 to \$2,499).....	7	85	29	0.7	7.9	3.5
Other farms.....	302	310	174	28.7	28.9	21.1
Part-time.....	254	235	134	24.1	21.9	16.2
Part-retirement.....	47	73	37	4.4	6.8	4.5
Abnormal.....	1	2	3	0.1	0.2	0.4
Total farms.....	1,054 <sup>1/</sup>	1,072	826	100.0	100.0	100.0

<sup>1/</sup> There is a discrepancy between total farms reported in this table and total farms reported elsewhere.

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



Income from the sale of crops and livestock produced in Klamath County was nearly \$30 million in 1970. Livestock sales accounted for 66 percent of this income. Cattle and calves alone contributed 59 percent. Other significant products were: potatoes, 16.3 percent; small grains, 9.6 percent; hay, 6.3 percent; and dairy products, 3.3 percent.

Table 65. Value of Farm Products Sold,<sup>1/</sup> Klamath County, 1966-1970

Product	1966	1967	1968	1969	1970 2/
- - - - - thousand dollars - - - - -					
All crops, livestock and livestock products.....	27,890	27,321	27,052	30,040	29,681
All crops.....	10,774	10,294	10,254	11,207	10,110
All grain, hay and seeds....	5,778	5,793	5,328	5,744	5,062
All seed crops.....	212	126	196	116	334
All grain and hay.....	5,566	5,667	5,132	5,628	4,728
All hay.....	2,308	2,330	1,692	2,115	1,866
All grains.....	3,258	3,337	3,440	3,513	2,862
Wheat.....	483	510	446	327	315
Barley.....	1,740	1,800	2,079	2,115	1,605
Vegetables, fresh and for processing.....	5	--	--	--	--
All berries.....	--	--	--	--	--
All tree fruits and nuts....	--	--	--	--	--
Specialty field crops.....	--	--	--	--	4
Specialty horticultural crops.....	34	33	44	46	49
Potatoes.....	4,818	4,286	4,742	5,236	4,825
All livestock and livestock products.....	17,116	17,027	16,798	18,833	19,571
Dairy products.....	749	779	753	860	966
Poultry products.....	230	237	243	292	280
Cattle and calves.....	15,159	15,153	15,078	16,880	17,464
Sheep and lambs.....	569	546	469	538	587
Hogs.....	151	121	94	105	95

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

<sup>2/</sup> preliminary.

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

Table 66. Acres of Crops Harvested, Klamath County, 1969 and 1970

Crops Harvested	1969	1970 <u>1/</u>
Corn for grain.....	--	--
Small grains		
Wheat.....	6,500	5,500
Oats.....	27,000	25,000
Barley.....	38,000	32,000
Hay crops.....	87,000	86,000
Field seed crops.....	<u>2/</u>	<u>2/</u>
Other field crops.....	<u>2/</u>	<u>2/</u>
Vegetables		
Fall potatoes.....	10,800	12,000
Berries.....	<u>2/</u>	<u>2/</u>
Tree fruits, nuts, and grapes.....	22 <u>3/</u>	NA*

1/ Preliminary.                      2/ Not reported, either little or no acreage.

3/ From U.S. Census of Agriculture, 1969.

\*NA - not available.

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

Although numbers of dairy cattle have declined since 1950 in Klamath County, the number of total cattle has more than doubled. The number of sheep and lambs in the county rose sharply from 1950 to 1960 but fell nearly to the 1950 level by 1970.

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

Category <u>1/</u>	1950	1960	1969	1970 <u>2/</u>
All cattle.....	55,600	99,000	125,000	127,000
Dairy cattle.....	3,700	2,900	2,000	2,100
Sheep and lambs.....	31,000	60,000	32,000	32,000
Hogs.....	5,300	3,900	1,200	NA*
Chickens.....	NA	NA	55,000	60,000
Turkeys raised.....	NA	NA	--	--

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

2/ Preliminary.

\*NA - not available.

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

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

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Meat products				
Meat packing plants.....	1	2	22	26
Sausages.....	1	1	5	5
Dairy products				
Fluid milk.....	1	2	19	47
Cheese.....	1	1	80	80
Canning and preserving.....	0	0	--	--
Grain mill products				
Prepared feed for animals and fowls..	1	1	NA*	2
Bakery products.....	0	0	--	--
Beverages				
Bottled and canned soft drinks.....	2	2	9	15
Miscellaneous food preparations				
Animal fats.....	1	1	6	6
Total.....	8	10	141	181

\*NA - not available.

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

### Logging and Wood Products

The wood products industry is the major manufacturing industry in Klamath County, both in terms of employment and value added by production. There are sawmills, veneer, plywood, and wooden container manufacturers located in the county. Both the number of these firms and their employment have increased substantially in recent years.

