

RESOURCE ATLAS

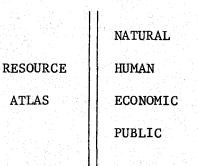
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SEPTEMBER 1973

EXTENSION Community Development PROJECT

OREGON STATE UNIVERSITY

Harney County, Oregon



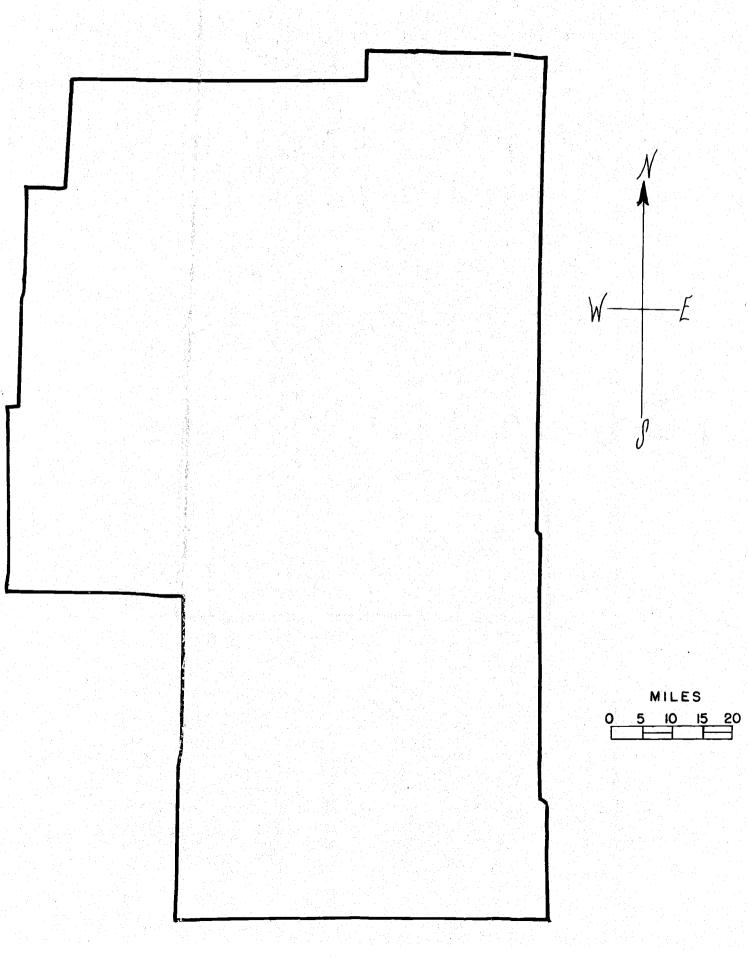
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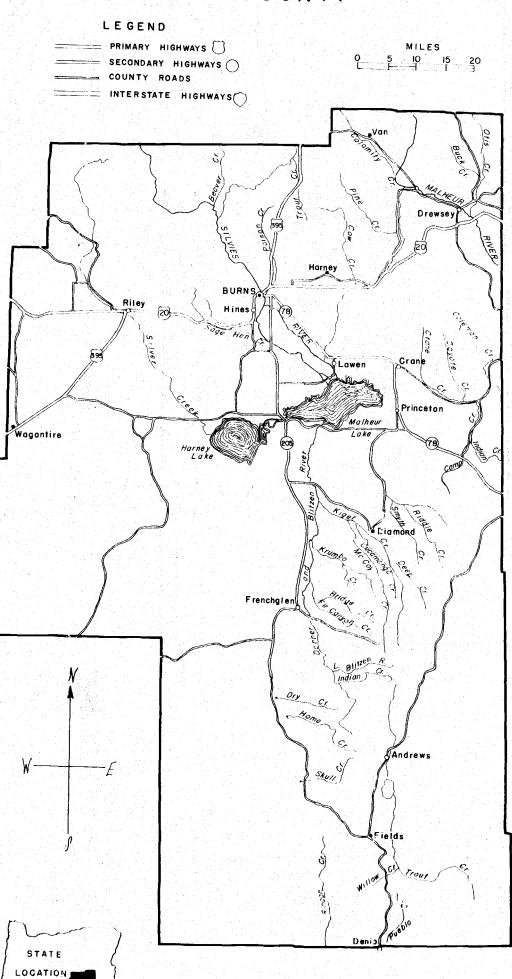
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HARNEY COUNTY



HARNEY COUNTY



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<u>GENERAL DESCRIPTION $\frac{1}{}$ </u>

Harney County is located in southeastern Oregon. It is bordered by Lake, Deschutes, and Crook Counties on the west, Grant County on the north, Malheur County on the east, and the State of Nevada forms its southern border.

The county seat, Burns, is approximately 262 miles southeast of Portland, 164 miles south of Baker, and 235 miles northeast of Klamath Falls.

Harney County is the largest county in Oregon, covering over 10,000 square miles. It is larger than seven eastern states. The county contains desert area as well as forested slopes.

Most of the county has a very dry climate with most precipitation falling in winter months. The growing season is fairly short, averaging about 90 to 120 days in **lower** cropland areas and 60 to 90 days in higher elevations.

