Wasco County, Oregon

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- NATURAL
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Wasco County, Oregon

NATURAL

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ECONOMIC

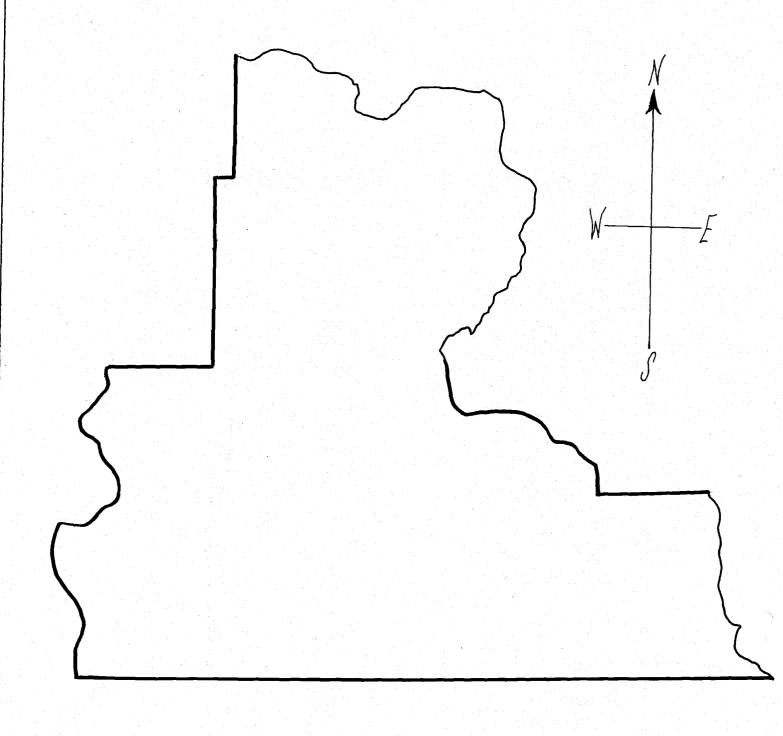
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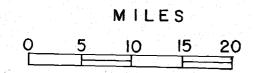
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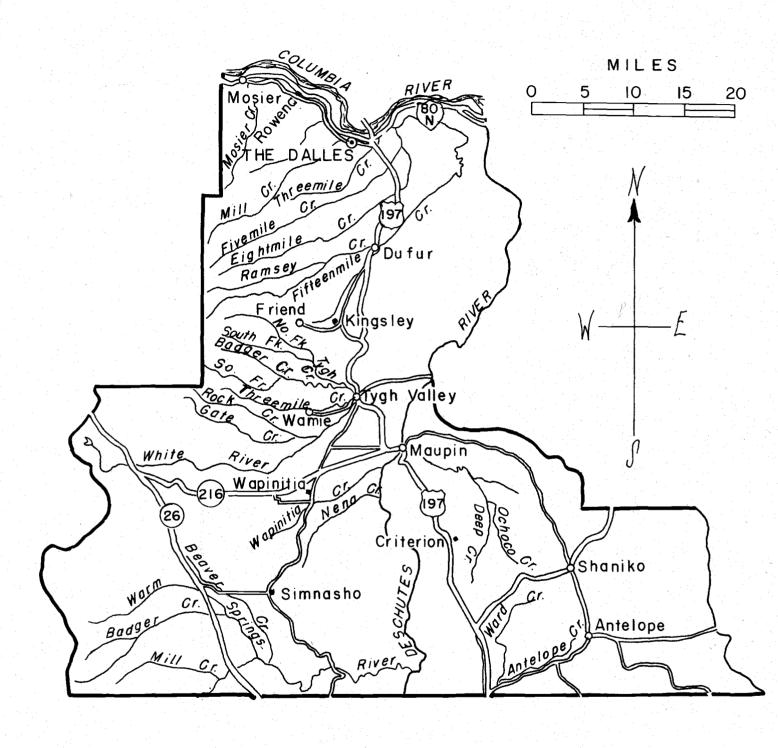
Prepared by Gary Valde, Research Assistant,
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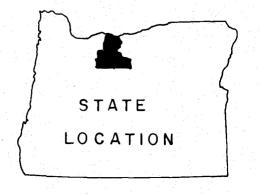
WASCO COUNTY





WASCO COUNTY





LEGEND

PRIMARY HIGHWAYS

SECONDARY HIGHWAYS

COUNTY ROADS

INTERSTATE HIGHWAYS

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GENERAL DESCRIPTION 1/

Wasco County is located in north-central Oregon. The Columbia River and the State of Washington form its northern border. Hood River, Clackamas, and Marion Counties border it on the west. Jefferson County lies to the south and Sherman and Wheeler Counties form its eastern border.

The Dalles, the county seat, is about 83 miles east of Portland, 125 miles west of Pendleton, and 131 miles north of Bend.

The county ranks 14th in size in the state with an area of 2,392 square miles. Over half the land area is rangeland and used for grazing. About one-third of the area is forest land. Most of the remaining land is used for dryland farming.

Wasco County lies in a climate transition zone between the temperate maritime zone of western Oregon and the temperate, semi-arid, continental zone of central Oregon. Precipitation is generally light in the populated areas of the county but increases with elevation in forested areas.

In 1972 the total population was 20,520. The Dalles was by far the largest town with a population of 10,980. Agriculture and lumbering are the major industries in the county. The Dalles is an important processing center for tree fruits.

When Wasco County was first created by the Territorial Legislature in 1854, it included all of Oregon east of the Cascades plus most of Idaho and parts of Montana and Wyoming. Wasco County was named for the Wasco or Wascopam Indian tribe.

A brief summary of the facts for the county are noted below. 2/

Area: 2,392 square miles Population: 20,520

1,527,680 acres (July 1, 1972)

Elevation at The Dalles: 98 feet True Cash Value: \$231,164,638

(1972)

Average Temperature: Principal Industries:

Summer - 69.2 Agriculture, Lumbering,

Manufacturing, Transportation,

Electric Power Generation

County Seat: The Dalles

Winter -37.4

^{1/} Oregon State Water Resources Board, Hood River Basin, 1965; John Day River Basin, 1962; and Deschutes River Basin, 1961.

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

PHYSICAL ASPECTS 1/

The western portion of Wasco County is formed by the uplifted crest of the Cascade Range. The Columbia River Gorge forms the northern boundary of the county. The Deschutes River runs along the eastern boundary.

The county is divided by three drainage basins. Approximately 345,600 acres of the northern portion of the county are in the Hood River drainage basin. Another 1,073,280 acres of the central and southern portions of the county are in the Deschutes River Basin. The remaining 112,000 acres along the southeastern boundary make up about 6 percent of the John Day River Basin.

Most of the county lies on a high plateau although the county seat and largest town, The Dalles, is at a low elevation next to the Columbia River. Mount Wilson, on the county's western border, reaches nearly 6,000 feet while land along the Columbia River's banks is only about 100 feet in elevation.

Climate

Wasco County lies in a climate transition zone between the temperate maritime zone of western Oregon and the temperate, semi-arid, continental zone of central Oregon.

Annual precipitation varies from over 90 inches in the western portion of the county at high elevations in the Cascades to less than 10 inches in the eastern part of the county. Precipitation in the most populated areas varies from 10 to 15 inches annually. Snowfall is light at lower elevations and quite heavy, from 14 to 20 feet, in the high mountain areas.

Frost-free growing seasons also vary substantially with elevation. Cropland areas at low elevations may have growing seasons of over 200 days while at high elevations in the Cascades the growing season is less than 30 days.

The Dalles has a prevailing westerly wind in the summer an easterly wind in the winter.

^{1/} Oregon State Water Resources Board, Hood River Basin, 1965; John Day River Basin, 1962; and Deschutes River Basin, 1961.

Table 1. Selected Weather Stations and Their Elevations, Wasco County

Station	Elevation in Feet
Antelope	2,758
Dufur	1,325
Friend	2,430
The Dalles	102

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

Table 2. Freeze Data for Wasco County, 1951-1960

		Mean	Numb	er of	Days	with	a Ter	npera	ture	of 32	o _{F. o}	r Bel	ow
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annua1
		100									-43		
Antelope 1/	25	22	23	16	7	1	2/	2/	2	9	19	26	150
Dufur	26	22	21	14	5	2/	0	<u>0</u>	1	9	19	27	144
Friend 1/	28	25	26	18	9	3	2/	2/	2	11	22	28	172
The Dalles	17	14	8	1	2/	0	0	0	0	1	12	15	68
					'								

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

2/ Less than 0.5 days.

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

Table 3. Temperature and Precipitation, Wasco County, By Month, 1951-60 Averages

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annua
									1 1 1				
Average									1				
Temperature					6	legre	es Fai	enhe:	it		·, ;		
Antelope 1/	31.9	36.1	39.2	46.3	53.3	59.2	67.4	65.1	60.0	50.1	39.6	34.9	48.6
Dufur	31.7	37.3	41.7	48.8	56.2	61.2	68.1	66.0	61.8	51.3	39.5	34.8	49.9
Friend	28.2	33.7	37.4	44.7	51.3	56.6	64.3	62.6	58.4	48.2	36.6	31.9	46.2
The Dalles	34.8	40.4	45.5	54.0	61.8	67.5	74.4	72.7	67.2	56.0	43.2	38.2	54.6
Total													
					·		inches						
Precipitation	k 7. T				7 7 7	<i>,</i> 7 - 7 -	rnenes	>		7.7			
Antelope	1.72	1.30	1.19	65	1.75	1.04	.31	.36	.76	.84	1.43	1.71	13.06
Dufur		1.46			1.02								12.47
Friend		1.91		1.0	1.24								15.98
The Dalles		1.72				.54		.20					14.46
THE Dalles	7.43	1./2	1.77	. 57	.09	• 54	.04	• 20	• 40		T.01	2.50	

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

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

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

Table 4. Mean Daily Maximum and Minimum Temperatures, Wasco County, By Month, 1951-1960 Averages

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annua1
Mean Daily													
Maximum Temp.					(legre	es Fai	renhei	Lt				
Antelope	40.5	45.6	50.5	60.3	78.0	74.9	86.6	83.2	76.9	64.3	50.6	43.8	62.1
Dufur	40.3	47.0	53.6	63.8	71.9	77.8	88.0	85.2	79.6	65.9	50.0	43.0	63.8
Friend	36.2	42.9	47.8	58.1	65.9	72.1	82.6	80.4	74.5	61.3	46.1	39.6	59.0
The Dalles	40.9	48.4	55.4	65.8	74.1	79.4	88.7	86.5	82.0	68.4	51.7	44.3	65.5
Mean Daily													
Minimum Temp.	-				(degre	es Fai	renhe	it - ·				
Antelope 1/	23.3	26.6	27.9	32.3	38.5	43.4	48.2	47.2	43.4	35.9	28.5	25.9	35.1
Dufur	23.1	27.5	29.8	33.8	40.4	44.6	48.1	46.7	44.0	36.7	29.1	26.5	35.9
Friend	36.2	42.9	47.8	58.1	65.9	72.1	82.6	80.4	74.5	61.3	46.1	39.6	59.0
The Dalles	28.7	32.4	35.6	42.1	49.4	55.6	60.2	58.9	52.4	43.5	34.8	32.2	43.8

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

SOURCE: U.S. Department of Commerce, Weather Bureau, Decennial Census of U.S.

Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965.

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

Soils 1/

Wasco County has three major areas of soils that can be easily identified. One area occurs along the footslopes of the Cascade Mountains in the western part of the county. It consists of nearly level ridgetops and very steep, V-shaped canyons. The larger streams have cut into recent alluvium, basalt, or consolidated sediments. The elevation ranges from approximately 1,000 feet to 3,500 feet. Generally, the area slopes toward the northeast and drains in that direction.

