Wallowa County, Oregon

RESOURCE ATLAS

- NATURAL
- HUMAN
- ECONOMIC
- PUBLIC

AUGUST 1973

EXTENSION *Community Development* PROJECT

OREGON STATE UNIVERSITY

Wallowa County, Oregon

RESOURCE ATLAS

NATURAL
HUMAN
ECONOMIC
PUBLIC

August 1973

Oregon State University Extension Service

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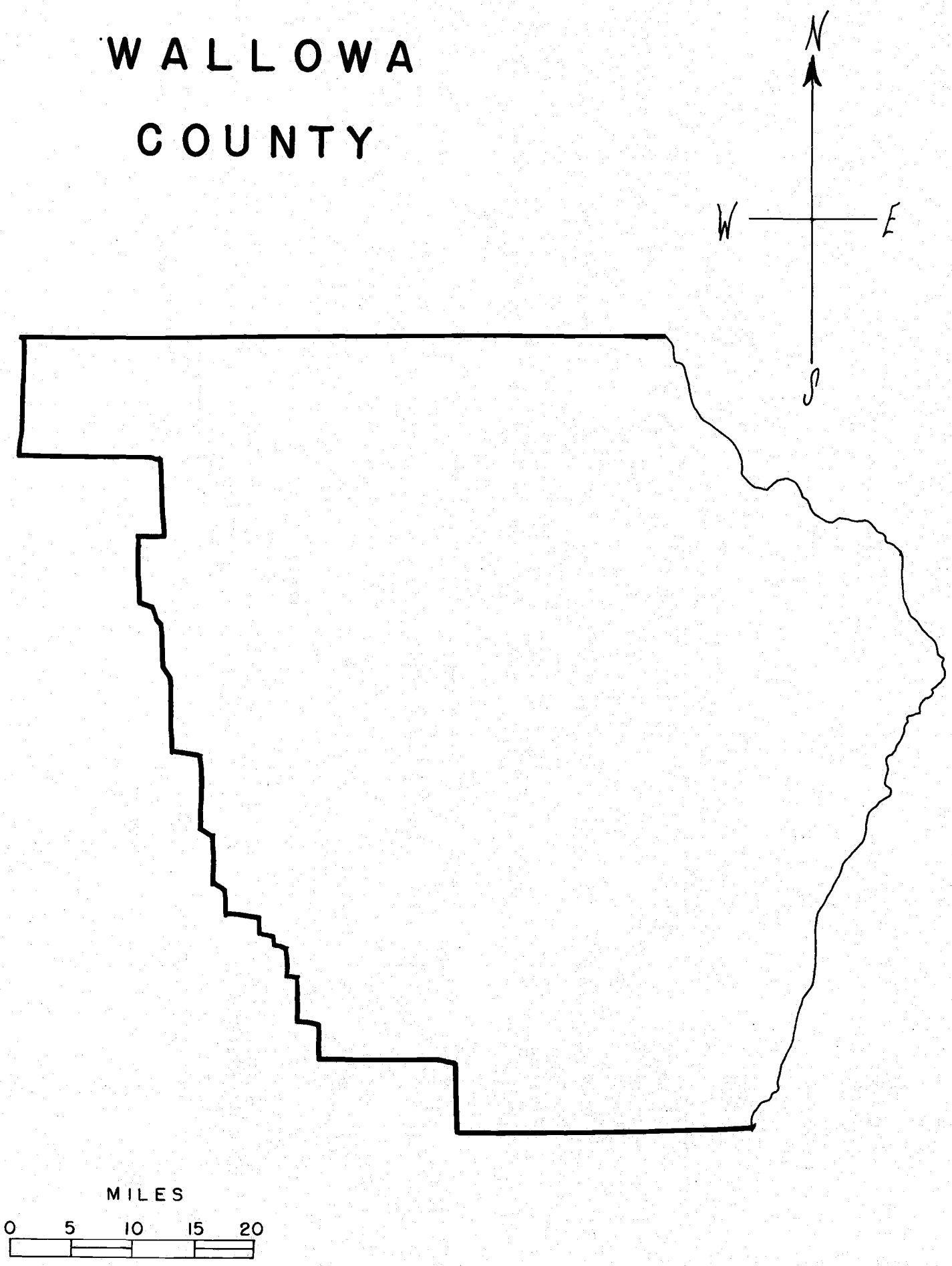
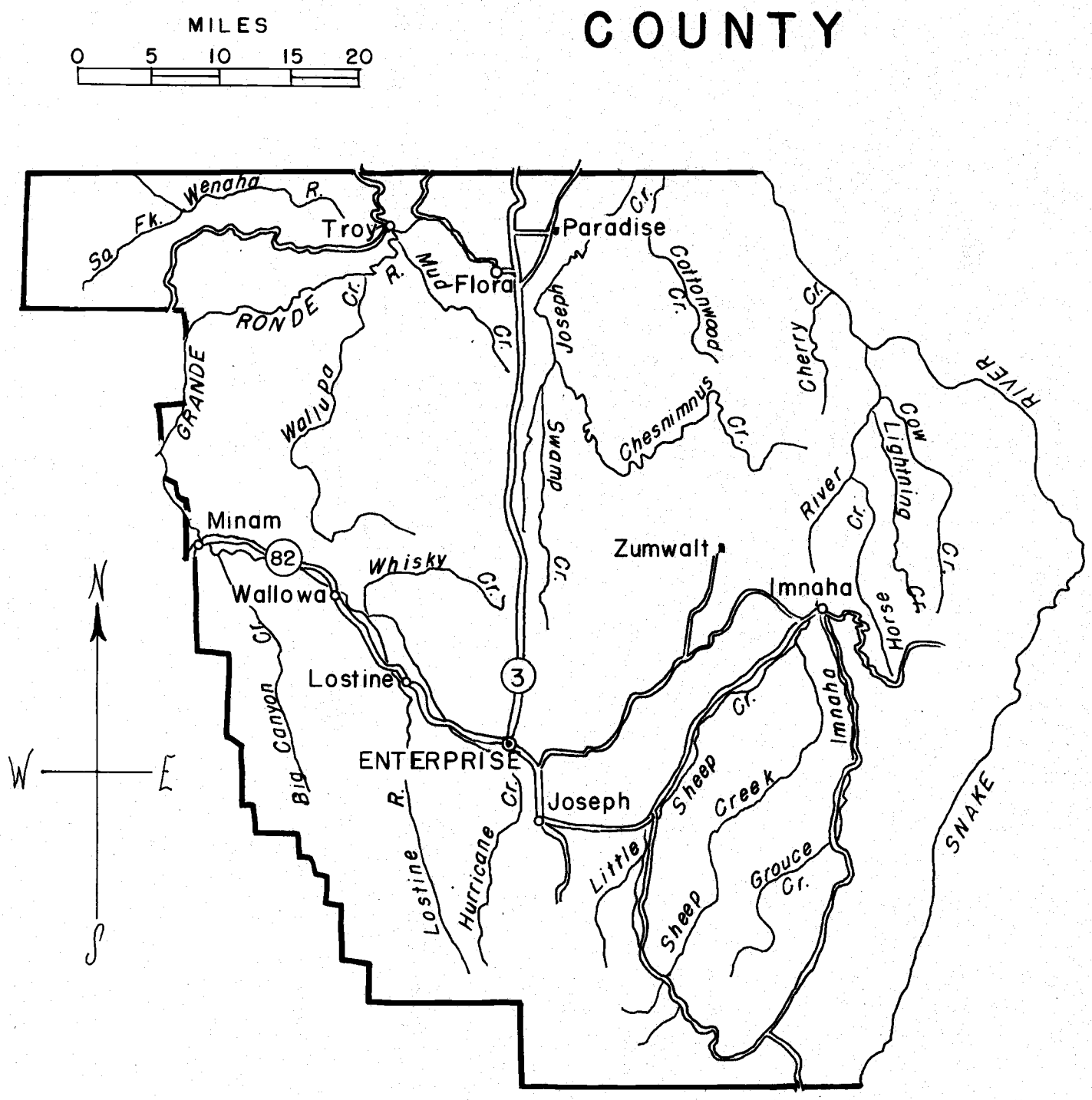
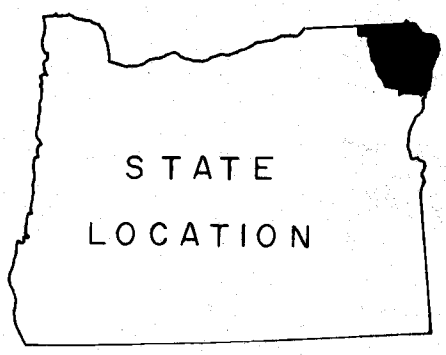
WALLOWA COUNTY



WALLOWA COUNTY





LEGEND

PRIMARY HIGHWAYS

SECONDARY HIGHWAYS

COUNTY ROADS

INTERSTATE HIGHWAYS

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GENERAL DESCRIPTION [1/]

Wallowa County is located in the extreme northeast corner of Oregon. The county's elevation varies from 1,500 feet in the Snake River Canyon to 10,000 feet at the peaks of the Wallowas.

The county has a growing season of 70 to 120 days with a danger of frost year around. Precipitation varies from 10 to 20 inches annually.

The principal industries in the county are lumbering, livestock raising, farming, and recreation. Cattle production is the largest agricultural activity with wheat and barley ranking second and third.

Over half of the county is federally owned. The county's population has decreased from over 7,000 in 1960 to approximately 6,250 in 1970.

Wallowa County was established in 1887. Its Indian name means "land of winding waters".

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

Area: 2,392 square miles
1,530,880 acres

Population: 6,210 (1972)

Elevation at Enterprise: 3,757 feet

True Cash Value: $136,767,829 (July 1, 1972)

Average Temperature:
Winter - 28.7°F.
Summer - 59.3°F.

Principal Industries:
Lumbering, Agriculture, Recreation

County Seat: Enterprise

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

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

PHYSICAL ASPECTS [1/]

Wallowa County's topography is characterized by rugged mountains which give way to the valleys of the Grande Ronde and Wallowa Rivers. The lower reaches flow through precipitous canyons, isolated plateaus, and semi-wilderness areas.

Peaks in the Wallowa Mountains approach 10,000 feet in elevation and rise to about 7,700 feet in the Blue Mountains. The Grande Ronde Valley lies at a relatively high elevation, generally between 2,600 and 2,700 feet. The Wallowa Valley, the next largest generally flat area in the county, ranges from 2,800 to approximately 4,300 feet in elevation.

Wallowa Lake and many smaller lakes in the county were formed by the gouging and damming action of glaciers. Most of the county's rivers drain in a northerly direction into the Snake River.

Climate

The climate in Wallowa County varies mainly with the elevation. Annual precipitation varies from 56 inches in the Wallowa Mountains at high elevations to 12 inches in the valleys. Snowfall varies from 46 to 66 inches with elevation.

Table 1. Weather Stations and their Elevations, Wallow County

Station	Elevation in Feet
Enterprise.....	3,760
Minam 7NE.....	3,584
Wallowa.....	2,935

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

1/ Oregon State Water Resources Board, Grande Ronde River Basin, 1960.

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

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Average Temperature	- - - - - - - - - - - - degrees Farenheit - - - - - - - - - - - -												
Enterprise...	24.5	28.3	33.0	42.8	49.9	55.6	63.1	60.1	54.8	45.2	32.8	27.2	43.1
Minam 7NE 1/.	--	--	--	--	--	--	--	--	--	--	--	--	--
Wallowa 2/...	24.5	31.6	36.4	45.1	52.7	58.2	65.1	62.1	56.7	46.9	34.7	30.2	45.4
Total Precipitation	- - - - - - - - - - - - - - - - inches - - - - - - - - - - - - - - - -												
Enterprise...	0.9	0.9	1.1	1.1	2.3	2.2	0.7	0.9	0.9	0.9	0.9	1.0	13.7
Minam 7NE....	3.1	2.4	2.3	1.9	2.6	2.1	0.6	1.1	1.3	2.1	2.9	3.2	25.7
Wallowa.....	2.0	1.5	1.7	1.5	2.3	1.7	0.7	0.9	1.1	1.5	2.3	2.0	19.3

1/ Average temperature data is not available for this station.
2/ Some months are for 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.

