

Yamhill County, Oregon

**RESOURCE
ATLAS**

- NATURAL
- HUMAN
- ECONOMIC
- PUBLIC

JUNE 1973

EXTENSION *Community Development* PROJECT

OREGON STATE UNIVERSITY

Yamhill County, Oregon

RESOURCE

ATLAS

NATURAL

HUMAN

ECONOMIC

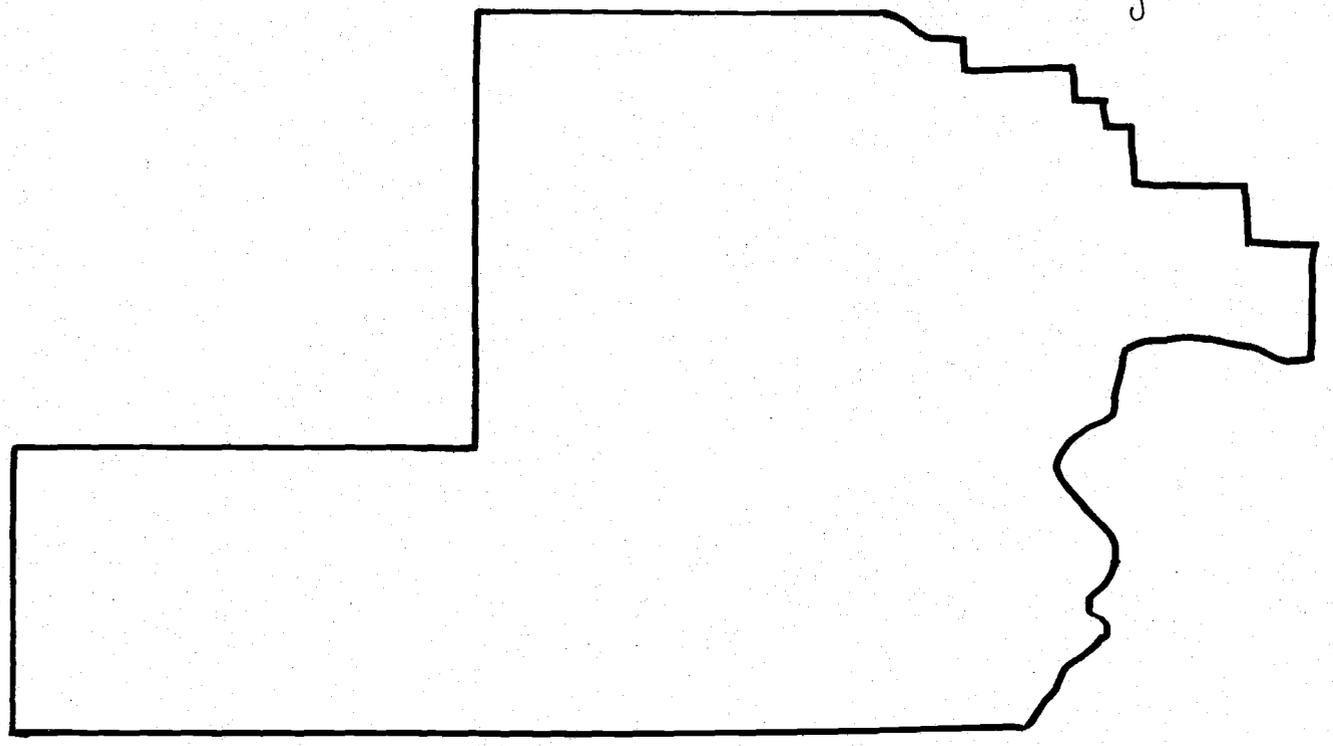
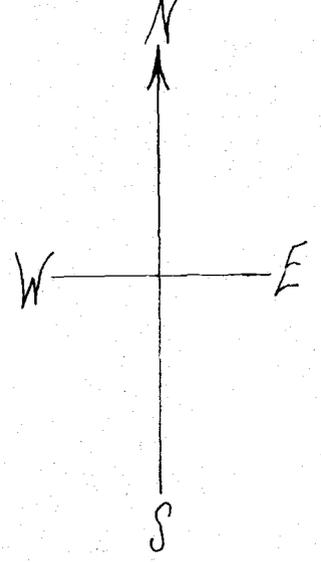
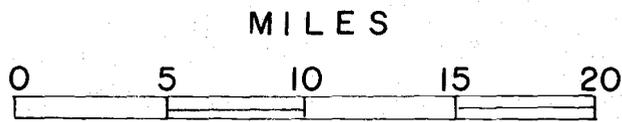
PUBLIC

June 1973

Oregon State University Extension Service

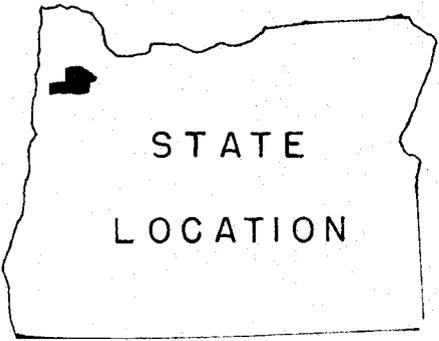
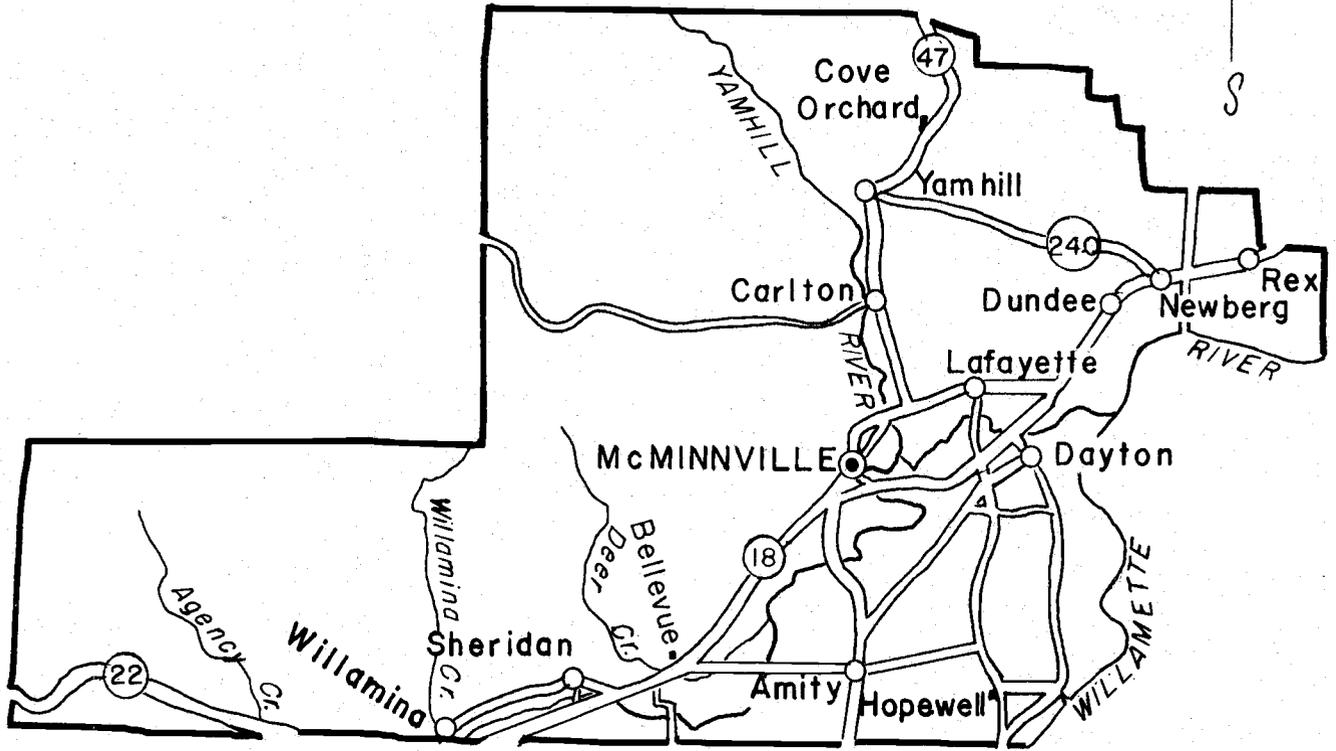
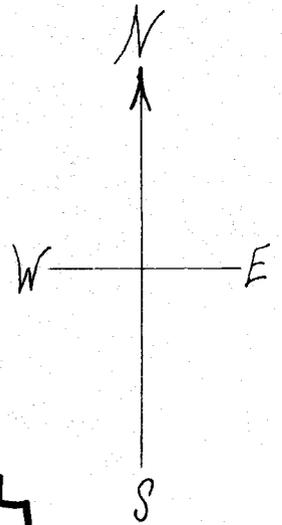
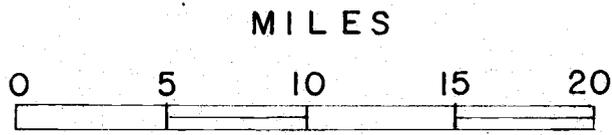
Prepared by Ron Scharback, Research Assistant,
Under the supervision of: Robert O. Coppedge,
Extension Economist, and Russell C. Youmans,
Extension Resource Economist,
Department of Agricultural Economics

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



YAMHILL
COUNTY

YAMHILL COUNTY



LEGEND

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

Contents

	<u>Page</u>
General Description	1
Physical Aspects.	2
Climate	3
Soils	5
Soil Characteristics and Land Capability.	7
Land Ownership.	10
Land Use.	11
Agricultural Land	11
Forest Land	12
Water	15
Watershed Protection and Flood Prevention Projects.	21
Water-based Recreation.	21
Minerals.	22
Wildlife.	22
Human Resources	23
Population.	23
Employment.	28
Income.	35
Education	37
Health and Vital Statistics	40
Public Welfare.	43
Housing	45
The County's Economy.	46
Agriculture	46
Logging and Wood Products	52
Manufacturing	53
Mining - Mineral and Metal Industries	54
Outdoor Recreation.	55
Business.	56
Public Services	57
Transportation.	57
Communication	58
Library Facilities.	59
Utilities	60
Public Finance.	61
Selected List of Agencies	67
Selected Bibliography	69

GENERAL DESCRIPTION ^{1/}

Yamhill County lies west of the Willamette River in northwestern Oregon. The county has an area of 714 square miles and ranks 32nd among Oregon's 36 counties in size. The land is mainly agricultural.

Yamhill County is bordered on the north by Washington County, east by Clackamas and Marion Counties, south by Polk County, and west by Tillamook County. Eighteen miles off the northern county border lies Portland, Oregon's largest city. The western point of Yamhill County reaches to within eight miles of the Pacific Ocean. Yamhill River, for which the county is named, flows through the heart of the county.

The county is located in the fertile Willamette Valley. The county seat, McMinnville, lies approximately 30 miles southwest of Portland, 25 miles northwest from Salem, and 85 miles north of Eugene.

The outstanding characteristic of the county's temperate, marine-type climate is the seasonal distribution of precipitation. Forty-five percent of the annual total precipitation normally occurs during November, December, and January, with about two percent or less during the summer months. The average temperature during the summer is 64.6°F. and 41.8°F during winter. The mild temperatures, the long growing season of 174 days, and the dry summer together with irrigation from the streams and ground water contribute to high crop yields. The agriculture is roughly divided between horticulture crops, livestock, and poultry production. The gross agricultural income was approximately \$24 million in 1970.

Production enterprises that return more than a million dollars a year are beef, dairy, turkeys, commercial eggs, strawberries, beans, and cereal grains. Numerous production plants of paper, lumber and wood products, bakery products, and rolled steel products are among the plants which contribute heavily to the county's economy.

Yamhill County was established in July 1843 and was named for the Yamhill River. Yamhill itself is derived from the Yamhelas or Yamhill Indians of the Kalapooian family who formerly lived along the river in the western Willamette Valley. A brief summary of the major facts of the county follows.^{2/}

1/ Oregon State Cooperative Extension, Agriculture in Oregon Counties - Farm Sales and General Characteristics, Special Report 330, Oregon State University, 1971, Corvallis, Oregon.

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

Area: 714 square miles
455,040 acres

Population: 42,190
(1972)

Elevation at McMinnville: 157 feet

True Cash Value: \$341,348,969 (1971)

Average Temperature:

Summer - 64.6

Winter - 41.8

Principal Industries:

Agriculture, Lumbering,
Education, Mobile Homes,
Pulp and Paper, Steel.

County Seat: McMinnville

PHYSICAL ASPECTS

Yamhill County is made up of three geologic physiographic divisions: the Coast Range on the West, the Willamette Valley and the Cascade Range on the east. The latter is divided into the Western and High Cascades.

The Coast Range is a bowed uplift called an anticline and consists principally of sedimentary rocks such as shale, sandstone, and siltstone, with lesser quantities of volcanic rocks. Uplift was caused by regional compression of the earth's crust and as the range rose, erosional forces removed large quantities of debris that moved downward to the Willamette Valley. The general crestline of the range is about 1,500 feet in altitude with 4,100 foot Mary's Peak the highest point. The east slopes of the range make up about 1/6 or approximately 900 square miles of the basin.

The Willamette Valley is a downwarped elongated trough, part structural and part erosional. The alluvial material, made up of boulders, cobbles, gravel, sand, silt, and clay attains a maximum width of approximately 40 miles in the vicinity of Hubbard. It is estimated that alluvium underlying the French Prairie Mission Bottom area is more than 200 feet deep at places. These deposits are underlain by Coast Range marine sedimentary and volcanic formations. Bedrock, mostly of basalts, is exposed in the valley.

The Cascade Range was formed by both structural uplift and volcanic outpourings. The Western Cascades part of the range is made up of volcanic flows and tuffs and intrusive rocks. It is older and much broader than the High Cascades, which overlies it near its eastern margin. The High Cascades were formed by the flow of basaltics and andesitic lavas. Vast quantities of these rocks were eroded by Ice Age glaciers and other forces of nature to become alluvium in the valley below.

Climate

The outstanding characteristic of the county's temperate, marine-type climate is the seasonal distribution of precipitation. Forty-five percent of the annual total precipitation normally occurs during November, December, and January; while only two percent falls during July and August. Frequently during the summer months there are periods of from 60 to 90 days when rainfall does not occur.