The Wamic soils are most common along the eastern part of this area, and the Ketchly soils occur in the western part at higher elevations. The area includes significant acreages of Skyline, Frailey, and Bins soils. Small areas of Tygh and Endersby soils occur along the streams.

^{1/} George L. Green, Soil Scientist, Soil Conservation Service, The Dalles, Oregon, May 1969.

The Wamic soils have developed in volcanic ash that was deposited over consolidated sediments. They are moderately deep, medium textured, nonstony soils. The Ketchly soils have developed from volcanic ash mixed with colluvial materials. The Skyline soils occur along the south-facing slopes of canyons. Frailey soils are on very steep north-facing canyon breaks. Bins soils occur in the extreme western part of the area. They are deep loam with thick, loose surface layers.

The eastern part of the county, including the Shaniko ridge area south of the town of Maupin, consists of soils developed from loess deposited over basalt. It has broad, gently sloping to steeply rolling ridgetops and steep to very steep canyons. The elevation ranges from approximately 300 to 3,600 feet.

The Walla Walla, Condon, and Bakeoven soils on ridgetops are most common. Wrentham and Lickskillet soils occur on the steep sideslopes of canyons. Other soils included are Dufur, Tygh, Endersby, Wapinitia, and Maupin.

The Walla Walla and Condon soils are moderately deep, medium textured soils developed in loess. Bakeoven is a shallow, very stony soil developed on ridgetops from basalt. Wrentham soils are very stony, moderately deep soils on north slopes. Lickskillet soils are shallow, very stony soils on south-facing slopes. Dufur soils occur on nearly level to moderately steep areas and are similar to Walla Walla soils. Tygh and Endersby soils are sandy alluvial soils along drainages. Wapinitia and Maupin soils are moderately deep, medium to moderately fine textured occurring on nearly level areas west of Maupin.

The southern part of the county, south of the Antelope escarpment, consists of medium to fine textured soils formed from old sediments and aeolian materials. It consists of narrow ridgetops with steep to very steep canyons and moderately steep rolling uplands. Elevations range from approximately 1,300 to 4,000 feet.

The Tub, Simas, and Currant soils are most common. Other soils included are Sorefoot, Day, Rail, and Willowdale.

The Tub and Simas soils are moderately deep, fine textured, stony to very stony soils developed from fine textured sediments. Currant is a moderately fine textured soil developed in loess over colluvial materials on north-facing slopes. Sorefoot soils are similar to Tub and Simas soils but occur in areas of lower precipitation. Day soils are fine textured, reddish colored soils developed from sediments. Rail and Willowdale are deep, fine and medium textured soils along streams.

Soil Characteristics and Land_Capability

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

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

Capability Class		Use	in Acres		
and Limitations $1/$	Cropland	Pasture-Range	Forest	Other Land	Total
I	0	<u> </u>	0	0	0
II		· · · · · · · · · · · · · · · · · · ·			
E	9,724	1,749	0	0	11,473
S	563	. 0	0	0	563
C	56,425	874	0	7,200	64,499
III	,				
E	86,656	17,322	3,903	7,200	115,081
S	24,963	876	0	0	25,839
IV			· ·		÷
E	33,044	2,838	16,462	7,200	59,544
W	3,635	4,811	0	0	8,446
V	0	0	0	0	0
VI					-
E	2,826	161,753	177,884	7,200	349,663
S	0	6,123	1,773	0	7,896
VII	Ĭ	0,123	-,,,,		,,,,,,
E	0	3,936	38,157	0	42,093
S	0	489,105	45,821	878	535,804
VIII		- 00,100	75,021		555,504
S	0	3,438	0	36,068	39,506
		3,730		30,000	37,300

^{1/} Limitations: E - main limitation is erosion.

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

W - water in soil interferes with plant growth.

S - soil is shallow, droughty, or stony.

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

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

The state of the s	Acres
nventory Acreage	
Cropland	217,836
Pasture	16,308
Range	676,517
Forest and woodland	284,000
Other land	65,746
Total inventory acres	1,236,117
I de la companya de	
Percent of total land area in inventory	81.1%
	81.1%
on-Inventory Acreage	
on-Inventory Acreage Federal land	247,879
on-Inventory Acreage	
Federal land	247,879 15,584
Federal land	247,879 15,584

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

Table 7. Conservation Treatment Needs, Wasco County, 1967

Classification	Acreage
ALL CROPLAND	217,836
Cropland needing treatment	153,462
Residue cover	88,308
Sod in rotation	31,494
Drainage	0
Management	0
Other $1/\ldots$	33,660
ALL PASTURE AND RANGE	676,517
Pasture and range needing treatment Type of treatment needed:	541,372
Establishment of vegetation	61,732
Improvement of vegetation	471,727
FOREST AND WOODLAND	284,000
Forest and woodland needing treatment Description of problems:	110,000
Establishment of timber stand	55,000
Improvement of timber stand	55,000
OTHER LAND	65,746
Other land needing treatment	16,400

^{1/} Includes water management and strip cropping. SOURCE: Oregon Conservation Needs Committee, Oregon Soil and Water Conservation Needs Committee Ne vation Needs Inventory, U.S. Soil Conservation Service and Oregon State University Extension Service, 1971.

Land Ownership and Land Use

About 18 percent of Wasco County is publicly owned. Almost 17 percent is owned by the federal government. Most of this land is managed by the U.S. Forest Service, although the Bureau of Land Management and Bureau of Reclamation also administer substantial acreages.

Less than 2 percent of the land is owned by the state. The State Game Commission manages most of this acreage.

About one third of the county is forest land while over half is rangeland used for grazing. About 10 percent of the county is used for dryland farming. Only about 4 percent is in intensive agricultural production.

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

	Wasco	County	State
Item	Acres	Percent	Percent
Total land area	1,527,680	100.00	100.00
Land Use			
Urban Industrial	4 , 889	0.32	0.49 0.16
Military Intensive agriculture Dryland farming Forests	60,496 155,365 482,442	3.96 10.17 31.58	0.10 6.52 3.33 44.84
Parks Conservation Grazing	14,054 810,434	0.92 53.05	0.32 2.25 41.50
Nonproductive land			0.49
Total private land ownership Total public land ownership Federal	1,246,425 281,255 251,601 17,325 12,329	81.6 18.4 16.5 1.1 0.8	44.2 55.8 51.8 2.9

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

Table 9. Inventory of State-Owned Real Property, Wasco County, 1970

					<u> </u>
Agency		Land	Tmnwarramant	Total	Annual
Agency			Improvement	Total	Rental
	Acres	Value	Value	Value	Income
Dept. of Forestry	4.07	\$ 1,141	\$ 89,610	\$ 90,751	\$
Game Commission	18,651.23	377,220	750,433	1,127,653	2,130
Oregon State Univ	20.00	15,400	27,212	42,612	
Div. of State Lands.	2,237.39	57,794	<u></u>	57,794	
Columbia Park Hosp.					
& Training Center.	63.76	1,912,950	3,479,783	5,392,733	18,000
Military Dept	1.80	30,000	140,130	170,130	
Highway Division					
Parks	939.09	64,753	134,446	199,199	600
Office and					
Maintenance	12.08	4,094	267,198	271,292	
Total	21,929.42	\$2,463,352	\$4,888,812	\$7,352,164	\$20,730
	1				

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

Table 10. Land Area in Highway, Streets, and Roads, Wasco County

Ownership	Acres	Percent
State highways	4,760	43.2
County roads	5,935	53.8
City streets	335	3.0
Total	11,030	100.0

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

Agricultural Land

In 1969 nearly 1,170,000 acres of Wasco County was in farms. However, less than 10 percent of this farmland was harvested cropland. Most of the farmland was used for grazing livestock. Less than 2 percent of the county's farmland was under irrigation in 1969.

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

	19	964	1	969
Item	Acres	Percent	Acres	Percent
Total land area	1,524,450	100.0	1,523,840	100.0
Proportion in farms		89.8		76.7
	* .			
Acres in farms	1,369,750	100.0	1,168,970	100.0
Cropland harvested	97,101	7.1	106,255	9.1
Cropland pasture	22,110	1.6	28,303	2.4
Other cropland	93,297	6.1	119,921	10.3
Woodland including woodland				
pasture	138,909	10.1	47,262	4.0
Other land	1,018,288	74.3	867,229	74.2
Irrigated land	19,184	1.4	22,516	1.9

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

Over one-third of Wasco County's area is forest land. Most of this area is classified as commercial forest land. Commercial forest land is land which is a) producing or is capable of producing usable crops of wood; b) economically available now or prospectively for timber harvest; and c) not withdrawn from commercial timber use through statute or administrative regulations.

Wasco County forest lands may be divided into three zones: grass-shrub, principal forest, and upper slope forest zones.

In the grass-shrub zone precipitation ranges from 12 to 25 inches. The forests in this zone are characterized by fairly dense stands of scrub oak on the benches and south slopes. Because of the higher precipitation on the north slopes, Douglas fir is more likely to be found. In areas with precipitation more than 16 inches, scattered ponderosa pine is found with the more open grown oaks. This area is mainly privately owned and used for grazing.

Elevation in the principal forest zone ranges from 2,000 to 4,500 feet while precipitation is from 20 to 35 inches annually. Ponderosa pine, the most valuable species, is found growing on benches and south slopes. Douglas fir and associated species—white fir, lodgepole pine, Englemann spruce, true firs, and hemlock—are found growing on north slopes and at higher elevations. In the lower elevations, grazing is an important secondary use.

The upper slope forest zone is characterized by 30 to 35 inches of precipitation, moderate winter snowpack, and generally cool temperatures. True fir, mountain hemlock, lodgepole pine, and western larch are the primary species.

About 47 percent of the commercial forest land is managed by the U.S. Forest Service; most of this land is in Mount Hood National Forest. Another 38 percent of the county's commercial forest is Indian land. Less than four percent is owned by forest industries.

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

Item	Acres	Percent
AND		
AND	1 505 000	100.0
Total land	1,525,000	100.0
Forest land	550,000	36.1
Commercial	419,000	27.5
Unproductive	130,000	8.5
Productive-reserved	1,000	0.1
Nonforest land	975,000	62.9
OWNERSHIP		
All ownerships	419,000	100.0
National forest	198,000	47.3
Other public	159,000	37.9
Forest industry	15,000	3.6
Farmer and miscellaneous private	47,000	11.2

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

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

Ownership	Total Com Growing		Total Comm Sawtimb	
	million cubic ft.	percent	$\frac{\text{million}}{\text{board ft.}} \frac{1}{2}$	percent
DWNERSHIP				
National forest	955	58.4	4,731	65.4
Other public	580	35.4	2,176	30.1
Forest industry Farmer and misc.	32	1.9	99	1.4
private	69	4.2	231	3.2
otal	1,636	100.0	7,237	100.0

^{1/} Scribner log rule.

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

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

Species	Growing	Stock	Sawtim	ber
	million cubic ft.	percent	million board ft.1/	percent
All species	1,636	100.0	7,237	1 0 0.0
Softwoods	1,633	99.8	7,227	99.9
Ponderosa pine	246	15.0	1,171	16.2
Douglas fir	647	39.5	3,172	43.8
Western white pine	23	1.4	99	13.6
Lodgepole pine	23	1.4	28	0.4
White fir	174	10.6	723	10.0
Whitebark pine	2/	$6.\frac{3}{4}$		
Grand fir	$10\overline{4}$	$6.\overline{4}$	364	5.0
Pacific silver fir	65	4.0	162	2.2
Noble fir	71	4.3	299	4.1
Subalpine fir	1	0.1	3	$0.\overline{6}$
Engleman spruce	11	0.7	42	0.6
Mountain hemlock	103	6.3	408	5.6
Western hemlock	120	7.3	584	8.1
Incense cedar	2	0.1	8	0.1
Western red cedar	14	0.9	55	0.8
Western larch	29	1.8	13	0.2
Hardwoods	3	0.2	10	0.1

^{1/} Scribner log rule.