The following table indicates an average day time high and low temperature for each month over the years 1951-1961.

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

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Mean Daily Maximum Temp.	- - - - - - - - - - - - degrees Farenheit - - - - - - - - - - - -												
Enterprise 1/	34.3	39.2	45.3	57.2	64.9	71.9	83.9	80.5	74.5	61.4	45.2	37.3	58.0
Wallowa 1/...	31.1	41.1	47.7	59.4	67.7	74.1	81.5	82.7	76.9	62.9	46.1	36.2	59.6
Mean Daily Minimum Temp.	- - - - - - - - - - - - degrees Farenheit - - - - - - - - - - - -												
Enterprise...	14.3	17.2	20.7	28.4	34.9	39.1	42.3	39.7	35.1	29.0	20.3	17.1	28.2
Wallowa 1/...	16.0	22.1	25.1	30.8	37.6	42.3	44.4	41.5	36.5	36.8	23.4	21.9	31.0

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

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

Station	Mean Number of Days with Temperature of 32°F or Below												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
	days												
Enterprise...	30	27	30	22	12	4	1	3	11	22	27	30	219
Wallowa.....	29	25	26	17	8	2	1/	1	10	19	24	28	189

1/ Less than 0.5 days.
SOURCE: U.S. Department of Commerce, Weather Bureau, Decennial Census of U.S. Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965.

For current climatological data on Wallowa 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/

Four major physiographic divisions have been identified within the Grande Ronde River Basin, which includes nearly all of Wallowa County: (1) the alpine area of the Wallowa Mountains; (2) the forested uplands; (3) the grass uplands; and (4) the valley lands, which are composed primarily of the Grande Ronde and Wallowa Valleys.

The alpine region is located primarily above the 6,800 foot level in the Wallowa Mountains. No soil series have been identified in this region, but the soils are generally shallow and coarse textured except where silty volcanic ash has collected in pockets and on forested north slopes.

The forested uplands, which cover the largest portion of the region, are made up mainly of plateaus and steep canyons. North slopes with ashy soils support mixed coniferous forests. South slopes tend to have stoney shallow soils with open stands of predominantly ponderosa pine.

Grass-shrub uplands include canyon lands along the Snake and Imnaha Rivers and their tributaries ranging down to 900 feet elevation and high plateaus, up to 5,500 feet, north and east of the Wallowa Valley. Shallow, stoney soils are on south slopes and moderately deep stoney soils are on north slopes. Very shallow, stoney Rock Creek soils are found on narrow ridges and near the numerous rock outcrops on canyon slopes.

1/ Simenson, G.H., E.G. Knox, H.W. Hill, and R.W. Mayko, General Soil Map Report with Irrigable Areas, Grande Ronde Drainage Basin; Appendix I-8, Oregon's Long-Range Requirements for Water, Oregon State University Agricultural Experiment Station and U.S.D.A. Soil Conservation Service in cooperation with Oregon State Water Resources Board, 1969.

The valley lands are composed primarily of Wallowa and Grande Ronde Valleys. Soils of the Grande Ronde Valley are formed in recent stream alluvium aeolian deposits of sand and silt, lacustrine deposits high in volcanic ash or diatomaceous earth, and glacial outwash deposits. The Wallowa Valley soils have thick, dark surface horizons high in organic matter content.

Soil Characteristics and Land Capability

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

Use	Acreage
Inventory Acreage	
Cropland	102,618
Pasture	3,690
Range	421,669
Forest and woodland	309,000
Other land	16,996
Total inventory acreage	853,973
Percent of total land area in inventory	42%
Non-Inventory Acreage	
Federal land, non-cropland	1,159,651
Urban and build-up areas	15,296
Water areas	5,000
Total non-inventory acreage	1,179,947
Total land area	2,033,920

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

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

Table 6. Use of Wallowa County Acreage by Capability Class and Type of Limitation, 1967

Capability Class and Limitation 1/	Use in Acres				
	Cropland	Pasture-Range	Forest	Other Land	Total
I.....	0	0	0	0	0
II					
E.....	13,724	0	0	738	14,462
W.....	1,248	0	0	0	1,248
C.....	3,982	0	0	0	3,982
III					
E.....	40,583	7,931	34,943	1,377	84,834
W.....	2,396	0	0	539	2,935
S.....	5,510	0	0	639	6,149
IV					
E.....	15,573	5,352	1,000	1,000	22,925
S.....	5,050	0	0	100	5,150
C.....	12,071	13,666	0	0	25,737
V.....	0	0	0	0	0
VI					
E.....	0	28,000	125,267	4,538	157,805
S.....	2,481	121,810	0	2,077	126,368
VII					
E.....	0	54,201	51,270	2,577	108,048
S.....	0	194,399	96,020	2,577	292,996
VIII					
S.....	0	0	500	834	1,334

1/ Limitations: E - main limitation is erosion.
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.

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, Wallowa County, 1967

Classification	Acres
ALL CROPLAND	102,618
Cropland needing treatment	63,331
Type of treatment needed:	
Residue cover	12,995
Sod in rotation	20,995
Drainage	0
Management practices	17,119
Other	12,391
ALL PASTURE AND RANGE	425,359
Pasture and range needing treatment	147,247
Type of treatment needed:	
Vegetation improvement	136,780
Vegetation reestablishment	10,467
ALL FOREST LAND	309,000
Forest land needing treatment	131,000
Type of treatment needed:	
Establishment of timber stand	88,000
Improvement of timber stand	43,000
ALL OTHER LAND	16,996
Other land needing treatment	2,000

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

Land Ownership and Land Use

In this publication, land ownership in Wallowa County is classified as public lands; including federal, state, and county ownership; or as private lands. Nearly 60 percent of the county is publicly owned. Over half of the land in the county is owned by the federal government, of which 95 percent is administered by the U.S. Forest Service. The remaining federal land is administered by the Bureau of Land Management. About 13,000 acres, or less than one percent of the county's land is owned by the state.

Most of the land in Wallowa County is devoted to forestry and grazing. Third in importance is farming. Over half the county is forest land, and about 36 percent is used primarily for grazing. A large area, over 7.5 percent, is used for conservation.

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

Item	Wallowa County Acres	Wallowa County Percent	State Percent
Total land area.....	2,033,920	100.00	100.00
Land Use			
Urban.....	1,424	.07	.49
Industrial.....	---	---	.16
Military.....	---	---	.10
Intensive agriculture.....	45,153	2.22	6.52
Dryland farming.....	38,637	1.90	3.33
Forests.....	1,069,029	52.56	44.84
Conservation.....	154,578	7.60	2.25
Grazing.....	723,093	36.65	41.50
Non-productive land.....	---	---	.49
Land Ownership			
Total private land ownership.....	848,481	41.70	44.20
Total public land ownership.....	1,185,439	58.30	55.80
Federal.....	1,158,126	56.90	51.80
State.....	13,163	.60	2.90
Local.....	14,150	.70	1.10

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

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

Agency	Acres	Land Value	Improvement Value	Total Value	Annual Rental Income
Department of Forestry..	7.34	$ 1,032	$ 96,680	$ 97,712	$ 324
Game Commission.....	9,572.39	294,260	299,260	593,520	726
Division of State Lands.	2,171.87	99,750	---	99,750	---
Aeronautics Division....	91.00	19,480	---	19,480	---
Highway Division					
Parks.....	1,377.26	83,740	913,818	997,558	366
Office & Maintenance..	3.58	13,124	70,343	83,467	420
Totals.....	13,223.44	$511,386	$1,380,101	$1,891,487	$1,836

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

Table 10. Land Area in Highways, Streets and Roads, Wallowa County

Ownership	Acres	Percent
State highways.....	1,380	21.5
County roads.....	4,850	75.5
City streets.....	195	3.0
Total.....	6,425	100.0

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

Agricultural Land

The land base for agriculture in Wallowa County consists of 127,325 acres of cropland, 126,919 acres of woodland, and 418,167 acres of other farm land. About 6 percent of the county area is cropland. A large portion of the county is devoted to grazing land and pasture.

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

Item	1964		1969	
	Acres	Percent	Acres	Percent
Total land area.....	2,033,950	100.0	2,033,984	100.0
Proportion in farms....		35.4		33.1
Acres in farms.....	721,365	100.0	672,411	100.0
Cropland harvested.....	64,650	9.0	62,608	9.3
Cropland pasture.....	22,016	3.1	33,295	5.0
Other cropland.....	26,401	3.7	31,422	4.7
Woodland including woodland pasture.....	188,628	26.1	126,919	18.9
Other land.....	419,668	58.2	418,167	62.2
Irrigated land.....	45,524	6.3	39,329	5.8

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

Timber is an important asset of Wallowa County. Ponderosa pine is the major species found in the county and is the chief source of sawmill timber. It is found growing bordering sagebrush and grass up to an elevation of 5,500 feet. This species varies from pure stands to mixtures with other pines. At a given elevation, ponderosa pine gives over to other species such as white fir, lodgepole pine, and western larch. Douglas fir occupies little area in Wallowa County.

About 55 percent of the county is forest land, of which 80 percent is classified commercial.

About 296,200 acres of Wallowa County's forest land was privately owned in 1957. About 66 percent of the forest land in the county, 577,220 acres in 1957, was in federal ownership. Of this 99 percent lies within national forests. The remaining one percent is under control of the Bureau of Land Management. The State of Oregon owned less than 0.5 percent, or 4,420 acres, of forest land in Wallowa County. The county owned 270 acres in 1957, again less than 0.5 percent.

The major uses of forest land in Wallowa County are: protection of commercial timber crops, recreation, and watershed protection. Other minor uses are for wildlife habitat and grazing.

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

On many private holdings, the only management is that related to the harvesting of mature timber, while other private owners are more concerned with continuous production. Tree farming is gaining some acceptance.

In 1957, there was an estimated 878,110 acres of commercial forest land in Wallowa County. Commercial forest land is forest land that is (a) producing, or is physically capable of producing, usable crops of wood, (b) economically available, now or prospectively, for timber harvest, and (c) not withdrawn from timber harvest.

The U.S. Forest Service estimates there was 223,210 acres of noncommercial forest land in Wallowa County in 1957. Noncommercial forest land is physically incapable of producing usable crops of wood or is reserved, that is, withdrawn from timber harvest through statutes, ordinance, or administrative order.

More current data on forest lands for Wallowa County will be available after August 1, 1973 from U.S.D.A. Forest Service, Pacific Northwest Forest and Range Experiment Station, P.O. Box 3141, Portland, Oregon 97213.

Table 12. Forest Acreage, Ownership and Use, Wallowa County, 1957

Item	Acres	Percent
LAND		
Total land	2,011,830	100.00
Forest land	1,101,320	55.00
Commercial	878,110	44.00
Noncommercial	223,210	11.00
Productive-reserved	70,440	3.00
Nonproductive	152,770	8.00
Nonforest land	910,510	45.00
OWNERSHIP		
All commercial forest land	878,110	100.00
Private	296,200	34.00
State	4,420	1/
County	270	1/
Federally owned or managed	577,220	66.00
Bureau of Land Management	4,690	1.00
National forest	572,530	65.00
Indian	---	---

1/ Less than 0.5 percent.
SOURCE: U.S. Forest Service, Forest Statistics for Wallowa County, Oregon, Forest Survey Report 134, Pacific Northwest Forest and Range Experiment Station, April 1960.