From 1960 through 1970 an average of nearly 334 million board feet of timber was harvested in the county. Most of this was Ponderosa or Jeffrey pine. In 1968 Klamath County used over 380,000,000 board feet of its own log production. During the same year it exported about 100,000,000 board feet from the county for use in other counties and imported 118,000,000 board feet for its own processing.

Nearly 395,000 tons of bark and wood residue were produced by sawmills in Klamath County during 1968. About 283,000 tons of the residue were consumed for such uses as pulp, particle board, or fuel.

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

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Logging camps and contractors.....	8	18	117	347
Sawmills and planing mills, general.....	8	8	2,230	2,338
Millwork.....	4	4	221	305
Veneer and plywood.....	3	4	220	475
Wooden containers.....	2	3	103	79
Wood products not elsewhere classified..	1	1	16	14
Total.....	26	38	2,907	3,558

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

From 1960 through 1970, timber harvested in Klamath County varied from 182,194,000 board feet in 1961 to 482,715,000 board feet in 1969. The annual average for the 1960-1970, eleven year, period was over 333,800,000 board feet.

Table 70. Timber Harvest by Ownership, Klamath County, 1970<sup>1/</sup>

Ownership	Production <sup>2/</sup>	Percent of Total
Total timber harvest.....	430,209	100.0
Private <sup>3/</sup> .....	229,149	53.3
Bureau of Land Management <sup>4/</sup> .....	6,667	1.5
National forest <sup>5/</sup> .....	193,646	45.0
State <sup>3/</sup> .....	747	0.2

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

<sup>2/</sup> Scribner log rule - thousand board feet.

<sup>3/</sup> Compiled by State Forester.

<sup>4/</sup> Compiled by Bureau of Land Management.

<sup>5/</sup> Compiled by U.S. Forest Service.

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

Table 71. Log Consumption in Thousand Board Feet by Species and Industry, Klamath County, 1968 <sup>1/</sup>

Species	Type of Industry		
	Sawmills	Veneer and Plywood <sup>2/</sup>	Shake and Shingle
All species.....	430,245	97,853	<u>3/</u>
Douglas fir.....	10,099	28,172	
True firs.....	48,484	52,652	
Ponderosa and Jeffrey pines.....	355,365	17,029	
Redwood.....	297	--	
Other softwoods.....	16,000	--	
Hardwoods.....	--	--	

<sup>1/</sup> Scribner log rule.

<sup>2/</sup> Includes Jefferson County to avoid disclosure.

<sup>3/</sup> None reported.

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

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

Industry	Capacity
Sawmill - lumber <sup>1/</sup> .....	995,000
Veneer and plywood <sup>2/</sup> .....	320,000
Pulp and board mills <sup>3/</sup> .....	140

<sup>1/</sup> Scribner log rule, board feet.      <sup>2/</sup> Square feet, 3/8 inch basis.

<sup>3/</sup> 24 hour capacity in tons.

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

Manufacturing

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

Item	Value Added	Percent of Total
All manufacturing.....	\$36,100,000	100.0
Lumber and wood products.....	32,900,000	91.1

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

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

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Ordnance and accessories.....	0	0	--	--
Textile mill products.....	0	0	--	--
Finished products from fabrics.....	0	0	--	--
Printing, publishing, and allied industries				
Newspapers.....	0	1	--	60
Commercial printing.....	2	3	7	11
Chemicals and allied products.....	0	0	--	--
Furniture and fixtures				
Mattresses and bedsprings.....	1	1	7	7
Leather and leather products.....	1	1	1	1
Machinery except electrical				
Industrial machinery.....	1	1	1	1
Woodworking machinery.....	2	2	46	46
Farm machinery and equipment.....	3	3	17	14
Miscellaneous machinery except electrical.....	2	2	4	3
Professional, scientific, controlling instruments; photographic and optical goods				
Ophthalmic goods.....	1	1	4	4
Transportation equipment				
Motor vehicle parts and accessories...	1	1	3	2
Electrical machinery.....	0	0	--	--
Miscellaneous manufacturing industries				
Sporting and athletic goods.....	0	1	--	25
Total.....	14	17	90	174

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

Mining - Mineral and Metal Industries

Income from mineral production varies considerably in Klamath County depending on local construction activities and their demand for sand and gravel. Pumice and clays are also produced in the county.

Table 75. Mineral, Metal and Related Manufacturing, Klamath County, 1968 and 1970

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Petroleum refining and related industries.....	0	0	--	--
Stone, clay, glass, and concrete products				
Structural clay products.....	1	1	17	17
Concrete products.....	2	1	5	4
Ready-mixed concrete.....	3	3	14	31
Abrasive, asbestos, and miscellaneous non-metallic mineral products.....	1	0	12	--
Primary metal industries.....	0	0	--	--
Fabricated metal products.....	2	1	NA*	2
Total.....	9	6	48	54

\*NA - not available.