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

^{2/} Less than 500,000 board feet.

^{3/} Less than 0.05 percent.

Water

Two major rivers border Wasco County--the Deschutes on its eastern boundary and the Columbia River on its northern boundary.

The Deschutes River has two major tributary streams, the Warm Springs and White Rivers. Both originate in the Cascade Mountains. The county contains four perennial creeks—Mosier, Mill, Eightmile, and Fifteenmile. All originate in the high timbered area along the western edge of the county and drain into the Columbia River.

The Warm Springs River has widely varying gradients which average 49 feet drop per mile. White River drops about 830 feet per mile in its upper four miles, 96 feet per mile between miles 45 and 20, and averages 48 feet per mile between river mile 20 and its mouth.

Most of the Wasco County stream system is characterized by low flows in the late summer, fall, and winter and high flows in the spring and early summer under natural conditions.

Table 15. Annual Yield of Representative Streams, Wasco County

	Drainage	Years	Mean Annual	l Yield $\frac{1}{}$
Stream and	Area	of	2/	acre-feet
Gaging Point	sq. miles	Record	acre-feet ^{2/}	sq. mile
White R. below Tygh Valley.	368	51	308,400	838
Deschutes R. at Moody,				
near Biggs	10,500	64	4,196,000	304
Columbia R. at The Dalles	237,000	90	140,500,000	593
South Fork Mill Cr. near				
The Dalles	28	6	8,620	209
Mosier Cr. near Mosier	42	5	16,220	386

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

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

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

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

Mavim	m Discharge	Minim	Minimum Discharge		
	,		Flow (cfs)1/		
	[()	1	1 (/-		
1923	13,300	1941	71		
1964	75,500	1957	2,400		
1894	1,240,000	1937	35,000		
1964	1,220	1965	0.8		
1964	4,790	1968	0.6		
	Year 1923 1964 1894	1923 13,300 1964 75,500 1894 1,240,000	Year Flow (cfs)1/ Year 1923 13,300 1941 1964 75,500 1957 1894 1,240,000 1937 1964 1,220 1965		

1/ cfs - cubic feet per second.

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

In The Dalles area the main source of groundwater is The Dalles Groundwater reservoir, which occurs in the Columbia River basalt formation. This zone is exceptionally permeable and has for many years yielded abundant quantities of groundwater. Some wells produce as much as 2,500 gallons per minute. However, from 1928 to 1964 there was a 42 foot decline in this reservoir's water level.

The Rocky Prairie anticline southeast of Mosier forms a barrier to the movement of groundwater in the adjacent upslope Orchard syncline, thereby causing the water to accumulate to a height where it is economically available for irrigation.

Since much of the county lies on a high plateau above the regional water table, high pumping lifts are often required. Many wells in the southern portion of the county have found water near streams by drilling to depths of 8 to 40 feet to gravel. Such wells are used to supplement stream supplies for irrigation.

Domestic water is obtained from wells, springs, streams, and irrigation ditches. Some farmers store water in farm ponds and cisterns which are filled by canals in the early spring and again after fall irrigation.

Municipal water rights are held by The Dalles, Dufur, Maupin, Tygh Valley, Wamic, Antelope, Mosier, and the Chenowith Irrigation Coop.

Irrigation rights are the largest water requirement in the county. Most irrigation water is supplied from streams or surface reservoirs. Low supplies during critical growing periods are a problem.

Most of the industrial water use is in The Dalles area. Other industrial uses are small and scattered throughout the county for mining, milling, manufacturing, sawmills, sand and gravel plants, and railway use.

Table 17. Wasco County Municipal Water Supplies

City	Population Served	Water Source
· · · · · · · · · · · · · · · · · · ·		
Dufur	555	Fifteenmile Creek
Mosier	260	One well
The Dalles	11,975	Mill Creek, Dog River
		and four wells

SOURCE: Oregon State Water Resources Board, Hood River Basin, 1965

Table 18. Sewage Treatment Plants, Wasco County

Location	Year Built	Type ¹ /	Design Popu- lation	Design Flow MGD 2/	Popu- lation Served	Receiving Stream
			÷			
Dufur	1964	L	600	0.06	600	Fifteenmile Cr.
Maupin	1938,64	$\mathbf{A}\mathbf{D}$	500	0.05	500	Deschutes R.
The Dalles Kah-Nee-Ta	1960	P	20,000	3.50	11,700	Columbia R.
Resort	1964	L	375	0.037	150	Warm Springs R.

^{1/} Type: AD - aerobic digestion, L - lagoon, P - primary treatment

SOURCE: Oregon State Sanitary Authority, Water Quality Control in Oregon,

Vol. I, for Calendar Years 1966-67, 1967.

Minerals 1/

Mining in Wasco County is limited mainly to sand and gravel operations. There are gravel pits located at The Dalles, Mosier, and Tygh Valley.

Semiprecious stones, particularly agates, are reportedly located east of The Dalles near the confluence of Threemile Creek and the Columbia River. Although several exploratory oil wells have been drilled in the county, no commercial deposits of oil have been found. There are also deposits of perlite and tuff in the county.

^{2/} MGD - million gallons per day.

^{1/} Oregon State Water Resources Board, <u>Deschutes River Basin</u>, 1961; <u>Hood</u> River Basin, 1965; and John Day River Basin, 1962.

Wildlife

Wasco County has herds of both black-tailed deer and mule deer. Other big game animals in the county include Roosevelt elk and black beer.

Table 19. Big Game Animal Population Trends, Wasco County

Game 1/	Miles	Animals Observed		Animals	Per Mile
Management Unit $\frac{1}{}$	Traveled	1971	1971	1970	5 yr. average <u>2</u> /
Mule deer Maupin	43	104	2,4	2.5	3.7
Black-tailed deer Wasco	54	1,249	23.1	28.4	31.9

^{1/} Game management units listed do not completely cover Wasco County and are not fully contained within its borders.

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

There are numerous species of small game animals in the county including waterfowl, pheasants, quail, chukars, Hungarian partridge, and doves. There are also several species of furbearing animals including beaver, mink, musk-rat, raccoon, fox, and wildcat.

Both resident and anadromous fish are found in Wasco County streams and lakes. Spring chinook enter the Deschutes River. Steelhead also use the river for spawning. Resident fish include rainbow, eastern brook, brown, golden, lake, and Dolly Varden trout.

^{2/ 5} year average - 1966-70.

HUMAN RESOURCES

Population

Wasco County's population was 20,520 in 1972 or about 8.6 persons per square mile. Approximately 52 percent of the population lived in urban areas while the remaining 48 percent lived in rural areas.

The county seat, The Dalles, had a 1972 population of 12,250 or nearly 60 percent of the total county population. The five other incorporated towns in the county had a total 1972 population of 1,270.

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

Racial Group	Number of Persons
Total Caucasian Spanish Language Black American Indian Other	20,133 19,389 116 73 479 76

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

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

		1960	1972		
County	Rank	Population	Rank	Population	
WASCO	21	20,205	22	20,520	
Clackamas	4	113,038	4	178,400	
Gilliam	34	3,069	35	1,980	
Hood River	26	13,395	25	13,540	
Jefferson	30	7,130	28	8,980	
Marion	- 3	120,888	5	157,200	
Sherman	36	2,446	34	2,100	
Wheeler	35	2,722	36	1,820	

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

Table 22. Land Area and Population Density, Wasco County, 1950, 1960, 1970

		Popul:	ation Dens	sity
County and State	Land Area	1950	1960	1970
	- square miles -	- perso	ns per sq	mile -
State of Oregon	96,248	15.8	18.4	21.7
WASCO	2,382	6.5	8.5	8.5
Clackamas	1,887	45.9	59.9	88.2
Gilliam	1,210	2.3	2.5	1.9
Hood River	529	24.1	25.3	25.2
Jefferson	1,794	3.1	4.0	4.8
Marion	1,173	86.4	103.1	129.8
Sherman	827	2.7	3.0	2.6
Wheeler	1,707	1.9	1.6	1.1

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

Wasco County's population declined during the early 1900's but rose at an increasing rate from 1930 to 1965. Although the county's population declined once more from 1965 to 1970, it remained above 20,000 people and most recently has risen again.

Table 23. Population Growth, Wasco County

		Percent Increase or Decrease			
Year	Population	Period	Percent		
1910	16,336				
1920	13,648	1910-1920	(16.5)		
1930	12,646	1920-1930	(7.3)		
1940	13,069	1930-1940	3.3		
1950	15,552	1940-1950	19.0		
1960	20,205	1950-1960	29.9		
1965	23,300	1960-1965	15.3		
1970	20,133	1965-1970	(13.6)		
1972	20,520	1970-1972	1.9		

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

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

		Natural	Net
Year	Net Change	Increase	Migration
1940–1950	2,483	1,041	1,442
1950–1960	4,653	2,598	2,055
1960–1970	-72	1,692	-1,764

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

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

Table 25. Urban and Rural Population, Wasco County 1/

		Urban	,	Rural
Year	Population	Percent Change	Population	Percent Change
1950	7,676		7,876	
1960	10,493	36.7	9,712	23.3
1970	10,423	-0.7	9,710	2/

1/ The urban population comprises all persons living in urbanized areas and in places of 2,500 inhabitants or more outside urbanized areas.

The population not classified as urban constitutes the rural population.

2/ Less than 0.05 percent.

SOURCE: U.S. Bureau of the Census, Census of Population, 1960 and 1970

Number of Inhabitants, Final Report PC(1) - A39, Oregon, U.S.

Government Printing Office, Washington, D.C., 1961, 1971.

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

: ,				
City and County	1960	1965	1971	1972
Wasco County	20,205	23,300	20,080	20,520
Antelope	46	37	55	55
Dufur	488	530	520	515
Maupin	381	410	425	415
Mosier	252	270	210	225
Shaniko	39	77	58	60
The Dalles	10,493	11,600	10,927	10,980
Incorporated area	11,699	12,921	12,195	12,250
Unincorporated area	8,506	10,376	7,885	8,270

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

In 1970 about 37 percent of Wasco County's population was 18 years old or under, while over 11 percent were 65 years or over.

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

	Ma	1e	Fe	male	Tot	al .	Per	cent
Age Group	1960	1970	1960	1970	1960	1970	1960	1970
Total population.	10,243	9,873	9,971	10,260	20,205	20,133	100.0	100.0
Under 5	1,099	723	1,081	732	2,180	1,455	10.8	7.2
5 -9 .	1,136	973	1,071	937	2,207	1,910	10.9	9.5
10-14	1,062	1,064	1,012	1,067	2,074	2,131	10.3	10.6
15-19	648	954	665	927	1,313	1,881	6.5	9.3
20-24	469	464	510	566	979	1,030	4.8	5.1
25-34	1,143	1,083	1,157	1,118	2,300	2,201	11.4	10.9
35-44	1,412	1,100	1,358	1,235	2,770	3,335	13.7	11.6
45-54	1,361	1,323	1,219	1,276	2,580	2,599	12.8	12.9
55-64	928	1,160	854	1,127	1,782	2,287	8.8	11.4
65 and over	976	1,029	1,044	1,275	2,020	2,304	10.0	11.4
Median age	31.4	31.8	30.9	33.0	31.2	32.4		

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

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

	The Da	alles
Age Group	1960	1970
Under 5	1,034	688
5-14	2,067	1,907
15-24	1,069	1,416
25-34	1,131	1,106
35–44	1,450 1,385	1,191 1,379
55–64	985	1,280
65 and over	1,272	1,456
Total population	10,493	10,423
Male	5,135	4,981
Female	5,358	5,442

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 editions.

Employment

The Oregon State Department of Employment reported that the 1971 annual average work force in Wasco and Sherman Counties was 9,800 people. The department also reported an average of 4,709 people on covered payrolls during 1971 in Wasco County alone.