Table 13. Volume of All Growing Stock and Sawtimber by Ownership, Wallowa County, 1957

Item	Total Commercial Growing Stock		Total Commercial Sawtimber	
	million cubic ft.	percent	million board ft. 1/	percent
OWNERSHIP				
All ownerships	1,803	100	7,289	100
Private	399	22	1,488	21
State	5	2/	19	2/
County	3/	2/	2	2/
Federally Owned or Managed	1,399	78	5,780	79
Bureau of Land Management	6	2/	25	2/
National forest	1,393	77	5,755	79

1/ International 1/4 inch rule.
2/ Less than 0.5 percent. 3/ Less than 0.5 million.
SOURCE: U.S. Forest Service, Forest Statistics for Wallowa County, Oregon, Forest Survey Report 134, Pacific Northwest Forest and Range Experiment Station, April 1960.

Table 14. Volume of All Growing Stock and Sawtimber on Commercial Forest Land by Species, Wallowa County, 1957

Item	Growing Stock		Sawtimber	
	million cubic ft.	percent	million board ft.1/	percent
All species	1,803	100	7,289	100
Softwoods	1,785	99	7,256	100
Ponderosa pine	500	28	2,476	34
Western white pine	2	2/	5	2/
Lodgepole pine	164	9	256	4
Douglas fir	437	24	2,058	28
Western larch	159	9	788	11
White fir	276	15	920	13
Subalpine fir	101	6	254	3
Engelmann spruce	142	8	482	7
Mountain hemlock	4	2/	17	2/
Hardwoods	18	1	33	2/
Black cottonwood	10	.6	33	2/
Quaking aspen	2	2/	3/	2/
Red alder	3	2/	--	--
Northwestern paper birch	3	2/	--	--

1/ International 1/4 inch rule.
2/ Less than 0.5 percent. 3/ Less than 0.5 million.
SOURCE: U.S. Forest Service, Forest Statistics for Wallowa County, Oregon, Forest Survey Report 134, Pacific Northwest Forest and Range Experiment Station, April 1960.

Water 1/

More than 3,100 streams, totaling over 5,600 miles in length, comprise the basin's drainage system. Most of the major surface drainage streams originate in the Wallowa Mountains. All of these and other major streams are tributaries of the Snake River. The Imnaha, Wallowa, and Minam Rivers head in the Wallowa Mountains and drain in a northerly direction. The Imnaha River empties directly into the Snake River while the Minam and Wallowa Rivers join the Grande Ronde River, which in turn, empties into the Snake River.

Wallowa County is divided into three sub-basins: the Lower Grande Ronde, which contains 67 percent of Wallowa County, the Wallowa Basin, and the Imnaha Basin.

Table 15. Annual Yield of Representative Streams, Wallowa County

Stream and Gaging Point	Drainage Area sq. miles	Years of Record	Mean Annual Yield 1/	
			acre-feet 2/	acre-feet/ sq. mile
Imnaha River at Imnaha...	622	40	361,300	581
East Fork Wallowa River near Joseph.....	10.3	44	15,490	1,504
Wallowa River at Joseph..	50.9	41	94,840	1,863
Hurricane Creek near Joseph.....	29.6	44	53,140	1,795
Lostine River near Lostine.....	70.9	44	139,700	1,970
Bear Creek near Wallowa..	68	44	80,360	1,181
Grande Ronde River at Troy.....	3,275	24	2,233,000	678

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.

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

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

1/ Oregon State Water Resources Board and U.S.D.A. cooperating, Grande Ronde River Basin, 1960.

Monthly flows are highest from April to June on the county's streams. Low flows may occur either during dry summer months or due to freeze ups in mid-winter months.

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

Stream and Location	Maximum Discharge		Minimum Discharge	
	Year	Flow (cfs) 1/	Year	Flow (cfs) 1/
Imnaha River at Imnaha...	1957	6,650	1931	16 2/
East Fork Wallowa River near Joseph.....	1937	450	1927	6.6
Wallowa River at Joseph..	1957	1,200	No flow at times some years	
Hurricane Creek near Joseph.....	1948	1,110	1955	2.8
Lostine River near Lostine.....	1913	2,540	1966	7.5 2/
Bear Creek near Wallowa..	1936	1,620	1937	3
Minam River at Minam.....	1913	4,500	1967	12 2/
Grande Ronde at Troy.....	1964	42,200	1964	418

1/ cfs - cubic feet per second.
2/ Minimum flow due to freeze up.
SOURCE: U.S. Department of the Interior, Geological Survey, Water Resources Division, Water Resources Data for Oregon, Part 1, Surface Water Records, 1968.

The occurrence of groundwater in Wallowa County is governed principally by topography, precipitation, and rock permeability. Ground slope determines in part the time surface runoff has to enter the ground, whereas permeability is the capacity of rocks to transmit water. Ground water potential is thought to be good along the sandy and rocky sections of river banks.

There are few domestic water rights on the Lower Grande Ronde. Water use for domestic purposes in the Wallowa sub-basin amounted to six cfs in 1960. This included all the streams within the system. Imnaha Basin totals less than .5 cfs.

In the Imnaha Basin no water rights exist for municipal use. Enterprise, the biggest city in the Wallowa Basin, uses springs for its use and seems adequate in present supply. Water supply for Joseph is diverted from Wallowa Lake; however, the water is chlorinated. Lostine, which receives its water from the Lostine River, uses a chlorination treatment for purification of its water. Wallowa, which depends on Beer Creek for its water, uses chlorine treatment. All systems seem adequate for the future except Joseph. If increased recreation takes place on Wallowa Lake, the quality of water may suffer.

Table 17. Wallowa County Municipal Water Supplies, 1973

City	Population 1972	Water Source	Treatment 1/
Enterprise.....	1,735	Springs	None
Joseph.....	870	Wallowa Lake	C
Wallowa.....	840	Bear Creek	C
Lostine.....	200	Lostine River	C

1/ C - chlorination.
SOURCE: Oregon State Health Division, Community Drinking Water Systems, unpublished data, telephone interview, June 1973.

The Wallowa River sub-basin has about 45,000 acres irrigated by gravity. Of this, the Imnaha River supplies water for 6,500 acres. Irrigation from wells is very small. About 45 percent of the 45,000 acres are deficient from irrigation in the late summer months. Very little land is irrigated in the Lower Grande Ronde area and the acreage is not expected to increase. In the Imnaha sub-basin, a great deal of land is irrigated outside its boundaries.

No water is used for industrial purposes in the Imnaha sub-basin. The primary use of water for industrial purposes in Wallowa County is mill ponds.

There are no direct pollution abatement problems in Wallowa County. Domestic and municipalities' sewage could be a source of pollution, however. Logging and gravel operations and returns from irrigation do cause sporadic problems in the county. In some instances, inadequate facilities and insufficient stream flow for dissolving wastes do cause problems. Creamery wastes and sewage effluent cause problems at the town of Wallowa. Facilities need to be maintained to deal with the problem.

Table 18. Sewage Treatment Plants, Wallowa County

Location	Year Built	Type 1/	Design Population	Population 2/ Served	Receiving Stream
Enterprise.....	1955	TF	2,000 3/	1,735	Wallowa River
Wallowa.....	1920	ST	1,000	840	Wallowa River
Joseph.....	1949	TF	1,700	870	John Day River

1/ Type of treatment: TF - trickling filter, ST - septic tank.
2/ 1972 population figures.
3/ Plus additional capacity for industrial waste.
SOURCE: Oregon State Board of Health, State Sanitary Authority, Water Quality Control in Oregon, Vol. I for Calendar Years 1966-67, 1967.

Water-based Recreation

Wallowa County has some 53 lakes, covering an area of 2,449 acres. Wallowa Lake is the biggest lake within the county and an important tourist attraction.

Table 19. Wallowa County Lakes - 10 Acres or More

Lake	Acres	Lake	Acres
Frazier Lake.....	11	Razz Lake.....	15
Blue Lake.....	16	Ice Lake.....	60
Mirror Lake.....	22	Aneriod Lake.....	45
Moccasion Lake.....	22	Minam Lake.....	50
Douglas Lake.....	32	Pocket Lake.....	10
Crescent Lake.....	10	Swamp Lake.....	10
Lee Lake.....	18	Steamboat Lake.....	45
Horseshoe Lake.....	24	Long Lake.....	45
Green Lake.....	19	Chimney Lake.....	21
Maxwell Lake.....	22	Little Storm Lake...	12
John Henry Lake.....	12	Frances Lake.....	52
Wallowa Lake.....	1,600		

SOURCE: Oregon State Water Resources Board, Grande Ronde River Basin, 1960.

Wallowa County has a variety of fish utilizing the stream and lake system. Anadromous species include the spring chinook, silver salmon, and steelhead trout. Wallowa County contains species of rainbow trout, eastern brook, cut-throat, Dolly Varden, golden trout, and white fish. Wallowa Lake includes species of land-locked sockeye salmon, or kokanee.

Enterprise has a trout hatchery located near it valued at $100,000 and stocks nearly all of the lakes in the county.

Table 20. Anadromous Fish, Annual Average Runs, Grande Ronde Basin

Species	Grande Ronde System Count	Imnaha System Count
Spring Chinook.....	20,000	9,500
Fall Chinook.....	1,500	500
Steelhead Trout.....	22,500	6,000

SOURCE: Oregon State Water Resources Board, Grande Ronde River Basin, 1960.

The Wallowa sub-basin, with 2,370 acres of lakes, supports many species of fish. This basin is a significant part of the spawning grounds that are located within the Grande Ronde Basin. The State Fish Commission estimates that spawning of spring chinook is 20 percent in the Minam River, 15 percent in the Lostine River, and 10 percent in the Wallowa River.

Minerals

Minerals in Wallowa County consist mainly of sand and gravel and limestone operations. The principal limestone quarry is located in the Wallowa Mountains southwest of Enterprise at an elevation of nearly 6,000 feet. They also produce marble there. Much of this limestone is pure and burns to a high calcium lime which is used for cement manufacturing.

Wallowa County has deposits of a number of metals, but as of yet none have been mined in large quantities.

Wildlife

The most numerous species of big game in Wallowa County is the mule deer.

Table 21. Big Game Population Trends, Wallowa County, 1971

Game Management Unit	Miles Traveled	Animals Observed 1971	Animals Per Mile 1971	1970	5-yr. average*
Mule Deer					
Imnaha.....	56	380	6.8	11.4	13.6
Minam.....	67	861	12.8	18.5	23.1
Sled Springs.....	57	442	7.8	10.1	13.1
Snake River.....	106	1,041	9.8	13.5	14.4
Chesnimnus.....	117	367	3.1	3.4	3.9
Rocky Mountain Elk					
Imnaha.....	200	527	2.6	1.5	2.2
Minam.....	170	1,090	6.4	6.2	5.4
Sled Springs.....	130	1,399	10.8	12.6	10.3
Snake River.....	290	1,971	6.8	7.4	7.8
Chesnimnus.....	302	285	7.7	7.2	5.6

SOURCE: Oregon State Game Division, 1971 Annual Report, Oregon State Game Commission, 1971.
*5 year average: 1966-1970.

There are several game bird species in Wallowa County, including ring-necked pheasant, Hungarian partridge, forest grouse, quail, chukar partridge, mountain quail, blue grouse, ruffed grouse, and others. There are also numerous migratory waterfowl during the migratory periods.

Fur bearing animals in the county include beaver, otter, mink, raccoon, and coyote.

For additional information, see Water-based Recreation under the General Description division and Outdoor Recreation under the County's Economy division of this publication.

HUMAN RESOURCES

Population

Wallowa County was first settled in 1872 and was made a county in 1887. By 1972 the county's population was 6,210 or about 2.6 persons per square mile. Enterprise, the county seat, is the largest town with a 1972 population of 1,735.

The following table gives a breakdown of Wallowa County's population by race, according to U.S. Census data as of 1970.

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

Racial Group	Number of Persons
Total.....	6,247
Caucasian.....	6,162
Spanish Language.....	60
Black.....	3
American Indian.....	12
Other.....	10

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 and U.S.D.A. cooperating Corvallis, Oregon, 1972.