Table 1. Weather Stations and their Elevation, Yamhill County

Station	Elevation
Haskins Dam.....	840
Rex.....	490
McMinnville.....	148
Cherry Grove.....	780

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, By Month, Yamhill County, 1971

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<u>Average Temperature</u>	----- degrees Farenheit -----												
Cherry Grove.	36.5	40.5	40.8	46.4	53.7	54.6	65.4	67.0	58.4	49.3	42.2	36.1	49.2
McMinnville..	39.1	42.5	43.5	48.8	55.3	56.7	65.4	68.8	59.7	51.1	45.0	39.4	51.3
<u>Total Precipitation</u>	----- inches -----												
Cherry Grove.	13.14	6.18	10.74	4.08	2.04	1.90	.24	.54	4.51	3.88	9.94	13.78	70.97
McMinnville..	9.20	5.18	7.74	3.83	1.92	1.97	.14	.17	3.95	4.59	7.10	11.25	57.04

SOURCE: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, Climatological Data, Annual Summary 1971, Vol. 77, No. 13.

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

Station	No. of Years	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Mean Daily Maximum Temp.														
----- degrees Farenheit -----														
Cherry Grove.	Per ^{1/} 10	42.1	46.6	49.8	58.3	64.8	69.2	78.6	77.7	73.9	62.9	50.7	45.1	60.0
	Rec ^{2/} 23	42.3	46.9	51.1	58.6	65.5	69.9	78.6	78.0	74.1	61.7	50.7	45.2	60.2
McMinnville..	Per 10	46.0	49.6	53.2	62.6	68.9	74.0	83.3	81.1	76.9	65.0	52.7	47.6	63.4
	Rec 66	44.9	49.9	55.4	62.3	69.2	74.7	83.1	82.8	76.0	64.0	52.9	46.8	63.5
Mean Daily Minimum Temp.														
----- degrees Farenheit -----														
Cherry Grove.	Per 10	31.6	33.5	33.9	38.6	43.6	47.6	50.9	50.5	49.5	44.5	36.8	33.7	41.2
	Rec 23	30.4	33.4	34.7	38.6	43.5	47.3	50.7	50.7	49.4	43.9	36.7	33.9	41.1
McMinnville..	Per 10	32.9	33.7	34.6	37.7	41.9	45.7	46.7	46.2	44.8	41.5	36.3	34.6	39.7
	Rec 66	32.3	34.2	36.4	39.0	42.8	46.6	48.9	48.8	45.8	41.8	37.1	34.6	40.7

1/ Per indicates the period or number of years the data were gathered.

2/ Rec is the number of records or how many times the data were recorded at the station.

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

Table 4. Freeze Temperature Data, Yamhill County, 1971

Station	Last date in spring/First date in fall; minimum of:				
	16° or below	20°	24°	28°	32°
Cherry Grove..	---	3-2/---	3-2/12-28	3-5/10-29	4-21/10-27
McMinnville...	---	3-1/---	3-1/10-28	4-21/10-27	5-20/9-30

SOURCE: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, Climatological Data, Annual Summary 1971, Vol. 77, No. 13

Soils

Coast Range soils are formed from weathered rock. Variations in soils are closely related to geology and slope. Soils from basalt and gabbro occur on convex, moderate to steep slopes that have resisted dissection. They are characterized by moderately fine texture, moderate depth, high productivity, high water holding capacity, and a low slump and slide hazard. However, if interbedded tuff or sediments are present, slide hazards are high. Soils from sedimentary rocks tend to occur on convex, smooth to uneven, moderate to steep slopes which are often finely dissected by drainage ways. They are characterized by fine texture, moderate depth, moderately high productivity, moderate water holding capacity, and a high slump and slide hazard.

Soils near the Coast Range summit are predominantly intergrades between the yellowish-brown lateritic and reddish-brown lateritic great soil groups with inclusions of the lithosol great soil group. The intergrade soils generally have moderate structure, medium texture, pH below 5, and base saturation about 10% to 20%. Soils near the Willamette Valley are dominantly reddish-brown lateritic soils. They have a strong structure, fine texture, pH above 5, and base saturation greater than 25%. For soils of similar parent rock, soils near the Coast Range summit have higher productivity, steeper slopes, and greater stone content than soils near the Willamette Valley.

There are two general groups of soils in the Willamette Valley on the basis of parent material. The first group is the residual soils formed from basic igneous rock and tuffaceous sandstone. These soils are of the reddish-brown lateritic great soil group and are well-drained, moderately fine textured, moderately deep to deep, slightly acid to medium acid, and gently sloping to moderately steep. The second group is the most extensive and the most important economically. The soil parent material is alluvial sediments of three geological ages comprising different formations.

Each formation includes soil material that varies in texture from coarse to fine, but medium to fine textured material is most common. The soils in each formation vary in drainage characteristics and form drainage catenas having members ranging from somewhat excessively drained to poorly drained. There are variations in soils from slightly acid to strongly acid. The soils are classified into the following great soil groups: Brunizem-like grey-brown Podzolic, Planosol, Humic Grey, and Regosol.

The soils formed on the older gravelly sediments on the higher terraces along the margin on the valley floor are underlain by gravel and have varying amounts of gravel in the entire profile. This group of soils is represented by the Pringle-Santiam-Gilkey drainage catena. These soils are used for production of cereal grains, grass seed, strawberries, pasture, and timber.

The soils formed on the middle-aged sediments of the Willamette silts formation on the main valley floor usually have deep profiles of silty or

clayey soil material. There is a minor area of soils having moderately shallow to deep profiles of gravelly soil material. The soils of the silty or clayey material constitute the Willamette-Amity-Dayton drainage catena. The Willamette is a Brunizem-like soil with very deep, well drained medium to moderately fine textured profile. The soils formed on sediments of the Willamette Silts formation are adapted to the growth of a wide range of crops such as hay crops, grass seed, row crops, pasture, and cereal grains. In addition, nuts, tree fruits, berries, and alfalfa are produced on the better drained soils.

The soils formed on the recent alluvial flood plain have characteristics that conform closely to the texture of the parent material from which it developed. These soils vary from no development to weakly developed profiles and are moderately shallow to very deep. They make up the Camas-Chehalis-Wapato drainage catena. The Camas is a Regosol soil with moderately shallow, somewhat excessively drained, moderately coarse textured profiles. Newberg and Chehalis are Regosol soils with very deep, somewhat excessively to well drained, moderately coarse to medium textured profiles. Maytown is a soil with a very deep, moderately well drained, moderately fine textured profile. Wapato and Reed are Low Humic Gley soils with very deep, poorly to very poorly drained, fine textured profiles. These soils are adapted to the growth of a wide range of crops such as hay crops, grass seed, row crops, pasture, and cereal grains. In addition, nuts, tree fruits, berries, and alfalfa are produced on the better drained soils; and root crops such as carrots, beets, turnips, and potatoes are produced on the soils of moderately coarse to medium texture.

The soils of the Cascade Mountain slopes within the basin can be placed into three groups on the basis of parent material.

Soils formed from acid igneous and basic igneous material vary in characteristics according to the age of rocks and topography. The soils on steep slopes from geologically young rocks tend to be medium textured, shallow, and stony. There are minor areas of lava flows that are so young as to be without soil. The soils forming on gently slopes from older rocks tend to be moderately deep, medium to moderately fine textured, and relatively stone-free.

Soils forming from pyroclastic rocks tend to be fine textured and moderately deep to deep on gentle slopes, and moderately fine textured and shallow to moderately deep on steep slopes.

Soils formed from glacial deposits tend to be deep, porous, and stony.

Progressing from the Cascade foothills toward the Cascade Mountains crest, the following groups of soils will be found: Reddish-Brown Laterites, Yellowish Brown Lateritics, Brown Podzolics, and Podzols. There may be minor areas of Regosols and Lithosols.

Soil Characteristics and Land Capability

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

Use	Acres
<u>Inventory Acreage</u>	
Cropland.....	150,662
Pasture.....	29,061
Range.....	0
Forest and Woodland.....	171,500
Other Land.....	12,833
Total inventory acres.....	364,056
Percent in inventory acreage..	80.23%
<u>Non-Inventory Acreage</u>	
Federal Land.....	68,581
Urban and Build-up areas.....	18,885
Water Areas.....	2,238
Total non-inventory acres.....	89,704
Total land area.....	453,760

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

Oregon's land varies widely in its capability for agricultural use. Because of this, a capability classification system has been developed that is intended to show their suitability for most kinds of farming.

The classes are based on limitations of the soil, damage when they are used, and the way they respond to treatment. The classes are designated by Roman numerals I through VIII with I having the least number of limitations and VIII having the most.

The classes are divided into subclasses designated E, W, S, or C. The subclasses indicate the limiting factor of the particular soil. E shows that the main limitation is erosion, W shows that water in or on the soil interferes with plant growth or cultivation, S indicates that the soil is stony, shallow, or droughty, and C shows that the chief limitation is the climate.

Table 6. Use of Inventory Acreage by Capability Class and Subclass, Yamhill County, 1958 and 1975

Class	CROPLAND 1,000 acres		PASTURE-RANGE 1,000 acres		FOREST WOODLAND 1,000 acres		OTHER LAND 1,000 acres		TOTAL 1,000 acres	
	1958	1975	1958	1975	1958	1975	1958	1975	1958	1975
I.....	10.5	9.7	---	---	.1	---	1.7	1.7	12.3	11.4
II.....	65.3	63.9	3.9	4.5	6.8	5.1	5.2	5.3	81.2	78.8
E.....	4.8	4.6	1.0	.9	3.3	2.9	.4	.4	9.5	8.8
W.....	24.1	22.9	.3	1.0	1.3	1.1	1.8	1.9	27.5	26.9
S.....	36.4	36.4	2.6	2.6	2.2	1.1	3.0	3.0	44.2	43.1
III.....	43.2	42.2	5.2	6.2	10.4	9.1	1.8	1.9	60.6	59.4
E.....	25.8	26.4	3.3	3.2	9.4	8.3	1.5	1.6	40.0	39.5
W.....	17.1	15.6	1.8	2.9	1.0	.8	.3	.3	20.2	19.6
S.....	.3	.2	.1	.1	---	---	---	---	.4	.3
IV.....	24.5	20.7	7.1	12.2	16.0	15.4	3.0	1.0	50.6	49.3
E.....	19.7	16.0	7.0	9.6	15.6	15.3	.8	.9	43.1	41.8
W.....	4.8	4.7	---	2.5	.4	.1	2.2	.1	7.4	7.4
S.....	---	---	.1	.1	---	---	---	---	.1	.1
I-IV....	143.5	136.5	16.2	22.9	33.3	29.6	11.7	9.9	204.7	198.9
VI.....	3.4	2.6	5.8	5.5	85.2	83.5	.2	1.0	94.6	92.6
E.....	3.4	2.6	5.8	5.5	85.2	83.5	.2	1.0	94.6	92.6
VII.....	1.3	.5	3.1	2.5	61.6	60.9	---	.9	66.0	64.8
E.....	1.3	.5	3.1	2.5	61.6	60.9	---	.9	66.0	64.8
V-VII...	4.7	3.1	8.9	8.0	146.8	144.4	.2	1.9	160.6	157.4
VIII....	---	---	---	---	---	---	.2	.2	.2	.2
Total...	148.2	139.6	25.1	30.9	180.1	174.0	12.1	12.0	365.5	356.5

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

Table 7. Estimates of Needs for Conservation Treatment on Expected Acreage of Land in 1975, By Classification, Yamhill County

Classification	Total Acreage	Acreage Needing Treatment And Feasible to Treat
<u>Irrigated Cropland</u>	35,000	14,500
Land on which the dominant problem is:		
Erosion by water, wind or both.....	3,700	1,900
Excess water.....	6,500	4,300
Unfavorable soil conditions.....	18,300	8,300
<u>Nonirrigated Cropland</u>	104,800	59,400
Land on which the dominant problem is:		
Erosion by water, wind or both.....	46,500	25,600
Excess water.....	36,700	25,300
Unfavorable soil conditions.....	18,300	8,400
<u>Pasture Land</u>	30,900	22,900
Type of treatment needed:		
Establishment of vegetation.....		12,400
Improvement of vegetation.....		4,500
Protection of vegetative cover.....		12,500
Water management.....		1,200
<u>Grazed Woodland</u>	18,400	14,000
Type of treatment needed:		
Establishment of vegetation.....		3,000
Improvement of vegetation.....		10,000
<u>Forest and Woodland</u>	174,000	
Description of problems:		
Establishment of timber stand.....		30,000
Improvement of timber stand.....		42,000
Erosion control.....		20,000
Establishment of shelter belts.....		---
<u>Other Land</u>	12,000	3,800 (in farms)
Land on which the dominant problem is:		
Erosion.....		3,800
Excess water.....		2,300
Unfavorable soil conditions.....		3,200

SOURCE: Oregon Conservation Needs Committee, Oregon Soil and Water Conservation Needs Inventory, U.S. Soil Conservation Service, September 1963.

Land Ownership

Table 8. Public Land Ownership, Yamhill County, 1964

Ownership	Acres	Percent
Total land area.....	453,760	100.0
Total Public.....	86,053	19.0
Federal.....	68,581	15.1
State.....	1,840	0.4
Local.....	15,632	3.4

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

Table 9. Federal Land Ownership by Agency, Yamhill County, 1962

Agency	Acres
Department of Agriculture Agricultural Research Service....	25,447
Department of Defense Air Force.....	27
Department of Interior Bonneville Power.....	6
Bureau of Land Management Oregon and California Railroad Revested Land.....	41,456
Public Domain.....	1,645
Total BLM.....	43,101
Post Office Department.....	1

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

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

Department	Acres	Land Value	Improv. Value	Total Value	Annual Rental Inc.
Department of Forestry....	41.00	\$ 51	\$ 17,470	\$ 17,521	---
Division of State Land....	93.02	124,000	---	124,000	---
Military Department.....	3.90	140,000	344,890	484,890	---
Highway Division Office & Maintenance....	4.30	32,170	80,035	113,205	---
Parks.....	54.74	4,807	73,733	78,540	\$240
Totals.....	196.96	301,028	516,128	817,156	\$240

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

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

Category	Acres
State Highways.....	1,600
County Roads.....	5,495
City Streets.....	565
Total.....	7,660

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

Land Use

Table 12. Land Use in Yamhill County, 1964

Use Categories	Percent of Total Land Area
Urban.....	1.70
Industrial.....	--
Military.....	--
Intensive agriculture.....	45.16
Dryland farming.....	--
Forests.....	52.71
Parks.....	--
Conservation.....	--
Grazing.....	--
Non-productive land.....	.43
Total land area.....	100.00

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

Agricultural Land

The land base for agriculture consists of 133,061 acres of cropland, 42,801 acres of woodland, and 51,693 acres of other farm land.