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

Table 76. Value of Mineral Production, Klamath County, 1963, 1965, 1970

Year	Value	Minerals Produced in Order of Value
1963.....	\$1,379,000	NA*
1965.....	911,000	Sand and gravel, stone, pumice, clays
1970.....	2,945,000	Stone, sand and gravel, pumice, clays

\*NA - not available.

SOURCE: U.S. Bureau of Mines, Mineral Yearbook, from Bureau of Business and Economic Research, Oregon Economic Statistics, various years, University of Oregon.

Outdoor Recreation 1/

Recreation is the third largest contributor to the county's economy and is rapidly growing. Facilities are available in the county for such outdoor recreational activities as camping, fishing, hunting, and outdoor winter sports.

Crater Lake National Park, situated in the northeast corner of the county, covers about 250 square miles and attracts over 500,000 visitors annually. There are two wilderness areas in the county, Mountain Lakes and part of Gearhart Mountain, which cover a total of 65 square miles.

There are three state parks in the county. Also, the county operates seven parks of its own which cover over 600 acres. The city of Klamath Falls maintains over 460 acres of recreational areas. Malin also has a well developed community park.

Winter sports facilities are available at Mount Ashland and the Tomahawk Ski Bowl 25 miles northwest of Klamath Falls.

Hunting is a major outdoor activity in the county. During the 1969-70 hunting season, nearly one-fourth of all geese hunters in the state and over 17 percent of all state duck hunters hunted in Klamath County. Sport fishing, particularly for trout, is also popular in county streams and lakes.

Table 77. Attendance at State Parks in Klamath County, 1968-1972

Park and Use	Attendance			
	1968-69	1969-70	1970-71	1971-72
Collier Memorial State Park				
Day visitor attendance.....	149,184	152,470	210,640	214,370
Overnight camping.....	24,945	22,599	28,367	26,920
Jackson F. Kimball State Park				
Day visitor attendance.....	19,240	26,488	23,504	25,944
Overnight camping.....	323	505	408	1,123

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

1/ Oregon State Water Resources Board, Klamath Basin, 1971.



Table 78. Klamath County Parks and Recreation Facilities

Ownership and Name	Acres	Facilities & Activities <u>1/</u>
<u>National Parks</u>		
Crater Lake National Park...	250	B,C,P,Hi,F
<u>U.S. Forest Service</u>		
<u>Winema National Forest</u>		
Aspen Point.....	NA*	C,F,R,P,Tc
Cold Spring.....	"	C,Hi,R
Digit Point.....	"	F,Hi,S,P,Tc
Fourmile Lake.....	"	B,F,Hi,R,P
Rainbow Bay.....	"	C,F,R,S,Tc
S'Ocholis.....	"	F,P
Spring Creek.....	"	C,F,Hi,P,Tc
Spruce.....	"	C,Hi
White Pine Picnic Ground....	"	P
Williamson River.....	"	C,F,H,Tc
Wood River.....	"	B,F,P
<u>Fremont National Forest</u>		
Sandhill Crossing.....	"	C,F,H
Sprague River.....	"	C,F,H,P,Tc
<u>Bureau of Reclamation</u>		
Lower Klamath Lake.....	"	B,C,H
Clear Lake.....	"	B,H
Tule Lake.....	"	B,C,H
Gerber Reservoir.....	"	B,C,F,H,P
Upper Klamath Lake.....	"	B,C,F,H,P
<u>State Parks</u>		
Collier Memorial State Park.	350	C,F,P,Tc,M
Jackson F. Kimball State Park.....	19	C,F,P
Klamath Falls-Lakeview Forest Wayside.....	80	P

\*NA - not available.

<u>1/</u>	B - boating	H - hunting	R - riding
	C - camping	Hi - hiking	S - swimming
	F - fishing	M - museum	Tc - trailer camping

SOURCES: U.S. Forest Service, Pacific Northwest Region, National Forest Campground Directory, Oregon-Washington, U.S. Government Printing Office, Washington, D.C., 1971.  
Oregon State Department of Transportation, Oregon State Highway Division, State Parks and Recreation Section, "State Park Acreages", 1972.  
Oregon State Water Resources Board, Klamath Basin, 1971.