Table 23. Wallowa County and Bordering Counties, Population and Rank Order in Oregon, 1960 and 1972

County	Rank		Population	
	1960	1972	1960	1972
WALLOWA.....	31	32	7,102	6,210
Baker.....	24	24	17,295	15,200
Union.....	23	21	18,180	20,660
Umatilla.....	11	12	44,352	45,450

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

Table 24. Land Area and Population Density, Wallowa and Bordering Counties, 1950, 1960, and 1970

County and State	Land Area	Population Density		
		1950	1960	1970
	- square miles -	- persons per square mile -		
State of Oregon.....	96,248	15.8	18.4	21.7
WALLOWA.....	3,178	2.3	2.2	2.0
Baker.....	3,062	5.2	5.6	4.9
Union.....	2,032	8.8	8.9	9.5
Umatilla.....	3,222	12.9	13.8	13.9

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

Wallowa County's population has been decreasing since 1920. Between 1960 and 1970 the county's population declined 12 percent.

Table 25. Population Growth, Wallowa County

Year	Population	Percent Increase	
		Period	Percent
1900.....	5,538		
1910.....	8,364	1900-1910	52.0
1920.....	9,778	1910-1920	16.0
1930.....	7,814	1920-1930	- 9.7
1940.....	7,623	1930-1940	- 2.2
1950.....	7,264	1940-1950	- 4.5
1960.....	7,102	1950-1960	- 2.2
1970.....	6,247	1960-1970	-12.0

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

Table 26. Components of Change in Wallowa County's Population, 1940-1970

Years	Net Change	Natural Increase	Net Migration
1940-1950.....	-359	807	-1,166
1950-1960.....	-162	1,085	-1,247
1960-1970.....	-855	390	-1,245

SOURCES: Oregon State Board of Census, Components of Population Growth: 1940-1960, No. P3, 1961.
U.S. Bureau of the Census, Components of Population Change by County: 1960 to 1970, "Current Population Reports, Population Estimates and Projections", Series P-25, No. 461, 1971.

Table 27. Urban and Rural Population, Wallowa County,[1/] 1950-1970

Year	Urban		Rural	
	Population	Percent Change	Population	Percent Change
1950.....	2/		7,264	
1960.....			7,102	- 2.2
1970.....			6,247	-12.0

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/ No areas within Wallowa County are classified as urban under the U.S. Census Bureau criteria.
SOURCE: U.S. Bureau of the Census, U.S. Census of Population: 1970, Number of Inhabitants, Final Report PC(1) - A39, Oregon, U.S. Government Printing Office, Washington, D.C., 1971.

Table 28. Population Estimates of Incorporated Cities, Wallowa County, Selected Years, 1960, 1965, 1971, 1972

City	1960	1965	1971	1972
Wallowa County.....	7,102	6,050	6,140	6,210
Enterprise.....	1,932	1,900	1,725	1,735
Joseph.....	788	760	870	870
Lostine.....	240	212	195	200
Wallowa.....	989	800	810	840
Incorporated area.....	3,949	3,672	3,600	3,645
Unincorporated area....	3,153	2,378	2,540	2,565

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

In 1970, about 35 percent of Wallowa County's population was under 18 years of age, 51 percent in the 18 to 64 age group, and the remaining 13 percent 65 years of age and over. The county's median age increased from 30.9 years in 1960 to 34.8 years in 1970. In 1970, over 51 percent of the population was male.

Table 29. Population by Age and Sex, Wallowa County, 1960 and 1970

Age Group	Male		Female		Total		Percent	
	1960	1970	1960	1970	1960	1970	1960	1970
Total population.	3,665	3,191	3,437	3,056	7,102	6,247	100.0	100.0
Under 5....	362	240	399	183	761	423	10.7	6.8
5-9....	455	291	324	260	797	551	11.2	8.8
10-14....	364	344	337	319	701	663	9.9	10.6
15-19....	235	330	253	271	488	661	6.9	9.6
20-24....	157	129	172	135	329	264	4.6	4.2
25-34....	401	307	423	327	824	634	11.6	10.1
35-44....	474	344	439	389	913	733	12.9	11.7
45-54....	480	439	422	395	902	834	12.7	13.4
55-64....	357	363	307	355	664	718	9.3	11.4
65 and over....	760	404	686	422	1,446	826	20.4	13.2
Median age.....	31.4	33.6	30.5	35.9	30.9	34.8		

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 30. Population of Selected Cities by Sex, Wallowa County, 1960 & 1970[1/]

Item	Enterprise	
	1960	1970
Total population.....	1,932	1,680
Male.....	963	809
Female.....	969	871

1/ There is no age breakdown data for Enterprise as there are no cities in Wallowa County with over 2,500 population, for which city populations are broken down into age groups by U.S. Census of Population.

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

Employment

The Oregon State Department of Employment reported that in 1971 the annual average civilian labor force in Wallowa County was 2,430 persons. At that time, the unemployment rate was 9.5 percent.

The 1970 Census of Population shows that 2,408 persons were employed in the county out of a total labor force of 2,602. About 26 percent of those employed worked in agriculture and forestry. Another 9.3 percent worked in manufacturing, with lumber and wood products employing 8.8 percent. About 14 percent of those employed worked in retail trade.

Table 31. Employment Status, Wallowa County, 1960 and 1970

Subject	1960	1970 1/
Total males, 14 years and over	2,532	2,243
Total labor force	1,970	1,662
Armed Forces	0	0
Civilian labor force	1,970	1,662
Employed	1,814	1,453
Unemployed	156	209
Not in labor force	562	581
Inmate of institution	0	27
Enrolled in school	232	179
Other	330	375
Total females, 14 years and over	2,415	2,181
Total labor force	632	762
Employed	594	708
Unemployed	38	54
Not in labor force	1,783	1,419
Inmate of institution	0	7
Enrolled in school	185	153
Other	1,317	1,259
Married (husbands present), in labor force	492	619

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 32. Percent of Age Group in Labor Force, Wallowa County, 1970

Age Group	Wallowa County	
	Male	Female
Years		
14-15	24.1	13.1
16-17	35.2	13.7
18-19	60.0	15.6
20-21	81.5	20.0
22-24	84.7	22.7
25-34	98.3	43.0
35-44	95.8	57.9
45-64	88.5	41.6
65 and over	30.1	6.6

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

Table 33. Industry Group of Employed, Wallowa County, 1960 and 1970

Industry	Number Employed	
	1960	1970
Agriculture	681	628
Forestry and fisheries	38	
Mining	0	5
Construction	143	131
Manufacturing	430	223
Lumber and wood products	394	212
Food and kindred products	16	0
Other	20	11
Transportation	25	36
Communication	18	16
Wholesale trade	51	64
Retail trade	296	345
Business services	64	113
Personal services	77	110
Hospitals	40	70
Educational services	127	180
Professional and related services	41	36
Public administration	97	128
Utilities and sanitary services	NA*	16

*NA - not available.

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

Table 34. Wallowa County Occupations, 1970

Occupation	Number Employed		
	Male	Female	Total
Total employed, 16 years and over..	1,453	708	2,161
Professional, technical, and kindred workers.....	101	139	240
Engineers.....	NA*	NA	11
Physicians and related practitioners.....	NA	NA	11
Other health workers.....	5	25	30
Teachers.....	18	84	102
Technicians, except health.....	10	5	15
Other professional workers.....	46	25	71
Managers.....	180	65	245
Sales workers.....	49	90	139
Clerical and kindred workers.....	25	161	186
Craftsmen and kindred workers....	249	0	249
Operatives except transport.....	108	10	118
Transport.....	59	0	59
Laborers except farm.....	112	0	112
Farmers and farm managers.....	348	27	375
Farm laborers.....	143	7	150
Service workers.....	79	156	235
Cleaning service.....	41	21	62
Food service.....	9	58	67
Health service.....	0	45	45
Personal service.....	4	32	36
Protective service.....	25	0	25
Private household.....	3	50	53

*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.

Table 35. Number of Hired Seasonal Workers in Agriculture by Type of Worker, Blue Mountain Area, 1/ 1965 and 1971, Midmonth Figures

Month	Local		Intrastate Migratory		Interstate Migratory	
	1965	1971	1965	1971	1965	1971
May.....	85	160	--	--	--	--
June.....	45	180	--	--	--	--
July.....	330	310	65	--	260	--
August.....	45	265	10	5	--	20
September.....	35	185	--	--	--	--
October.....	15	105	--	--	--	--

1/ Blue Mountain Area includes Union County; figures from La Grande employment office.

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

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

Occupation Group	Wallowa County	
	1959	1969
Male, total with earnings 1/.....	$4,134	$6,385
Professional, managerial, and kindred workers.....	5,194	8,385
Farmers and farm managers.....	5,340	4,045
Craftsmen, foremen, and kindred workers...	5,014	7,743
Operatives and kindred workers.....	4,381	7,033
Farm laborers.....	---	2,556
Laborers, excluding farm and mine.....	4,264	6,421
Female, total with earnings 1/.....	$1,671	$3,181
Clerical and kindred workers.....	---	3,997
Operatives and kindred workers.....	---	2,875

1/ 16 years old and over; includes persons in other groups not shown separately.

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

County	Number of Persons		Percent of Labor Force	
	1968	1971	1968	1971
WALLOWA.....	160	230	6.4	9.5
Umatilla.....	880	1,330	4.7	7.2
Union.....	340	570	4.6	6.5
Baker.....	290	400	4.8	6.4

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

Table 38. Annual Average Labor Force in Wallowa County, 1968-1971

Industry	Number of Persons			
	1968	1969	1970	1971
Civilian labor force.....	2,490	2,360	2,410	2,430
Workers in labor management disputes....	0	0	0	0
Unemployment.....	160	160	180	230
Percent of labor force.....	6.4	6.8	7.5	9.5
Employment.....	2,330	2,200	2,230	2,200
Agricultural.....	770	770	750	730
Nonagricultural.....	1,560	1,430	1,480	1,470
Self-employed, unpaid farmer and domestics.....	220	190	200	190
Wage and salary workers.....	1,340	1,240	1,280	1,280
Manufacturing.....	230	220	190	180
Durable goods.....	NA*	NA	180	170
Lumber and wood.....	220	210	180	170
Other durables.....	NA	NA	0	0
Nondurable goods.....	NA	NA	0	10
Nonmanufacturing.....	1,110	1,020	1,090	1,100
Contract construction.....	50	40	60	60
Transportation, communication, utilities.....	70	70	70	60
Wholesale and retail trade.....	260	280	290	300
Finance, insurance, and real estate.....	60	50	40	50
Service and miscellaneous.....	240	160	160	160
Government.....	430	420	470	470

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.

*NA - not available.

Table 39. Covered Payrolls and Employment by Industry, Wallowa County

Industry	Average Employment 1970	Average Employment 1971	Annual Payroll 1971
Agriculture, forestry, and fisheries	1/	16	$ 15,427
Mining	1/	1/	1/
Contract construction	59	65	504,547
Lumber and wood products manufacturing	180	168	1,582,437
Food and kindred products manufacturing	0	0	0
Other manufacturing	1/	1/	1/
Transportation, communication, electric, gas, and sanitary services	57	57	450,008
Wholesale and retail trade	292	304	1,371,184
Finance, insurance and real estate	40	42	208,366
Services and miscellaneous	110	103	302,986
Government	160	159	1,352,197
Yearly totals	923	921	$5,836,621

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 40. Major Occupation Group of Unemployed, Wallowa County, 1960 & 1970

Occupation Group	Number of Persons 1960	Number of Persons 1970
Professional, technical, and kindred workers	16	26 1/
Farmers and farm managers	0	NA*
Managers, officials and proprietors, excluding farm	5	NA
Clerical and kindred workers	4	10
Sales workers	8	6
Craftsmen, foremen, and kindred workers	35	24
Operatives and kindred workers	8	44
Service workers, including private household	26	19
Farm laborers	13	40
Laborers, excluding farm and mine	76	66

*NA - not available. 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.