About 50 percent of the county area, or 133,061 acres, is in cropland. The major use of the cropland is for the production of small grains, hay crops, grass seeds, and fruits and vegetables.

Table 13. Land in Farms, Yamhill County, 1964 and 1969

Item	1964	1969
Total land area in acres.....	455,045	454,784
Proportion in farms.....	50.0	50.0
Acres in farms.....	254,975	227,555
Cropland harvested.....	108,825	94,128
Cropland pasture.....	15,825	22,378
Other cropland.....	15,702	16,555
Woodland including woodland pasture.....	67,459	42,801
Other land.....	47,619	51,693
Irrigated land.....	19,218	19,943

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

Forest Land

The forest land of the basin may be divided into four distinct zones on the basis of ecology, climate, and other factors. The major uses of the forest land are for the production of crops of commercial timber, for outdoor recreation, and for watershed protection; but uses for wildlife habitat and livestock pasture are also important. The emphasis placed on these uses varies considerably by ownership and zone.

Timber harvesting and lumber production reached a peak between 1943 and 1956 and have declined sharply since; but the plywood and wood fibre products industries have continued to expand. Timber harvest from private land has decreased while timber harvest from public land has increased. As the old growth timber is gradually replaced by young stands, the structure of wood-using industries will probably change and water requirements for wood-using industries will be greater.

The basin's forest areas have many natural attractions that make them desirable for recreation, such as lakes, fishing streams, outstanding scenery, a relatively abundant wildlife population, suitable hunting terrain, and thousands of acres of roadless wilderness. Forested areas attract many recreational visitors.

The forest lands support a large and varied wildlife population, but grazing of forest land by livestock is also important.

Since most of the annual water yield from the basin originates on forest land, management practices on this land have an important influence on quality, quantity, and timing of water yield. Uses of water on forest land include requirements for plant growth, domestic, recreation, livestock, wildlife, fishlife, industrial, and other purposes. The total water requirements are expected to increase greatly as forest land is used more heavily and managed more intrusively.

Table 14. Forest Acreage, Ownership and Use, Yamhill County, 1963

Item	Acres	Percent
LAND		
Total land.....	454,000	100
Forest land.....	258,000	57
Commercial.....	258,000	57
Noncommercial.....	---	--
Nonforest land.....	196,000	43
OWNERSHIP		
Commercial forest land.....	258,000	100
Private.....	192,000	74
Forest industry.....	90,000	35
Farmer and misc. private.....	102,000	39
Public.....	66,000	26
National forest.....	23,000	9
Bureau of Land Management.....	43,000	17

SOURCE: U.S. Forest Service, Forest statistics publications for various Oregon regions, Resource Bulletin PNW-7, Pacific Northwest Experiment Station.

Table 15. Volume of Sawtimber by Ownership, Yamhill County, 1961

Ownership	Millions of Bd. Ft.	Percent
Total commercial sawtimber.....	3,146	100
Forest industry.....	697	22
Farmer and misc. private.....	563	18
National forest.....	752	24
Other public.....	1,134	36

SOURCE: U.S. Forest Service, Forest statistics publications for various Oregon regions, Resource Bulletin PNW-7, Pacific Northwest Experiment Station.

Table 16. Timber Harvest by Ownership, Yamhill County, 1970

Ownership	Thousands of Board Feet
Private	
Forest industry.....	11,803
Other.....	3,054
Total.....	14,857
Bureau of Land Management.....	22,574
National forest.....	2,081
Indian.....	---
Other federal.....	---
State.....	---
Other public.....	150
Total timber harvest.....	39,662

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

Table 17. Volume of Growing Stock and Sawtimber on Commercial Forest Land, By Species, Yamhill County, 1961

Species	Millions of Bd. Ft.	Percent
All species.....	3,146	100
Softwoods.....	2,450	78
Douglas Fir.....	2,395	76
Grand Fir.....	15	1
Sitka Spruce.....	4	--
Western Hemlock.....	36	1
Hardwoods.....	696	22
Black Cottonwood and Aspen.....	15	--
Red Alder.....	362	12
Bigleaf Maple.....	92	3
Oregon White Oak.....	206	6
Oregon Ash.....	21	1

SOURCE: U.S. Forest Service, Forest statistics publications for various Oregon regions, Resource Bulletin PNW-7, Pacific Northwest Experiment Station.

Water

Surface drainage in Yamhill County is carried out by the Willamette River and its tributaries. The county is divided into 10 watersheds described below.

Monthly flows are high from November to April and low during the late summer months, closely following seasonal precipitation patterns except for some modification on those streams originating in the Cascades.

A. North Yamhill River watershed covers 78,550 acres in northwestern Yamhill County within the Yamhill County Soil Conservation District. Elevations range from 100 ft. to 3,000 ft. The river flows southeasterly from the Coast Range and joins the South Yamhill River about 2 miles east of McMinnville.

Flood water damage is usually not very extensive. The flood plain area is relatively small and, with the exception of the mill at Carlton, has no major nonagricultural developments. There is considerable sheet erosion on the grazed forest land, much of which is too steep and erodable for the present intensity of use. The watershed produces sufficient water to irrigate all of the arable land, but there are inadequate flows during the irrigation season. Water right applications have been filed for approximately 2,122 acres in this watershed. Five storage areas of the watershed have a combined potential storage for nearly 39,000 acre feet.

B. Chehalem Creek watershed occupies 26,320 acres in northeastern Yamhill County within the Yamhill County Soil Conservation District. It is about 10 miles long and 7 miles wide at the widest point. Elevations range from 75 ft. to 900 ft. Average annual rainfall is 40 to 42 inches.

An estimated 2,000 acres are flooded to some extent; about 350 acres of pasture are flooded annually. The land is wet and poorly drained, so flooding causes very minor damage. About 250 acres of cropland are flooded. There is some slight annual damage to farm facilities and roads. Channel improvement will relieve this problem. Approximately 7,500 acres are suitable for irrigation, but development of an adequate water supply is required.

C. Panther Creek occupies about 18,510 acres northwest of McMinnville in central Yamhill County within the Soil Conservation District. Elevations range from 100 ft. to 2,159 ft. The annual average precipitation is 65 inches.

Overflow of the channel and flooding of the adjacent lands occurs annually on approximately 150 acres of bottom land pasture. The cause of flooding appears to be inadequate channels restricted by vegetation and debris. Damage is minor and monetary loss slight. At present only 270 acres are under irrigation, but estimates show an additional 2,500 acres of land suitable for irrigation.

D. Baker Creek watershed covers an area of 16,860 acres in central Yamhill County within the Soil Conservation District. The watershed is about

10 miles long and 2 to 4 miles wide. Elevations in the valley are from 100 ft. to 2,300 ft. The annual average precipitation increases from about 44 inches in the east to 70 inches on the west boundary.

Approximately 50 acres of cropland and 150 acres of pasture land are subject to annual flooding. Damage is slight in most years, but occasionally flooding causes sheet erosion and deposition of logs and debris. Additional irrigation water is needed on land presently irrigated late in the season and to irrigate the estimated 3,500 acres of additional irrigable land.

E. Deer Creek watershed covers an area of 34,750 acres in southwestern Yamhill County within the Soil Conservation District. The watershed is about 13 miles long and 4 to 8 miles wide. Elevations range from 140 ft. to 2,200 ft. The annual precipitation in the lower watershed is about 46 inches and increases to over 70 inches in the higher elevations.

Approximately 1,000 acres are flooded along Deer and Muddy Creeks damaging late fall crops and early spring crops. There is slight stream bank erosion on the upper reaches. It is estimated that 12 acres of cropland are lost each year near the confluence of Deer Creek and the South Yamhill River. Considerable sheet and gully erosion is occurring under the present grazing use. Approximately 720 acres of cropland are irrigated, and an estimated 7,450 acres could be developed for irrigation.

F. Willamina Creek watershed occupies an area of 52,230 acres in Yamhill and Tillamook Counties. Elevations range from 220 to 2,600 feet. The average annual precipitation is about 50 inches in the lower watershed to 80 inches in the upper elevations.

Annual overflow from channels floods about 400 acres of cropland. Fall grain crops are drowned out and both spring and fall grains suffer from seepage and wet spots. Flood water damage to buildings and urban areas is very minor. Stream bank erosion is a problem in some areas along the main creek. There are irrigation rights filed for 7.98 cfs covering 700 acres, but only about 550 acres are being irrigated. With additional water development, 1,500 acres of cropland could be irrigated.

G. Cosper Creek watershed covers an area of 6,370 acres in southwestern Yamhill County in the Yamhill County Soil Conservation District. It is about 8 miles long and averages about 1 mile wide. Elevations range from 300 to 1,600 ft. The average annual precipitation is about 68 inches.

Very little flood-related damage occurs in this watershed. Some stream bank erosion occurs, but damage is slight. Approximately 180 acres are flooded along the lower reaches of the channel.

There is an estimated 1,320 acres that are suitable for irrigation. Existing water supply is adequate for only about 100 acres.

H. Agency Creek watershed, a tributary of the South Yamhill River in southwestern Yamhill County covers 16,660 acres. It is in the Soil Conservation

District. It is about 10 miles long and 2 to 3 miles wide. Elevations range from 320 ft. to 2,900 ft. The rainfall varies from 64 to 100 inches.

Flooding occurs annually on approximately 400 acres, mostly pasture land. There is some bank cutting and erosion in the watershed. It is estimated that there are 1,500 acres of land that are suitable for irrigation.

I. Upper South Yamhill watershed is in northwest Polk County and southwestern Yamhill County. It covers an area of 67,650 acres and is the upstream portion of the South Yamhill River and is partly in the Yamhill County Soil Conservation District. Elevations vary from 200 to 3,400 feet. Annual precipitation is variable from 46 to 100 inches.

There is a slight problem of flooding on the lowlands during spring runoff with approximately 400 acres being flooded annually. Some stream bank erosion also exists. It is estimated that 4,500 acres of additional land is suitable for irrigation.

J. Palmer Creek watershed occupies an area of about 21,380 acres in southeastern Yamhill County in the Soil Conservation District. The watershed is 11 1/2 miles long and 4 1/4 miles wide at the widest point. Elevations range from 80 to 1,100 feet. The annual precipitation is about 34 inches.

Approximately 580 acres of bottom lands are flooded annually. There is annual damage from high waters to several roads crossing Palmer. It is estimated that 12,500 acres of land are suitable for irrigation with water being available for early season irrigation on 1,000 acres without storage.

Table 18. Surface Water Gaging Stations, Yamhill County, 1966

Station	Drainage Area sq. mi.	Gage Datum ft. MSL	Years of Record
Haskin Cr. above Idlewild nr. McMinnville.....	3.8	1,370	3
Haskin Cr. nr. McMinnville.....	6.48	815	23
Haskin Cr. below reservoir nr. McMinnville.....	6.9	707	15
Haskin Creek below reservoir nr. McMinnville.....	6.9	707	14
North Yamhill R. nr. Pike.....	47.8	249.22	11
North Yamhill R. nr. Pike.....	66.8	196.66	18

SOURCE: State Water Resources Board, River Basin Reports.

Table 19. Surface Discharge in CFS and Acre-Feet for Water Year 1967-68 ^{1/}

River	Max.	Min.	Mean	Acre/Feet
South Yamhill nr. Willamina.....	7,480	20	596.8	424,450
Willamina Cr. nr. Willamina.....	2,630	17	243.4	175,540
Mill Cr. nr. Willamina.....	2,230	5.2	137.5	98,795
North Yamhill.....	436	4.2	47.1	34,019
Haskin Cr. Res. nr. McMinnville....	---	---	---	---
Haskin Cr. below reservoir.....	283	2.9	30.8	22,150

^{1/} CFS - cubic foot per second is the rate of discharge of a stream whose channel is 1 sq. ft. in cross sectional area and whose average velocity is 1 ft. per second.

Acre-Foot - (ac.-ft.) is the quantity of water required to cover an acre to the depth of 1 foot and is equivalent to 43,560 cubic feet.

SOURCE: State Water Resources Board, River Basin Reports.