Livestock raising and lumbering supported settlement of Harney County and remain the most important industries today. Outdoor recreation including hunting is popular in the county also.

Harney County was established in 1889 from a portion of Grant County. The county ranked 30th in population in the state with 6,900 persons in 1972.

A brief summary of the major facts for the county are noted below. $\frac{2}{}$

Area: 10,132 square miles	Population: 6,900
6,484,500 acres	(July 1, 1972)
Elevation at Burns: 4,148 feet	True Cash Value: \$99,069,154
	(1972)
Average Temperature:	Principal Industries:

Average Temperature: Summer - 62 Winter - 33 rincipal Industries: Livestock raising, lumbering

County Seat: Burns

- 1/ Coppedge, Robert O., <u>Agriculture in Oregon Counties Farm Sales and</u> <u>General Characteristics</u>, 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 $\frac{1}{}$

Harney County is largely a youthful high lava plain. Elevations range from about 4,000 feet to 9,670 feet in the Steen Mountain area.

There are four major watersheds in the area: the Silver River Basin, the Silver Creek Basin, the Alvord-Catlow Basins, and the Blitzen River Basin.

The Silver Creek Basin varies in elevation from 4,200 to 6,500 feet. Valley floors are generally quite flat. Forest areas are gently rolling and broken by steep rocky canyons. The high desert is rolling and broken by draws, rocky buttes, and rimrocks.

The Alvord-Catlow Basins vary from sands in the Alvord Desert to mountain crags in the Steens Mountain.

The Blitzen River Basin has deep canyons cut by swift streams. Elevations vary from 5,000 to 6,000 feet.

Climate

Harney County's climate is semi-arid with relatively warm summers and rather severe winters. Extremes of $-54^{\circ}F$ and $107^{\circ}F$ have been recorded. Growing seasons vary from 90 to 120 days in the lower valleys to 60 to 90 days in the upper valleys. However, freezing temperatures have been recorded every month of the year.

Precipitation averages around 10 inches annually in populated areas but varies from 35 inches in upper reaches to less than 3 inches at lower elevations. Snowfall varies from a few inches in the valleys to over 70 inches in the mourtains. Summer cloudbursts can cause severe soil erosion but add little to soil moisture. Stormy winds are common throughout the year, especially from March to June.

Station	Elevation in Feet					
Buena Vista	4,135					
Burns WB City	4,151					
Malheur Refuge Headquarters	4,109					
00 Ranch	4,136					
P Ranch Refuge	4,205					
Squaw Butte Experiment Station	4,675					

Table 1. Selected Weather Stations in Harney County

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

1/ Oregon State Water Resources Board, cooperating with U.S. Department of Agriculture, <u>Report on Water and Related Land Resources</u>, <u>Malheur Lake</u> Drainage Basin, 1967.

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
				•			LI				L	.	••
Average								21	8. j				
Temperature					0	legre	es Far	enhe:	it				
Buena Vista			÷									<u> </u>	NA*
Burns WB City	26.0	30.5	35.9	45.2	52.6	59.6	69.2	66.5	59.2	48.2	36.0	28.8	46.5
Malheur Refuge													
Headquarters.	27.6	31.7	36.2	45.2	52.3	59.5	67.8	65.0	57.9	47.1	35.5	29.4	46.3
00 Ranch									المجيش ال				NA
P Ranch Refuge.			,	. 				; <u> </u>					NA
Squaw Butte								i di					
Exp. Station.	26.8	31.0	35.5	43.6	50.2	57.3	67.3	65.2	59.0	48.3	36.4	29.3	45.8
Total													
Precipitation	1 - -					:	inches	s — —	·				
Buena Vista	.66	.66	.84	.76	1.48	1.00	.27	.20	.46	.75	.62	.82	8.52
Burns WB City	1.62	1.27	.97	.75	.89	.88	.34	.29	.50	.86	1.16	1.43	10.96
Malheur Refuge													
Headquarters.	.93	.81	.67	.49	1.27	.86	.35	.23	.49	.75	.76	.83	8.44
00 Ranch	.90	.60	.64	.57	1.01	.73	.09	.1.	.29	.54	.61	.76	6.91
P Ranch Refuge.	1.11	1.02	.92	1.06		1.14	.27	.23	.52	.98	.99	1.07	11.26
Squaw Butte								$ \mathcal{F}_{i} = \frac{1}{2} \sum_{i=1}^{n} \mathcal{F}_{i} $					
Exp. Station.	1 50	1 1 /	1 20	60	1 66	02	20	20	20	02	07	1 36	11.24

Table 2. Temperature and Precipitation, Harney County, By Month, 1951-60 Averages

*NA - temperature data are not available for these stations. SOURCE: U.S. Department of Commerce, Weather Bureau, <u>Decennial Census of U.S.</u> Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965.

Table 3. Freeze Data for Harney County, 1951 - 1960

		Mea	n Num	ber o	f Day	s with	n Temp	erat	ure o	f 32 ⁰	F. or	Belo	w
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Burns WB City Malheur Refuge _{2/}	29	26	28	17	6	1	0	<u>1</u> /	2	16	26	30	181
Headquarters 2/	28	25	26	19	8	1	<u>1</u> /	1	4	19	25	30	186
Squaw Butte Exp. Station-/	30	27	28	21	11	4	1	<u>1</u> /	4	15	26	30	197

1/ Less than 0.5 days.