Table 79. Klamath County Game Harvest

Game	Hunters		Harvest		Hunted
	Number	Percent of State Total	Number	Percent of State Total	
Pheasant.....	2,647	3.67	6,548	2.69	10,049
Quail.....	712	2.72	3,854	2.43	2,229
Chukar partridge.....	48	0.29	23	0.02	175
Blue and ruffed grouse.....	91	1.18	113	0.67	162
Silver gray squirrel.	156	3.41	229	1.05	501
Band-tailed pigeon...	50	0.40	1,090	0.90	411
Mourning dove.....	959	5.86	10,647	5.41	3,257
Ducks.....	9,490	17.01	110,240	19.37	67,480
Geese.....	6,980	24.85	15,850	24.90	44,550
Deer 1/.....	1,727	0.61	322	0.36	NA*
Elk 2/.....	40	0.05	6	0.05	230

\*NA - not available.

1/ Figures for Sprague, Fort Rock, Klamath, and Keno state game management units which are not all completely contained within Klamath County's borders and do not cover all of the county.

2/ Figures for Keno state game management unit, which covers only a portion of Klamath County.

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

### Business

Table 80. Retail and Wholesale Trade, Klamath County, 1967

Kind of Business	Number Establishments	Number Paid 1/ Employees	Sales (\$1,000)
Retail trade, total.....	528	2,198	\$83,549
Lumber, building materials, hardware, farm equipment dealers, total.....	36	221	10,761
Lumber and building materials dealers.	20	2/	3,041
Hardware stores.....	8	2/	829
Farm equipment dealers.....	8	100	6,891
General merchandise group stores, total.	21	265	7,138
Department stores.....	3	155	4,160
Limited price variety stores.....	4	2/	458
Miscellaneous general merchandise stores.....	14	2/	2,520
Food stores, total.....	78	268	17,371
Grocery stores.....	64	244	16,635
Meat markets.....	7	6	518
Fruit stores, vegetable markets.....	--	--	--
Candy, nut, confectionery stores.....	4	2/	101

Table 80, cont. Retail and Wholesale Trade, Klamath County, 1967

Kind of Business	Number Establishments	Number Paid 1/ Employees	Sales (\$1,000)
Food stores, continued			
Retail bakeries.....	1	<u>2/</u>	<u>2/</u>
Other food stores.....	2	<u>2/</u>	<u>2/</u>
Automotive dealers, total.....	36	341	15,589
Motor vehicle dealers.....	20	269	12,513
Tire, battery, and accessory dealers..	6	<u>2/</u>	1,493
Miscellaneous automotive dealers.....	10	<u>2/</u>	1,583
Gasoline service stations, total.....	87	149	7,238
Apparel, accessory stores, total.....	21	<u>2/</u>	2,516
Ready-to-wear stores.....	6	<u>22</u>	664
Women's accessory and specialty stores	--	--	--
Other apparel, accessory stores.....	15	<u>2/</u>	1,852
Furniture, home furnishing, equipment stores, total.....	18	83	2,570
Furniture stores.....	6	39	1,143
Household appliances.....	4	<u>2/</u>	909
Radio, TV, music stores.....	4	<u>2/</u>	300
Home furnishing stores.....	4	<u>2/</u>	218
Eating, drinking places, total.....	118	453	5,351
Eating places.....	86	<u>391</u>	4,307
Drinking places (alcoholic beverages).	32	62	1,044
Drug stores, proprietary stores, total..	9	<u>2/</u>	5,279
Other retail stores, total.....	80	<u>204</u>	9,265
Liquor stores.....	15	<u>2/</u>	1,737
Antique, secondhand stores.....	11	9	308
Cigar stores and stands.....	1	<u>2/</u>	<u>2/</u>
Sporting goods stores.....	9	14	595
Florists.....	3	<u>2/</u>	<u>2/</u>
Jewelry stores.....	6	<u>2/</u>	679
Fuel, ice dealers.....	5	<u>2/</u>	506
Other stores.....	30	88	5,163
Nonstore retailers, total.....	24	<u>2/</u>	471
Mail order houses.....	1	<u>2/</u>	<u>2/</u>
Merchandising machine operator.....	2	<u>2/</u>	<u>2/</u>
Direct selling establishments.....	21	<u>2/</u>	211
Wholesale trade, total.....	81	757	\$42,488
Merchant wholesalers <u>3/</u> .....	47	NA*	26,152
Other operating types <u>3/</u> .....	34	NA	16,336

\*NA - not available.

1/ Excludes active proprietors of unincorporated businesses.

2/ Withheld to avoid disclosure.

3/ Data reported for specific kinds of business only for counties with 100 or more wholesale establishments.