Table 20. Dam and Reservoir Sites, Yamhill County, 1963

Site Name	Stream	Dr. Area Sq. Mi.	Average Annual Yield Ac.-Ft.	Purpose ^{1/}	Reservoir		Source No.
					Max. Pool Area Acres	Total Storage Ac.-Ft.	
Agency Creek...	Agency Creek	18	61,800	I-FC-R	130	3,640	1
Baker Creek....	Baker Creek						4
Baker Creek....	Baker Creek	15	23,700	I-FC-R	44	700	1
Buck Hollow....	Willamina Creek	61	166,000	I-FC		160,000	2
Carlton Water Supply.....	Panther Creek	3		M			5
Cedar Creek....	South Yamhill River	15	46,000	I-FC		58,000	2
Coast Creek....	Coast Creek	9	22,600	I-R	81	2,920	1
Cosper Creek...	Cosper Creek	4	10,200	I-FC-R	44	700	1
Cozine Creek...	Cozine Creek	2	2,400	I-R	69	1,550	1
Deer Creek.....	Deer Creek			I			2
Deer Creek #1..	Deer Creek	33	56,400	I-FC-R	174	1,440	1
Deer Creek #2..	Deer Creek	26	44,600	I-FC-R	125	2,000	1
Deer Creek #4..	Deer Creek	11	23,000	I-FC-R	100	2,880	1

Table 20, cont. Dam and Reservoir Sites, Yamhill County, 1963

Site Name	Stream	Dr. Area Sq. Mi.	Average Annual Yield Ac-Ft	Purpose ^{1/}	Reservoir		Source No.
					Max. Pool Area Acres	Total Storage Ac-Ft	
Dupee Creek.....	Dupee Creek	4	5,600	I-R	69	1,300	1
Fairdale, Lower.	North Yamhill River						4
Fairdale, Upper.	North Yamhill River	25	89,500	I-FC-R	168	3,630	1
Lower Baker Cr..	Baker Creek	23	36,600	I-FC-R	187	1,050	1
Moore's Valley...	Haskins Creek	15	46,700	I-FC-R	567	24,500	1
Muddy Creek, L..	Muddy Creek	12	18,400	I-FC-R	131	1,520	1
Muddy Creek, U..	Muddy Creek	7	9,700	I-FC-R	268	5,360	1
Palmer Creek....	Palmer Creek	33	22,000	I-R		11,600	1
Panther Creek...	Panther Creek						4
Pike, Lower.....	North Yamhill River	66		FC-I			2
Pike, Upper.....	North Yamhill River	46		I-FC			3
Rock Creek.....	Rock Creek	6	9,200	I-FC-R	137	3,670	1
Tindle Creek....	Tindle Creek	6	11,100	I-FC-R	87	1,740	1
Turner Creek....	Turner Creek		35,200	I-FC-R	143	3,090	1
Unnamed.....	Unnamed trib. of N. Yamhill River	5	7,600	I-FC-R	150	6,000	1
Unnamed.....	Unnamed trib. of N. Yamhill River	4	5,000	I-FC-R	212	1,530	1
Willamina Cr, L.	Willamina Creek	67	163,400	I-FC-R	560	22,180	1
Willamina Cr, U.	Willamina Creek	25	60,400	I-R	116	3,800	1
Yamhill Project Diversion.....	Willamina Creek			I			3

^{1/} Purposes: M-Municipal, I-Irrigation, R-Recreation, FC-Flood Control

SOURCES: 1 - U.S. Department of Agriculture

2 - U.S. Army, Corps of Engineers

3 - Bureau of Reclamation

4 - Willamette River Basin Commission

5 - City of Carlton

Table 21. Sewage Treatment Plants, Yamhill County, 1969

Location	Year Built	Type ^{1/}	Design Population	Population Served	Stream
Carlton.....	1955	TF	1,500	1,100	N. Yamhill River
Dayton.....	1965	L	1,000	1,000	Yamhill River
Lafayette.....	1964	L	1,000	600	Yamhill River
Trappist Foundation.	1956	TF	150	100	Cr. to Yamhill R.
McMinnville.....	1953-64	TF	8,000	8,600	S. Fork Yamhill R.
Newberg.....	1949-63	AS	8,000	4,500	Willamette River
Sheridan.....	1955	TF	2,500	1,800	S. Fork Yamhill R.
Novitiate.....	1956	TF	200	150	S. Fork Yamhill R.
Willamina.....	1966	L	2,000	1,100	Willamina Cr.
Yamhill.....	1964	AD	750	510	Yamhill Cr.
Yamhill County Camp...	1941	TF	1,300	1,700	S. Yamhill River

^{1/} Type of treatment: TF - Trickling Filter, L - Lagoon, AD - Aerobic Digestion, AS - Activated Sludge.

SOURCE: Oregon State Department of Environmental Quality, Water Control in Oregon, Oregon Sanitary Authority, 1970.

Table 22. Industrial Waste Sources, Yamhill County, 1969

Source	Type of Waste	Treatment
Publishers Paper Co.....	Sulfite mill waste	Primary treatment facilities
Sheridan Pressure Treatment...	Wood treating wastes	Evaporation system for chemical concentrations

SOURCE: Oregon State Department of Environmental Quality, Water Control in Oregon, Oregon Sanitary Authority, 1970.

Watershed Protection and Flood Prevention Projects

Table 23. Opportunities for Watershed Protection, Yamhill County

Watershed	Project Possibilities
Coast Range Basin:	
A. North Yamhill River.....	<u>Appears to be feasible</u> - project includes irrigation, drainage, and municipal water storage.
B. Chehalem Creek.....	<u>Appears to be feasible</u> - project includes irrigation expansion, stream channel clearing, drainage.
C. Panther Creek.....	<u>Appears to be feasible</u> - project includes flood protection, irrigation, land treatment, and municipal water storage.
D. Baker Creek.....	<u>Appears to be feasible</u> - project includes some flood protection, irrigation.
E. Deer Creek.....	<u>Might be feasible</u> - project includes irrigation and flood protection.
F. Willamina Creek.....	<u>Not feasible</u> - under existing conditions and laws.
G. Cospers Creek.....	<u>Not feasible</u> - insufficient benefits, not feasible under existing conditions and laws.
H. Agency Creek.....	<u>Might be feasible</u> - if intensive agriculture is developed to support cost of irrigation and drainage.
I. Upper South Yamhill.....	<u>Not feasible</u> - benefits do not outweigh the costs.
J. Palmer Creek.....	<u>Appears to be feasible</u> - project includes irrigation, drainage.

SOURCE: State Water Resources Board and U.S.D.A. cooperating, Middle Willamette River Basin, 1962.

Water-based Recreation

It is no coincidence that most of the public outdoor recreational facilities in the county are adjacent to lakes or streams. A wide variety of activities are characteristic. Boating, swimming, fishing, and water skiing are all very popular, but pollution has tended to limit their attractiveness. Picnicking and camping are very popular with the in- and out-of-staters.

Yamhill streams have an extensive fishlife population. Recreational fishing is good during the year. There is a varying number of species. Salmonoids include chinook and silver salmon and rainbow, steelhead, cutthroat

trouts. The most common warm water species include suckers, squawfish, carp, catfish, perch and chiselmouth. The abundance of trash fish constitutes a major problem in the county.

Table 24. Fishing Abundance, Yamhill County, 1967

Species	Stream	Spring	Summer	Fall
Warm Water.....	Willamette	Light	Light	Light
Salmon.....	Willamina	Light		
Salmon.....	Yamhill	Light		
Warm Water.....	Yamhill	Light	Light	Light

SOURCE: Oregon State Game Commission, Lands Division, Willamette River - Main Stem; Master Plan for Angler Access and Associated Recreational Uses, February 1967.

Minerals

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

Activity in the county pits is incomplete. Value of these resources was estimated by the U.S. Bureau of Mines at \$585,000 in 1970. Sand and gravel are the most important income producing minerals in the county. Their importance to road construction is top on the list. Concrete, gypsum, and plaster products are also products of importance in the mineral industry.

Wildlife

The most numerous big game species in the county are the Columbia black-tailed deer and the mule deer. Hunting pressure is variable depending on accessibility.

There are several game bird species in the county, including ring-necked pheasants, valley quail, bobwhite quail, mourning doves, and pigeons. The population of most game bird species has been stable in recent years despite hunting pressures. The most common game bird species in the county are band tailed pigeons, blue grouse, ruffed grouse, and mountain quail.

Many species of furbearers including beaver, otter, mink, muskrat, racoon, skunk, civet cat, badger, gray fox, red fox, wildcat, coyote, nutria, weasel, and marten are represented.

Spring chinook, salmon, cutthroat and steelhead trout migrate into the county annually to spawn. Lakes, streams, and reservoirs contain nearly all the game species found in Oregon. The lowland streams contain warm water

species such as large mouth and small mouth bass, white and black crappie, bullhead catfish and blue-gill. Streams and lakes in the mountains with cool water temperatures contain several species of trout.

For additional information see Water-based Recreation under the Physical Aspects section and Outdoor Recreation under The County's Economy section.

HUMAN RESOURCES

Population

The population of Yamhill County was approximately 42,190 in 1972, or 59.1 persons per square mile. Approximately 65.6 percent of the people live in urban areas and 34.4 percent in farm and rural nonfarm areas. The county seat is McMinnville with a population of 11,950. Yamhill ranks thirteenth in the state in regard to total population.

The following table gives a breakdown of Yamhill County's population by race.

Table 25. Number of Persons by Racial Group for Yamhill County, 1970

Racial Group	Number of Persons
Total.....	40,213
Caucasian.....	38,307
Spanish Language.....	1,193
Black.....	62
American Indian.....	334
Other.....	317

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

Table 26. Yamhill and Bordering Counties, Population and Rank Order in Oregon, 1972

County	Rank	Population
YAMHILL.....	13	42,190
Tillamook.....	23	18,400
Polk.....	15	37,060
Marion.....	5	157,200
Washington.....	4	178,300
Clackamas.....	3	178,400

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

Table 27. Land Area and Population Density, Yamhill County, 1970

County	Land Area	Population Density
	square miles	persons/sq. mi.
YAMHILL.....	714	59.10
Tillamook.....	1,115	16.50
Polk.....	708	52.34
Marion.....	1,175	133.79
Washington.....	716	249.02
Clackamas.....	1,893	94.23

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.

Population growth in Yamhill County has been increasing in recent years, but between 1950 and 1960 the county's growth rate was approximately -3.0%. During this period, there was a considerable number of people who left the area. During the period 1960 - 1970, the rate increased immensely, by approximately 30%.

Table 28. Population Growth, Yamhill County

Year	Population	Percent Increase	
		Period	Percent
1910.....	18,285	---	---
1920.....	20,529	1910-1920	12.3
1930.....	22,036	1920-1930	7.3
1940.....	26,336	1930-1940	20.8
1950.....	33,484	1940-1950	27.1
1960.....	32,478	1950-1960	-3.1
1965.....	39,900	1960-1965	22.8
1970.....	40,213	1965-1970	0.8
1972.....	42,190	1970-1972	4.9

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

Table 29. Components of Change in Yamhill County's Population, 1940-1970

Years	Net Change	Natural Increase	Net Migration
1940-1950.....	7,148	3,466	3,682
1950-1960.....	-1,006	3,894	-4,900
1960-1970.....	7,735	1,940	5,795

SOURCES: Oregon State Board of Census, Components of Population Growth, Population Bulletin P-3, 1961.
Bureau of Business and Economic Research, Oregon Economic Statistics 1972, University of Oregon, 1972.

Table 30. Urban and Rural Population Changes, Yamhill County, 1950 - 1970

Year	Urban		Rural	
	Population	Percent Change	Population	Percent Change
1950.....	10,581	---	22,903	---
1960.....	11,861	12.1	20,618	-10.0
1970.....	16,632	+40.2	23,581	+14.3

SOURCE: Mid Willamette Valley Council of Governments, Population Growth in the Mid Willamette Valley, Annual Series, Issue No. 5, January 1971.

Table 31. Population Estimates of Incorporated Cities,
Yamhill County, 1960, 1965, 1971, and 1972

City	1960	1965	1971	1972
Amity.....	620	630	760	795
Carlton.....	959	1,060	1,190	1,215
Dayton.....	673	1,044	1,022	1,065
Dundee.....	318	376	700	780
Lafayette.....	553	632	830	940
McMinnville.....	7,656	8,600	11,345	11,950
Newberg.....	4,204	4,500	7,290	7,635
Sheridan.....	1,763	1,800	1,940	1,970
Willamina.....	960	1,115	1,250	1,260
Yamhill.....	455	506	525	540
Incorporated Area.....	17,967	19,881	26,351	27,645
Unincorporated Area.....	14,511	20,019	15,109	14,545
Total.....	32,478	39,900	41,460	42,190

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

Table 32. Population by Age and Sex, Yamhill County, 1960 and 1970

Age Group	Male		Female		Total	
	1960	1970	1960	1970	1960	1970
Under 5.....	1,436	1,521	1,460	1,438	2,896	2,959
5-9 years.....	1,674	1,891	1,660	1,842	3,334	3,733
10-14 years.....	1,707	2,173	1,638	2,100	3,345	4,273
15-19 years.....	1,461	2,234	1,401	2,165	2,862	4,399
20-24 years.....	910	1,391	831	1,514	1,741	2,905
25-34 years.....	1,502	2,074	1,557	2,048	3,059	4,122
35-44 years.....	1,858	1,984	2,057	2,163	3,925	4,147
45-54 years.....	1,898	2,216	1,870	2,276	3,798	4,402
55-64 years.....	1,611	1,893	1,662	2,017	3,273	3,910
65-74 years.....	1,343	1,455	1,368	1,662	2,711	3,117
75 yrs. and over..	725	941	839	1,305	1,564	2,246
Under 18 yrs.....		7,066		6,733		13,799
62 yrs. and over..		2,883		3,550		6,433
65 yrs. and over..	2,058	2,396	2,207	2,967	4,275	5,363
Median age.....	31.0	27.9	32.7	30.6	31.9	29.2

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.

The composition of the county's population by age and sex is almost the same as that of the State of Oregon. In 1970 about 34.3 percent of the county's population was under 18 years of age, 52.4 percent in the 18 to 64 age group and the remaining 13.3 percent 65 years of age or older. The median age in 1970 was 21.2 years of age. Composition by sex in the county is 48.95 percent males and 51.05 percent females.

Table 33. Population of Selected Cities by Age and Sex, Yamhill County, 1970

Age Group	McMinnville	Newberg
Under 5.....	706	487
5-9 years.....	800	559
10-14 years.....	903	559
15-19 years.....	1,250	661
20-24 years.....	1,076	635
25-29 years.....	551	365
30-34 years.....	464	294
35-39 years.....	438	284
40-44 years.....	490	315
45-49 years.....	609	316
50-54 years.....	508	310
55-59 years.....	501	293
60-64 years.....	407	274
65-69 years.....	374	247
70-74 years.....	369	295
75-79 years.....	309	613 <u>1/</u>
80-84 years.....	224	
85 yrs. and over.....	146	
Under 18 yrs.....	3,045	1,952
62 yrs. and over.....	1,673	---
65 yrs. and over.....	1,422	1,155
Median age.....	28.0	30.1
Total population.....	10,125	6,507
Male.....	4,802	2,983
Female.....	5,323	3,524

1/ 75 years and over

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

Employment

The Oregon State Department of Employment reported in 1971 that the annual average civilian labor force in the county was 14,950 or 35 percent of the total population. At that time, the unemployment rate was 9.8 percent of the total labor force or about 1,460 unemployed.