 $\overline{2}$ / Some months somewhat less than the 1951-1960, ten year period.

SOURCE: U.S. Department of Commerce, Weather Bureau, <u>Decennial Census of U.S.</u> Climate, Supplement for 1951 through 1960, Oregon No. 86-31, 1965. The following table indicates an average day time high and night time low for each month over the years 1951-1960.

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annua
Mean Daily						-							
Maximum Temp.					0	legree	es Fai	renhe	ít - ·				-
Burns WB City	35.7	40.9	47.6	58.7	66.4	74.7	86.2	83.2	76.8	63.9	48.7	38.8	60.1
Malheur Refuge Headquarters.	36.9	41.6	48.1	59. 5	66.8	75.2	86.0	83.2	76.8	63.4	48.4	39.1	60.4
Squaw Butte Exp. Station.	36.5	41.3	46.9	57.9	64.7	73.2	85.4	82.6	76.6	63.6	49.2	39.5	59.8
Mean Daily Minimum Temp.					(degree	es Fa	renhe	it -				- <u>-</u>
Burns WB City	16.3	20.1	24.1	31.6	38.7	44.6	52.1	49.7	41.5	32.6	23.3	18.7	32.8
Malheur Refuge Headquarters /	18.3	21.7	24.3	30.8	37.8	43.7	49.5	46.7	38.7	30.7	22.6	19.6	32.0
Squaw Butte <u>1</u> / Exp. Station—	17.0	20.6	23.2	29.2	35.7	41.3	49.2	47.7	41.3	33.0	23.5	19.1	31.7

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

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

Soils $\frac{1}{}$

Generally, the lowland soils in Harney County were developed in alluvium of different forms and at different locations. They vary from deep, well drained, fertile soils to shallow, very strongly alkaline soils with hardpan in the subsoil. The upland and areas susceptible to development are composed of these soils. The cropland soils were developed mostly from volcanic materials. Most of the upland soils which support range are shallow over silica-lime hardpans. The soils supporting timber are deep and well drained.

The soils in Harney County can be divided into eight major groups: fan and flood plain soils, strongly alkaline floodplain soils, lake basin soils,

1/ Oregon State Water Resources Board, cooperating with U.S. Department of Agriculture, <u>Report on Water and Related Land Resources</u>, <u>Malheur Lake</u> Drainage Basin, 1967.

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

older fan and terrace soils, upland soils below 5,600 feet, upland soils above 5,600 feet, upland soils under forest cover, and miscellaneous land types.

```
Fan and flood plain soils:
     Surface soil texture - loam to silty clay loam
     Subsoil texture - loam to very stony loam
     pH value - 6.8 to 8.6
     Depth - 14-60 inches, mostly 36-60 inches
     Drainage - well to poorly
     Major land use - crop and some range lands
Strongly alkaline flood plain soils:
     Surface soil texture - silt loam and sandy loam
     Subsoil texture - clay to silt loam
     pH value - 6.5 to 9.6+
     Depth - 20 to 60+ inches
     Drainage - well to poorly
     Major land use - cropland
Lake basin soils:
     Surface soil texture - silt loam, silty clay
     Subsoil texture - clay, silty clay
     pH value - 6.8 to 7.6
     Depth - 16 to 60+ inches
     Drainage - shallow soils, well; deeper soils, somewhat poorly
     Major land use - crop and range lands
Older fan and terrace soils:
     Surface soil texture - loam to gravelly loam
     Subsoil texture - loam to clay
     pH value - 7 to 7.4
     Depth - 14 to 60 inches, mostly 14 to 24 inches
     Drainage - well
     Major land use - crop and range lands
Upland soils below 5,600 feet:
     Surface soil texture - stony to very stony loam
     Subsoil texture - clay to coarse loam
     pH value - 6.6 to 7.8
     Depth - 0 to 60 inches, mostly 10 to 22 inches
     Drainage - well
     Major land use - rangeland
Upland soils above 5,600 feet:
     Surface soil texture - loam to stony silt loam
     Subsoil texture - silt loam to stony silty clay
     pH value - 6.6 to 7.3
     Depth - 10 to 36 inches
     Drainage - well
     Majo: land use - rangeland
```

Upland soils under forest cover:

Surface soil texture - silt loam to very stony loam Subsoil texture - loam to very stony silty clay loam pH value - 6.0 to 6.8 Depth - 5 to 50 inches Drainage - well Major land use - forest and range lands

Miscellaneous land types:

Dune land, rough stony land, playas, badland, and volcanic ash

For further information on Harney County soils, see: Lindsay, M. G., B. B. Lovell, J. A. Norgren, <u>Oregon's Long-Range Requirements for Water</u>, General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12, Oregon State Water Resources Board.