Table 41. Local Government Employees and Payroll, Wallowa County, October 1967

Item	Employees and Earnings
Employees	297
Full-time only	235
Full-time equivalent employment	240
Education	118
Teachers only	91
Functions other than education	122
Highways	27
Public welfare	1
Hospitals	60
Health	1
Police protection	7
Fire protection	0
Sewerage	2
Sanitation other than sewerage	0
Parks and recreation	3
Natural resources	1
Housing and urban renewal	0
Correction	0
Libraries	3
Financial administration	6
General control	7
Water supply	0
Other local utilities	0
Other and unallocable	4
October payroll	$107,000
Education	66,000
Teachers only	55,000
Functions other than education	41,000
Average monthly earnings, full-time employment	
Teachers	$601
Others	335

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

Income

Table 42. Net Effective Buying Income Estimates, Wallowa County, 1967 & 1970

Area	Net Dollars		Per Household	
	1967	1970	1967	1970
	- - thousand dollars - -		- - dollars - -	
Oregon.....	$5,224,888	$6,650,690	$8,113	$9,440
Wallowa County....	12,880	15,451	6,440	7,358

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

Table 43. Bank Debits and Deposits, Wallowa County, 1965-1970

Year	Bank Debits 1/ 2/	Bank Deposits
	- - - - - thousand dollars - - - - -	
1965.....	$ 98,882	$ 9,440
1966.....	104,906	10,400
1967.....	115,578	12,184
1968.....	120,417	12,758
1969.....	126,835	14,142
1970.....	136,290	15,053

1/ Bank debits represent the dollar value of checks drawn against deposit accounts of individuals and businesses. Included are debits to demand deposit accounts of individuals, business firms, and state and other political subdividions 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. 2/ Bank debits include Grant County.

SOURCE: Oregon State Department of Commerce, Banking Division, Annual Report, various years, and Special Report, February 1971, taken from Oregon Economic Statistics, 1969 and 1972, Bureau of Business and Economic Research, University of Oregon.

Table 44. Income and Poverty Data for Racial Groups, Wallowa County, 1970

Item	Number	Percent
Mean Income		
Families:		
All races	$ 8,770	
Caucasian	8,702	
Spanish Language	24,850	
Black		
Other		
Unrelated individuals:		
All races	3,427	
Caucasian	3,479	
Spanish Language		
Black		
Other	900	
Families by Family Income Class		
All races:		
under $3,999	328	19.71
$4,000-$5,999	247	14.84
$6,000-$11,999	728	43.75
$12,000+	367	21.70
total	1,670	100.00
Caucasian:		
under $3,999	328	19.73
$4,000-$5,999	247	14.86
$6,000-$11,999	728	43.77
$12,000+	360	21.64
total	1,663	100.00
Spanish Language:		
under $3,999		
$4,000-$5,999		
$6,000-$11,999		
$12,000+	7	100.00
total	7	100.00
Income below poverty level (bpl)[1/]		
Families bpl		
All races	243	100.00
Caucasian	243	100.00
Spanish Language		
Black		
Other		
Persons in families bpl	809	
Unrelated individuals bpl		
Under 65	59	
65 and over	108	
Male family head, 14-64 yrs, bpl		
Employed	82	
Unemployed	10	
Not in labor force	32	

Table 44, cont. Income and Poverty Data for Racial Groups, Wallowa County, 1970

Item	Number	Percent
Female family heads bpl in labor force with children below 6 yrs..	6	
Income source of families and unrelated individuals bpl		
Earnings.....	204	
Social security or railroad retirement.....	208	
Public assistance or welfare.....	65	

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

1/ Poverty levels as federally defined. For further definition of these poverty levels, consult the U.S. Census of Population, 1970 General Social and Economic Characteristics, Final Report PC(1) - C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

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

Education

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

District	White	Black	American Indian	Spanish Surname	Other 1/	Total
Enterprise.....	649	--	--	--	--	649
Flora.....	8	--	--	--	--	8
Joseph.....	350	--	3	--	1	354
Troy.....	7	--	--	--	--	7
Wallowa.....	415	--	--	--	--	415

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

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

Table 46. Formal Education Facilities, Wallowa County, 1968-69 and 1971

School District, Type School, and Number of Each Type	Grades Included	Enrollment 1/		High School Graduates
	1971	1968-69	1971	1971
Enterprise School District #21				
Elementary - 1.....	1-8	449	440	--
High school - 1.....	9-12	219	217	52
Flora School District #32				
Elementary - 1.....	1-8	4	2	--
Joseph School District #6				
Elementary - 2.....	1-8	244	223	--
High school - 1.....	9-12	127	129	30
Troy School District #54				
Elementary - 1.....	1-8	4	6	--
Wallowa School District #12				
Elementary - 1.....	1-8	290	243	--
High school - 1.....	9-12	185	175	40
County totals				
Elementary.....		997	914	--
High school.....		532	521	122
County grand total.....		1,530	1,435	122

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

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

Table 47. Years of School Completed by Population 25 Years and Over, Wallowa County, 1970

Education	Number Males	Number Females	Total	Percent
Total, 25 years and over.....	1,863	1,888	3,751	100.0
No school years completed...	--	10	10	0.3
Elementary: 1-4 years.....	40	5	45	1.2
5-7 years.....	105	101	206	5.5
8 years.....	348	264	612	16.3
High School: 1-3 years.....	301	318	619	16.5
4 years.....	633	693	1,326	35.4
College: 1-3 years.....	252	302	554	14.8
4 years or more	184	195	379	10.1
Median school years completed.	12.2	12.4		

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 48. Wallowa County Residents Enrolled in Higher Education Institutions, Fall 1971

Institution	Number Enrolled
Total enrolled.....	189
Eastern Oregon College.....	71
Oregon College of Education.....	1
Oregon State University.....	51
Portland State University.....	1
Southern Oregon College.....	3
University of Oregon.....	9
Oregon Technical Institute.....	7
University of Oregon Dental School....	0
University of Oregon Medical School...	4
Total in private and independent institutions.....	4
Total in public community institutions.....	38

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

Table 49. Youth Organizations, Wallowa County

Organization	Number
4-H.....	493
Future Farmers.....	130
Girl Scouts.....	134
Boy Scouts.....	199
YWCA.....	1/
YMCA.....	1/
Camp Fire Girls.....	NA*

*NA - not available.
1/ No chapter in county.
SOURCE: State Department of Education and State Extension Office, 4-H Division, unpublished data, 1972.
Boy Scouts of America, Blue Mountain Council, unpublished data, 1972.

Although Wallowa 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 50. Felonies and Juvenile Delinquency in Wallowa County, 1968

Subject	Subject
Commitments to felony and correctional institutions, 1967-68	
Total commitments.....	4
Oregon State Penitentiary.....	2
Oregon State Correctional Institution.....	1
MacLaren (boys' training school).....	1 1/
Hillcrest (girls' training school).....	0 1/
Juvenile court cases, 1968	
All cases.....	41
Delinquency.....	24
Traffic.....	10
Other.....	7

1/ 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

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

Table 51. Existing Medical Facilities, Number of Existing Beds, and Number of Beds Needed, Wallowa County, 1971 1/

Category Community	Number of Facilities		Number of Beds	
	Existing	Needed	Existing	Needed
General Hospital Enterprise.....	1	1	32	44
Long-term Care Facilities Enterprise.....	1	1	29	43
Diagnostic and Treatment Centers Enterprise.....	1	1	--	--

1/ 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 rehabilitation facilities are programmed beyond the 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 52. Diagnostic or Treatment Center Facilities, 1970

Name of Facility	Location	Outpatient Visits During Year	Services 1/
Wallowa Memorial Hospital	Enterprise	4,507	A, H, I

1/ Service code, 1964 information: A - General H - X-Ray
I - Clinical Laboratory

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 53. Percent Occupancy of Existing Medical Facilities, Wallowa County, 1969

Name of Facility	Location	Total Capacity	Percent of Occupancy
General Hospitals			
Wallowa County Memorial Hospital.....	Enterprise	32 1/	73
Long-term Care Facilities 2/			
Wallowa County Memorial Hospital.....	Enterprise	29 3/	106

1/ Excludes long-term care beds.
2/ There are no convalescent hospitals or nursing homes in the area.
3/ Excludes acute care beds.
SOURCE: Oregon State Board of Health, Oregon Plan for Construction and Modernization of Hospitals, Public Health Centers and Medical Facilities, 1971 Annual Revision, Health Facility Planning and Construction Section, 1971.

Table 54. Number of Licensed Medical Personnel and Ratio of Population Per Professional, Wallowa County, 1969

Profession	Wallowa County		State
	Number	Ratio 1/	Ratio 1/
Medical doctors and doctors of osteopathy.	4	1,610	770
Dentists.....	3	2,147	1,470
Registered nurses.....	13	495	276
Licensed practical nurses.....	4	1,610	1,002
Pharmacists.....	8	805	1,375

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

Table 55. Number of Admissions to State Psychiatric Hospitals and Mental Health Clinics and Ratio per 100,000 Population, Wallowa County, 1968-69

Facility	Wallowa County		State
	Number	Ratio	Ratio
Psychiatric hospitals.....	12	186	134
Mental health clinics.....	2	31	460

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

For the 1969-70 fiscal year, Wallowa County allocated a total of $12,260 to its county health department, or $1.90 per capita. This compares with $5.70 spent per capita on the average by all counties in the state. 1/

Wallowa County's birth rate rose from 12.8 in 1968 to 13.7 in 1971 but remained below the overall state rate of 15.6 in 1971. During the same time period, the county's death rate fell from 11.2 per 1,000 population to 10.6. The county's illegitimate birth rate climbed from 86.4 to 95.2 per 1,000 births. This compares with a state rate in 1971 of 78.1

Table 56. Births and Deaths by Major Category, Wallowa County and State of Oregon, 1968 and 1971

Category	Wallowa County				State
	Number		Rate		Rate
	1968	1971	1968	1971	1971
All births 1/.....	81	84	12.8	13.7	15.6
All deaths 1/.....	71	65	11.2	10.6	9.4
Illegitimate births 2/.....	7	8	86.4	95.2	78.1
Immature births 2/.....	4	11	49.4	131.0	57.4
Infant deaths 2/.....	1	1	12.3	11.9	18.4
Accidental deaths 3/.....	8	2	126.4	32.6	61.3

1/ Rates per 1,000 population.
2/ Type births per 1,000 live births.
3/ Rate per 100,000 population.
SOURCE: Oregon State Board of Health, Vital Statistics Section, 1968 Statistical Report
Oregon State Department of Human Resources, Oregon State Health Division, Vital Statistics Annual Report, Vital Statistics Section, 1971.

1/ 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 57. Health Statistics, Wallowa County, 1970

Item	Wallowa County		State
	Number	Rate 1/	Rate 1/
Morbidity			
Tuberculosis	0	---	12.7
Syphilis	0	---	8.5
Gonorrhea	8	130.3	324.8
Influenza	165	2,687.3	2,241.4
Hepatitis (infecticus) 2/	0	---	45.1
Mealses (Rubeola)	12	195.4	21.9 2/
Deaths from all causes	65	10.6 3/	9.3 3/
Malignant neoplasms (cancer)	11	179.2	167.0
Diabetus mellitus	1	16.3	14.9
Heart diseases	36	586.3	342.3
Cerebrovascular diseases	2	32.6	116.1
Arteriosclerosis	3	48.9	22.0
Other cardiovascular diseases	0	---	15.2
Influenza and pneumonia	1	16.3	26.5
Bronchitis, emphysema, asthma	2	32.6	24.9
Peptic ulcer	2	32.6	4.6
Cirrhosis of liver	1	16.3	13.8
Congenital anomalies	0	---	7.1
Certain infancy mortality causes	1	16.3	14.2
All other diseases	3	48.9	78.5
Accidents	2	32.6	64.4
Suicide	0	---	14.5
Homicides	0	---	4.4

1/ Rate per 100,000 population.
2/ 1966-68 average, taken from Office of the Governor, Planning Division, Health Facts, 1969.
3/ Rate per 1,000 population.
SOURCE: Oregon State Department of Human Resources, Oregon State Health Division, Vital Statistics Annual Report, Vital Statistics Section, 1971.