The 1970 Census of Population shows that 14,634 people were employed in the county out of the total labor force of 15,791. About 9 percent of those employed worked in agriculture and forestry. However, this does not include the large number of seasonal workers employed in growing and harvesting crops during June, July, and August. About 24 percent of those employed worked in manufacturing, with lumber and wood products employing 4 percent. About 20 percent work in the retail trade, 4 percent in personal services, 12 percent in educational services, and about 6 percent were employed in construction.

Table 34. Employment Status, Yamhill County, 1970

Subject	Number
Total males, 16 years and over.....	13,611
Total labor force.....	9,811
Armed Forces.....	---
Civilian labor force.....	9,730
Employed.....	9,076
Unemployed.....	654
Not in labor force.....	3,800
Inmate of institution.....	178
Enrolled in school.....	1,204
Other	
Under 65 years.....	725
Over 65 years.....	1,693
Total females, 16 years and over...	14,702
Total labor force.....	5,980
Employed.....	5,558
Unemployed.....	422
Not in labor force.....	8,722
Inmate of institution.....	353
Enrolled in school.....	1,277
Other	
Under 65 years.....	4,711
Over 65 years.....	2,381
Married, (husbands present)....	9,367

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 35. Percent of Age Group in Labor Force, Yamhill County, 1970

Age Group	Female	Male
Years:		
14-15.....	4.8	13.4
16-17.....	22.9	38.3
18-19.....	46.3	47.5
20-21.....	51.4	67.9
22-24.....	53.0	88.9
25-34.....	45.9	96.4
35-44.....	53.9	95.9
45-64.....	52.5	87.4
65 and over.....	8.4	23.6

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 36. Industry Group of Employed, Yamhill County, 1970

Industry	Number Employed
Total employed, 16 years and over.....	14,634
Agriculture, forestry.....	1,322
Mining.....	16
Construction.....	911
Manufacturing.....	3,466
Furniture, lumber and wood products.....	647
Food and kindred products.....	476
Other.....	2,343
Transportation.....	427
Communications.....	160
Wholesale trade.....	422
Retail trade.....	1,550
Business services.....	1,005
Personal services.....	542
Hospitals.....	892
Educational services.....	1,705
Professional and related services.....	256
Public administration.....	262
Utilities and sanitary services.....	159

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 37. Yamhill County Occupations, 1970

Occupation	Number Employed	
	Male	Female
Total employed 16 years old and over.....	9,076	5,558
Professional, technical, and kindred workers.....	1,863	861
Engineers.....	101	---
Physicians and related practitioners.....	122	129
Other health workers.....	170	46
Teachers.....	579	360
Technicians, except health....	97	11
Other professional workers....	794	315
Managers and administrators.....	1,116	187
Sales workers.....	809	377
Clerical and kindred workers....	2,046	1,698
Craftsmen and kindred workers....	2,178	104
Operative except transport.....	1,933	654
Transport.....	710	45
Laborers except farm.....	714	72
Farmers and farm managers.....	688	66
Farm laborers.....	475	85
Service workers.....	1,947	1,254
Cleaning.....	416	104
Health.....	321	309
Personal.....	212	154
Protective.....	154	6
Private household.....	155	155

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 38. Number of Hired Seasonal Workers in Agriculture by Type of Worker, McMinnville Area, Yamhill County, Midmonth Figures, 1971

Month	Local	Intrastate Migratory	Interstate Migratory
May.....	150	---	---
June.....	2,245	400	375
July.....	1,010	10	150
August.....	2,385	300	260
September.....	695	---	---
October.....	450	---	---

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

Table 39. Median Earnings of Selected Occupation Groups, Yamhill County, 1969

Occupation Group	Earnings
Male, total with earnings.....	\$ 7,007
Professional, managerial, and kindred workers.....	9,306
Farmers and farm managers.....	3,125
Craftsmen, foremen, and kindred workers.....	7,661
Operatives and kindred workers..	7,061
Farm laborers.....	1,690
Laborers excluding farm and mine.....	4,604
Female, total with earnings.....	\$ 2,591
Clerical and kindred workers....	3,221
Operatives and kindred workers..	2,738

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 40. Number and Percent of Persons Unemployed in Yamhill and Bordering Counties, 1968 and 1971

County	1968		1971	
	Number of people	Percent of labor force	Number of people	Percent of labor force
YAMHILL.....	890	6.5	1,460	9.8
Tillamook.....	310	4.9	470	7.2
Polk and Marion.....	4,000	5.6	5,400	6.8
Multnomah, Washington, and Clackamas.....	15,500	3.6	28,800	6.1

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.

Table 41. Labor Force in Yamhill County, 1968-1971

Industry	Annual Average			
	1968	1969	1970	1971
Civilian Labor Force.....	13,730	14,030	14,930	14,950
Workers in Labor Management				
Disputes.....	0	0	0	0
Unemployment.....	890	900	1,460	1,460
Percent of Labor Force.....	6.5	6.4	9.8	9.8
Employment.....	12,480	13,130	13,470	13,490
Agriculture.....	2,470	2,220	2,370	1,960
Nonagricultural.....	10,370	10,910	11,100	11,530
Self-employed.....	1,430	1,470	1,490	1,540
Wage and Salary Workers.....	8,940	9,440	9,610	9,990
Manufacturing.....	2,670	2,950	2,900	2,980
Durable Goods.....	1,520	1,760	1,760	2,060
Lumber and Wood.....	870	830	720	860
Primary Metal.....	---	---	---	---
Other Durables.....	650	930	1,040	1,200
NonDurable Goods.....	1,150	1,190	1,140	920
Food Products.....	600	630	590	470
Paper.....	---	---	---	---
Other.....	550	560	550	450
NonManufacturing.....	6,270	6,490	6,710	7,010
Contract Construction.....	300	250	240	280
Transportation, Communication, Utilities.....	340	340	350	350
Wholesale and Retail Trade.....	1,840	1,950	1,960	2,090
Finance, Insurance, and Real Estate.....	470	490	520	530
Service and Miscellaneous.....	1,870	1,870	1,950	1,970
Government.....	1,450	1,590	1,690	1,790

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.

Table 42. Covered Payrolls and Employment by Industry, Yamhill County, 1970

Industry	Average Employment	Annual Payroll
Agriculture, forestry, and fisheries....	31	\$ 118,328
Mining.....	51	407,828
Contract construction.....	241	1,903,023
Lumber and wood products manufacturing..	725	5,965,714
Food and kindred products.....	563	3,548,070
Other manufacturing.....	1,584	12,600,002
Transportation, communication, and utilities.....	327	2,556,878
Wholesale and retail trade.....	1,959	8,519,913
Finance, insurance, and real estate.....	415	2,313,977
Services and miscellaneous.....	1,014	3,730,412
Government.....	1,813	1,711,759

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 43. Major Occupation Group of Employed, Yamhill County, 1970

Occupation Group	Number
Professional, technical, and kindred workers.....	52
Farmers and farm managers.....	--
Managers, excluding farm.....	--
Clerical and kindred workers.....	124
Sales workers.....	35
Craftsmen, foremen, and kindred workers.....	201
Operatives and kindred workers.....	363
Service workers.....	72
Farm laborers.....	121
Laborers, excluding farm and mine.....	79
Private household.....	--

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 44. Local Government Employees and Payroll, Yamhill County, 1967

Item	Employees and Earnings
Employees.....	1,235
Full-time only.....	840
Full-time equivalent employment.....	901
Education.....	601
Teachers only.....	447
Functions other than education.....	300
Highways.....	69
Public welfare.....	2
Hospitals.....	--
Health.....	21
Police protection.....	50
Fire protection.....	16
Sewerage.....	10
Sanitation other than sewerage.....	--
Parks and recreation.....	6
Natural resources.....	--
Housing and urban renewal.....	2
Corrections.....	4
Libraries.....	5
Financial administration.....	27
General control.....	28
Water supply.....	16
Other local utilities.....	34
Other and unallocable.....	10
October payroll.....	\$494,000
Education.....	343,000
Teachers only.....	281,000
Functions other than education.....	151,000
Average monthly earnings, full-time	
Teachers.....	\$628
Others.....	471

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 45. Net Effective Buying Income Estimates, Yamhill County, 1967 & 1970

Area	Net Dollars		Per Household	
	1967	1970	1967	1970
	- - thousand dollars - -		- - dollars - -	
Oregon.....	5,224,888	6,650,690	8,113	9,440
Yamhill County....	79,623	102,274	6,864	7,990

SOURCE: Bureau of Business and Economic Research, Oregon Economic Statistics 1969 and 1970, University of Oregon.

Table 46. Bank Debits and Deposits, Yamhill County, 1966-1970

Year	Bank Debits ^{1/}	Bank Deposits
	- - - - - thousand dollars - - - - -	
1966.....	334,412	51,653
1967.....	358,862	57,805
1968.....	414,506	64,969
1969.....	448,998	67,127
1970.....	476,870	72,562

^{1/} Bank debits represent the dollar value of checks drawn against a deposit account 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 1970, University of Oregon.

Table 47. Income and Poverty Data for Racial Groups, Yamhill County, 1970

Item	Number	Percent
<u>Mean Income</u>		
Families:		
All races.....	\$ 9,821	
Caucasian.....	9,873	
Spanish Language.....	8,127	
Black.....		
Other.....	5,615	
Unrelated individuals:		
All races.....	2,659	
Caucasian.....	2,173	
Spanish Language.....	650	
Black.....	1,707	
Other.....	1,313	
<u>Families by Family Income Class</u>		
All races,		
Under \$3,999.....	1,739	17.09
\$4,000-\$5,999.....	1,358	13.35
\$6,000-\$11,999.....	4,312	42.38
\$12,000+.....	2,765	27.18
Total.....	10,174	100.00
Caucasian,		
Under \$3,999.....	1,678	16.91
\$4,000-\$5,999.....	1,316	13.26
\$6,000-\$11,999.....	4,205	42.36
\$12,000+.....	2,765	27.18
Total.....	9,926	100.00
Spanish Language,		
Under \$3,999.....	44	21.25
\$4,000-\$5,999.....	42	20.29
\$6,000-\$11,999.....	83	40.10
\$12,000+.....	38	18.36
Total.....	207	100.00
Black 1/		
Other,		
Under \$3,999.....	17	41.46
\$4,000-\$5,999.....		
\$6,000-\$11,999.....	24	58.54
\$12,000+.....		
Total.....	41	100.00
<u>Income below poverty level (bpl)</u>		
Families bpl		
All races.....	1,038	100.00
Caucasian.....	963	92.77
Spanish Language.....	58	5.59
Black.....		
Other.....	17	1.64

Table 47, cont. Income and Poverty Data for Racial Groups, Yamhill County, 1970

Item	Number	Percent
<u>Income below poverty level (bpl)</u>		
Persons in families bpl.....	3,643	
Unrelated individuals bpl		
Under 65.....	655	
65 and over.....	757	
Male family head, 14-64 yrs, bpl		
Employed.....	357	
Unemployed.....	48	
Not in labor force.....	158	
Female family heads bpl in labor force with children below 6 years.....	33	
Income source of families and unrelated individuals bpl		
Earnings.....	1,232	
Social security or railroad retirement.....	1,148	
Public assistance or welfare...	279	

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

1/ No data for Black income classes.

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

Education

Table 48. Formal Education Facilities, Yamhill County, 1969-70

School district, type school, Name of school	Grades Included	Enrollment ^{1/} 1969-70
Amity School District		
Elementary		
Amity Elementary School.....	1-8	322
Ballston Elementary School.....	3-4	113
Hopewell Elementary School.....	1-6	77
High School		
Amity High School.....	9-12	278
Dayton School District		
Elementary		
Dayton Elementary School.....	1-8	517
High School		
Dayton High School.....	9-12	255
Carlton School District		
Elementary		
Carlton Elementary School.....	1-8	355

Table 48, cont. Formal Education Facilities, Yamhill County, 1969-70

School district, type school, Name of school	Grades Included	Enrollment ^{1/} 1969-70
Yamhill School District		
Elementary		
Yamhill Elementary School.....	1-8	498
Newberg School District		
Elementary		
Central Elementary School.....	1-6	403
Dundee Elementary School.....	1-6	184
Edwards Elementary School.....	1-8	470
Ewing Young Elementary School..	1-6	193
Mabel Rush Elementary School...	1-6	400
Junior High		
Newberg Junior High School.....	7-9	784
High School		
Newberg High School.....	10-12	2,876
Willamina School District		
Elementary		
Grande Ronde Elementary School.	1-8	213
Willamina Elementary School....	1-8	541
High School		
Willamina High School.....	9-12	334
McMinnville School District		
Elementary		
Adams Elementary School.....	Kg-6	439
Columbus Elementary School.....	1-6	195
Cook Elementary School.....	1-6	285
Lafayette Elementary School....	1-6	160
Memorial Elementary School.....	Kg-6	448
Newby Elementary School.....	Kg-6	360
Junior High		
McMinnville Junior High School..	7-9	860
High School		
McMinnville High School.....	10-12	898
Sheridan School District		
Elementary		
Chapman Elementary School.....	4-8	371
Faulconer Elementary School....	1-3	213
High School		
Sheridan High School.....	9-12	303
Yamhill-Carlton Union High District		
High School		
Yamhill-Carlton High School....	9-12	387
County Totals	- No. of Schools -	
Elementary.....	21	6,837
Junior High.....	2	1,644
High School.....	7	5,341
County Grand Total.....	30	13,822

^{1/} Average daily membership.

SOURCE: Oregon Board of Higher Education, 1969 School Directory, School Finance and Statistical Services.

Table 49. Years of School Completed by Population 25 Years and Over,
Yamhill County, 1970

Education	Females	Males	Total	Percent
Total, 25 years and over.....	11,462	10,470	21,932	100.00
No school years completed.....	80	80	160	.73
Elementary: 1-4 years.....	154	324	478	2.18
5-7 years.....	664	922	1,586	7.23
8 years.....	1,648	1,914	3,562	16.24
High School: 1-3 years.....	2,125	1,878	4,003	18.25
4 years.....	4,344	3,072	7,416	33.81
College: 1-3 years.....	1,550	1,049	2,599	11.85
4 years or more..	897	1,231	2,128	9.70
Median school years completed...	12.2	12.0	12.1	

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

Table 50. Yamhill County Residents Enrolled in Higher Education Institutions,
Fall, 1971

Institution	Number Enrolled
Total enrolled.....	699
Eastern Oregon College.....	11
Oregon College of Education.....	158
Oregon State University.....	248
Portland State University.....	91
Southern Oregon College.....	36
University of Oregon.....	121
Oregon Technical Institute.....	18
University of Oregon Dental School....	1
University of Oregon Medical School...	15
Total in private and independent institutions.....	293
Total in public community institutions.....	469

SOURCE: Oregon Educational Coordinating Council, Past Secondary Enrollment in Oregon, 1972.