The 1970 Census of Population shows that 7,297 people 16 years and older were employed in Wasco County out of a total labor force of 7,826. These figures are based on a survey taken during March of 1970. About 15.8 percent were employed in manufacturing; retail trade employed 17.6 percent. Other major employers were: construction, 11.2 percent; educational services, 8.1 percent; agriculture and forestry, 9.4 percent; and hospitals and health services, 6.8 percent.

Table 29. Employment Status, Wasco County and The Dalles, 1960 and 1970

	Wasco	County	The D	alles
Subject_	1960	1970 <u>1</u> /	1960	19701/
Total males, 14 years and over	7,123	6,971	1,728	3,621
Total labor force	5,759	5,186	1,296	2,622
Armed forces	26	6		
Civilian labor force	5,733	5,180	1,296	2,622
Employed	5,378	4,849	1,168	2,465
Unemployed	355	331	128	157
Not in labor force	1,364	1,785	432	999
Inmate of institution	160	351	NA*	326
Enrolled in school	439	426	2	188
Other	765	1.008	11	485
Total females, 14 years and over	6,952	7,303	1,923	4,038
Total labor force	2,269	2,640	635	1,528
Employed	2,051	2,448	592	1,437
Unemployed	218	192	43	91
Not in labor force	4,683	4,663	1,288	2,510
Inmate of institution	109	346	NA	340
Enrolled in school	456	474	11	182
Other	4,118	3,843	11	1,988
Married (husbands present) in				
labor force	355	1,777	11	960

^{*}NA - not available.

^{1/ 16} years and over.

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

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

	Number E	nployed
Industry	1960	1970
	Y	
Agriculture	971	683
Forestry and fisheries	52	
Mining	24	15
Construction	790	816
Manufacturing	1,064	1,151
Lumber and wood products	369	318
Food and kindred products	121	140
Other	574	693
Transportation	489	309
Communications	117	113
Wholesale trade	166	309
Retail trade	1,278	1,284
Business services	347	378
Personal servicés	514	339
Hospitals	284	495 <u>1</u> /
Educational services	315	589
Professional and related services	296	275
Public administration	229	290
Utilities and sanitary services	153	198

^{1/} Includes health services.

SOURCE: U.S. Bureau of the Census, Census of Population: 1960 and 1970

General Social and Economic Characteristics, Final Report PC(1)
C39, Oregon, U.S. Government Printing Office, Washington, D.C.,
1962, 1972.

Table 31. Percent of Age Group in Labor Force, Wasco County and The Dalles, 1970

	Wasco	County	The I	alles _
Age Group	Male	Female	Male	Female
Years				
14-15	14.0	12.0	16.2	16.6
16-17	36.6	18.4	41.1	26.2
18-19	56.6	42.9	56.3	43.4
20-21	78.6	37.4	73.0	42.1
22-24	90.9	39.1	91.5	40.0
25-34	92.9	37.8	87.4	37.8
35-44	93.0	49.8	89.8	5 5. 5
45-64	83.8	43.8	82.3	47.5
65 and over	32.0	11.3	31.0	11.5

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

Table 32. Wasco County Occupations, 1970

	N	umber Employe	ed
Occupation	Male	Female	Total
Total employed, 16 years and over Professional, technical, and	4,849	2,448	7,297
kindred workers	555	384	939
EngineersPhysicians and related	NA*	NA	88
practitioners	NA	NA	49
Other health workers	NA	NA	63
Teachers	158	163	321
Technicians, except health	91	9	100
Other professional workers	164	154	318
Managers and administrators	599	145	744
Sales workers	238	199	437
Clerical and kindred workers	211	646	857
Craftsmen and kindred workers	1,213	38	1,251
Operative except transport	459	243	702
Transport	311	23	334
Laborers except farm	380	23	403
Farmers and farm managers	325	11	336
Farm laborers	185	44	229
Service workers	373	621	994
Cleaning service	154	52	206
Food service	80	274	354
Health service	40	184	224
Personal service	29	97	126
Protective service	50	5	55
Private household	0	71	71

*NA - not available.

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

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

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

May 250 450 June 400 440 400 100 450 July 450 400 280 20 August 500 400 250 200 40 September 300 150 October 175 150	Month	Loc	al	Inter Migra	state tory	Intras Migrat	
June 400 440 400 100 450 July 450 400 280 20 August 500 400 250 200 40 September 300 150		1965	1971	1965	1971	1965	1971
June				-			
June 400 440 400 100 450 July 450 400 280 20 August 500 400 250 200 40 September 300 150	May	250	450				<u>`</u>
August 500 400 250 200 40 September 300 150		400	440	400	100	450	5
September 300 150	July	450	400	280		20	
September 300 150	August	500	400	250	200	40	75
		300	150				
0ctober 175	October	175	150				

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

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

Table 34. Annual Average Labor Force in Wasco and Sherman Counties, 1968 and 1971 1/

		Number o	of Persons	3 .
Industry	1968	1969	1970	1971
Civilian labor force	9,370	9,630	9,620	9,800
Workers in labor management disputes	0	0	10	C
Unemployment	690	680	750	720
Percent of labor force	7.4	7.1	7.8	7.3
Employment	8,680	8,950	8,860	9,080
Agricultural	1,370	1,540	1,450	1,380
Nonagricultural	7,310	7,410	7,410	7,700
Self-employed, unpaid family and				
domestics	1,010	990	990	1,040
Wage and salary workers	6,300	6,420	6,420	6,660
Manufacturing	1,040	1,110	1,200	1,300
Lumber and wood	330	340	330	380
Food products	180	210	250	310
Other	530	560	62 0	610
Nonmanufacturing	5,260	5,310	5,220	5,360
Contract construction	610	530	380	440
Transportation, communication,				
utilities	450	420	420	4,10
Wholesale and retail trade	1,450	1,500	1,470	1,540
Finance, insurance and real estate	200	200	190	190
Service and miscellaneous	870	910	930	960
Government	1,680	1,750	1,830	1,820

^{1/} Figures not reported for Wasco County separately.

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

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

Occupation Group	1959	1969
Male, total with earnings Professional, managerial, and kindred	\$4,911	\$7,744
workers	6,338	8,887
Farmers and farm managers	4,320	8,105
Craftsmen, foremen, and kindred workers	5,473	8,053
Operatives and kindred workers	4,890	6,111
Farm laborers	2,065	5,779
Laborers, excluding farm and mine	4,000	3,514
Female, total with earnings	\$1,594	\$2,791
Clerical and kindred workers	2,585	3,640
Operatives and kindred workers		1,940

SOURCE: U.S. Bureau of the Census, Census of Population: 1960 and 1970

General Social and Economic Characteristics, Final Report PC(1) C39, Oregon, U.S. Government Printing Office, Washington, D.C.,
1962, 1972.

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

	Average Er	nployment	Annual Payroll
Industry	1970	1971	1971
Agriculture, forestry, and			
fisheries	30	28	\$ 49,262
Mining	<u>1</u> /	<u>1</u> /	
Contract construction	228	266	3,074,312
Lumber and wood products			
manufacturing	332	388	3,228,377
Food and kindred products			
manufacturing	249	307	1,687,306
Other manufacturing	614	619	5,717,342
Transportation, communication, gas,			
electric, and sanitary services	214	216	1,772,017
Wholesale and retail trade	1,276	1,328	6,735,861
Finance, insurance, and real estate	134	133	924,381
Services and miscellaneous	618	653	2,808,922
Government	739	771	7,609,791
Yearly total	4,435	4,709	\$33,607,886

1/ Not published.

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

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

County	Number Peopl		Percer Labor	
	1968	1971	1968	1971
WASCO and Sherman 1/	690	720	7.4	7.3
Clackamas	NA*	NA	NA	NA
Gilliam	80	50	7.9	5.6
Hood River	440	550	7.3	8.4
Jefferson	250	320	6.4	8.0
Salem Area 2/	4,000	5,400	5.6	6.8
Wheeler	50	60	6.0	7.6

^{*}NA - not available.

SOURCE: Oregon State Department of Human Resources, Employment Division,

Labor Force and Employment in Oregon by County 1968 and 1971

publications, Research and Statistics Section, 1969, 1972.

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

	Number of	Persons
Occupation Group	1960	1970
Professional, technical, and kindred workers.		35 <u>1</u> /
Farmers and farm managers	4	NA*
Managers, officials and proprietors,		
excluding farm	13	NA
Clerical and kindred workers	42	61
Sales workers	31	14
Craftsmen, foremen, and kindred workers	122	124
Operatives and kindred workers	98	68
Service workers, including private		
household	82	87
Farm laborers	36	18
Laborers, excluding farm and mine	116	65

^{1/} Includes managerial workers.

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

^{1/} Wasco County not reported separately.

^{2/} Includes Marion and Polk Counties.

^{*}NA - not available.

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

Item	Employees and Earnings	
Emp loyoog	981	
Employees	696	
Full-time only		
Full-time equivalent employment	749	
Education	436	
Teachers only	296	
Functions other than education	313	
Highways	48	
Public welfare	86	
Hospitals		
Health	12	
Police protection	$\frac{-}{28}$	
Fire protection	54	
Sewerage		
Sanitation other than sewerage	$ar{f 2}$	
Parks and recreation	$\frac{1}{6}$	
Natural resources	7	
Housing and urban renewal		
Correction	4	
Libraries	4	
Financial administration	20	
General control	12	
Water supply	9	
Other local utilities	7	
Other and unallocable	12	
Other and unarrocable	, 12	
October payroll	\$376,000	
Education	239,000	
Teachers only	179,000	
Functions other than education	137,000	
Average monthly earnings, full-time		
employment employment		
Teachers	\$606	
Others	433	

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.

Table 40. Net Effective Buying Income Estimates, \(\frac{1}{2}\) Wasco County,

1967 and 1970

	Net Do	llars	Per Hou	sehold
Area	1967	1970	1967	1970
	- thousand	dollars -	- do1	lars -
State of Oregon Wasco County	\$5,224,888 59,750	\$6,650,690 59,410	\$8,113 3,299	\$9,440 9,002

^{1/} Net effective buying income includes wages, salary, interest, dividends, profits, and property income, minus federal, state and local taxes.