Soil Characteristics and Land Capability

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

	Use		Acres
nventory Acreage			
ivencory nereage			
Cropland			216,145
Pasture			19,000
Range			1,439,127
Forest and woodla			79,000
Other land		• • • • • • • • • • • • •	23,000
Matal	en de la compañía de Esta de la compañía d		1 776 979
Total inventory a	cres	•••••	1,776,272
Percent of total	land area in	inventorv	27.4%
Ion-Inventory Acrea	ge		
Federal land			4,698,694
Federal land Urban and built-up	 p areas		6,700
Federal land	 p areas		
Federal land Urban and built-u Water areas	p areas		6,700 2,174
Federal land Urban and built-up	p areas		6,700
Federal land Urban and built-u Water areas	p areas ry acres		6,700 2,174

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

Capability Class		Use	in Acres		
and Limitations <u>1/</u>	Cropland	Pasture-Range	Forest	Other Land	Total
I	0	0	0	0	C
II	e de la companya de l La companya de la comp				
 E	20,421	0	0	5,000	25,421
W	122,780	89,452	0	13,359	225,593
C	46,104	0	0	0	46,104
III W	23,340	185,677	0	0	209 ,0 17
IV S	3,500	77,935	0	0	81,43
v	0	0	0	0	· · · · (
VI E	0	766,742	29,000	97	795,839
VII S	0	338,321	50,000	0	388,32
VIII S	0	0	0	4,544	4,544
		ation is erosion oil interferes w		growth.	
		allow, droughty,			
		ation is climate			
SOURCE: Oregon Conser	vation Need	s Needs Committe U.S.D.A. Soil Co	e, Oregon	Soil and Wate	er Conse

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

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

Classification	Acreage
ALL CROPLAND	216,145
Cropland needing treatment	127,040
Type of treatment needed:	
Residue cover	6,100
Sod in rotation	14,650
Drainage	16,000
Management	10,425
Other <u>1</u> /	79,854
ALL PASTURE AND RANGE	1,458,127
Pasture and range needing treatment Type of treatment needed:	1,286,539
Establishment of vegetation	492,006
Improvement of vegetation	794,533
FOREST AND WOODLAND	79,000
Forest and woodland needing treatment Description of problems:	58,500
Establishment of timber stand	38,000
Improvement of timber stand	20,500
OTHER LAND	23,000
Other land needing treatment	14,000

Table 7. Conservation Treatment Needs, Harney County, 1967

1/ Includes improved irrigation systems and water management. SOURCE: Oregon Conservation Needs Committee, Oregon Soil and Water Conservation Needs Inventory, U.S. Soil Conservation Service and Oregon State University Extension Service, 1971.

Land Ownership and Land Use

In this report, land ownership in Harney County is classified as public lands (federal, state, and county), or private lands. About 23 percent of Harney County is privately owned. Most of the private land is in farms and forests. Approximately 73 percent of the county is in federal ownership, of which 84 percent is administered by the Bureau of Land Management, 10 percent by the U.S. Forest Service, and about 2 percent managed by the Fish and Wildlife Service.

About 3.5 percent of the county is owned by the State of Oregon. Approximately 96 percent of the state-owned land is administered by the Division of State Lands. Most land in Harney County is primarily devoted to agriculture, forestry, conservation, and grazing of livestock. About 88 percent of the county is devoted to grazing alone. Approximately 7 percent of the county is forest land, which is located in the northern section of the county in the Ochoco National Forest.

	Harney	County	State
Item	Acres	Fercent	Percent
Total land area	6,484,480	100.00	100.00
Land Use			
Urban	1,297	0.02	0.49
Industrial	NA*		0.16
Military	NA	el seguidad de la companya de la com La companya de la comp	0.10
Intensive agriculture	80,408	1.24	6.52
Dryland farming	3,891	0.06	3.33
Forests	424,733	6.55	44.84
Parks	NA		0.32
Conservation	154,479	2.39	2.25
Grazing	5,769,242	88.97	41.50
Non-productive land	and a second		0.49
Land Ownership			
Total private land ownership	1,464,599	22.60	44.20
Total public land ownership	5,019,921	77.40	55.80
Federal	4,713,874	72.70	51.80
State	229,889	3.50	2.90
Local	76,158	1.20	1.10

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

*NA - not available.

SOURCE: Oregon Department of Planning and Development, <u>Resources for</u> Development, 1964.

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

	Harney County
Ownership	Acres Percent
State highways County roads City streets	3,46019.713,88579.12051.2
Total	17,550 100.0

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

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

Agency	Acres	Land Value	Imprcv. Value	Total Value	Annual Rental Income
Game Commission	686.37	\$ 11,310	\$102,700	\$ 114,010	
Oregon State University.	662.69	106,054	210,210	316,264	\$1,080
Division of State Lands.	215,394.35	2,503,256		2,503,256	
Military Department	1.15	6,770	165,270	172,040	
Highway Division					
Office & Maintenance	32.65	3,731	230,353	234,084	1,740
Totals	216,777.21	\$2,631,121	\$708,533	\$3,339,654	\$2,820

County, Sec. 7, 115 State Capital, Salem, Oregon, 1970.

Agricultural Land

About 22 percent or 1,400,000 acres of Harney County is in farm land. However, only about 16 percent of this land is cropland. Much of this land is devoted to grazing. Approximately 9 percent of the farm land is irrigated.