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

Table 81. Selected Services, Klamath County, 1967

Kind of Business	Number Establish- ments	Receipts (\$1,000)	Number Paid <u>1/</u> Employees
Selected services, total.....	352	\$10,065	671
Hotels, motels, tourist courts, camps, total.....	76	3,076	227
Hotels.....	27	1,560	138
Motels, motor hotels, tourist centers.	37	1,402	<u>2/</u>
Trailer parks, camps.....	8	81	<u>2/</u>
Personal services, total.....	103	2,244	187
Laundries, laundry service, etc.....	22	1,092	120
Beauty shops.....	39	435	41
Barber shops.....	28	235	<u>2/</u>
Other personal services.....	14	159	<u>2/</u>
Miscellaneous business services, total..	41	609	70
Advertising.....	3	<u>2/</u>	<u>2/</u>
Services to dwellings, buildings.....	12	164	<u>2/</u>
Business, management consulting, public relations.....	1	<u>2/</u>	<u>2/</u>
Other.....	NA*	NA	NA
Auto repair, services, garages, total...	57	1,912	61
Auto repair shops.....	39	998	33
Auto parking.....	9	76	4
Auto, truck renting, services.....	9	838	24
Miscellaneous repair services, total....	47	831	<u>2/</u>
Electrical repair shops.....	17	379	17
Motion pictures, total.....	7	<u>2/</u>	<u>2/</u>
Motion picture theaters.....	7	<u>2/</u>	<u>2/</u>
Amusement, recreation services, exc.			
motion pictures, total.....	21	<u>2/</u>	40
Bands, orchestras, entertainers.....	5	32	<u>2/</u>
Bowling, billiards, pool.....	3	<u>2/</u>	<u>2/</u>
Other amusements and recreation services.....	13	205	5

\*NA - not available.

1/ Excludes active proprietors of unincorporated businesses.

2/ Withheld to avoid disclosure.

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

PUBLIC SERVICES

Transportation

Federal Highway 97 runs through Klamath Falls as it crosses the county going from the California border to Deschutes County on the north. State Highways 66 and 140 run east-west across the southern portion of the county. State highways 62 and 58 also connect the county with the western portion of the state.

Klamath Falls has a municipal airport from which Hughes Airwest as well as charter flights provide service.

Regularly scheduled bus service is provided from Klamath Falls by four commercial bus lines.

Railway, including passenger, service is available in the county. Railroad companies operating in the county include: Amtrak, Burlington Northern, Oregon, California, and Eastern Railway, and Southern Pacific.

Table 82. Miles of Roadway in Klamath County, 1970

Agency	Miles
Federal agency roads.....	3,481
State agency roads.....	440
County and public usage roads <u>1/</u> ...	1,669
City streets.....	91
Total.....	5,681

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

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

Table 83. Number of Aircraft and Boats in Klamath County, 1968

Subject	Number
Aircraft.....	74
Boats.....	2,513

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

Table 84. Motor Vehicle Registration, Klamath County, 1970 and 1972

Vehicle	Number of Vehicles	
	1970	1972
Passenger vehicles.....	32,573	34,739
Buses.....	46	11
Trucks.....	2,504	2,788
All trailers.....	2,091	1,246
Motorcycles.....	1,699	2,036
Recreational <u>1/</u> .....	2,583	3,485
Snowmobiles.....	NA*	810
Total vehicles.....	41,496	45,115

\*NA - not available. 1/ Includes campers and travel trailers.

SOURCES: 1970 figures taken from Bureau of Business and Economic Research, Oregon Economic Statistics, 1972, University of Oregon, 1972. 1972 figures from a telephone interview with State Motor Vehicles Division.

Communication

Table 85. Communication Facilities, Klamath County

Type of Service	Location	Network Affiliation
<u>Radio Stations</u>		
KAGO.....	Klamath Falls	---
KFLW.....	Klamath Falls	CBS
KLAD.....	Klamath Falls	---
KTEC.....	Oregon Technical Institute	Educational
<u>Telephone</u>		
Beaver State Telephone Co.....	Algoma, Chemult, Chiloquin, Fort Klamath, Rocky Point	
United Telephone Co. of the Northwest.....	Bonanza, Crater Lake, Malin, Lorella, Merrill	
<u>Television</u>		
KOTI.....	Klamath Falls	NBC, CBS, ABC
Cable TV available for Klamath Falls		
<u>Newspapers</u>		
Herald and News..... (Portland paper available)	Klamath Falls	

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

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

Facilities	Number of Housing Units	
	1960	1970
<u>Battery radio sets</u>		
Yes.....	NA*	12,826
No.....	NA	3,481
<u>Telephone available</u>		
Yes.....	11,682	13,902
No.....	3,029	2,405
<u>Television sets</u>		
One.....	12,069	12,118
Two or more.....	794	3,192
None.....	1,848	997
<u>UHF equipped television</u>		
Yes.....	NA	5,351
No.....	NA	9,959

\*NA - not available.