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

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

Year	Bank Debits $\underline{1}/$	Bank Deposits
	thousand	dollars
1965	\$256,000 266,184 270,885 260,059 283,101 289,347	\$39,424 41,749 43,404 45,857 44,769 45,665

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

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

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

Item	Number	Percent	
Mean Income			
Families:			
All races	\$ 9,722	1/	
Caucasian	9,755	='	
Spanish Language	5,150		
Black	10,150		
Other	8,248		
Unrelated individuals:	0,240		
	2 004		
All races	3,894		
Caucasian	3,912		
Spanish Language	4,191		
Black	1,150		
Other	3,069		
Daniel de la la Daniel de Turcia de Cita de			
Families by Family Income Class			
All races:	*** • • • • • • • • • • • • • • • • • •	-	
under \$3,999	710	13.47	
\$4,000-\$5,999	598	11.47	
\$6,000-\$11,999	2,577	48.88	
\$12,000+	1,387	26.31	
total	5,272	100.00	
Caucasian:			
under \$3,999	675	13.09	
\$4,000-\$5,999	579	11.23	
\$6,000-\$11,999	2,539	49.22	
\$12,000+	1,364	26.46	
total	5,156	100.00	
Spanish Language:	- ,		
under \$3,999	6	50.00	
\$4,000-\$5,999		30.00	
\$6,000-\$11,999	6	50.00	
\$12,000+		50.00	
total	12	100.00	
Black:		100.00	
under \$3,999			
\$4,000-\$5,999			
\$6,000-\$11,999	15	71.43	
	. 	71.43 28.57	
\$12,000+	6		
total	21	100.00	
Other:	^ =	A / A /	
under \$3,999	29	34.94	
\$4,000-\$5,999	19	22.89	
\$6,000-\$11,999	18	21.69	
\$12,000+	17	20.48	
total	83	100.00	

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

Item	Number	Percent
Income Below Poverty Level (bp1)		
Families bpl		
All races	436	100.00
Caucasian	398	91.28
Spanish Language	6	1.38
Black		
Other	32	7.34
Persons in families bpl	1,574	
Jnrelated individuals bpl		
Under 65	267	
65 and over	306	
Male family head, 14-64 yrs., bpl		
Employed	160	
Unemployed	22	
Not in labor force	44	
Female family heads bpl in labor		
force with children below 6 yrs	23	
Income source of families and		
unrelated individuals bpl		
Earnings	480	
Social security or railroad		
retirement	502	
Public assistance or welfare	76	

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

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

Education

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

School District, Type School,	Enrollm	ent 1/	High School	
and Number of Each Type	1968-69	1971	Graduates, 1971	
Chenowith School District #9				
Elementary - 3	663	652		
High school - 1	368	351	86	
The Dalles School District #12				
Elementary - 3	1,292	1,282		
Junior high - 1	761	750		
High school - 1	748	751	239	
Petersburg School District #14				
Elementary - 1	92	93		
Dufur School District #29				
Elementary - 1	161	160		
High school - 1	73	90	16	
Tygh Valley School District #40				
Elementary - 1	92	90		
Wamic School District #42				
Elementary - 1	55	45		
Antelope School District #50				
Elementary - 1	14	9		
Maupin School District #84				
Elementary - 1	171	149		
Maupin Union High District #701	4.0			
High school - 1	186	163	39	
County totals				
Elementary - 12	2,540	2,320	<u></u>	
Junior high - 1	761	750		
High school - 4	1,375	1,355	380	
County grand total - 17	4,676	4,425	380	

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

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

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

District	White	Black	American Indian	Spanish Surname	0 ther $\frac{1}{}$	Total
	,		- number of	students -		
Antelope	9			-		9
Chenowith	953	2	27	5	10	997
Dufur	247	·;	3	<u> </u>	1	251
Maupin	144		1	18 (<u></u> 18 () ₂ (145
Maupin UHS	138		7	1	· · · · · · · · · · · · · · · · · · ·	146
Petersburg	79			<u> </u>	<u> </u>	79
The Dalles	2,687	16	25	11	14	2,753
Tygh Valley	72		16			88
Wamic	45	- -	1		<u></u>	46
Total	4,374	18	80	17	25	4,514

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

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

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

	Number	Number		
Education	Males	Females	Total	Percent
Total, 25 years and over	5,696	6,035	11,731	100.0
No school years completed	201	151	352	3.0
Elementary: 1-4 years	103	105	208	1.8
5-7 years		317	627	5.3
8 years	993	706	1,699	14.5
High school: 1-3 years		1,137	2,104	17.9
4 years		2,568	4,464	38.1
College: 1-3 years		662	1,313	11.2
4 yrs. or more.	No. 1	389	964	8.2
Median school years completed.	12.1	12 .2		

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

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

Institution	Number Enrolled		
Total enrolled	550		
Eastern Oregon College	49		
Oregon College of Education	53		
Oregon State University	135		
Portland State University	53		
Southern Oregon College	15		
University of Oregon	60		
Oregon Technical Institute	13		
University of Oregon Dental School			
University of Oregon Medical School	10		
Total in private and independent			
institutions	52		
Total in public community colleges	109		

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

Table 47. Youth Organizations, Wasco County

Organization	Membership
Boy Scouts	NA* NA 635 30 122 1/

^{*}NA - not available.

SOURCE: 1972 4-H figure, State Extension Office, 4-H Division, unpublished data; 1972 FFA figure, State Department of Education, unpublished data; 1972 Girl Scouts figure, Columbia River Council, Portland, unpublished data.

^{1/} No chapter in county.

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

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

Subject	Number
Commitments to felony and correctional institutions, 1967-68	
Total commitments Oregon State Penitentiary Oregon State Correctional Institution MacLaren (boys' training school) 1/ Hillcrest (girls' training school) 1/	24 6 2 12 4
Juvenile court cases, 1968 All cases Delinquency Traffic Other	465 433 18 14

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

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

Health and Vital Statistics

The following tables indicate the number of health care facilities and health personnel located in Wasco County. In addition to Wasco County residents, people in Sherman County and Washington State across the Columbia River also rely on these facilities and personnel. There are somewhat fewer health personnel per capita in Wasco County than for the state as a whole.

From 1968 to 1971 both Wasco County's birth rate and its death rate rose. The birth rate remained below the overall state rate, but the county's 1971 death rate exceeded the state death rate by about 12 percent. In both 1968 and 1971 the county's accidental death rate was well above the state's.

During the 1969 fiscal year, Wasco and Sherman Counties together allocated \$112,778 to their health budget or \$4.71 per capita. This compares with \$5.70 spent per capita on the average by all counties in the state. 1/

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

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

	Number of	Facilities	Number of Beds
Category and Community	Existing	Needed	Existing Needed
General hospitals			
The Dalles	2	1	102 142
Long-term care facilities			
The Dalles	2	2	191 198
Diagnostic and treatment centers			
The Dalles	2	2	

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

Tuberculosis hospitals: none.

Rehabilitation facilities: no facilities are programmed beyond services in area hospitals.

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

Table 50. Diagnostic or Treatment Center Facilities, Wasco County, 1970 $\underline{1}/$

Name	Location	Outpatient Visits During Year
Mid-Columbia Hospital	The Dalles	NA*
The Dalles General Hospital	The Dalles	5,117

^{*}NA - not available.

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

^{1/} A diagnostic and treatment center receives outpatients, has facilities for examination of patients by a physician or dentist, or has x-ray and clinical laboratory services available.

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

Name of Facility	Tontin	Total Capacity	
Name of Facility	Location	Capacity /	0ccupancy
General hospitals			
Mid-Columbia Hospital The Dalles General Hospital.	The Dalles The Dalles	18 84	90 62
Long-term care facilities 1/			
Columbia Basin Nursing Home. Valle Vista Home	The Dalles The Dalles	108 83	98 76
Tuberculosis hospitals			
None			

^{1/} There are no convalescent hospitals or long-term care units of general hospitals in this area.

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

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

	Wasco	State	
Profession	Number	Ratio <u>1</u> /	Ratio <u>l</u> /
Medical doctors and doctors of osteopathy.	21	1,027	770
Dentists	10	2,157	1,470
Registered nurses	78	277	276
Licensed practical nurses	15	1,438	1,002
Pharmacists	21	1,027	1,375
		_,0,	_,

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

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

Wasco Co	State	
Number	Ratio	Ratio
31	144	134
138	640	460
	Number 31	31 144

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

Table 54. Births and Deaths by Major Category, Wasco County, 1968 and 1971

	Wasco County				State
Category	Num	Number		Rate	
	1968	1971	1968	1971	1971
All births 1/	313	308	14.5	15.3	15.6
All deaths $1/\ldots$	189	211	8.8	10.5	9.4
Illegitimate births 2/	28	20	89.5	64.9	78.1
Premature births 2/	21	20	67.1	64.9	57.4
Infant deaths 2/	7	4	22.4	13.0	18.4
Accidental deaths 3/	27	24	125.3	119.5	61.3

^{1/} Rates per 1,000 population.

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

Table 55. Health Statistics, Wasco County, 1971

	Wasco	County	State
Item	Number	Rate1/	Rate <u>l</u> /
Morbidity			
Tuberculosis	1	5.0	11.6
Syphilis	1	5.0	5.3
Gonorrhea	11	54.8	422.0
Influenza	25	112.8	1,171.7
Hepatitis, infectious	11 2/	42.8 2/	45.1
Measles (Rubella)			18.1
eaths from all causes	211	10.5 3/	9.4
Malignant neoplasms (cancer)	29	144.4	168.4
Diabetes mellitus	8	39.8	13.3
Heart diseases	85	423.3	349.6
Cerebrovascular diseases	21	104.6	110.9
Arteriosclerosis	6	29.9	21.2
Other cardiovascular diseases	5	24.9	17.3
Influenza and pneumonia	4	19.9	26.4
Bronchitis, emphysema, asthma	8	39.8	26.9
Peptic ulcer			4.3
Cirrhosis of liver	4	19.9	15.8
Congenital anomalies			8.2
Certain infancy mortality causes	3	14.9	14.7
All other diseases	15	74.7	76.9
Accidents	20	99.6	61.3
Suicide	3	14.9	14.9
Homicides		- -	3.8

^{1/} Rate per 100,000 population.

^{2/} Rates per 1,000 live births.

 $[\]overline{3}$ / Rate per 100,000 population.

^{2/} Includes Sherman County. 1966-68 average taken from Office of the Governor, Planning Division, Health Facts, 1969.

^{3/} Rate per 1,000 population.

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

Public Welfare

Table 56. Public Welfare Payments for Assistance, Wasco County Area, $\underline{1}/$ August 1972.

Category	Number of Cases	Average Payments
Cases receiving non-medical payments		A E1 11
Old Age Assistance	136	\$ 51.11 112.45
Aid to the Blind	11	
Aid to the Disabled	83	88.71
Aid to Dependent Children $2/\ldots$	786	37.97
General Assistance	83	34.37
Foster Care	NA*	NA NA
Physicians services <u>2</u> /		
OAA	32	\$ 13.93
AB	6	11.33
AD	37	20.66
ADC	191	22.04
GA	22	12.57
FC	21	13.92
Hospital payments 2/		
OAA	4	\$303.29
AB	1	78.00
AD	16	269.41
ADC	23	297.16
GA	4	228.78
FC	2	131.91
Drug payments 2/		
0AA	107	\$ 19.78
AB	7	45.56
AD	53	20.83
ADC	113	6.10
	22	10.79
GA		4.50
FC	11	4.50

^{*}NA - not available.

 $[\]frac{1}{2}$ Includes Hood River and Sherman Counties, District Office at The Dalles. Persons, not cases.

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

Table 57. Average Monthly Public Welfare Payments by Type of Service, Wasco County Area, Fiscal Years 1968-69 and 1971-72 $\frac{1}{2}$

	Average Payment Per Case
Type of Service	1968-69 1971-72
Old Age Assistance	\$ 58.96 \$ 53.55
Aid to the Disabled	62.94 80.91
Aid to the Blind	75.41 99.99
General Assistance	28.85 41.10
Aid to Dependent Children 2/	
UN <u>3</u> /	12.31 40.41
Basic <u>3</u> /	37.10 45.48

^{1/} Includes Hood River and Sherman Counties, District Office at The Dalles.

The State of Oregon operates three special schools for the handicapped, all located at Salem in Marion County. The School for the Blind provides special education for approximately 100 children with acute vision problems in a boarding school situation. The School for the Deaf provides parallel training for severely handicapped children from four years of age through high school. Oregon Fairview Home provides in- and out-patient training for mentally deficient minors and adults.

Housing

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

	The Dalles			
Subject	Number	Percent		
Occupancy				
All year-round housing units	3,784	100.0		
Owner occupied	2,244	59.3		
Renter occupied	1,243	32.8		
Vacant year-round	297	7.9		
Facilities				
Telephone available	NA*			
Air conditioning	1,776	46.9		
Median gross rent of renter occupied $\underline{1}/\ldots$	\$93			

^{*}NA - not available.

^{2/} Payment per person, not case.

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

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

^{1/} Excludes one-family homes on 10 acres or more.