	196	54	1969		
Item	Acres	Percent	Acres	Percent	
Total land area	6,506,240	100.0	6,506,048	100.0	
Proportion in farms	0,000,240	21.7	0,300,040	21.7	
Acres in farms	1,416,707	100.0	1,413,126	100.0	
Cropland harvested	136,555	9.6	123,991	8.8	
Cropland pasture	59,165	4.2	70,764	5.0	
Other cropland	35,547	2.5	12,213	0.9	
Woodland including					
woodland pasture	12,701	0.9	16,228	1.1	
Other land	1,160,342	81.9	1,189,930	84.2	
Irrigated land	140,185	9.9	128,113	9.1	

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

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

Forest Land

Harney County commercial sawtimber is composed primarily of Ponderosa pine. Harney County contains one of the largest stands of Ponderosa pine in the United States in the Ochoco National Forest. Ponderosa pine occurs from the lower limits of the tree growth upward in altitude approximately 2,000 feet. This area has an annual precipitation between 18 and 30 inches. Cutting is usually selective--the older, weaker, and less vigorous trees being harvested. As a sawtimber tree, Ponderosa pine is second in quantity only to Douglas fir, and its value often exceeds that of Douglas fir.

Larch and Douglas fir occur above the Ponderosa pine. A substantial stand of noncommercial juniper and pinon-juniper type are located in the central section of Harney County. They are located on the fringes of semiarid regions, on sites too dry for Ponderosa pine.

About 6.4 percent of the forest land in Harney county, or 26,520 acres, is in private ownership. Approximately 93 percent of the forest land in the county, 382,770 acres, is in federal ownership. About 89 percent of the federal forest land is in the Ochoco National Forest. The remaining 4 percent of the federal forest land is under the Bureau of Land Management control.

Less than .5 percent of the forest land, or 1,400 acres, is owned by the State of Oregon, with the major portion administered by the State Board of Forestry. Less than .5 percent of the forest land in the county, 240 acres, is owned by the county.

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

There was an estimated 410,930 acres of commercial forest land in Harney County in 1953. Commercial forest land is forest land that is (a) producing, or is physically capable of producing, usable crops of wood, (b) economically available, now or prospectively, for timber harvest, and (c) not withdrawn from timber harvest.

In 1953, the U.S. Forest Service estimated there was 220,330 acres of noncommercial forest land in Harney County. Noncommercial forest land is physically incapable of producing usable crops of wood or is reserved, that is withdrawn, from timber harvest through statute, ordinance, or administrative order.

More recent data on Harney County forest lands will be available from the U.S. Forest Service, Pacific Northwest Experiment Station, P.O. Box 3141, Portland, Oregon, after August 1, 1973.

Iten	Acres	Percent
LAND		
Total land	6,484,480	100.0
Forest land	631,260	9.7
Commercial	410,930	6.3
Unproductive	220,330	3.4
Productive - reserved		
Nonforest	5,853,220	90.3
OWNERSHIP		
All ownerships	410,930	100.0
National forest	364,840	88.8
Other public	19,570	4.8
Private 1/	26,520	6.4
· · · · · · · · · · · · · · · · · · ·		

Table 12. Forest Acreage, Ownership and Use, Harney County, 1953

1/ Statistics not available for forest industry and other private separately for Harney County.

SOURCE: U.S. Forest Service, Forest Statistics for Harney County, Resource Bulletin PNW-118, Pacific Northwest Experiment Station, 1954.

> Table 13. Volume of All Growing Stock and Sawtimber by Ownership, Harney County, 1953

Item	Total Commercial Growing Stock	Total Commercial Sawtimber		
OUNEDCUTD	million cubic ft. percent	million board ft. <u>-</u> / percent		
OWNERSHIP National forest Other public Private <u>2</u> /	747 92.6 27 3.3 33 4.1	3,982 93.6 115 2.7 159 3.7		
All ownerships	807 100.0	4,256 100.0		

1/ Scribner log rule.

 $\overline{2}$ / Statistics not available for forest industry and other private separately for Harney County.

SOURCE: U.S. Forest Service, Forest Statistics for Harney County, Resource Bulletin PNW-118, Pacific Northwest Experiment Station, 1954.

Species	Growing	Stock	Sawtimber		
	million cubic ft.	percent	million board ft. <mark>2</mark> /	percent	
All species 1/	807	100.0	4,256	100.0	
Softwoods	807	100.0	4,256	100.0	
Ponderosa pine	748	92.7	4,043	95.0	
Douglas fir	28	3.5	110	2.6	
White fir	33	4.1	103	2.4	
Hardwoods					

Table 14. Volume of All Growing Stock and Sawtimber on Commercial Forest Land by Species, Harney County, 1953

 $\frac{1}{1}$ In addition to the species listed, lodgepole pine and western larch occur in the county in small quantities.

2/ Scribner log rule.

SOURCE: U.S. Forest Service, Forest Statistics for Harney County, Oregon, Resource Bulletin PNW-118, Pacific Northwest Experiment Station, 1954.

Water

There are more than 33 watersheds in Harney County. Monthly flows in county streams are highest from November to April and are lowest during the summer months, closely following seasonal precipitation patterns.