SOURCE: U.S. Bureau of the Census, Census of Housing: 1960 and 1970 Detailed Housing Characteristics, Final Report HC(1) - B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1962, 1972.

Library Facilities

During the 1969-70 fiscal year, the city of Klamath Falls provided \$56,671 and Klamath County provided \$216,100 to support library facilities in the county. Expenditures for the year totaled \$151,535. The county's circulation per capita of 5.3 and expenditure per capita of \$3.05 compare with average figures for all counties in Oregon of 6.3 and \$3.48.

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

City	Volumes	Circulation	Circ./Capita	Hrs. Open Per Week	Operating Expend.	Expend./Capita
Klamath Falls.....	74,819	187,274	11.2	69	\$151,535	\$3.05 <u>1/</u>
Bly.....	1,633	6,330	NA*	6	---	---
Bonanza.....	2,538	13,361	53.4	9	---	---
Chiloquin.....	1,621	3,869	4.3	9	---	---
Gilchrist.....	1,851	7,532	NA	6	---	---
Malin.....	3,489	9,853	17.3	11	---	---
Merrill.....	1,722	4,229	5.0	7	---	---
Keno.....	169	1,005	NA	--	---	---
Extension Service.	---	31,171	---	--	---	---
County total.....	87,842	264,624	5.3	--	\$151,535	\$3.05
Oregon Technical Institute.....	28,604	---	---	--	\$ 63,048	---

\*NA - not available. 1/ C. ulated for total county population.

SOURCE: Nielsen, Alice M., Editor, Directory of Oregon Libraries, annual statistics for the year ending June 30, 1970, Oregon State Library, Salem, Oregon.

Utilities

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

Subject	Klamath County		State
	Number	Percent <sup>1/</sup>	Percent <sup>1/</sup>
Water source			
Public system or private company.	13,921	77.6	79.8
Individual well.....	3,663	20.4	16.9
Other or none.....	370	2.1	3.3
Sewage disposal			
Public sewer.....	12,320	68.6	61.0
Septic tank or cesspool.....	5,225	29.1	37.5
Other or none.....	409	2.3	1.5

<sup>1/</sup> 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 89. Housing Units by Water Supply and Sewage Disposal for Places with Over 2,500 Inhabitants, Klamath County, 1970

Subject	Klamath Falls	
	Number	Percent <sup>1/</sup>
Water source		
Public system or private company.	6,297	99.8
Individual well.....	10	0.2
Sewage disposal		
Public sewer.....	6,295	99.8
Septic tank or cesspool.....	12	0.2
Other or none.....	--	--

<sup>1/</sup> 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 90. Types of Fuels and Fuel Usage, Number of Housing Units, Klamath County, 1960 and 1970

Type of Fuels	Home Heating Fuel		Water Heating Fuel		Cooking Fuel	
	1960	1970	1960	1970	1960	1970
Utility gas.....	1,605	4,117	1,610	2,095	924	1,950
Fuel oil, kerosene, etc..	5,167	5,374	79	43	40	39
Coal or coke.....	182	--	40	--	40	--
Wood.....	2,408	577	799	67	1,086	190
Electricity.....	3,877	4,643	11,575	13,260	11,352	12,826
Bottled, tank, or LP gas.	609	1,149	487	563	1,013	1,131
Other fuel.....	863	447	268	148	23	--
None.....	--	--	453	131	233	170
All occupied housing units.....	14,711	16,307				

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

There are four major electric power plants in Klamath County with a total capacity of over 180,000 kilowatts. The area is served with electric power by Pacific Power and Light Company.

Table 91. Electric Power Resources, Klamath County

Plant	Stream	Type <sup>1/</sup>	Name Plate Rating-KW*	Ownership
Eastside.....	Link River	H	3,200	Pacific Power and Light
Westside.....	Link River	H	660	Pacific Power and Light
Keno.....	Klamath River	H	100,000	Pacific Power and Light
John C. Boyle.	Klamath River	H	80,000	Pacific Power and Light

<sup>1/</sup> H - hydroelectric.

\*KW - kilowatts.

SOURCE: United States Department of Interior, Branch of Power Resources, "Electric Power Plants in the Pacific Northwest and Adjacent Areas", 1969.