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

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

	Wasco Cou	inty	State
Subject	Number Units		Percent
Occupancy			
All housing units	7,289	100.0	100.0
Vacant-seasonal or migratory	162	2.2	1.3
Owner occupied	4,358	59.8	61.3
Renter occupied	2,117	29.0	31.5
Vacant year-round	652	8.9	5.9
Population in housing units per unit			
Owner occupied	2.5	<u></u>	80 20 41 0
Renter occupied	2.3		
Persons per room			
All occupied units	6,475	100.0	100.0
1.00 or less	6,035	93.2	94.7
1.01 to 1.50	343	5.3	4.2
1.51 or more	97	1.5	1.1
Facilities			
Lacking some or all plumbing			
facilities	253	3.9	3.6
Telephone available	5,575	86.1	89.5
Air conditioning	3,037	46.9	10.3
All condictioning	3,037	40.7	10.5
	- number -		- number
	- Indiaber	V 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Humber
Median number of rooms	4.9		5.0
Median value 1/	\$13,600		\$11,300
Median gross rent 2/	\$92		\$107
neuran gross rent 2/	Y 72		7107

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

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

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

THE COUNTY'S ECONOMY

Agriculture, lumbering, and metal production are major components of Wasco County's economy. The lumbering industry utilizes the county's large areas of forest land while cattle are grazed on its rangelands and crops of small grain and tree fruits are grown on farmland. Also, aluminum production uses the hydroelectric power generated from the bordering Columbia River.

Agriculture

The major agricultural income products in Wasco County recently have been sweet cherries, small grains, and beef cattle. All agricultural sales contributed over \$13 million to the county's economy in 1970. Over 300 people were employed during 1970 to process agricultural products in the county.

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

Subject	1959	1964	1969
	 		· · · · · · · · · · · · · · · · · · ·
Approximate acres of land area	1,524,480	1,524,450	1,523,840
Proportion in farms	89.8%	89.8%	76.7%
Total number of farms	669	599	542
Acres in farms	1,370,488	1,369,750	1,168,970
Average size of farms	2,048.6	2,286.7	2,156.7
Average per farm	\$61,799	\$98,638	\$140,528
Average per acre	\$39.39	\$43.09	\$65.15

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

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

Tenure	1959	1964	1969
Full owners	434	388	345
Part owners	162	138	133
Managers	5	8	
Tenants	68	65	64
Total operators	66 9	599	542

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

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

Subject	1959	1964	1969
			<u> </u>
Average age (years)	50.4	51.6	52.2
Farm operators 65 years and over	97	89	94
Years of school completed:			
Elementary: 0-4 years	NA*	11	NA
5-7 years	11	58	
8 years	11	97	11
High school: 1-3 years	11	85	11
4 years	11	255	11
College: 1-3 years	t1	57	11
4 years or more	11	36	.11

^{*}NA - not available.

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

In 1969 about 54 percent of Wasco County farms were 260 acres or larger in size. Nearly 20 percent were 2,000 acres or larger while average farm size was over 2,100 acres.

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

	<u> </u>				<u> </u>	
		Number			Percent	
Size	1959	1964	1969	1959	1964	1969
		-				
Less than 10 acres	17	23	23	2.5	3.8	4.2
10 to 49 acres	113	89	96	16.9	14.8	17.7
50 to 69 acres	27	31	29	4.0	5.2	5.4
70 to 99 acres	38	37	28	5.7	6.2	5.2
100 to 139 acres	26	28	19	3.9	4.7	3.5
140 to 179 acres	52	52	28	7.8	8.7	5.2
180 to 219 acres	24	17	15	3.6	2.8	2.8
220 to 259 acres	22	11	10	3.3	1.8	1.8
260 to 499 acres	80	65	62	12.0	10.8	11.4
500 to 999 acres	88	69	69	13.1	11.5	12.7
1,000 to 1,999 acres	76	77	58	11.4	12.9	10.7
2,000 acres or more	106	100	105	15.8	16.7	19.4
Total farms	669	599	542	100.0	100.0	100.0
	1				11/2 8	

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

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

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

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

		Number			Percent	
Economic Class	1959	1964	1969	1959	1964	1969
Commercial farms	507	434	430	76.7	72.4	79.3
or more)	73	35	80	11.0	5.8	14.8
Class II (sales of \$20,000 to \$39,999)	98	81	102	14.8	13.5	18.8
to \$19,999)	108	116	108	16.3	19.4	19.9
Class IV (sales of \$5,000 to \$9,999)	137	90	67	20.7	15.0	12.4
to \$4,999)	70	71	61	10.6	11.9	11.3
to \$2,499)	21	41	12	3.2	6.8	2.2
Other farms	154 132	165 125	112 84		20.9	
Part-retirement	21	39 1	26 2		6.5 0.2	4.8 0.4
Total farms	661	1/ 599	542	100.0	100.0	100.0

^{1/} Discrepancy between total farms and total farms reported elsewhere.

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

Income from the sale of crops and livestock in Wasco County was over \$15 million during 1970. Crop sales accounted for about 66 percent of this income. Tree fruits contributed the major portion of crop income with about 38.6 percent of all agricultural sales. Sweet cherries alone contributed 37.5 percent. Other important income crops were: small grains, 24.5 percent; hay, 1.5 percent; and specialty horticultural crops, 0.6 percent.

Livestock sales earned 34 percent of all the county's agricultural income. Cattle and calves accounted for 29.1 percent alone while hogs added 1.9 percent.

Table 65. Value of Farm Products Sold, $\frac{1}{}$ Wasco County, 1966-1970

Product	1966	1967	1968	1969	1970 <u>2</u> ,
			-	-	
		thous	sand dol	lars	
All crops, livestock and			0 706	10 070	10 (10
livestock products	12,119	11,758	9,786	13,273	13,618
All crops	9,025	8,659	6,299	9,324	8,986
All grain, hay and seeds	3,691	3,960	3,355	3,530	3,550
All seed crops	- 1				3
All grain and hay	3,691	3,960	3,355	3,530	3,547
All hay	181	180	118	185	204
All grains	3,510	3,780	3,237	3,345	3,343
Wheat	2,777	3,596	2,958	2,907	2,754
Barley	724	178	272	428	577
Vegetables, fresh and for					
processing	95	68	63	52	47
All berries	2	2	. 2	1	1,
All tree fruits and nuts	5,162	4,526	2,769	5,562	5,255
Specialty field crops			18	30	28
Specialty horticultural					
crops	62	73	67	114	80
All livestock and livestock	0.004	0.000	2 / 07	2 0/0	/ (22
products	3,094	3,099	3,487	3,949	4,632
Dairy products	143	145	125	112	114
Poultry products	93	84	90	112	103
Cattle and calves	2,414	2,427	2,284	3,336	3,963
Sheep and lambs	147	141	175	107	127
Hogs	236	236	197	227	265

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

^{2/} preliminary.

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

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

Crops Harvested	1969	1970 <u>1</u> /
Corn for grainSmall grains	<u>2</u> /	2/
Wheat	63,000	55,000
0ats	700	900
Barley	13,000	15,000
Hay crops	19,600	21,000
Field seed crops	2/	2/
Vegetables	$\frac{\overline{2}}{}$	$\overline{2}/$
Berries	$\overline{2}$ /	$\overline{2}/$
Tree fruits, nuts, and grapes $3/$	$6,92\overline{6}$	NA*

^{*}NA - not available.

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

From 1950 to 1970 the number of all cattle and calves in Wasco County increased over 37 percent. During the same period the number of sheep and lambs and dairy cattle decreased substantially.

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

Category <u>1</u> /	1950	1960	1969	1970 <u>2</u> /
All cattle	25,500	32,000	36,000	35,000
Dairy cattle	1,900	1,000	350	350
Sheep and lambs	27,000	27,500	5,000	5,500
Hogs	5,700	7,000	4,000	NA*
Chickens	NA	NA	18,000	18,000
Turkeys raised	NA	NA	150	100

^{*}NA - not available.

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

Most agricultural products are marketed outside the county in areas of greater population density. Wheat and barley are transported via rail, truck, and barge to Portland and marketed worldwide. Fruits are processed and packed locally and marketed nationally.

^{1/} preliminary.

^{2/} Not reported, either little or no acreage.

^{3/} From U.S. Census of Agriculture, 1969.

^{1/} Numbers as of January 1, unless otherwise indicated.

 $[\]overline{2}$ / preliminary.

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

	Number o	of Firms	Employment	
Product Group	1968	1970	1968	1970
Meat products				
Meat packing plants	2	2	5	5
Dairy products	0	0		
Canning and processing fruits and vegetables				
Canned fruits and vegetables	1.	1	28	28
Pickled fruits and vegetables	2	2	287	245
Grain mill products	1	1	NA*	20
Bakery products	2	2	14	14
Bottled soft drinks	1	1	11	11
Miscellaneous food preparations	0	0	<u></u>	
Total	9	9	345	323

^{*}NA - not available.

SOURCE: Oregon State Department of Commerce, Economic Development Division,

Directory of Oregon Manufacturers - 1968.

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

Logging and Wood Products

Logging and wood-using industries are a significant part of Wasco County's economy. In 1970 they employed nearly 100 persons.

An average of 115 million board feet of timber was harvested annually in the county from 1960 through 1970. Some of this production was processed in the county by local sawmills. Ponderosa and Jeffrey pines are the dominant species although Douglas fir is also important.

In 1968 Wasco, Jefferson, and Wheeler Counties used over 83 million board feet of Wasco County's log production. During the same period it exported about 23 million board feet to other counties.

About 145,000 tons of bark and wood residue were produced by sawmills in Wasco, Jefferson, and Wheeler Counties during 1968. Nearly 104,000 tons of this residue were consumed for such uses as pulp, particle board, or fuel.

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

	Number	of Firms	Employment	
Product Group	1968	1970	1968	1970
			-	
Logging camps and contractors	3	4	8	37
Sawmills and planing mills	1	2	70	85
Millwork	0	0	/ 	
Veneer and plywood	0	0		
Miscellaneous wood products	1	1	97	97
Total	5	7	175	219

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

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

From 1960 through 1970 timber harvested in Wasco County varied from 87,000,000 board feet in 1968 to 156,468,000 board feet in 1960. The annual average for the 1960-1970, eleven year, period was about 115,000,000 board feet.

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

Ownership	Production ^{2/}	Percent of Total		
Total timber harvest	103,414	100.0		
Private <u>3</u> /	4,674	4.5		
Bureau of Land Management $4/\ldots$	1,016	1.0		
National forest 5/ State 3/	50,965 	49.3 		
Indian <u>6</u> /	46,759	45.2		

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

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

^{2/} Scribner log rule - thousand board feet.

 $[\]overline{3}$ / Compiled by State Forestor.

^{4/} Compiled by Bureau of Land Management.

^{5/} Compiled by U.S. Forest Service.

^{6/} Compiled by U.S. Bureau of Indian Affairs.

Table 71. Log Consumption in Thousand Board Feet by Species and Industry, Wasco, Jefferson, and Wheeler Counties, 1968 1/

	Type of Industry				
Species		Veneer and	Shake and		
	Sawmills	P1ywood	Shingle		
All species	148,387	2/	2/		
Douglas fir	45,268				
Hemlock	10,000				
True firs	4,724				
Ponderosa and Jeffrey pines	83,595				
White and sugar pine	4,800				
Other softwoods					
Hardwoods	-				

^{1/} Scribner log rule. Counties reported together to avoid disclosure.

 $\overline{2}$ / None reported.

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

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

Industry	Capacity
Sawmill-lumber <u>1</u> /	195,000
Veneer and plywood $2/$ Pulp and board mills $3/$	$\frac{4}{4}$

 $[\]frac{1}{2}$ Scribner log rule, board feet. $\frac{2}{2}$ Square feet, $\frac{3}{8}$ inch basis.

 $\frac{3}{4}$ 24 hour capacity in tons. $\frac{4}{4}$ None reported.

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

Manufacturing

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

		_ 	
	Item	Value Added	Percent of Total
All manufa	cturing <u>1</u> /	\$23,400,000	100.0

^{1/} Separate industrial groups are reported only where 450 or more persons are employed.