Table 51. Youth Organizations, Yamhill County

Organization	Membership
4-H.....	2,010
Future Farmers.....	267
Vocational Ag.....	522

SOURCE: Oregon State University Extension Service, 4-H Youth Office, Corvallis, Oregon, unpublished data.

Table 52. Felonies and Juvenile Delinquency in Yamhill County, 1968

Subject	Number
Commitments to felony and correctional institutions, 1967-68	
Total commitments.....	18
Oregon State Penitentiary.....	10
Oregon State Correctional Institution....	8
Juvenile court cases, 1968	
All cases.....	964
Delinquency.....	701
Traffic.....	133
Other.....	130

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 Yamhill County residents. Generally speaking, there are fewer health personnel per capita in the county than for the state as a whole. For further reference, the Oregon State Board of Health has prepared a publication entitled "Oregon State Plan for the Construction and Modernization of Medical Facilities, 1971".

Table 53. Existing Medical Facilities, Number of Existing Beds, and Number of Beds Needed, Yamhill County, 1971

Category Community	No. of Facilities		No. of Beds	
	Existing	Needed	Existing	Needed
General Hospital				
McMinnville.....	2	2	73	--
Newberg.....	1	1	42	--
Long-term Care Facilities				
Newberg.....	3	3	84	--
McMinnville.....	3	3	107	--
Sheridan.....	1	1	30	--
Diagnostic and Treatment Centers...	3	3	---	--

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 54. Existing Medical Facilities and Percent of Occupancy, Yamhill County, 1971

Name of Facility	Location	Total Capacity	Percent of Occupancy
General Hospitals			
General Clinic and Hospital.....	McMinnville	32	59.0
McMinnville Hospital.....	McMinnville	41	65.0
Newberg Community Hospital.....	Newberg	42	41.0
Long-term Care Facilities			
Davis Newberg Nursing Home.....	Newberg	30	90.0
Friendsview Manor.....	Newberg	14	33.0
Michael's Rest Home.....	McMinnville	33	88.0
Newberg Care Home.....	Newberg	40	48.0
Pleasant Dale Convalescent Home..	Sheridan	30	98.0
Rock of Ages Mennonite Home.....	McMinnville	15	98.0
Stabler Nursing Home.....	McMinnville	59	95.0
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 55. Number of Licensed Medical Personnel and Ratio of Population Per Professional, Yamhill County, 1969

Profession	Number	Ratio
Medical doctors and doctors of osteopathy....	27	1,519
Dentists.....	20	2,051
Registered nurses.....	121	339
Licensed practical nurses.....	28	1,465
Pharmacists.....	31	1,323

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

Table 56. Number of Admissions to State Psychiatric Hospitals and Mental Health Facilities and Ratio per 100,000 Population, Yamhill County, 1969

Facility	Number	Ratio
Psychiatric hospitals.....	38	93
Mental health clinics.....	244	595

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

Table 57. Population, Births, and Deaths by Major Category, Yamhill County, 1971

Category	Yamhill County		State
	Number	Rate	Rate
All births <u>1</u> /.....	636	15.3	15.6
All deaths <u>1</u> /.....	415	10.0	9.4
Illegitimate births <u>2</u> /...	35	55.0	78.1
Premature births <u>2</u> /.....	47	73.9	57.4
Infant deaths <u>2</u> /.....	8	12.6	18.4
Accidental deaths <u>3</u> /.....	15	36.2	64.6
Population.....	41,460		

1/ Rates per 1,000 population.

2/ Rates per 1,000 live births.

3/ Rates per 100,000 population.

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

Table 58. Health Statistics, Yamhill County, 1971

Item	Yamhill County		State
	Number	Rate <u>1/</u>	Rate <u>1/</u>
Morbidity			
Tuberculosis.....	3	7.2	11.6
Syphilis.....	---	---	5.3
Gonorrhoea.....	72	173.7	422.0
Influenza.....	206	496.9	1,171.7
Hepatitis.....	---	---	---
Measles.....	1	2.4	18.1
Deaths from all causes			
Malignant neoplasms (cancer).....	68	164.0	168.4
Diabetes mellitus.....	6	14.5	13.3
Heart diseases.....	148	357.0	349.6
Cerebrovascular diseases.....	64	154.4	110.9
Arteriosclerosis.....	22	53.1	21.2
Other cardiovascular diseases....	13	31.4	17.3
Influenza and pneumonia.....	11	26.5	26.4
Bronchitis, emphysema, asthma....	6	14.5	26.9
Peptic ulcer.....	3	7.2	4.3
Cirrhosis of liver.....	1	2.4	15.8
Congenital anomalies.....	2	4.8	8.2
Certain infancy mortality causes.	3	7.2	14.7
All other diseases.....	42	101.3	76.9
Accidents.....	20	48.2	61.3
Suicides.....	6	14.5	14.9
Homicides.....	---	---	3.8

1/ Rates per 100,000 population.

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

Public Welfare

Table 59. Average Welfare Payments by Type of Service, Yamhill County, Fiscal Years 1968-69 and 1971-72

Type of Service	Average Payment Per Case	
	1968-69	1971-72
Old Age Assistance.....	\$63.30	\$61.87
Aid to the Disabled.....	67.72	69.57
Aid to the Blind.....	65.05	86.39
General Assistance.....	48.11	46.43
Aid to Dependent Children <u>1/</u>		
UN <u>2/</u>	27.76	47.32
Basic <u>2/</u>	39.92	45.61

1/ Payment per person, not case.

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

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

Table 60. Public Welfare Payments for Assistance, Yamhill County,
August 1972

Category	Number of Cases	Average Payments
<u>Cases receiving non-medical payments</u>		
Old Age Assistance.....	166	\$ 62.53
Aid to the Blind.....	12	92.15
Aid to the Disabled.....	100	61.52
Aid to Dependent Children.....	1,822 <u>1/</u>	45.27
General Assistance.....	53	75.08
Foster Care.....	---	---
<u>Physicians services 1/</u>		
OAA.....	47	31.94
AB.....	2	11.13
AD.....	54	22.54
ADC.....	424	21.49
GA.....	25	23.11
FC.....	28	16.85
<u>Hospital payments 1/</u>		
OAA.....	5	65.80
AB.....	1	1.00
AD.....	3	881.29
ADC.....	29	449.52
GA.....	3	192.09
FC.....	2	316.19
<u>Drug payments 1/</u>		
OAA.....	201	25.04
AB.....	8	16.41
AD.....	95	20.53
ADC.....	293	9.25
GA.....	21	12.88
FC.....	18	4.62

1/ Persons, not cases.

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

Housing

Table 61. Housing Occupancy and Facilities, Yamhill County, 1970

Subject	Number Units
Occupancy	
All housing units.....	13,303
Seasonal or migratory.....	152
Owner occupied.....	8,852
Renter occupied.....	3,736
Vacant year round.....	563
Population in housing units.....	38,414
Per unit.....	3.1
Owner occupied.....	3.1
Renter occupied.....	2.9
Persons per room	
All occupied units.....	12,588
1.00 or less.....	11,888
1.01 to 1.50.....	542
1.51 or more.....	158
Facilities	
Lacking some or all plumbing.....	384
Telephone available.....	10,849
Air conditioning.....	929
Median number of rooms.....	5.3
Median value.....	\$13,800
Median rent.....	\$99

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 62. Housing, Occupancy, and Facilities for Places with Over 2,500 Inhabitants, Yamhill County, 1970

Subject	McMinnville	Newberg
Occupancy		
All year-round housing units.....	3,438	2,239
Owner occupied.....	2,050	1,353
Renter occupied.....	1,255	766
Vacant year-round.....	51	120
Facilities		
Telephone available.....	NA*	1,766
Air conditioning.....	304	173
Median rent of renter occupied.....	\$104	\$103

*NA - not available.

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

THE COUNTY'S ECONOMY

In recent years, Yamhill County's economy has been largely based on diversified agriculture, food processing, logging, and the manufacture of wood and metal products. Other manufacturing, recreation, and the tourist trade have been important sources of income.

Agriculture

Agriculture in Yamhill County is very diversified. The fertile soils in the valley and the temperate climatic conditions are favorable for production of many agricultural products.

Seed crops are grown extensively throughout the area and utilize more than 17,450 acres. Other important crops include vegetables, small fruits, meat animals and wool, dairy products, and poultry. Wheat, barley, oats, field corn, and hay are also grown.

Table 63. Farm Size and Value, Yamhill County, 1964 and 1969

Subject	1964	1969
Approximate acres of land area.....	455,045	454,784
Proportion in farms.....	56.0	50.0
Total number of farms.....	2,056	1,488
Acres in farms.....	254,975	227,555
Average size of farms.....	124.0	152.9
Value of land and buildings.....	NA*	\$101,558,659
Average per farm.....	\$45,731	\$68,251
Average per acre.....	\$366.70	\$446.30

*NA - not available.

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

The next table shows distribution of farm sizes. In 1969, approximately 51.0 percent of the farms were under 50 acres in size, while 12.6 percent were over 260 acres or more. In keeping with the national trend, farms in the county have been growing in size with improvements in technology and becoming more specialized.

Table 64. Number and Percent of Farms by Size, Yamhill County, 1964 and 1969

Size	1964		1969	
	Number	Percent	Number	Percent
Less than 10 acres.....	230	11.19	131	8.80
10 to 49 acres.....	804	39.11	586	5.10
50 to 69 acres.....	185	9.00	132	8.90
70 to 99 acres.....	181	8.80	138	9.27
100 to 139 acres.....	153	7.44	110	7.39
140 to 179 acres.....	98	4.77	73	4.91
180 to 219 acres.....	87	4.23	54	3.63
220 to 259 acres.....	59	2.87	38	2.55
260 to 499 acres.....	161	7.83	137	9.25
500 to 999 acres.....	78	3.79	66	4.44
1,000 to 1,999 acres.....	15	0.73	21	1.41
2,000 acres or more.....	5	0.24	2	0.13
Total farms.....	2,056	100.00	1,488	100.00

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

Table 65. Types of Farms with Sales over \$2,500, Yamhill County, 1964 & 1969

Product	1964		1969	
	Farms	Acres	Farms	Acres
Field corn.....	64	1,409	45	1,356
Sorghums.....	---	---	3	40
Alfalfa, hay.....	217	4,581	177	3,999
Clover, hay.....	287	7,163	213	5,633
Hay, grass, silage.....	100	3,357	106	2,197
Red clover & alfalfa seed.....	155	4,650	93	2,438
Strawberries.....	86	872	63	881
Wheat.....	414	18,641	299	13,393
Oats, barley, rye.....	632	23,849	470	23,112
Vegetables.....	---	---	92	9,045
Orchards - vineyards.....	429	10,090	327	11,220
Nursery products.....	20	137	12	30
Forest products.....	55	146,511	68	150,407
Livestock	farms	number	farms	number
Cattle and calves.....	503	16,956	411	15,992
Hogs and pigs.....	117	4,944	83	6,813
Sheep-lambs.....	179	18,178	131	14,011
Goats.....	27	447	18	166
Other.....	NA*	NA	168	---

*NA - not available.

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

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) 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 farm products sold.

In 1969 Yamhill County had 1,488 commercial farms but only 220 farms had sales of over \$20,000. The Class I category with sales of \$40,000 or more was the only one to increase in number from 1964 to 1969.

Table 66. Farms by Economic Class, Yamhill County, 1964 and 1969

Economic Class	Number		Percent	
	1964	1969	1964	1969
Commercial Farms				
Class I (sales of \$40,000 or more).....	90	115	4.38	7.73
Class II (sales of \$20,000 to \$39,999).....	141	95	6.86	6.38
Class III (sales of \$10,000 to \$19,999).....	157	148	7.64	9.95
Class IV (sales of \$5,000 to \$9,999).....	195	173	9.48	11.63
Class V (sales of \$2,500 to \$4,999).....	259	252	12.60	16.94
Class VI (sales of \$50 to \$2,499).....	204	85	9.92	5.71
Other farms				
Part-time.....	740	454	35.99	30.51
Part-retirement.....	270	165	13.13	11.09
Abnormal.....	---	1	---	.07
Total farms.....	2,056	1,488	100.00	100.00

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

Most farmers in Yamhill County own their own farms. Census data shows that in 1969 76.5 percent of the farmers were full owners, 17.1 percent were part owners, and 6.4 percent were tenants. Total number of farmers has declined steadily in recent years.

Table 67. Farm Operators by Tenure, Yamhill County, 1964 and 1969

Tenure	1964	1969
Full owners.....	1,574	1,122
Part owners.....	351	283
Managers.....	---	---
Tenants.....	128	83
Total operators.....	2,056	1,488

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

Table 68. Farm Operators by Age and Years of School Completed, Yamhill County, 1964 and 1969

Subject	1964	1969
By age:		
Average age - years.....	52.1	52.0
65 years old and over.....	413	306
By years of school completed:		
Elementary: 8 years.....	458	NA*
High school: 4 years.....	681	NA
College: 4 years.....	179	NA

*NA - not available.

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

Agriculture provides income not only to the farmers, but also to the workers employed for harvesting and processing the agricultural products. Income from sale of crops and livestock in the county in 1970 was estimated at about \$24 million.

During 1970, income from the sale of crops accounted for 53 percent of the agricultural income, while livestock accounted for 47 percent. Field crops such as small grains, grass, legume seed, hops, peppermint, and hay accounted for 30 percent of the agricultural income. Cattle and calves were second in importance accounting for 28 percent of the income, followed by dairy products with 27 percent.