PUBLIC FINANCE

Table 92. Selected Items of Local Government Finances, Klamath County, 1966-67

Item	Klamath County		State
	Total Amount	Per Capita Amount	Per Capita Amount
	- \$1,000 -	- - dollars - -	
General revenue, exc. interlocal...	\$14,192	\$286	\$308
Intergovernmental revenue.....	5,166	104	97
From state government.....	4,421	89	83
From local sources.....	9,025	182	210
Taxes.....	7,064	142	156
Property.....	6,904	139	151
Other.....	160	3	5
Charges and miscellaneous.....	1,961	40	54
Direct general expenditure.....	13,476	272	316
Capital outlay.....	921	19	62
Other.....	12,555	253	254
Education.....	7,784	157	180
Other than capital outlay.....	7,315	147	152
Highways.....	1,734	35	30
Other than capital outlay.....	1,452	29	20
Public welfare.....	365	7	2
Hospitals.....	--	--	6
Other than capital outlay.....	--	--	--
Health.....	137	3	4
Police protection.....	413	8	12
Fire protection.....	383	8	9
Sewerage.....	144	3	8
Other than capital outlay.....	103	2	3
Sanitation other than sewerage...	20	0.41	2
Parks and recreation.....	165	3	10
Natural resources.....	804	16	4
Housing and urban renewal.....	--	--	4
Correction.....	102	2	2
Libraries.....	141	3	3
Financial administration.....	129	3	5
General control.....	530	11	8
General public buildings.....	169	3	3
Interest on general debt.....	116	2	6
Other and unallocable.....	343	7	21
Water supply revenue.....	35	1	12
Water supply expenditure.....	21	0.43	13
General debt outstanding.....	4,161	84	214
Long-term.....	4,159	84	203
Local schools.....	800	16	101
Other.....	3,359	68	101

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

Table 93. Summary of Assessment Rolls for 1971-72 Fiscal Year Real Property, Personal Property and Utilities, Klamath County

Item	Assessed Value	Percent of Total
<u>Class</u>		
Real property		
Lands inside corporate limits.....	\$ 22,966,798	4.1
Lands outside corporate limits.....	131,344,979	23.6
Improvements inside corporate limits.....	70,945,975	12.7
Improvements outside corporate limits.....	135,712,379	24.4
Timber (excludes land).....	---	---
Less veterans exemptions.....	(3,136,875)	0.6
Less senior citizens residence exemptions..	(1,304,310)	0.2
Taxable real property.....	356,528,946	64.1
Personal property		
Merchandise and stock in trade.....	23,730,396	4.3
Furniture, fixtures and equipment.....	5,545,359	1.0
Farm machinery and equipment.....	7,372,693	1.3
Other machinery and equipment.....	12,057,682	2.2
Livestock.....	8,940,492	1.6
Miscellaneous.....	2,026,700	0.4
Less veterans exemptions.....	(6,322)	<u>1/</u>
Less senior citizens residence exemptions..	(31,424)	<u>1/</u>
Taxable personal property.....	59,635,576	10.7
Total taxable real and personal property....	416,164,522	74.8
Utilities		
Airline companies.....	64,800	<u>1/</u>
Electric companies.....	52,817,105	9.5
Express companies.....	6,800	<u>1/</u>
Gas companies.....	28,181,273	5.1
Heating companies.....	---	---
Pipeline companies.....	---	---
Railroad companies.....	37,795,910	6.8
Tank and private car companies.....	4,286,389	0.8
Telegraph companies.....	53,900	<u>1/</u>
Telephone companies.....	13,854,296	2.5
Water companies.....	3,179,120	0.6
Water transportation companies.....	27,700	<u>1/</u>
Taxable utility property.....	140,267,293	25.2
Total taxable real, personal and utility property.....	\$556,431,815	100.0

1/ Less than 0.05 percent.

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

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

Item	Amount in Dollars
<u>Levies</u>	
County.....	\$ 1,188,358
Cities.....	1,207,116
Community colleges.....	41,727
Elementary and secondary school districts	
Intermediate county.....	---
Education joint.....	---
Elementary and unified.....	1,488,924
Union high.....	1,623,138
County unit.....	3,827,519
Total school districts.....	6,939,581
Special districts	
Cemetery.....	9,586
Fire protection.....	151,011
Hospital.....	---
Park and recreation.....	51,506
Port.....	---
Road.....	6,014
Sanitary.....	---
Water supply.....	---
Other.....	41,296
Total special districts.....	259,413
Total gross ad valorem levies.....	9,636,155
Special assessments	
Fire patrol.....	65,892
Forest fee.....	4,456
Diking and drainage.....	42,336
Irrigation.....	376,144
Lighting.....	---
Other.....	19,838
Total special assessments.....	508,666
Total gross levies and assessments.....	10,144,821
Less property relief money	
Senior citizens.....	(29,836)
Game Commission.....	---
Total net ad valorem levies.....	9,606,319
Net ad valorem taxes by class	
Real property.....	6,425,814
Personal property.....	1,035,034
Utility property.....	2,145,446

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

Table 95. City Valuation, Tax Rates and Taxes Extended in Klamath County for 1971-72 Fiscal Year