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

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

	Numbe	r of	Firms	Emp1o	yment
Product Group	1968		1970	1968	1970
Ordnance and accessories	0		0		
Textile mill products	0		0		· ·
Finished products from fabrics	0		0		
Printing, publishing and allied					
industries					
Newspapers	1		1	21	21
Commercial printing	2		2	5	5
Chemicals and allied products	0)	0	·	
Leather products	0		0		
Machinery except electrical					
Construction equipment	1		0	1	
Miscellaneous machinery	1		1	3	2
Electrical machinery	0		0		
Transportation equipment	0		0		
Professional, scientific, and					
controlling instruments and					
optical goods	0		0	·	
Miscellaneous manufacturing goods	0		0		·
Total	5		4	30	27

SOURCE: Oregon State Department of Commerce, Economic Development Division,

Directory of Oregon Manufacturers - 1968.

Oregon State Executive Department, Economic Development Division,

Directory of Oregon Manufacturers - 1970.

Mining - Mineral and Metal Industries

Most of the income from mineral production in Wasco County is derived from stone and sand and gravel. The level of income varies considerably from year to year depending on the amount of construction activities in the area.

An aluminum production plant near The Dalles is a major employer in the county. The plant makes use of hydroelectric power generated from the neighboring Columbia River and employees around 500 people.

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

	Number of	Firms	Employment	
Product Group	1968	1970	1968	1970
Petroleum refining and related	1 100			
industries	0	0		
Stone, clay, glass, and concrete	1.0			
products	1			
Ready-mix concrete	3	3	. 11	11
Cut stone and stone products	1	1	4	4
Primary metal industries		14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Primary aluminum production	1	1	500	500
Fabricated metal product	.0	0		
Total	5	5	515	515
	1			

SOURCE: Oregon State Department of Commerce, Economic Development Division,

Directory of Oregon Manufacturers - 1968.

Oregon State Executive Department, Economic Development Division,

Directory of Oregon Manufacturers - 1970.

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

Year	Value	Minerals Produced in Order of Value
1963	\$1,087,000	Stone, sand and gravel
1965	1,947,000	Stone, sand and gravel
1970	869,000	Sand and gravel, stone

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

Outdoor Recreation

Wasco County has a number of outdoor recreation facilities including state parks, recreation areas, and waysides; U.S. Forest Service and Bureau of Land Management camps; and county parks.

Part of Mount Hood National Forest and over half of the Warm Springs Indian Reservation are located in the county. Modern tourist facilities have been developed on the Warm Springs Reservation.

Excellent fishing is provided by numerous county streams and lakes including the Deschutes River, which has been designated a scenic waterway. The Dalles Dam forms a large reservoir of water on the Columbia River bordering the northern portion of the county.

Hunting is also popular in the county. More hunters participate in the deer season each year than in any other season; but pheasant, quail, ducks, geese, and elk are also hunted in fairly large numbers.

Table 77. Wasco County Park and Recreation Facilities, 1972

Ownership and Name	Acres	Facilities and Activies $\underline{1}/$
State .		
State	06 55	
Deschutes River Recreation Area	3 6. 55	C,F,P
Koberg Beach State Wayside	10.40	F,P,S
Mayer State Park	613.29	B,F,P,S
Memaloose State Park	336.79	C,P,Tc
Tygh Valley State Wayside	295.13	NA*
J.S. Forest Service		
Frog Lake	NA	C,F,S,Tc
Clear Lake	11	B,C,F,Tc
Clackamas Lake	ti -	C,H,F,Tc
Bear Springs	111	C, P, Tc
Rock Creek Reservoir	11	
		F,P,Tc
Eighteenmile Crossing	•	C,F,P
Bureau of Land Management		
Beavertail-Macks Canyon	11	C,F,P,R
County		
Celilo	11	B,Hi,F,S,P
Tygh Valley		C,H,F,P,R,Tc

*NA - not available.

1/ Facilities and activities:

B - boating

Hi - historical interest

S - swimming

F - fishing

P - picnicking

Tc - trailer camping

H - hiking

R - rockhounding

C - camping

SOURCES: Oregon State Department of Transportation, State Highway Division, State Parks and Recreation Section, "State Park Acreages", 1972; and Travel Information Section, "Oregon Parks", 1972.

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

		4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Attendance				
1968-69	1969-70	1970-71	1971-72	
4,74				
57,204	68,966	74,936	72,417	
10,192	13,644	14,052	13,503	
78,208	69,632	151,120	188,576	
64,960	65,756	61,944	71,182	
NA*	1.254	8,147	11,699	
	57,204 10,192 78,208 64,960	1968-69 1969-70 57,204 68,966 10,192 13,644 78,208 69,632 64,960 65,756	1968-69 1969-70 1970-71 57,204 68,966 74,936 10,192 13,644 14,052 78,208 69,632 151,120 64,960 65,756 61,944	

^{*}NA - not available.

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

Table 79. Wasco County Game Harvest

	Hunters		H		
Game		Percent of		Percent of	Days
	Number	State Total	Number	State Total	Hunted
				1	
Pheasant	1,998	2.77	4,723	1.94	7,418
Quail	1,209	4.62	11,022	6.95	5,907
Chukar partridge	982	5.93	4,675	4.06	3,654
Hungarian partridge	178	3.47	501	3.15	1,463
Blue and ruffed grouse.	91	1.18	45	0.27	162
Silver gray squirrel	208	4.55	229	1.05	529
Band-tailed pigeon	25	0.20	48	0.04	22
Mourning dove	655	4.00	8,718	4.43	2,296
Ducks	510	0.91	1,200	0.21	3,010
Geese	320	1.14	240	0.14	1,430
Deer 1/	4,810	1.72	910	1.04	NA*
E1k 2/	1,140	1.53	103	1.00	5,700

^{*}NA - not available.

 $[\]underline{1}/$ Figures for Wasco and Maupin state game management units do not cover all of Wasco County and are not fully contained within its borders.

^{2/} Figures for Wasco state game management unit which does not cover all of Wasco County and includes part of Hood River County.

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

Business

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

Kind of Business	Number Establish-	Number Paid 1/	Sales
Killd of Busilless	ments	Employees	(\$1,000)
		, mprojecs	1 (41,000,
Retail trade, total	220	1,164	\$42,927
Lumber, building materials, hard-			
ware, farm equipment dealers 2/	17	NA*	2,807
General merchandise group stores	5	11	1,884
Food stores	21		9,265
Automotive dealers	17	$\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \right) \right)}{1} \right) \right) \right)} \right) \right) \right)} \right) \right)} \right)} \right) } \right) } } } }$	12,472
Gasoline service stations	41	11	3,728
Apparel, accessory stores	10	\mathbf{u}	1,613
Furniture, home furnishing,			
equipment stores	20	11	2,099
Eating, drinking places	36	11	2,613
Drug, proprietary stores	8	Samuel Control of the Control	2,759
Other retail stores	35	11	2,373
Nonstore retailers	10	F	1,314
71-1111		261	622 064
Wholesale trade, total	44	361	\$23,864
Merchant wholesalers 3/	22	NA	10,364
Other operating types	22	11	13,500

^{*}NA - not available.

^{1/} Excludes active proprietors of unincorporated businesses.

^{2/} Only counties with 500 or more retail establishments are reported by specific kinds of business.

^{3/} Only counties with 100 or more wholesale establishments are reported by specific kinds of business.

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

Table 81. Selected Services, Wasco County, 1967

Kind of Business	Number Establish- ments	Receipts (\$1,000)	Number Paid <u>1</u> / Employees
Selected services, total	165	\$4,513	279
Hotels, motels, tourist courts, camps 2/	19	NA*	NA.
Personal services	58	ेंग	11
Miscellaneous business services	27	n n	11
Auto repair, services, garages	19	H .	11
Miscellaneous repair services	31	n '	11
Motion pictures	4	"	

^{*}NA - not available.

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

^{1/} Excludes active proprietors of unincorporated businesses.

^{2/} Only counties with 300 or more service establishments are reported by specific kinds of business.

PUBLIC SERVICES

Transportation

Several major roadways cross Wasco County. Interstate 80 runs along the northern edge of the county and joins it with Pendleton in the east and Portland to the west. Federal Highway 197 runs north and south through the center of the county. State Highway 216 goes east and west across the center of the county. Federal Highways 20 and 97 also cut across the southern corners of the county.

Regular bus service is available along most federal routes. An airport which served The Dalles is located across the Columbia River in Washington. The Dalles also maintains a port, and barge service is available on the Columbia River.

The Oregon Trunk Railroad from Bend crosses the county and intersects the Union Pacific Railroad along the Columbia River.

Table 82. Miles of Roadway in Wasco County, 1972

Agency	Miles	
Federal agency roads	808 244 826 55	
Total	1,933	

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

SOURCE: Transportation Research Institute, Oregon State University,

Functional Classification of Public Roads and Streets in Oregon,
1970.

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

Subject	Number	
Aircraft	36	
Boats	559	

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

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

	Number of Vehicles			
Vehicle	1970	1972		
Passenger vehicles Buses Trucks Trailers Motorcycles Recreational 1/ Snowmobiles	13,167 13 1,105 712 568 974 NA*	13,918 0 1,127 385 764 1,312 54		
Total vehicles	16,539	17,560		

^{*}NA - not available.

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

Communication

There are three radio stations located in Wasco County. In addition to these stations, many others can be received from outside the county. Although there are no teleivision stations in the county, several stations are received from outside the county by individual antenna and cable television is available in The Dalles area.

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

Facilities	Number of Hous	ing Units
ractifities	1900 1	1970
Battery radio sets		
Yes	NA*	5,145
No	NA	1,289
Telephone available		
Yes	5,122	5,575
No	1,180	900
Television sets		
One	4,531	4,826
Two or more	421	982
None	1,350	626
UHF equipped television		
Yes	NA	2,500
No	NA	3,308

^{*}NA - not available.

SOURCE: U.S. Bureau of the Census, Census of Housing: 1960 and 1970

Detailed Housing Characteristics, Final Report HC(1) - B39, Oregon,

U.S. Government Printing Office, Washington, D.C., 1962, 1972.

^{1/} Includes campers and travel trailers.

Table 86. Communication Facilities, Wasco County

		Network
Type of Service	Location	Affiliation
Radio stations		
KACI	The Dalles	
KCIV-FM	The Dalles	
KODL	The Dalles	
Telephone		
Deschutes Telephone Company		
(Telephone Utilities, Inc.)	Maupin, Pine Grove,	
	Tygh Valley, Wamic	
North State Telephone Company	Dufur	
Trans-Cascades Telephone Company	Antelope	
United Telephone Co. of the		
Northwest	Mosier	
Pacific Northwest Bell	The Dalles	
Television		
None located within the county, but		
stations from outside the county		
are received.		
		A company
Newspapers		and the state of t
Chronical	The Dalles	
(Portland papers available)		
	and the second of the second o	

SOURCE: Oregon Association of Broadcasters, Directory of Radio and Television Stations for the State of Oregon, 1972.

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

Pacific Northwest Bell, unpublished data.

Library Facilities

Support for libraries in Wasco County comes from the county and The Dalles. During the 1969-70 fiscal year \$65,037 were provided while \$58,796 were spent for libraries in the county.

Only total figures for volume and expenditures were reported for Wasco County although circulation figures were given for each community. The county's circulation per capita of 3.2 and expenditure per capita of \$2.37 compare with state average figures for all counties in Oregon of 6.3 and \$3.48.

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

City	Volumes	Circu- lation	Circ./ Capita	Hrs. Open Per Week	Operating Expend.	Expend/ Capita
The Dalles	26,760	61,104	5.2	63	\$58,796	
Antelope		1,025	34.2	40		
Dufur		1,566	3.1	45		
Maupin		1,408	3.1	6		
Mosier	ilej iz - e ez	2,230	8.3	12		
Tygh Valley		412	NA*	12		
Extension Service.		677				 -
County total	26,760	68,422	3.2		\$58,796	\$2.73

^{*}NA - not available.

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

Utilities

About 80 percent of Wasco County's housing units were served by public or private water systems and around 58 percent were on public sewer systems in 1970.