Table 69. Value of Farm Products Sold, Yamhill County, 1967-1970

Product	1967	1968	1969	1970p
	- - - - - thousand dollars - - - - -			
All crops, livestock and livestock products.....	20,898	19,856	22,665	23,963
All crops.....	11,752	10,114	11,969	12,321
All grain, hay, and seeds...	3,753	3,486	4,439	4,705
All seed crops.....	1,306	1,121	1,610	1,637
All grain and hay.....	2,447	2,365	2,829	3,068
All hay.....	384	246	385	389
All grains.....	2,063	2,119	2,444	2,679
Wheat.....	1,533	1,525	1,581	1,988
Barley.....	397	473	643	478
Vegetables, fresh and for processing.....	3,176	2,863	2,917	2,106
All berries.....	1,384	1,411	1,683	1,330
All tree fruits and nuts....	2,614	1,699	2,215	3,447
Specialty field crops.....	54	43	43	69
Specialty horticultural crops.....	390	400	399	410
All livestock and livestock products.....	9,146	9,742	10,696	11,642
Dairy products.....	2,382	2,525	2,340	2,535
Poultry products.....	2,713	3,046	3,534	4,113
Cattle and calves.....	1,528	1,897	2,103	2,561
Sheep and lambs.....	246	228	333	335
Hogs.....	517	475	581	671

p - preliminary

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

Logging and Wood Products

Logging and the lumber industries continue to be some of the largest industries in Yamhill County. Lumber and wood product mills employ quite a few people in relation to other industries. There are a number of firms in this relatively small area.

Table 72. Lumber and Wood Products Manufacturing Excluding Furniture, Yamhill County, 1970

Product Group	Number of Firms	Employment
Logging camps and contractors.....	20	131
Sawmills and planing mills, general.....	13	282
Special product sawmills.....	3	63
Millwork plants.....	3	16
Veneer and plywood plants.....	3	340
Wood products, not elsewhere classified.	1	23
Total.....	43	855

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

The 1970 Yamhill County timber harvest was down nearly 29.4 from 1969 as compared to the state drop of 13.8 percent.

Table 73. Timber Harvest by Ownership, Yamhill County, 1970 ^{1/}

Ownership	Production*	Percent of Total
Total timber harvest.....	39,662	100.00
Private ^{2/}	14,857	37.45
Bureau of Land Management ^{3/}	22,574	56.92
National forest ^{4/}	2,081	5.25
Other public.....	150	.38

* Scribner Log Rule - thousand board feet.

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

^{2/} Compiled by State Forester.

^{3/} Compiled by Bureau of Land Management.

^{4/} Compiled by U.S. Forest Service.

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

Table 74. Log Consumption in Thousand Board Feet by Species and Industries, Yamhill County, 1968 ^{1/}

Species	Type of Wood-Using Industry	
	Sawmills	Veneer and Plywood
All species.....	76,160	47,443
Douglas fir.....	32,405	40,857
Hemlock.....	42,860	244
True firs.....	6	732
Spruce.....	---	5,610
Other softwoods.....	889	---
Hardwoods.....	---	---

^{1/} Scribner Log Rule

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

Table 75. Installed 8-Hour Capacity of Wood-Using Industries, Yamhill County, 1968

Industry	Capacity
Sawmill-lumber.....	368,000 ^{1/}
Veneer and plywood.....	120,000 ^{2/}
Pulp and board mills.....	660 ^{3/}

^{1/} Scribner log rule. ^{2/} Square feet, 3/8 inch basis

^{3/} 24 hour capacity in tons.

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

Manufacturing

Table 76. Value Added by Major Manufacturing Industries, Yamhill County, 1967

Item	Value Added	Percent of Total
All manufacturing.....	\$25,900,000	100.0
Food and kindred products.....	5,900,000	22.8
Lumber and wood products.....	10,500,000	41.0

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 77. Major Industry Groups by Employment Size Class, Yamhill County, 1967

Industry Group	Number of Employees		
	1 to 19	20 to 99	100 to 249
Food and kindred products.....	77	26	5
Tobacco manufacturers.....	12	6	1
Textile mills products.....	-	1	-
Apparel and other textiles.....	1	1	-
Lumber and wood.....	42	14	1
Furniture and fixtures.....	1	-	-
Paper and allied products.....	-	-	1
Printing and publishing.....	4	2	-
Chemicals and allied products.....	2	-	-
Stone, glass, and clay products....	8	-	-
Fabricated metal products.....	2	-	-
Machinery, except electrical.....	4	-	-
Electrical equipment and supplies..	-	1	1
Transportation and equipment.....	1	-	1
Instruments and related products...	-	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.

Mining - Mineral and Metal Industries

Table 78. Mineral, Metal and Related Manufacturing, Yamhill County, 1970

Major Group and Subgroups	Number of Firms	Employment
Petroleum refining and related industries.....	0	0
Stone, clay and glass products		
Brick and structural clay tile.....	2	59
Structural clay, unclassified.....	1	--
Concrete block and brick.....	1	4
Concrete products, exc. block and brick.....	4	19
Ready-mixed concrete.....	5	69
Minerals and earths, treated or ground.....	1	--
Primary metals industries		
Blast furnaces, steelworks, and rolling mills.....	1	70
Fabricated metal products		
Fabricated plate work.....	2	14
Sheet metal work.....	1	6
Architectural and ornamental work.....	1	2

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

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

Table 79. Value of Mineral Production, Yamhill County, 1963, 1967, and 1970

Year	Value	Minerals produced in order of value
1963.....	\$706,000	Sand, gravel, stone, clays
1967.....	681,000	Stone, sand and gravel, clays
1970.....	580,000	Sand and gravel, stone, clays

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

Outdoor Recreation

Outdoor recreation plays a minor role in the lives of Yamhill County inhabitants. Parks are few in number. Only three state parks exist in the whole county and they have few facilities for recreational purposes. There are a few local parks, but they are limited in size and facilities.

The area is primarily agricultural. This has the tendency to reduce the allowable area for park development, as the farmer needs all of his land for crop usage, etc.

No overnight camping is available in the parks existing. Thus, tourism is at a minimum in general and little revenue is generated from the parks.

Hunting and fishing are abundant in the area. Small game, birds, and water fowl are the most sought after by the hunter. Fishing is plentiful during the early spring through early fall months. Recreationally, these two pastimes are the only means of sportsmanship and draw local people in the surrounding area to Yamhill County.

Golf courses are plentiful in the areas which are close to the larger towns and cities. Riding stables are numerous. Skiing is a summer pastime as the Willamette and other rivers are navigable to boats that are of skiing varieties.

Table 80. Day Visitor Attendance at State Parks in Yamhill County, 1967-72

Park	1967-68	1968-69	1969-70	1970-71	1971-72
Bald Peak.....	31,566	30,216	*	*	*
Maud Williamson.....	40,800	47,452	59,378	55,058	65,038

*Dropped

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

Table 81. Yamhill County Park and Recreation Facilities

Ownership and Name	Acres	Facilities & Activities ^{1/}
State Parks		
Bald Peak State Park.....	26.44	P
Erratic Rock State Wayside.....	4.40	H,R
Maud Williamson State Park.....	23.90	P, SA

1/ Legend: P - picnicking R - rockhounding
H - hiking SA - sports area

SOURCE: Oregon State Highway Department, Park and Recreation Division, Statewide Comprehensive Outdoor Recreation Plan, "Oregon Outdoor Recreation", Third Edition, January 1967.

Business

Table 82. Retail and Wholesale Trade and Selected Services, Yamhill County, 1967

Kind of Business Location	Establishments	Paid ^{1/} Employees	Sales (\$1,000)
Retail trade, total.....	396	1,295	45,906
McMinnville.....	141	680	26,147
Newberg.....	76	249	7,913
Remainder of county....	179	366	11,846
Wholesale trade, total...	46	202	18,983
McMinnville.....	22	*	*
Remainder of county....	24	*	*
Selected services, total.	230	256	4,120
McMinnville.....	91	178	2,355
Newberg.....	46	46	765
Remainder of county....	93	32	1,000

1/ Paid employees for week including March 12.

*Withheld to avoid disclosure.

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

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

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

PUBLIC SERVICES

Transportation

Yamhill County is served by an excellent road and highway system. The county is traversed in a north-south direction by U.S. Route 99W. State route highways are numerous in the county. They run both east and west and north and south. Primary highways and secondary roads are able to handle the local flow of traffic from town to town within the county.

Regularly scheduled bus service is available on the major highways and several secondary routes. Motor freight service is available to most of the towns and cities in the county on a regular basis.

The Southern Pacific Railroad crosses the county in a north-south direction and furnishes freight services.

Yamhill County has several private airports; they provide both lessons and charter service.

Table 83. Motor Vehicle Registration, Yamhill County, 1970

Vehicle	Number of Vehicles
Passenger vehicles.....	24,040
Buses.....	9
Trucks.....	1,864
All trailers.....	1,791
Motorcycles.....	1,136
Recreational.....	1,754
Total.....	30,549

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

Table 84. Land Area in Highways, Streets, and Roads, Yamhill County

Ownership	Acres
State highways.....	1,600
County roads.....	5,495
City streets.....	565
Total.....	7,660

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

Table 85. Number of Aircraft and Boats in Yamhill County, 1968

Subject	Number
Aircraft.....	61
Boats.....	1,152

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

Communication

Table 86. Communication Facilities, Yamhill County

Type Service	Location	Network Affiliation
<u>Radio stations</u> KMCM.....	McMinnville	ABC/NRN
<u>Telephone</u> General Telephone Company of the N.W., Beaverton District. United Telephone Company of the Northwest..... Continental Telco.....	McMinnville, Newberg Sheridan, Willamina Dayton, Grand Island	
<u>Television stations</u> KSLC.....	Linfield College, McMinnville	(Educational)
Portland and Salem stations serve the area.....		ABC, CBS, NBC

SOURCES: Pacific Northwest Bell, unpublished data, 1971.
Oregon Association of Broadcasters, Directory of Radio and
Television Stations for the State of Oregon, 1972.

Table 87. Residential Communication Facilities, Yamhill County, 1970

Type Service	Number of Housing Units
<u>Battery radio sets</u>	
Yes.....	8,730
No.....	3,819
<u>Telephone available</u>	
Yes.....	10,849
No.....	1,739
<u>Television sets</u>	
One.....	9,106
Two or more.....	2,513
None.....	930
<u>UHF equipped</u>	
Yes.....	2,947
No.....	8,672

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

Library Facilities

Public support for libraries located in Yamhill County is provided by local funds of the cities. In the 1970 fiscal year, total funds provided were \$34,701 while expenditures totaled \$35,090. The six libraries in the county contain over 63,190 volumes. The county's circulation per capita of 3.0 and expenditure per capita of \$.86 compares with state figures of 6.3 and \$3.48.

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

City	Volumes	Circ.	Circ. Per Capita	Hrs. open Per Week	Operating Expend.	Expend. Per Capita
Amity.....	3,693	---	---	3	\$ 306	\$0.38
Dayton.....	3,914	1,026	.96	3	460	0.43
McMinnville.	21,601	80,872	2.10	37	21,224	1.96
Newberg.....	18,023	25,217	3.30	30	8,140	1.07
Sheridan....	10,059	10,127	5.17	23	4,437	2.28
Willamina...	5,900	4,523	3.60	9	523	0.42

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

Utilities

Slightly under 71 percent of the housing units in Yamhill County were served by public systems or water companies in 1970 while a little over 23 percent received water from individual wells. This compares with nearly 80 percent of housing units receiving water from public systems or water companies at the state level.

About 59 percent of Yamhill County's housing units are on public sewer systems compared to 61 percent on the state level.

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

Subject	Number	Percent
Water source		
Public system or private company.....	9,281	70.6
Individual well.....	3,145	23.9
Other or none.....	721	6.5
Sewage disposal		
Public sewer.....	7,737	59.0
Septic tank or cesspool.....	5,248	40.0
Other or none.....	162	1.0

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, Yamhill County, 1970

Types of Fuels	Home Heating Fuel	Water Heating Fuel	Cooking Fuel
Utility gas.....	2,287	707	455
Fuel oil, kerosene, etc..	4,295	45	41
Coal or coke.....	---	---	---
Wood.....	1,030	66	150
Electricity.....	4,460	11,295	11,512
Bottled, tank, or LP gas.	418	183	366
Other fuel.....	38	---	---
None.....	21	253	25
All housing units.....	13,234		

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

PUBLIC FINANCE

Table 91. Selected Items of Local Government Finances, Yamhill County, 1966-67

Item	Yamhill County		State
	Total Amount	Per Capita Amount	Per Capita Amount
General revenue, exc. interlocal....	\$10,691,000	\$275.54	\$308
Intergovernmental revenue.....	4,276,000	110.21	97
From state government.....	3,939,000	101.51	83
From local sources.....	6,415,000	165.33	210
Taxes.....	4,504,000	116.09	156
Property.....	4,404,000	113.50	151
Other.....	101,000	2.60	5
Charges and miscellaneous.....	1,910,000	49.24	54
Direct general expenditure.....	11,220,000	289.17	316
Capital outlay.....	1,884,000	48.56	62
Other.....	9,335,000	240.60	254
Education.....	6,854,000	176.41	180
Other than capital outlay.....	6,185,000	159.41	152
Highways.....	1,242,000	32.00	30
Other than capital outlay.....	760,000	19.58	20
Public welfare.....	52,000	1.34	2
Hospitals.....	438,000	11.29	6
Other than capital outlay.....	425,000	10.95	---
Health.....	173,000	4.45	4
Police protection.....	261,000	6.74	12
Fire protection.....	186,000	4.81	9
Sewerage.....	221,000	5.69	8
Other than capital outlay.....	79,000	2.05	3
Sanitation other than sewerage....	488,000	12.57	2
Parks and recreation.....	67,000	1.74	10
Natural resources.....	89,000	2.28	4
Housing and urban renewal.....	8,000	0.22	4
Correction.....	54,000	1.38	2
Libraries.....	23,000	0.59	3
Financial administration.....	209,000	5.40	5
General control.....	189,000	4.88	8
General public buildings.....	107,000	2.76	3
Interest on general debt.....	224,000	5.78	6
Other and unallocable.....	343,000	8.84	21
Water supply revenue.....	440,000	11.34	12
Water supply expenditure.....	371,000	9.57	13
General debt outstanding.....	6,017,000	155.07	214
Long-term.....	5,823,000	150.08	203
Local schools.....	3,961,000	102.09	101
Other.....	1,862,000	47.99	101