Item	Klamath Falls	Chiloquin	Malin
Population.....	15,800	830	510
True cash value (TCV)....	\$115,845,432	\$2,866,918	\$1,850,903
Per capita TCV.....	7,332	3,454	3,629
City tax.....	1,142,236	26,175	10,476
Consolidated tax.....	3,292,327	61,553	35,926
Per capita tax			
City.....	\$ 72	\$ 32	\$ 21
Consolidated.....	208	74	70
Percentage of total levy			
County.....	7.5	9.9	11.0
City.....	34.7	42.5	29.2
School.....	57.3	47.6	52.6
Other.....	0.5	0.0	7.3
Average rate/\$TCV basis			
County.....	2.13	2.13	2.13
City.....	9.86	9.13	5.66
School.....	16.29	10.21	10.21
Other.....	0.14	0.00	1.41
Total.....	28.42	21.47	19.41

Item	Merrill	Bonanza
Population.....	740	225
True cash value (TCV)....	\$3,604,427	\$1,037,769
Per capita TCV.....	4,871	4,612
City tax.....	25,375	2,854
Consolidated tax.....	71,079	16,200
Per capita tax		
City.....	\$ 34	\$ 13
Consolidated.....	96	72
Percentage of total levy		
County.....	10.8	13.6
City.....	35.7	17.6
School.....	51.8	65.4
Other.....	1.7	3.3
Average rate/\$TCV basis		
County.....	2.13	2.13
City.....	7.04	2.75
School.....	10.21	10.21
Other.....	0.34	0.52
Total.....	19.72	15.61

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

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

Item	Total Amount	Amount Unpaid	Percent Unpaid
Property taxable			
Real.....	\$6,188,696	\$667,212	10.8
Personal.....	997,068	97,031	9.7
Public utilities.....	1,818,800	22,891	1.3
Western Oregon additional			
timber tax.....	---	---	---
Yield tax.....	13,621	---	---
Other.....	18,834	---	---
Total for collection.....	\$9,037,019	\$787,134	8.7

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

## Selected List of Agencies

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

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

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

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

11. Local Government Relations Division, Oregon Executive Department, 240 Cottage S.E., Salem, Oregon 97310
12. Oregon Association of Broadcasters, Allen Hall, University of Oregon, Eugene, Oregon 97403
13. Oregon Board of Higher Education, School Finance and Statistical Services, 942 Lancaster Dr. N.E., Salem, Oregon 97310
14. Oregon Department of Geology and Mineral Industries, 1400 S.W. 5th St., Portland, Oregon 97201
15. Oregon Educational Coordinating Council, 4263 Commercial S.E., Salem, Oregon 97310
16. Oregon State Department of Revenue, State Office Building, Salem, Oregon 97310
17. Oregon State Employment Division, Community Manpower, Research and Statistics, or Rural Manpower Sections, Labor and Industries Building, Salem, Oregon 97310
18. Oregon State Game Commission, 1634 Alder, Portland, Oregon 97214
19. Oregon State Health Division, Department of Human Resources, 1400 S.W. 5th, Portland, Oregon 97201
20. Oregon State Highway Division, State Parks and Recreation Section, 8009 E. Burnside, Portland, Oregon 97215
21. Oregon State Lands Division, 502 Winter N.E., Salem, Oregon 97310
22. Oregon State Library, State Library Building, Salem, Oregon 97310
23. Oregon State Public Welfare Division, Department of Human Resources, Public Services Building, Salem, Oregon 97310
24. Pacific Northwest Forest and Range Experiment Station, U.S. Forest Service, 809 N.E. 6th St., Portland, Oregon 97232
25. Secretary of State's Office, State Capital 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)



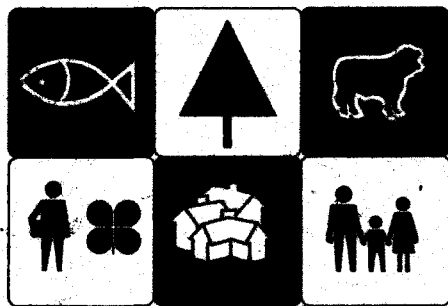
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16. Oregon State Department of Employment, 1965 Oregon Farm Labor Report, 1966.
17. Oregon State Department of Environmental Quality, Water Quality Control In Oregon, Oregon Sanitary Authority, 1970.
18. Oregon State Department of Human Resources, Children Services Division, Adolescent Population and Commitment Data by County, by Calendar Year 1967-1970.
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24. Oregon State Department of Human Resources, Oregon State Health Division, Vital Statistics Annual Report, Vital Statistics Section, 1971.
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32. Oregon State Executive Department, Program Planning Division, District Facts, 1970.
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