Table 58. Public Welfare Payments for Assistance, Wallowa and Union Counties, 1/ August 1972

Category	Number of Cases	Average Payments
Cases receiving non-medical payments		
Old Age Assistance	129	$ 68.24
Aid to the Blind	4	153.50
Aid to the Disabled	62	87.96
Aid to Dependent Children	544 2/	35.02
General Assistance	21	39.98
Foster Care	NA*	NA
Physicians services 2/		
OAA	48	$ 17.38
AB	1	23.75
AD	27	32.09
ADC	118	15.19
GA	4	30.75
FC	7	7.71
Hospital payments 2/		
OAA	3	$ 47.37
AB	0	---
AD	5	343.79
ADC	8	238.73
GA	0	---
FC	0	---
Drug payments 2/		
OAA	133	$ 17.04
AB	3	6.11
AD	36	27.06
ADC	63	5.63
GA	3	9.27
FC	6	6.89

1/ Data are not reported monthly for Wallowa County alone, although a separate public welfare office is maintained at Enterprise.
2/ Persons, not cases.
*NA - not available.
SOURCE: Oregon State Department of Human Resources, Oregon Public Welfare Division, Public Welfare in Oregon, August 1972.

Table 59. Average Monthly Public Welfare Payments by Type of Service, Wallowa County, Fiscal Years 1968-69 and 1971-72 1/

Type of Service	Average Payment Per Case 1968-69	1971-72
Old Age Assistance.....	$ 60.83	$ 67.82
Aid to the Disabled.....	100.96	142.93
Aid to the Blind.....	71.02	83.28
General Assistance.....	32.46	58.64
Aid to Dependent Children 2/		
UN 3/.....	27.10	40.29
Basic 3/.....	38.42	45.80

1/ Data are for both Wallowa and Union Counties.
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.

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

Table 60. Housing Occupancy and Facilities, Wallowa County, 1970

Subject	Wallowa County		State
	Number Units	Percent	Percent
Occupancy			
All housing units.....	2,821	100.0	100.0
Vacant - seasonal or migratory.	213	7.5	1.3
Owner occupied.....	1,519	53.8	61.3
Renter occupied.....	598	3.5	31.5
Vacant year-round.....	491	17.4	5.9
Population in housing units per unit			
Owner occupied.....	2.9	--	--
Renter occupied.....	3.1	--	--
Persons per room			
All occupied units.....	2,117	100.0	100.0
1.00 or less.....	2,011	95.0	94.7
1.01 to 1.50.....	87	4.1	4.2
1.51 or more.....	19	.9	1.1
Facilities			
Lacking some or all plumbing facilities.....	303	14.3	3.6
Telephone available.....	1,759	83.1	89.5
Air conditioning.....	154	7.3	10.3
	- number -		- number -
Median number of rooms.....	5.0		5.0
Median value 1/.....	$10,800		$11,300
Median gross rent 2/.....	$80		$107

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

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

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

THE COUNTY'S ECONOMY

Timber production and agriculture are the primary economic activities in Wallowa County, both in terms of persons employed and value of production. Retail trade and service industries also employ significant numbers of persons. Tourism and recreation contribute to the county's economy and offer a potential for further growth.

Agriculture

Agriculture continues to be the principal economic activity in the county . It was started by early settlers grazing cattle, and has now expanded to include production of small grains and hay as well as livestock raising.

The majority of the farm land within the county is used for grazing. Wallowa County has very little production of vegetables.

Wallowa County is a major cattle and calf producing county. Grain crops are also important for cash crops and home consumption for cattle raising. Livestock production was valued at $5,608,000 in 1970 and grain crops at $1,479,000.

Table 61. Farm Size and Value, Wallowa County, 1959, 1964, and 1969

Subject	1959	1964	1969
Approximate acres of land area.....	2,033,920	2,033,950	2,033,984
Proportion in farms.....	35.8%	35.4%	33.1%
Total number of farms.....	600	525	423
Acres in farms.....	728,917	721,365	672,411
Average size of farms.....	1,214.9	1,374.0	1,589.6
Value of land and buildings			
Average per farm.....	$57,441	$85,976	$125,622
Average per acre.....	$48.08	$62.16	$79.02

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., 1972.

Table 62. Number and Percent of Farms by Size, Wallowa County, 1959, 1964, and 1969

Size	Number			Percent		
	1959	1964	1969	1959	1964	1969
Less than 10 acres.....	31	23	18	5.2	4.4	4.3
10 to 49 acres.....	68	64	41	11.3	12.2	9.7
50 to 69 acres.....	18	12	11	3.0	2.3	2.6
70 to 99 acres.....	36	22	21	6.0	4.2	5.0
100 to 139 acres.....	24	23	20	4.0	4.4	5.0
140 to 179 acres.....	47	33	25	7.8	6.3	5.9
180 to 219 acres.....	20	20	17	3.3	3.8	4.0
220 to 259 acres.....	14	12	12	2.3	2.3	2.8
260 to 499 acres.....	64	56	47	10.7	10.7	11.1
500 to 999 acres.....	95	84	56	15.8	16.0	13.2
1,000 to 1,999 acres.....	89	69	60	14.8	13.1	14.2
2,000 acres or more.....	94	107	95	15.7	20.4	22.4
Total farms.....	600	525	423	100.0	100.0	100.0

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

Table 63. Farm Operators by Age and Years of School Completed, Wallowa County, 1959, 1964, and 1969

Subject	1959	1964	1969
Average age, years.....	49.4	50.9	51.2
Farm operators 65 years and over...	84	84	53
By years of school completed:			
Elementary - 0 to 4 years.....	NA*	1	NA
5 to 7 years.....	NA	21	NA
8 years.....	NA	140	NA
High school - 1 to 3 years.....	NA	79	NA
4 years.....	NA	232	NA
College - 1 to 3 years.....	NA	174	NA
4 years or more....	NA	73	NA

*NA - not available.

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

Agriculture in Wallowa County provides income not only to the farmers, but also to the workers employed for havesting and processing the agricultural products. Income from the sale of crops and livestock in the county in 1970 was estimated at nearly $8 million.

During 1970, income from the sale of livestock accounted for 72 percent of the county's agricultural income. Cattle and calves contributed 60 percent. Small grains were also important, contributing 19 percent.

Table 64. Value of Farm Products Sold,[1/] Wallowa County, 1966-1970

Product	1966	1967	1968	1969	1970[2/]
	- - - - - thousand dollars - - - - -				
All crops, livestock and livestock products.....	6,416	6,896	6,940	7,109	7,776
All crops.....	1,615	2,015	1,804	1,835	2,168
All grain, hay and seeds....	1,496	1,919	1,735	1,734	2,058
All seed crops.....	22	3	--	--	27
All grain and hay.....	1,474	1,916	1,735	1,734	2,031
All hay.....	320	601	337	374	552
All grains.....	1,154	1,315	1,398	1,360	1,479
Wheat.....	854	963	994	912	960
Barley.....	269	325	341	339	431
Vegetables, fresh and for processing.....	31	--	2	3	3
All berries.....	--	--	--	--	--
All tree fruits and nuts....	1	2	2	2	3
Specialty field crops.....	34	14	7	35	16
Specialty horticultural crops.....	--	--	--	--	--
Potatoes.....	8	5	18	21	56
All livestock and livestock products.....	4,801	4,881	5,136	5,274	5,608
Dairy products.....	165	135	116	137	128
Poultry products.....	12	9	9	11	8
Cattle and calves.....	3,848	3,955	4,273	4,340	4,705
Sheep and lambs.....	321	341	334	383	321
Hogs.....	321	320	303	283	333

1/ Crop year, includes quantities sold or held for sale.
2/ preliminary figures.
SOURCE: U.S.D.A. and Oregon State University Extension Service cooperating, "Oregon Commodity Data Sheets", Oregon State University, 1971-72.

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 65. Farms by Economic Class, Wallowa County, 1959, 1964, and 1969

Economic Class	Number			Percent		
	1959	1964	1969	1959	1964	1969
Commercial farms.....	431	404	360	74.6	76.9	85.1
Class I (sales of $40,000 or more).....	34	22	52	5.9	4.2	12.3
Class II (sales of $20,000 to $39,999).....	51	68	73	8.9	13.0	17.3
Class III (sales of $10,000 to $19,999).....	133	99	82	23.0	18.8	19.4
Class IV (sales of $5,000 to $9,999).....	124	109	79	21.4	20.8	18.7
Class V (sales of $2,500 to $4,999).....	73	67	58	12.6	12.8	13.7
Class VI (sales of $50 to $2,499).....	16	39	16	2.8	7.4	3.8
Other farms.....	147	121	63	25.4	23.1	14.9
Part-time.....	122	72	46	21.1	13.7	10.9
Part-retirement.....	25	49	16	4.3	9.3	3.8
Abnormal.....	--	--	1	--	--	0.2
Total farms.....	578	525	423	100.0	100.0	100.0

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

Table 66. Farm Operators by Tenure, Wallowa County, 1959, 1964, and 1969

Tenure	1959	1964	1969
Full owners.....	325	388	345
Part owners.....	168	138	133
Managers.....	4	NA*	NA
Tenants.....	81	65	64
Total operators.....	578	599	542

*NA - not available.
SOURCE: U.S. Bureau of the Census, Census of Agriculture, 1964 and 1969, Vol. 1, Area Reports, Part 47, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

Due to the sparse population in the county, the primary markets lie outside its boundaries. Portland and the Willamette Valley are the main outlets.

Table 67. Acres of Crops Harvested, Wallowa County, 1969 and 1970

Crops Harvested	1969	1970 1/
Corn for grain.....	---	---
Small grains		
Wheat.....	19,500	17,000
Oats.....	4,000	3,500
Barley.....	14,000	15,000
Hay crops.....	40,600	40,200
Field seed crops.....	2/	2/
Other field crops.....	2/	2/
Vegetables.....	2/	2/
Berries.....	2/	2/
Tree fruits, nuts, and grapes.....	2/	2/

1/ preliminary figures.
2/ Not reported, either no or little acreage in the county.
SOURCE: U.S.D.A. and Oregon State University Extension Service cooperating, "Oregon Commodity Data Sheets", Oregon State University, 1971-72.

The number of milk cows in the county has decreased significantly since 1950, consistent with the national trend. The decline in milk consumption per capita and the rapid rise in milk production per cow are two of the most important factors contributing to this decrease. At the same time, total cattle numbers have increased.

Table 68. Livestock and Poultry Numbers, Wallowa County, 1950, 1960, 1969, and 1970

Category 1/	1950	1960	1969	1970 2/
All cattle.....	41,900	41,000	52,000	52,000
Dairy cattle.....	5,100	2,200	800	700
Sheep and lambs.....	22,000	34,000	23,000	22,000
Hogs.....	13,000	9,000	4,700	NA*
Chickens.....	NA	NA	5,000	4,000
Turkeys raised.....	NA	NA	200	---

*NA - not available.
1/ Numbers as of January 1, unless otherwise indicated.
2/ Preliminary figures.
SOURCE: U.S.D.A. and Oregon State University Extension Service cooperating, "Oregon Commodity Data Sheets", Oregon State University, 1971-72.

Table 69. Food and Kindred Products Manufacturing, Wallowa County, 1968 and 1970

Major Group	Number of Firms		Employment	
	1968	1970	1968	1970
Meat products.....	NONE REPORTED FOR EITHER YEAR			
Dairy products.....				
Canned fruits, vegetables, and seafood..				
Grain mill products.....				
Bakery products.....				
Beverages.....				
Miscellaneous food preparations.....				

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 sawmilling began early in Wallowa County and are still an important part of its economy.