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

Table 92. City Valuation, Tax Rates and Taxes Extended in Yamhill County

Item	McMinnville	Newberg	Carlton	Dayton	Sheridan
Population.....	11,563	7,290	1,190	1,022	1,940
Code Area <u>1</u> /.....	40	29	11	8	48
Assessed Value...	\$82,673,471	\$39,503,876	\$3,486,893	\$2,811,426	\$7,991,577
Assigned Ratio...	100.00%	100.00%	100.00%	100.00%	100.00%
Rate/\$1,000 by levying unit					
County.....	3.75	3.75	3.75	3.75	3.75
City.....	3.84	4.79	5.59	5.90	6.19
School.....	24.78	19.54	20.67	21.10	24.63
Other.....	.00	1.54	.00	.00	.00
Total.....	32.37	29.62	30.01	30.75	34.57
City Tax.....	\$317,466	\$189,224	\$19,492	\$16,587	\$49,468
Consolidated Tax.	\$2,676,140	\$1,170,105	\$104,642	\$86,451	\$276,269

Item	Willamina	Amity	Dundee	Lafayette	Yamhill
Population.....	1,250	760	767	830	525
Code Area <u>1</u> /.....	30	4	29-1,29-3	40-1	16
Assessed Value...	\$2,406,921	\$2,845,906	\$5,443,674	\$2,926,662	\$1,543,094
Assigned Ratio...	100.00%	100.00%	100.00%	100.00%	100.00%
Rate/\$1,000 by levying unit					
County.....	3.75	3.75	3.75	3.75	3.75
City.....	12.43	7.41	6.85	3.98	10.88
School.....	21.77	20.25	19.54	24.78	25.52
Other.....	.00	.00	1.54	.00	.00
Total.....	37.95	31.41	31.68	32.51	40.15
City Tax.....	\$29,918	\$21,088	\$37,289	\$11,648	\$16,789
Consolidated Tax.	\$91,343	\$89,390	\$166,312	\$95,146	\$61,955

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

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

Table 93. Per Capita City Taxes and Valuation Percentage Distribution of Consolidated Rates and Dollars Per Thousand Rates on True Cash Value in Yamhill County

Item	McMinnville	Newberg	Carlton	Dayton
True Cash Value (T.C.V.)...	\$82,673,471	\$39,503,876	\$3,486,893	\$3,811,426
Per Capita True Cash Value.	7,150	5,419	2,930	2,751
Per Capita Tax				
City.....	27	26	16	16
Consolidated.....	231	161	88	85
Percentage of Total Levy				
County.....	11.6	12.7	12.5	12.2
City.....	11.9	16.2	18.6	19.2
School.....	76.6	66.0	68.9	68.6
Other.....	.0	5.2	.0	.0
Average Rate/\$TCV Basis				
County.....	3.75	3.75	3.75	3.75
City.....	3.84	5.65	5.59	5.90
School.....	24.78	13.08	20.67	21.10
Other.....	.00	.29	.00	.00
Total.....	32.37	21.07	30.01	30.75

Item	Sheridan	Amity	Dundee	Lafayette	Yamhill
True Cash Value (T.C.V.)...	\$7,991,577	\$2,845,906	\$5,443,674	\$2,926,662	\$1,543,094
Per Capita True Cash Value.	4,119	3,745	7,097	3,526	2,939
Per Capita Tax					
City.....	25	28	49	14	32
Consolidated.....	142	118	217	115	118
Percentage of Total Levy					
County.....	10.8	11.9	12.3	11.5	9.3
City.....	17.9	23.6	22.4	12.2	27.1
School.....	71.2	64.5	64.0	76.2	63.6
Other.....	.0	.0	1.3	.0	.0
Average Rate/\$TCV Basis					
County.....	3.75	3.75	3.75	3.75	3.75
City.....	6.19	7.41	6.85	3.98	10.88
School.....	24.63	20.25	19.54	24.78	25.52
Other.....	.00	.00	.41	.00	.00
Total.....	34.57	31.41	30.55	32.51	40.15

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

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

Item	Amount in Dollars
<u>Levies</u>	
County.....	\$1,281,537
Cities.....	708,969
Community Colleges.....	354,937
Elementary and Secondary School Districts	
Intermediate County.....	1,081,663
Education Joint.....	5,677
Elementary and Unified.....	5,923,267
Union High.....	225,104
County Unit.....	---
Total School Districts.....	6,880,774
Special Districts	
Cemetery.....	---
Fire protection.....	106,826
Hospital.....	---
Park and Recreation.....	174,939
Port.....	---
Road.....	---
Sanitary.....	---
Water Supply.....	---
Other.....	---
Total Special Districts.....	281,765
Total Gross Ad Valorem Levies.....	9,862,919
Special Assessments	
Fire Patrol.....	24,018
Forest Fee.....	1,950
Diking and Drainage.....	---
Irrigation.....	---
Lighting.....	853
Other.....	---
Total Special Assessments.....	26,821
Total Gross Levies and Assessments.....	9,889,740
Less Property Relief Money	
Senior Citizens.....	(-112,405)
Game Commission.....	---
Total Net Ad Valorem Levies.....	9,750,514
Net Ad Valorem Taxes by Class	
Real Property.....	8,140,477
Personal Property.....	907,521
Utility Property.....	702,515

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

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

Item	Assessed Value	Percent of Total
<u>Class</u>		
Real Property		
Lands inside corporate limits.....	\$ 33,945,937	10.12
Lands outside corporate limits.....	62,963,981	18.78
Improvements inside corporate limits.....	92,831,554	27.55
Improvements outside corporate limits.....	90,574,813	27.01
Timber (excludes land).....	7,477,794	2.23
Less veterans exemptions.....	(-4,109,560)	(-1.23)
Less senior citizens residence exemptions..	(-3,225,356)	(- .96)
Taxable real property.....	280,459,163	83.50
Personal Property		
Merchandise and stock in trade.....	15,486,131	4.62
Furniture, fixtures and equipment.....	2,347,326	.70
Farm machinery and equipment.....	5,720,673	1.71
Other machinery and equipment.....	4,614,824	1.38
Livestock.....	2,244,221	0.67
Miscellaneous.....	10,464	---
Less veterans exemptions.....	(-1,265)	---
Less senior citizens residence exemptions..	(-57,777)	(- .02)
Taxable personal property.....	30,364,597	9.06
Total taxable real and personal property.....	310,823,760	92.56
Utilities		
Airline companies.....	---	---
Electric companies.....	10,298,606	3.07
Express companies.....	---	---
Gas companies.....	2,974,039	.89
Heating companies.....	---	---
Pipeline companies.....	---	---
Railroad companies.....	1,483,905	.44
Tank and private car companies.....	48,218	.01
Telegraph companies.....	1,800	---
Telephone companies.....	9,616,876	2.87
Water companies.....	31,600	.01
Water transportation companies.....	292,000	.09
Taxable utility property.....	24,484,244	7.38
Total taxable real, personal and utility property.....	335,308,004	100.00

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

Table 96. Amount and Percent of Unpaid Property Tax, Yamhill County, 1971

Item	Total Amount	Amount Unpaid	Percent of Unpaid
Property Taxable			
Real.....	\$7,200,592	\$1,171,110	16.26
Personal.....	850,672	184,964	21.74
Public utilities.....	637,122	76,019	11.93
Western Oregon additional timber tax.....	16,858	1,583	9.39
Yield tax.....	---	---	---
Total.....	8,705,244	1,433,676	16.47

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

Selected List of Agencies

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

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

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

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

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

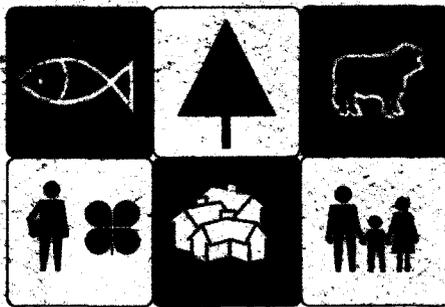
Selected Bibliography

1. Bureau of Business and Economic Research, Oregon Economic Statistics 1972, University of Oregon, 1972.
2. Carolan, W.B. Jr., Federal Land Oregon, Oregon State University, 1963.
3. Center for Population Research and Census, Population Estimates of Counties and Incorporated Cities of Oregon, Portland State University, July 1972.
4. Office of the Governor, Planning Division, Health Facts, 1969.
5. Oregon Association of Broadcasters, Directory of Radio and Television Stations for the State of Oregon, 1972.
6. Oregon Board of Higher Education, 1969 School Directory and 1971-72 Oregon School-Community College Directory, School Finance and Statistical Services.
7. Oregon Conservation Needs Committee, Oregon Soil and Water Conservation Needs Inventory, U.S. Soil Conservation Service, 1971.
8. Oregon Department of Planning and Development, Resources for Development, 1964.
9. Oregon Educational Coordinating Council, Past Secondary Enrollment in Oregon, 1972.
10. Oregon State Board of Census, Components of Population Growth, Population Bulletin P-3, 1961.
11. 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.
12. Oregon State Department of Commerce, Economic Development Division, Directory of Oregon Manufacturers - 1970.
13. Oregon State Department of Employment, 1965 Oregon Farm Labor Report, 1966.
14. Oregon State Department of Environmental Quality, Water Quality Control In Oregon, Oregon Sanitary Authority, 1970.
15. Oregon State Department of Forestry jointly with U.S. Forest Service, Oregon Timber Industries, 1968, Wood Consumption and Mill Characteristics, 1968.
16. Oregon State Department of Human Resources, Children Services Division, Adolescent Population and Commitment Data by County, by Calendar Year 1967-1970.

17. Oregon State Department of Human Resources, Employment Division, Labor Force and Employment in Oregon by County 1968 through 1971 publications, Research and Statistics Section.
18. Oregon State Department of Human Resources, Employment Division, 1971 Annual Rural Manpower Report, 1972.
19. Oregon State Department of Human Resources, Employment Division, Oregon Covered Employment and Payrolls, 1970 and 1971, Summary Data, Research and Statistics Section, 1971, 1972.
20. Oregon State Department of Human Resources, Oregon Public Welfare Division, Public Welfare in Oregon, October 1970, December 1970, and August 1972.
21. Oregon State Department of Human Resources, Oregon State Health Division, Implementation and Enforcement Plan for the Public Waters of the State of Oregon, Oregon Sanitary Authority, 1967.
22. Oregon State Department of Human Resources, Oregon State Health Division, Vital Statistics Annual Report, Vital Statistics Section, 1971.
23. Oregon State Department of Revenue, First Biennial Report 1968-70.
24. Oregon State Department of Revenue, Summary of Assessment and Tax Rolls for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property Tax Collections, 1972.
25. Oregon State Department of Transportation, State Highway Division, "Day Visitor Attendance", State Parks and Recreation Section, 1972.
26. Oregon State Department of Transportation, State Highway Division, "Overnight Camping by the Public", State Parks and Recreation Section, 1972.
27. Oregon State Department of Transportation, State Highway Division, "The State Park Visitor in Oregon", State Parks and Recreation Section.
28. Oregon State Executive Department, Clay Meyers, Secretary of State, Oregon Blue Book, 1971-72, January 1971.
29. Oregon State Executive Department, Local Government Relations Division, District Facts, 1970.
30. Oregon State Fisheries Commission, 1968 and 1971 Annual Report.
31. Oregon State Game Commission, 1968 and 1971 Annual Report, Oregon State Commission.
32. Oregon State Game Commission, "Oregon State Game Commission Bulletin", May 1972.

33. Oregon State Lands Division, Inventory of State-Owned Real Property, By County, 1970.
34. Oregon State Library, Directory of Oregon Libraries, annual statistics for the year ending June 30, 1970.
35. Oregon State University Extension Service, Agriculture in Oregon Counties - Farm Sales and General Characteristics, Special Report 330, Oregon State University, 1972.
36. Oregon State University Extension Service, Income and Poverty Data for Racial Groups: A Compilation for Oregon Census County Divisions, Special Report 367, Oregon State University, 1972.
37. Pacific Northwest Forest and Range Experiment Station, 1968.
38. State Water Resources Board, River Basin Reports.
39. State Water Resources Board, U.S.D.A. River Basin Reports on Water and Related Land Resources, 1962.
40. 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.
41. U.S. Bureau of the Census, Census of Business, 1967 Retail Trade: Oregon, BC 67 - RA 39, U.S. Government Printing Office, Washington, D.C., 1969.
42. U.S. Bureau of the Census, Census of Business, 1967 Wholesale Trade: Oregon, BC 67 - WA 39, U.S. Government Printing Office, Washington, D.C., 1969.
43. U.S. Bureau of the Census, Census of Governments, 1967, Vol. 4, No. 5: Compendium of Government Finances, U.S. Government Printing Offices, Washington, D.C., 1969.
44. 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.
45. 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.
46. U.S. Bureau of the Census, Census of Manufacturers, 1967, Area Services: Oregon, MC 67(3) - 38, U.S. Printing Office, Washington, D.C., 1970.
47. U.S. Bureau of the Census, U.S. Census of Population, General Demographic Trends for Metropolitan Areas, 1960 to 1970, Final Report PHC (2) - 39, U.S. Government Printing Office, Washington, D.C., 1971.

48. 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.
49. 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.
50. U.S.D.A. and OSU Extension Service cooperating, "Oregon Commodity Data Sheets", Oregon State University, 1971-72.
51. U.S. Department of Commerce, Weather Bureau, Decennial Census of U.S. Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965.
52. U.S. Forest Service, Forest statistics publications for various Oregon regions, Resource Bulletin 7, Pacific Northwest Experiment Station.
53. U.S. Forest Service, "1970 Timber Harvest", U.S.D.A. Forest Service Resource Bulletin PNW-38, Pacific Northwest Forest and Range Experiment Station, 1971.
54. U.S. Soil Conservation Service, Soil Survey Reports.
55. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, Climatological Data, Annual Summary, 1971, Vol. 77, No. 13.



OREGON STATE UNIVERSITY
**EXTENSION
SERVICE**

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