Table 15. Annual Yield of Representative Streams, Harney County

	Drainage	Years	Mean Annual Yield $\frac{1}{}$		
Stream and	Area	of	2/	acre-feet/	
Gaging Point	sq. miles	Record	$acre-feet^{2'}$	sq. mile	
Silvies River near Burns.	934	55	116,600	125	
Donner and Blitzen River					
near Frenchgler	200	38	85,430	427	
Bridge Creek near					
Frenchglen	30	34	9,770	325	
Silver Creek near Riley	228	17	29,680	130	
	1 · · · · · · · · · · · · · · · · · · ·				

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

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

acre to a depth of one foot.

Table 16. Extremes of Discharge at Selected Stations, Harney County	Table 16.	Extremes	of	Discharge	at	Selected	Stations,	Harney	County
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	Maximu	m Discharge	Minimum Discharge	
Stream and Location	Year	Flow (cfs) $\frac{1}{}$	Year Flow (cfs	
Silvies River near Burns. Donner and Blitzen River	1952	4,960	1934 No flow	
near Frenchglen Bridge Creek near	1953	2,750	1967 4.7	
Frenchglen	1953	301	1962 4.2	
Silver Creek near Riley	1964	1,810	No flow some years	
		<u>i se a la la la tra la tra la tra la tra la tra la</u>		

1/ cfs - cubic feet per second.

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

There has been little development of ground water in Harney County. There are few irrigation wells in the county; most wells are for domestic use or watering livestock.

Domestic water rights include those granted for individual and small group water supply systems plus campsite, park, and stock watering use. In rural areas, water for these purposes is obtained mostly from wells and springs with a smaller amount taken from streams.

Water rights classed as municipal include those held by water districts as well as municipalities.

City	Population Served	Water Source	Treatment
	Derved	water bource	
Burns	4,003	Deep well	n an
Fields	20	Well	No treatment
Hines	1,400	Deep well	No treatment

Table 17. Harney County Municipal Water Supplies

SOURCE: Oregon State Water Resources Board, Malheur Lake Basin Report, 1967.

Quantity problems associated with surface supplies are generally those of low streamflow during the summer months. Groundwater supplies are inadequate in those areas where the water table drops severely during the summer.

Quality problems are varied. Those associated with surface supplies include rather wide and rapid fluctuations in turbidity, heavy silt loads during the winter and spring. Quality problems associated with groundwater are concerned mainly with hardness, iron, and high salt content.

In 1969, about 130,000 acres of farm land in the county were under irrigation. Most of this was flood irrigation.

The major industrial water user in the county is the lumber industry. Water requirements for use in lumber and wood products manufacturing include water for fire protection, hydraulic barkers, log ponds, and processing.

Due to low population density and few industries, Harney County has few water pollution problems.

Location	Year Built	Type ¹ /	Design Popu- lation	Design Flow ₂ , MGD 2	Popu- lation Served	Receiving Stream
Burns	1958	\mathbf{L}	11,400	1.14	3,300	Land
Burns (USAF) Crane High School	 1961	AD L	200 110	0.02 0.01	0 50	 Land
Hines	1956	L	1,750	0.175	1,450	Land

Table 18. Harney County Sewage Treatment Plants, 1973

1/ L - lagoon, AD - aerobic digestion.

2/ MGD - million gallons per day.

SOURCE: Oregon State Department of Environmental Quality, Oregon Sanitary Authority, unpublished data, 1973.

Note: This data will soon be available in published form.

Water-based Recreation

Overall use of water-based recreational facilities has been steadily increasing in the county. Boating, fishing, and stream and lake-oriented picnic and camping activities have increased in popularity.

Lake	Acres Depth (ft.) Altitude
Fish Lake Little Fish Lake Baca Lake Malheur Lake	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Harney Lake	

Table 19.	Harney	County	Lakes
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SOURCE: Oregon State Water Resources Board, Malheur Lake Basin Report, 1967.

Silver Lake, Alvord Lake, Barton Lake, Warm Spring Reservoir, and Tudor Lake are some of the other major lakes in the county.

Water needs for wildlife vary according the species and are met in most cases from streams, lakes, and marsh areas. Most species of fish are found in the streams and lakes of Harney County. Rainbow trout, cutthroat trout, brook trout, channel catfish, black bullhead, dolly varden trout, and other species are found in this area.

Minerals

Besides sand and gravel and stone, pumice is quarried in Harney County. The pumice is used for surfacing logging roads and making pumice blocks. There has been commercial exploration for both oil and uranium in the county. Numerous deposits of obsidian, agate, jasper, thunderegge, sunstones, petrified wood, and fossils provide recreational potential for rock hounds.

Wildlife

The most numerous big game species in Harney County is the mule deer. Hunting pressure is variable depending on accessibility.

Game Management Unit $\frac{1}{2}$	Miles Traveled	Animals Observed 1971	1971		Per Mile 5 yr. average <u>2</u>
Mule deer					
Silvies	54	723	13.4	7.2	9.7
Steens Mountain	62	1,322	21.3	24 5	23.2
Malheur River	54	438	8.6	14.9	6.3

Table 20. Big Game Animal Population Trends, Harney County

1/ Figures for Oregon State Game Commission game management units which are not completely contained within Harney County nor completely cover the county.

2/ 5 year average: 1966-1970.