Table 70. Lumber and Wood Products Manufacturing Excluding Furniture, Wallowa County, 1968 and 1970

Product Group	Number of Firms		Employment	
	1968	1970	1968	1970
Logging camps and logging contractors...	9	7	91	90
Sawmills and planing mills.....	4	3	134	120
Wood products not elsewhere classified..	1	1	81	4
Total.....	14	11	306	214

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 71. Timber Harvest by Ownership, Wallowa County, 1970 1/

Ownership	Production 2/	Percent of Total
Total timber harvest.....	92,632	100.0
Private 3/.....	35,907	38.8
Bureau of Land Management 4/.....	86	.1
National forest 5/.....	56,639	61.1
State 3/.....	---	---

1/ Includes volume removed as logs but not volume removed for poles, piling, and woodcutting operations.
2/ Scribner log rule - thousand board feet.
3/ Compiled by State Forester.
4/ Compiled by Bureau of Land Management.
5/ Compiled by U.S. Forest Service.
SOURCE: 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.

In 1968, Wallowa County used 16,992 board feet of its own log production and exported 37,455 board feet to other counties. At the same time, it imported 19,250 board feet for processing. 1/

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

Species	Type of Wood-Using Industry		
	Sawmills	Veneer and Plywood	Shake and Shingle
All species	36,242	2/	2/
Douglas fir	11,824		
Hemlock	---		
True firs	1,750		
White and sugar pines	---		
Ponderosa and Jeffrey pines	22,548		
Other softwoods	120		

1/ Scribner log rule - thousand board feet.
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 73. Installed 8-Hour Capacity of Wood-Using Industries, Wallowa County, 1968

Industry	Capacity
Sawmill-lumber	91,000 1/
Veneer and plywood	2/
Pulp and board mills	2/

1/ Board feet, Scribner log rule.
2/ None reported.
SOURCE: Manock, Eugene R., Grover A. Choate, 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.

Over 35,000 tones of bark and wood residue were produced in Wallowa County. Of this quantity, approximately 22,500 tons were consumed for such uses as pulp, particle board, or fuel.

Manufacturing

Table 74. Value Added by Major Manufacturing Industries, Wallowa County, 1967

Item	Value Added	Percent
All manufacturing.....	NOT REPORTED FOR WALLOWA COUNTY	

SOURCE: U.S. Bureau of the Census, Census of Manufacturers, 1967, Area Services: Oregon, MC 67(3) - 38, U.S. Government Printing Office, Washington, D.C., 1970.

Table 75. Manufacturing, Other than Lumber and Wood Products; Food and Kindred Products and Mineral, Metal, and Related Products Manufacturing, Wallowa County, 1968 and 1970

Major and Subgroups	Number of Firms		Employment	
	1968	1970	1968	1970
Textile mill products.....	0	0	0	0
Furniture and fixtures.....	0	0	0	0
Printing, publishing, and allied industries				
Newspapers, publishing, and printing..	1	0	NA*	0
Machinery, except electrical				
Miscellaneous, except electrical.....	1	0	2	0

*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.

Mining - Mineral and Metal Industries

Most of the income from mineral production in Wallowa County is derived from stone and sand and gravel. Income from mineral production varies from year to year depending on construction within the county.

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

Major Group and Subgroups	Number of Firms		Employment	
	1968	1970	1968	1970
Petroleum refining and related industries.	NONE WERE REPORTED FOR EITHER YEAR IN WALLOWA COUNTY			
Stone, clay and glass products.....				
Primary metal industries.....				
Fabricated metal products.....				
Total.....				

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 77. Value of Mineral Production, Wallowa County, 1963, 1965, and 1970

Year	Value	Minerals Produced in Order of Value
1963.....	1/	Stone, sand and gravel
1965.....	$138,000	Stone, sand and gravel
1970.....	513,000	Stone, sand and gravel

SOURCE: U.S. Bureau of Mines, Minerals Yearbook, 1964, Vol. 3, Area Reports, Domestic, 1965, and Mineral Industry Surveys, The Mineral Industry of Oregon in 1970, Advance Summary, 1971, taken from Bureau of Economic Research, Oregon Economic Statistics, various years, University of Oregon.

1/ Withheld to avoid disclosure of individual company confidential data.

Outdoor Recreation

The major recreational activities in Wallowa County are connected with hunting and fishing. Undeveloped lands within the county's national forests, wilderness areas, and private forest lands offer a potential for expansion of these activities.

Activities such as boating, water skiing, skin diving, and other water activities are limited. The major location suitable for water recreation is Wallowa Lake with a surface area of some 1,600 acres. Most of the public outdoor recreational facilities in the county are adjacent to lakes or streams.

The Wallowa Mountains provide opportunities for mountaineering, fishing, and hunting. The Lostine and Wallowa Rivers are popular fishing streams in the county.

The developed public recreational facilities of Wallowa County consist of national forests, Bureau of Land Management recreational areas, state parks, county parks, and city parks.

The largest state park facilities include campgrounds at Wallowa Lake with 106 camping sites and 41 trailer sites. The largest national forest facility is located on the Lostine River and has 61 tent campsites and one trailer site.

Table 78. Wallowa County Park and Recreation Facilities, 1971

Ownership and Name	Acres	Facilities and Activities 1/
U.S. Forest Service		
Wallowa-Whitman National Forest..	NA*	
Arrow.....	"	C, F, H, Hi, St
Blackhorse.....	"	C, F, H, St
Boundary.....	"	C, F, H, Hi, R, St
Cloverdale.....	"	C, F, H, St
Coyote.....	"	C, H
Falls Creek.....	"	C, Tc, F, H, Hi, R, St
Evergreen.....	"	C, Tc, F, H, St
Hidden.....	"	C, F, H, St
Hurricane Creek.....	"	C, P, F, H, St
Indian Crossing.....	"	C, Tc, P, F, H, Hi, R, St
Kirkland.....	"	C, H
Lakefork.....	"	C, Tc, P, F, H, St
Lick Creek.....	"	C, Tc, F, H
Sacajawea.....	"	C, H
Saddle Creek.....	"	P, H
Summit Spring.....	"	C, Tc, H
Vigne.....	"	C, H, St
Umatilla National Forest		
Deduck Springs.....	"	C, P, H, Hi, R
Elk Flats.....	"	C, H, Hi, R
Mosier Spring.....	"	C, Tc, P, Bp, H, Hi, R
State Parks		
Little Sheep Creek State Wayside.	524	NA
Minam State Recreation Area.....	392	C, F, P
Wallowa Lake Hwy. Forest Wayside.	314	NA
Wallowa Lake State Park.....	166	C, Tc, P, F, S, B

*NA - not available.

1/ B - boating; Bp - berry picking; C - camping; F - fishing; H - hunting; Hi - hiking; P - picnicking; R - riding; S - swimming; St - stream; Tc - trailer camping

SOURCE: U.S.D.A., Forest Service, Pacific Northwest Region, National Forest Campground Directory, Oregon-Washington, 1971.
Oregon State Department of Transportation, State Highway Division, State Parks and Recreation Section, State Parks Acreages, 1971.

Table 79. Attendance at State Parks in Wallowa County, 1968-1972

Park and Use	Attendance			
	1968-69	1969-70	1970-71	1971-72
Wallowa Lake: Lakeshore				
Day visitors.....	306,220	331,326	389,394	503,622
Overnight camping.....	53,046	57,598	65,934	79,180
Wallowa Lake: South Area				
Day visitors.....	141,396	138,076	176,880	180,102

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

Table 80. Wallowa County Game Harvest

Game	Hunters		Harvest		Days Hunted
	Number	Percent of State Total	Number	Percent of State Total	
Pheasant.....	512	0.71	1,363	0.56	1,997
Quail.....	141	0.54	460	0.29	575
Chukar partridge.....	1,151	6.95	6,299	5.47	3,973
Hungarian partridge..	330	6.44	703	4.42	1,590
Blue and ruffed grouse.....	952	12.34	2,572	15.28	3,087
Ducks.....	510	0.91	4,860	0.85	4,570
Geese.....	190	0.67	110	0.17	1,600
Deer 1/.....	8,090	2.89	3,660	4.16	NA*
Elk 1/	12,680	17.00	2,022	19.68	80,110

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

1/ 1971 statistics for Chesnimnus, Imnaha, Minam, Sled Springs, and Snake River state game management units, which are not fully contained within Wallowa County.

Table 81. Retail and Wholesale Trade, Wallowa County, 1967

Kind of Business	Establishments	Paid 1/ Employees	Sales
	- number -	- number -	($1,000)
Retail trade, total 2/.....	94	207	$8,554
Wholesale trade, total 3/.....	15	58	4,129

1/ Excludes active proprietors of unincorporated businesses.
2/ Only counties with 500 or more retail establishments are broken down into types of business.
3/ Only counties with 100 or more wholesale establishments are broken down into types of business.
SOURCES: U.S. Bureau of the Census, Census of Business, 1967 Retail Trade: Oregon, BC 67 - RA 39, U.S. Government Printing Office, Washington, D.C., 1969.
U.S. Bureau of the Census, Census of Business, 1967 Wholesale Trade: Oregon, BC 67 - WA 39, U.S. Government Printing Office, Washington, D.C., 1969.

Table 82. Selected Services, Wallowa County, 1967

Kind of Business	Establishments	Receipts	Paid 1/ Employees
	- number -	($1,000)	- number -
Selected Services, total 2/...	55	$1,081	38

1/ Excludes active proprietors of unincorporated businesses.
2/ Only counties with 300 or more establishments are broken down into kind of business.
SOURCE: U.S. Bureau of the Census, Census of Business, 1967 Selected Services: Oregon, BC 67 - SA 39, U.S. Government Printing Office, Washington, D.C., 1969.

PUBLIC SERVICES

Transportation

There are no federal highways in the county, but State Highway 3 connects the center of the county with the north, and State Highway 82 goes westerly across the county towards neighboring Union County.

A branch line of the Union Pacific connects the Wallowa Valley with the main line at La Grande to the west.

Table 83. Miles of Roadway by Jurisdiction Agency, Wallowa County, 1968

Agency	Miles
Federal agency roads.....	1,016
State agency roads.....	149
County and public usage roads 1/...	694
City streets.....	31
Total.....	1,890

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 84. Motor Vehicle Registration, Wallowa County, 1970 and 1972

Vehicle	Number of Vehicles	
	1970	1972
Passenger vehicles.....	4,147	4,489
Buses.....	3	21
Trucks.....	778	214
All trailers.....	293	192
Motorcycles.....	194	252
Recreational 1/.....	331	480
Snowmobiles.....	NA*	192
Total vehicles.....	5,746	5,940

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

SOURCES: Oregon Department of Transportation, Motor Vehicles Division, two page report, March 1971, taken from Bureau of Business and Economic Research, Oregon Economic Statistics 1972, University of Oregon, 1972. Oregon Department of Transportation, Motor Vehicles Division, telephone interview, unpublished 1972 data.

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

Subject	Number
Aircraft.....	22
Boats.....	170

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

Communication

There is one radio station located in Wallowa County, and others can be received from within its borders. The one newspaper published in the county is published weekly.

Table 86. Communication Facilities, Wallowa County

Type of Service	Location	Network Affiliation
Radio stations		
KWVR.....	Enterprise	None
Telephone		
Asotin Telephone Company.....	Flora	
General Telephone Company of the Northwest, Inc., LaGrande District.	Enterprise, Lostine, Joseph-Imnaha, Wallowa	
Television stations		
No stations located within the county, but stations from other areas may be received.	Cable television available from Enterprise	
Newspapers		
Wallowa County Chieftain.....	Enterprise	

SOURCES: Oregon Association of Broadcasters, Directory of Radio and Television Stations for the State of Oregon, 1972.
Oregon State Executive Department, Clay Meyers, Secretary of State, Oregon Blue Book, 1973-74, January 1973.
Pacific Northwest Bell, unpublished data, 1971.

Table 87. Residential Communication Facilities, Wallowa County, 1960 & 1970

Facilities	Number of Housing Units 1960	1970
Battery radio sets		
Yes.....	NA*	1,713
No.....	NA	312
Telephone available		
Yes.....	1,456	1,759
No.....	765	358
Television sets		
One.....	1,575	1,660
Two or more.....	40	209
None.....	606	156
UHF equipped		
Yes.....	NA	820
No.....	NA	1,049

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

Library Facilities

Over half of the funds for operating libraries in Wallowa County in 1969-1970 were provided by the county while cities provided the remaining funds. Total funds provided were $25,130, and total expenditures equalled $23,523. The county's circulation per capita of 7.6 and expenditures per capita of $3.65 compare with state figures of 6.3 and $3.48.