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

	Wasco	Wasco County		
Subject	Number	Percent <u>l</u> /	Percent1/	
Water source				
Public system or private company.	5,663	79.5	79.8	
Individual well	1,123	15.8	16.9	
Other or none	335	4.7	3.3	
Sewage disposal				
Public sewer	4,136	58.0	61.0	
Septic tank or cesspool	2,847	39.9	37.5	
Other or none	138	1.9	1.5	

^{1/} Percent of all year-round housing units.

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

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

	The Dalles			
Subject	Number	Percent1/		
Water source				
Public system or private company.	3,775	99.8		
Individual well	7	0.2		
Other or none	 *			
Sewage disposal				
Public sewer	3,704	97.9		
Septic tank or cesspool	78	2.1		
Other or none				

^{1/} Percent of all year-round housing units.

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

Table 90. Types of Fuels and Fuel Usage, Number of Housing Units,
Wasco County, 1960 and 1970

Type of Fuel	Home H	_	Water Fu	Heating el	Cook Fue	_
	1960	1970	1960	1970	1960	1970
Utility gas Fuel oil, kerosene, etc Coal or coke Wood Electricity Bottled, tank or LP gas Other fuel None	184 2,652 76 632 2,625 76 57	584 1,837 42 122 3,610 219 20	201 98 22 5,566 98 317	249 102 36 5,864 106 77	178 80 290 5,222 532 	168 21 53 5,777 367 48
All occupied housing units	6,302	6,434				

SOURCE: U.S. Bureau of the Census, Census of Housing: 1960 and 1970

Detailed Housing Characteristics, Final Report HC(1) - B39,

Oregon, U.S. Government Printing Office, Washington, D.C.,
1962, 1972.

Wasco County is served with electric power by Pacific Power and Light Company, Northern Wasco County PUD, and Wasco Electric Co-op Incorporated.

In addition to the Dalles Dam which is located on the northern border of the county, Bonneville Dam is located about 30 miles west of the county down the Columbia River and John Day Dam is only about 15 miles upstream from the county's northeast corner. The three dams have a total rating of over five million kilowatts.

Table 91. Electric Power Resources, Wasco County

Plant	Stream	Type ¹ /	Name Plate 2/ Rating-KW 2/	Ownership
The Dalles	Columbia R.	Н	1,807,000	U.S. Army, Corps of Engineers

1/ H - hydroelectric. 2/ KW - kilowatts.

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

PUBLIC FINANCE

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

	Wasco County		State
Item	Total Amount	Per Capita Amount	Per Capita Amount
	- \$1,000 -	dollars	
General revenue, exc. interlocal	\$6,994	\$318	\$308
Intergovernmental revenue	2,028	92	97
From state government	1,928	88	83
From local sources	4,967	226	210
Taxes	3,625	165	156
Property	3,552	161	151
Other	73	3	5
Charges and miscellaneous	1,342	61	54
Direct general expenditure	6,505	296	316
Capital outlay	383	17	62
Other	6,122	278	254
Education	3,673	167	180
Other than capital outlay	3,477	158	152
Highways	981	45	30
Other than capital outlay	848	39	20
Public welfare	293	13	2
Hospitals			6
Other than capital outlay Health	82	_ _ 4	 4
Police protection	207	9	12
Fire protection	184	8	9
Sewerage	59	3	8
Other than capital outlay	53	2	3
Sanitation other than sewerage	12	1	2
Parks and recreation	70	3	10
Natural resources	151	7	4
Housing and urban renewal			4
Correction	37	2	2
Libraries	58	3	3
Financial administration	197	9	5
General control	98	4	8
General public buildings	46	2	3
Interest on general debt	152	7	6
Other and unallocable	203	9	21
Water supply revenue	239	11	12
Water supply expenditure	267	12	13
General debt outstanding	4,116	187	214
Long-term	4,116	187	203
Local schools	2,010	91	101
Other	2,106	96	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 93. Summary of Assessment Rolls for 1971-72 Fiscal Year Real Property, Personal Property and Utilities, Wasco County

Item	Assessed Value	Percent of Total
Class		
Doel property		
Real property Lands inside corporate limits	\$ 18,606,020	8.5
Lands outside corporate limits	40,758,240	18.7
Improvements inside corporate limits	46,064,620	21.1
Improvements inside corporate limits	55,458,970	25.4
Timber (excludes land)	33,430,370	
Less veterans exemptions	(1,577,770)	0.7
Less senior citizens residence exemptions.	(1,115,580)	0.5
		72.6
Taxable real property	158,194,500	72.0
Personal property		
Merchandise and stock in trade	12,500,224	5.7
	1,476,570	0.7
Furniture, fixtures and equipment	3,990,320	1.8
Farm machinery and equipment	3,776,240	1.7
Other machinery and equipment		1.4
Livestock	3,000,860	0.5
Miscellaneous	1,187,740	
Less veterans exemptions	(15,350)	$\frac{1}{1}$
Less senior citizens residence exemptions	(12,740)	11.9
Taxable personal property	25,903,864	11.9
Total taxable real and personal property	184,098,364	84.5
Utilities		
Airline companies		
Electric companies	8,815,098	4.0
Express companies	0,015,050	
Gas companies	4,038,657	1.8
Heating companies	4,050,057	
Pipeline companies		
Railroad companies	13,541,814	6.2
Tank and private car companies	1,114,950	0.5
	3,500	
Telegraph companies	6,162,757	$2.\frac{1}{8}$
Telephone companies	78,500	
Water companies	109,800	$0.\overline{1}^{\prime}$
Water transportation companies	1 · ·	15.5
Taxable utility property	33,865,076	1.J.J
Total taxable real, personal and utility		
property	\$217,963,440	100.0

^{1/} Less than 0.05 percent.

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

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

Item	Amount in Dollars
evies	
ounty	\$ 672,534
Cities	577,776
Community colleges	1,762
Elementary and secondary school districts	
Intermediate county	929,836
Education joint	9,778
Elementary and unified	3,116,188
Union high	164,684
County unit	
Total school districts	4,220,486
Special districts	4,220,400
Cemetery	
Fire protection	124,515
Hospital	
Park and recreation	9,673
Port	42,244
Road	
Sanitary	
Water supply	
Other	1,204
Total special districts	177,636
Cotal gross ad valorem levies	5,650,194
Special assessments	3,030,154
Fire patrol	15,125
Forest fee	
Diking and drainage	
Irrigation	
Lighting	
Other	
Total special assessments	15,125
Cotal gross levies and assessments	5,665,319
ess property relief money	3,003,319
Senior citizens	(33,968)
Game Commission	(55,900)
Cotal net ad valorem levies	5,616,226
Net ad valorem taxes by class	3,010,220
	4,203,899
Real property	660,502
Personal property	
Utility property	751,825

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

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

Item	The Dalles	Dufur	Antelope
opulation	10,927	520	55
		\$2,294,807	
rue cash value (TCV)	\$74,453,894		\$138,129
er capita TCV	6,814	4,413	2,511
ity tax	546,492	10,763	
onsolidated tax	2,356,350	54,020	2,544
er capita tax			
City	\$ 50	\$ 21	
Consolidated	216	104	\$ 46
ercentage of total levy			
County	9.7	13.0	16.7
City	23.2	19.9	0.0
School	66.3	62.9	83.3
Other	0.8	4.1	0.0
verage rate/\$TCV basis			J.,
County	3.07	3.07	3.07
	7.34		.00
City		4.69	
School	20.99	14.81	15.35
Other	0.25	0.97	.00
Total	31.65	23.54	18.42
<u>_</u>	and the second s		
Item	Maupin	Mosier	Shaniko
	*-		
opulation	425	210	58
opulation rue cash value (TCV)	425 \$1,919,300	210 \$832,013	58 \$81,98 ²
opulation rue cash value (TCV) er capita TCV	425 \$1,919,300 4,516	210 \$832,013 3,962	58 \$81,98 ²
opulationrue cash value (TCV) er capita TCV	425 \$1,919,300 4,516 12,917	210 \$832,013	58 \$81,98 ² 1,41 ⁴
opulation	425 \$1,919,300 4,516	210 \$832,013 3,962	58 \$81,984 1,414
opulationrue cash value (TCV) er capita TCV ity tax onsolidated tax	425 \$1,919,300 4,516 12,917 46,946	210 \$832,013 3,962 7,605 29,320	58 \$81,984 1,414
opulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30	210 \$832,013 3,962 7,605 29,320 \$ 36	58 \$81,98 ² 1,41 ⁴ 1,45 ⁴
opulation	425 \$1,919,300 4,516 12,917 46,946	210 \$832,013 3,962 7,605 29,320	58 \$81,98 ² 1,41 ⁴ 1,45 ⁴
opulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30 110	210 \$832,013 3,962 7,605 29,320 \$ 36 140	58 \$81,984 1,414 1,454 \$ 25
opulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30 110	210 \$832,013 3,962 7,605 29,320 \$ 36 140	58 \$81,984 1,414 1,454 \$ 25
opulation	\$1,919,300 4,516 12,917 46,946 \$ 30 110 12.6 27.5	210 \$832,013 3,962 7,605 29,320 \$ 36 140	58 \$81,984 1,414 1,454 \$ 25 17.3
opulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30 110 12.6 27.5 59.9	\$832,013 3,962 7,605 29,320 \$36 140 8.7 25.9 65.4	58 \$81,984 1,414 1,454 \$ 25 17.3 0.0 82.7
opulation	\$1,919,300 4,516 12,917 46,946 \$ 30 110 12.6 27.5	210 \$832,013 3,962 7,605 29,320 \$ 36 140	58 \$81,984 1,414 1,454 \$ 25 17.3 0.0 82.7
opulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30 110 12.6 27.5 59.9 0.0	210 \$832,013 3,962 7,605 29,320 \$ 36 140 8.7 25.9 65.4 0.0	58 \$81,984 1,414 1,454 \$ 25 17.3 0.0 82.7 0.0
opulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30 110 12.6 27.5 59.9 0.0	210 \$832,013 3,962 7,605 29,320 \$ 36 140 8.7 25.9 65.4 0.0	58 \$81,984 1,414 1,454 \$ 25 17.3 0.0 82.7 0.0
opulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30 110 12.6 27.5 59.9 0.0	210 \$832,013 3,962 7,605 29,320 \$ 36 140 8.7 25.9 65.4 0.0	58 \$81,984 1,414 1,454 \$ 25 17.3 0.0 82.7 0.0
opulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30 110 12.6 27.5 59.9 0.0	210 \$832,013 3,962 7,605 29,320 \$ 36 140 8.7 25.9 65.4 0.0	58 \$81,984 1,414 1,454 \$ 2! 17.3 0.0 82.3 0.0 14.60
copulation	425 \$1,919,300 4,516 12,917 46,946 \$ 30 110 12.6 27.5 59.9 0.0	210 \$832,013 3,962 7,605 29,320 \$ 36 140 8.7 25.9 65.4 0.0	Shaniko 58 \$81,984 1,414 1,454 \$ 25 17.3 0.0 82.7 0.0 3.07 .00 14.66 .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, Research and Special Services Division, 1972.

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

Item	Total Amount	Amount Unpaid	Percent Unpaid
Property taxable			
Real	\$3,880,383	\$584,534	15.1
Personal	542,137	82,829	15.3
Public utilities	694,129	9,930	1.4
Western Oregon additional timber tax	en e		
Yield tax			
Other	5,169	1/	
Total for collection	\$5,121,818	\$677,293	13.2
			A HOUSE AND A SECOND COMMENTS

^{1/ &}quot;Other" taxes unpaid are not reported or included in total unpaid.

SOURCE: Oregon State Department of Revenue, Summary of Assessment and Tax

Rolls for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property

Tax Collections, Research and Special Services Division, 1972.

Selected List of Agencies

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

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

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

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

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

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