SOURCE: Oregon State Game Commission, <u>1971 Annual Report</u>, Oregon State Game Commission.

The State Game Commission counted over 4,600 antelope in Harney County during a 1971 aerial survey. Antelope numbers have been increasing in recent years. There are also fairly stable populations of bighorn sheep in the Steens Mountain area. About 20 sheep have been observed.

Furbearing animals are numerous in certain areas of the county. These include mink, muskrat, otter, and beaver.

Streams, lakes, and reservoirs in the county contain many species of fish. Anadromous fish are not present because the county's interior streams are isolated from the ocean. Rainbow trout is the most common game fish. Warm water game fish include bluegill, sunfish, bullhead, catfish, white crappie, and yellow perch. The State Game Commission plants a large number of fish in the county each year.

There are several game bird species in Harney Councy, including ringnecked pheasant, valley quail, chukar partridge, sage grouse, and mourning dove.

For additional information on wildlife, refer to the Outdoor Recreation section under the Economy division of this publication.

HUMAN RESOURCES

Population

Harney County was first settled by cattlemen. Livestock raising remains a major occupation in the county today. Lumbering has a so become a major employer.

Harney County's population has risen fairly steadily from 4,000 persons in the early 1900's to nearly 7,000 in 1972. Burns, the county seat, is the largest town with a population of 3,290. As the largest county in the state, Harney County is quite sparsely populated with a population density of less than 0.7 persons per square mile.

Table 21. Number of Persons by Racial Group for Harney County, 1970

Racial Group		Number of Persons
Total Caucasian		7,215 6,684
Spanish Language Black	•	329 30
American Indian Other	•	127 45

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

Table 22. Harney and Bordering Counties, Population and Rank Order in Oregon, 1960 and 1972

		1960	1972		
County	Rank	Population	Rank	Population	
HARNEY	32	6,744	.30	6,900	
Crook	27	9,430	27	10,610	
Deschutes	18	23,100	16	33,800	
Grant	28	7,726	29	6,910	
Lake	29	7,158	31	6,740	
Malheur	19	22,764	20	23,380	

SOURCES: U.S. Bureau of the Census, Census of Population: <u>1960 General</u> <u>Population Characteristics</u>, Final Report PC(1) - B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1961. Center for Population Research and Census, <u>Population Estimates</u> <u>of Counties and Incorporated Cities of Oregon</u>, Portland State University, July 1972.

		Population Density			
County and State	Land Area	1950	1960	1970	
	- square miles -	- persons	s per squa	e mile	
State of Oregon	96,248	15.8	18.4	21.7	
HARNEY	10,131	0.6	0.7	0.7	
Crook	2,980	3.0	3.2	3.5	
Deschutes	3,027	7.2	7.6	10.1	
Grant	4,532	1.8	1.7	1.5	
Lake	8,269	0.8	0.9	0.8	
Malheur	9,870	2.4	2.3	2.3	

Table 23. Land Area and Population Density, Harney and Bordering Counties, 1950, 1960 and 1970

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

Harney County's population has been gradually increasing, but during some short periods the county's population has actually declined. From 1970 to 1972 it fell over 4 percent.

		% Increase	or Decrease
Year	Population	Period	Percent
1910	4,059		
1920	3,992	1910-1920	(0.1)
1930	5,920	1920-1930	48.3
1940	5,374	1930-1940	(9.7)
1950	6,113	1940-1950	13.7
1960	6,744	1950-1960	10.3
1965	7,100	1960-1965	5.3
1970	7,215	1965-1970	6.8
1972	6,900	1970-1972	(4.3)
SOURCES: Center for Populat	ion Research and Ce	ensus, Populatio	n Estimates
of Counties and Ir	ncorporated Cities o	of Oregon, Portl	and State
University, variou	is editions.		
U.S. Bureau of the	e Census, Census of	Population: Ge	neral Population
	Final Report PC(1) -		
	Vashington, D.C., va		

Table 24. Population Growth, Harney County

Table 25. Components of Change in Harney County's Population, 1940-1970	Table 25.	Components o	f Change i	in Harney	7 County'	s Population,	1940-1970
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Year	Net Change	Natural Increase	Net Migration
1940–1950	739	607	132
1950–1960 1960–1970	631 471	1,201 929	-570 -458

SOURCES: U.S. Bureau of the Census, Census of Population, <u>General Demographic</u> <u>Trends for Metropolitan Areas</u>, 1960 to 1970, Final Report PHC (2) -<u>39</u>, Oregon, U.S. Government Printing Office, Washington, D.C., 1971. Oregon State Board of Census, <u>Components of Population Growth</u>, Population Bulletin P-3, 1961.

Table 26. Urban and Rural Population, Harney County, $1950-1970^{1/2}$

	U	rban	Rural		
Year	Population	Percent Change	Population	Percent Change	
1950	3,093		3,020		
1960	3,523	13.9	3,221	6.7	
1970	3,293	-6.5	3,922	21.8	

 The urban population comprises all persons living in urbanized areas and in places of 2,500 inhabitants or more outside urbanized areas. The population not classified as urban constitutes the rural population.
 SOURCE: U.S. Bureau of the Census, U.S. Census of Population: <u>1960</u> and <u>1970, Number of Inhabitants</u>, Final Report PC(1) - A39, Oregon, U.S.