Table 88. Wallowa County Libraries, by City of Location, 1969-70 Fiscal Year

City	Volumes	Circu-lation	Circ./capita	Hrs. Open Per Week	Operating Expend.	Expend./Capita
Enterprise.....	13,057	14,549	7.6	40	$12,664	$6.60
Enterprise 1/..	13,673	17,452	9.1	29	7,820	4.07
Joseph 1/.....	3,965	4,617	5.1	10	773	0.86
Wallowa 1/.....	4,756	7,050	8.5	15	2,266	2.75
County total...	35,451	48,830	7.6		$23,523	$3.65

1/ City library.

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

Utilities

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

Subject	Wallowa County Number	Wallowa County Percent 1/	State Percent 1/
Water source			
Public system or private company.....	1,547	59.3	79.8
Individual well.....	617	23.7	16.9
Other or none.....	445	17.0	3.3
Sewage disposal			
Public sewer.....	1,226	47.0	61.0
Septic tank or cesspool.....	1,179	45.2	37.5
Other or none.....	204	7.8	1.5

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

Table 90. Types of Fuels and Fuel Usage, Wallowa County, 1960 and 1970

Type of Fuel	Home Heating Fuel 1960	Home Heating Fuel 1970	Water Heating Fuel 1960	Water Heating Fuel 1970	Cooking Fuel 1960	Cooking Fuel 1970
Utility gas.....	--	18	39	21	38	39
Fuel oil, kerosene, etc....	957	997	19	--	--	27
Coal or coke.....	258	270	59	37	40	--
Wood.....	727	263	138	--	412	86
Electricity.....	119	353	1,710	1,772	1,534	1,711
Bottled, tank, or LP gas...	160	84	20	84	177	162
Other fuel.....	--	40	--	--	--	--
None.....	--	--	236	111	20	--
All housing units.....	2,842	2,575				

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.

There is little electrical power produced within Wallowa County. Some hydroelectric power is produced, but most electrical power is imported from outside the county.

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

Item	Wallowa County		State
	Total Amount	Per Capita Amount	Per Capita Amount
	- $1,000 -	- - - dollars - - -	
General revenue, exc. interlocal...	2,199	328.20	308
Intergovernmental revenue.....	985	147.01	97
From state government.....	984	146.80	83
From local sources.....	1,214	181.19	210
Taxes.....	1,074	160.29	156
Property.....	1,061	158.32	151
Other.....	13	1.97	5
Charges and miscellaneous.....	140	20.90	54
Direct general expenditure.....	2,284	340.91	316
Capital outlay.....	356	53.12	62
Other.....	1,928	287.80	254
Education.....	934	139.43	180
Other than capital outlay.....	923	137.70	152
Highways.....	346	51.58	30
Other than capital outlay.....	327	48.74	20
Public welfare.....	1	0.11	2
Hospitals.....	359	53.64	6
Other than capital outlay.....	348	51.96	--
Health.....	10	1.54	4
Police protection.....	60	8.89	12
Fire protection.....	13	1.94	9
Sewerage.....	299	44.59	8
Other than capital outlay.....	9	1.31	3
Sanitation other than sewerage...	4	0.54	2
Parks and recreation.....	9	1.31	10
Natural resources.....	51	7.65	4
Housing and urban renewal.....	--	--	4
Correction.....	1	0.20	2
Libraries.....	17	2.59	3
Financial administration.....	41	6.16	5
General control.....	42	6.32	8
General public buildings.....	22	3.33	3
Interest on general debt.....	16	2.42	6
Other and unallocable.....	58	8.69	21
Water supply revenue.....	56	8.43	12
Water supply expenditure.....	31	4.56	13
General debt outstanding.....	841	125.60	214
Long-term.....	841	125.60	203
Local schools.....	101	15.15	101
Other.....	740	110.45	101

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

Table 92. City Valuation, Tax Rates and Taxes Extended for 1971-72 Fiscal Year, Wallowa County

Item	Enterprise	Joseph	Wallowa	Lostine
Population.....	1,725	870	810	195
Code Area 1/.....	21-1	6-1	12-1	7-1
Assessed Value.....	$11,752,772	$4,629,448	$3,428,331	$882,410
Assigned Ratio.....	100.00%	100.00%	100.00%	100.00%
Rate/$1,000 by levying unit				
County.....	3.78	3.78	3.78	3.78
City.....	4.17	3.62	5.15	.63
School.....	9.02	10.64	10.12	10.12
Other.....	.24	.09	.21	.23
Total.....	17.21	18.13	19.26	14.76
City Tax.....	$49,009	$16,759	$17,656	$556
Consolidated Tax....	$202,265	$83,932	$66,030	$13,024

1/ Code areas are assessors' divisions which cover all or part of a city.
SOURCE: Oregon State Department of Revenue, Summary of Assessment and Tax Rolls for the 1971-72 Fiscal Year and 1969-70 and 1970-71 Property Tax Collections, Research and Special Service Division, 1972.

Table 93. Per Capita City Taxes and Valuation Percentage Distribution of Consolidated Rates and Dollars Per Thousand Rates on True Cash Value for 1971-72 Fiscal Year, Wallowa County

Item	Enterprise	Joseph	Wallowa	Lostine
True cash value (TCV).	$11,752,772	$4,629,448	$3,428,331	$882,410
Per capita true cash value.....	6,813	5,321	4,233	4,525
Per capita tax				
City.....	28	19	22	3
Consolidated.....	117	96	82	67
Percentage of total levy				
County.....	22.0	20.8	19.6	25.6
City.....	24.2	20.0	26.7	4.3
School.....	52.4	58.7	52.5	68.6
Other.....	1.4	0.5	1.1	1.6
Average rate/$TCV Basis				
County.....	3.78	3.78	3.78	3.78
City.....	4.17	3.62	5.15	.63
School.....	9.02	10.64	10.12	10.12
Other.....	.24	.09	.21	.23
Total.....	17.21	18.13	19.26	14.76

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 Service Division, 1972.

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

Item	Amount in Dollars
Levies	
County	$ 518,885
Cities	83,979
Community Colleges	---
Elementary and Secondary School Districts	
Intermediate County	879,908
Education Joint	---
Elementary and Unified	502,791
Union High	---
County Unit	---
Total School Districts	1,382,699
Special Districts	
Cemetery	13,673
Fire Protection	4,397
Hospital	---
Park and Recreation	---
Port	---
Road	---
Sanitary	---
Water Supply	1,720
Other	---
Total Special Districts	19,790
Total Gross Ad Valorem Levies	2,005,353
Special Assessments	
Fire Patrol	41,372
Forest Fee	---
Diking and Drainage	---
Irrigation	---
Lighting	---
Other	5,198
Total Special Assessments	46,570
Total Gross Levies and Assessments	2,051,923
Less Property Relief Money	
Senior Citizens	(6,192)
Game Commission	---
Total Net Ad Valorem Levies	1,999,161
Net Ad Valorem Taxes by Class	
Real Property	1,000,022
Personal Property	218,044
Utility Property	781,095

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 Service Division, 1972.

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

Item	Assessed Value	Percent of Total
Class		
Real Property		
Lands inside corporate limits	$ 2,602,625	1.89
Lands outside corporate limits	38,224,825	27.84
Improvements inside corporate limits	14,081,800	10.25
Improvements outside corporate limits	14,236,505	10.37
Timber (excludes land)	---	---
Less veterans exemptions	(-1,375,950)	(-1.00)
Less senior citizens residence exemptions	(- 358,720)	(-0.26)
Taxable real property	68,275,045	49.73
Personal Property		
Merchandise and stock in trade	2,373,610	9.01
Furniture, fixtures and equipment	1,213,365	0.88
Farm machinery and equipment	3,022,420	2.20
Other machinery and equipment	1,735,915	1.26
Livestock	6,776,520	4.93
Miscellaneous	---	---
Less veterans exemptions	---	---
Less senior citizens residence exemptions	---	---
Taxable personal property	15,121,830	11.01
Total taxable real and personal property	83,396,875	60.75
Utilities		
Airline companies	---	---
Electric companies	50,534,168	36.81
Express companies	---	---
Gas companies	---	---
Heating companies	---	---
Pipeline companies	---	---
Railroad companies	1,449,000	1.05
Tank and private car companies	---	---
Telegraph companies	---	---
Telephone companies	1,874,714	1.36
Water companies	---	---
Water transportation companies	16,400	0.01
Taxable utility property	53,874,282	39.24
Total taxable real, personal and utility property	$137,271,157	100.00

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

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

Item	Total Amount	Amount Unpaid	Percent of Unpaid
Property Taxable			
Real.....	$ 841,728	$105,046	12.5
Personal.....	171,035	22,328	13.1
Public utilities.....	604,228	5,010	0.8
Western Oregon additional timber tax.....	---	---	---
Yield tax.....	---	---	---
Total.....	$1,616,991	$132,384	8.2

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 Service Division, 1972.

Selected List of Agencies

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

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

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

1. Bureau of Business and Economic Research, University of Oregon, Eugene, Oregon 97403

2. Center for Population Research and Census, Portland State University, 724 S.W. Harrison, Portland, Oregon 97201

3. Children Services Division, Oregon State Department of Human Resources, Public Services Building, Salem, Oregon 97310

4. Department of Environmental Quality, 1234 S.W. Morrison, Portland, Oregon 97204

5. Economic Research Service, U.S.D.A. Extension Hall, Oregon State University, Corvallis, Oregon 97331

6. Extension Service, Oregon State University, Corvallis, Oregon 97331

7. Fish Commission of Oregon, 1400 S.W. 5th St., Portland, Oregon 97201

8. 4-H Youth Office, Extension Hall, Oregon State University, Corvallis, Oregon 97331

9. Forest Service, U.S.D.A., 319 S.W. Pine St., Portland, Oregon 97204

10. Governor's Office, Economic Development Special Projects, State Capitol Building, Salem, Oregon 97310

11. Local Government Relations Division, Oregon Executive Department, 240 Cottage S.E., Salem, Oregon 97310

12. Oregon Association of Broadcasters, Allen Hall, University of Oregon, Eugene, Oregon 97403

13. Oregon Board of Higher Education, School Finance and Statistical Services, 942 Lancaster Dr. N.E., Salem, Oregon 97310

14. Oregon Department of Geology and Mineral Industries, 1400 S.W. 5th St., Portland, Oregon 97201

15. Oregon Educational Coordinating Council, 4263 Commercial S.E., Salem, Oregon 97310

16. Oregon State Department of Revenue, State Office Building, Salem, Oregon 97310

17. Oregon State Employment Division, Community Manpower, Research and Statistics, or Rural Manpower sections, Labor and Industries Building, Salem, Oregon 97310

18. Oregon State Game Commission, 1634 Alder, Portland, Oregon 97214

19. Oregon State Health Division, Department of Human Resources, 1400 S.W. 5th, Portland, Oregon 97201

20. Oregon State Highway Division, State Parks and Recreation Section, 8009 E. Burnside, Portland, Oregon 97215

21. Oregon State Lands Division, 502 Winter N.E., Salem, Oregon 97310

22. Oregon State Library, State Library Building, Salem, Oregon 97310

23. Oregon State Public Welfare Division, Department of Human Resources, Public Services Building, Salem, Oregon 97310

24. Pacific Northwest Forest and Range Experiment Station, U.S. Forest Service, 809 N.E. 6th St., Portland, Oregon 97232

25. Secretary of State's Office, State Capitol Building, Salem, Oregon 97310

26. Soil Conservation Service, U.S.D.A., 1218 S.W. Washington, Portland, Oregon 97205

27. State Water Resources Board, 1158 Chemeketa N.E., Salem, Oregon 97310

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