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

Table 27.	Population	Estimates of	Incorporated	Cities,	Harney	County,
		1960, 1965,	1971, and 19	72		

City and County	1960	1965	1971	1972
Harney County	6,744	7,100	7,220	6,900
Burns	3,253	4,050	3,290	3,290
Hines	1,207	1,347	1,415	1,415
Incorporated area	4,460	5,397	4,705	4,705
Unincorporated area	2,284	1,703	2,515	2,195

SOURCE: Center for Population Research and Census, <u>Population Estimates of</u> <u>Counties and Incorporated Cities of Oregon</u>, Portland State University, various years. In 1970 about 37 percent of Harney County's population was under 18 years of age while over 9 percent was 65 years old or over. The median age of Harney County's population increased from 28.0 in 1960 to 29.5 in 1970.

	Ma	Le	Fema	ale	Tota	1	Per	cent
Age Group	1960	1970	1960	1970	1960	1970	1960	1970
								-
Total population.	3,610	3,728	3,134	3,487	6,744	7,215	100.0	100.0
Under 5	419	299	395	294	814	593	12.1	8.2
5-9	402	366	360	344	762	710	11.3	9.4
10-14	320	385	317	404	637	789	9.4	10.9
15-19	239	346	211	292	450	638	6.7	8.8
20-24	236	220	212	233	448	453	6.6	6.3
								-
25-34	479	467	437	440	916	915	13.6	12.7
35-44	464	472	401	421	865	893	12.8	12.4
45-54	423	441	346	416	769	857	11.4	12.9
55-64	319	393	240	321	559	714	8.3	9.9
65 and over	309	339	215	314	524	653	7.8	9.1
Median age	29.3	29.8	26.7	29.0	28.0	29.5		
Median age SOURCE: U.S. Burea				. * 4 . + + +		29.5 960 and	1970 Ge	nera

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

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1960</u> and <u>1970 General</u> <u>Population Characteristics</u>, Final Report PC(1) - <u>339</u>, Oregon, U.S. Government Printing Office, Washington, D.C., 1961, 1971.

Table 29. Population of Selected Cities by Age and Sex, Harney County, 1960 and 1970

	Burns			
Age Group	1960	1970		
Under 5	462	276		
5-14	743	593		
15-24	458	548		
25-34	472	405		
 35-44	440	348		
45-54	366	400		
55-64	275	340		
65 and over	307	383		
Total population	3,523	3,293		
Male	1,775	1,657		
Female	1,748	1,636		

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

Employment

The Oregon State Department of Employment reported in 1971 the annual average civilian labor force in Harney County was 3,340 persons or 46 percent of the total population. At that time the unemployment rate was 5.1 percent of the total labor force, or 170 unemployed.

The 1970 Census of Population shows that 2,776 people were employed in the county out of a total labor force of 3,130. About 23 percent were employed in manufacturing with 22 percent employed in lumber and wood products manufacturing. Other major employment sectors in the county were: agriculture and forestry, 18 percent; retail trade, 13 percent; educational services, 6.8 percent; and public administration, 4.4 percent.

Table 30. Employment Status, Harney County and Burns, 1960 and 1970

	Harne	y County	Bur	ns
Subject	1960	1970 <u>1</u> /	1960	<u>1970</u> 1
Total males, 14 years and over	2,501	2,591	1,651	1,190
Total labor force	2,101	2,126	1,386	945
Armed forces	149	118		31
Civilian labor force	1,952	2,008	1,386	914
Employed	1,855	1,861	1,323	845
Unemployed	97	147	63	69
Not in labor force	400	463	265	245
Inmate of institution	1997 - <mark></mark> 19	4	NA*	NA
Enrolled in school	204	120	NA	NA
Other	169	341	NA	NA
Total females, 14 years and over	2,137	2,362	1,672	1,155
Total labor force	793	1,004	623	548
Employed	754	915	585	487
Unemployed	39	86	38	58
Not in labor force	1,344	1,358	1,049	607
Inmate of institution		52	NA	NA
Enrolled in school	107	123	NA	NA
Other	1,237	1,183	NA	NA
Married (husbands present) in				
labor force	496	747	NA	NA

*NA - not available.

1/ 16 years and over.

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

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	Number En	nployed
Industry	1960	1970
Agriculture	525	563
Forestry and fisheries	50	101
Mining	23	6
Construction	92	88
Manufacturing	711	724
Lumber and wood products	633	684
Food and kindred products	24	
Other	54	40
Transportation	42	63
Communications	27	44
Wholesale trade	41	32
Retail trade	344	404
Business services	109	109
Personal services	143	129
Hospitals and health services	66	131
Educational services	157	213
Professional and related services	28	68
Public administration	125	139
Utilities and sanitary services	30	48
SOURCE: U.S. Bureau of the Census, Census o	f Population: 1960	and 1970
General Social and Economic Charact		
C39, Oregon, U.S. Government Printi	ng Office. Washingto	D.C.

Industry Group of Employed, Harney County, 1960 and 1970 Table 31.

C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1962, 1972.

Age Group	Male	Female
Years		
14-15	14.7	16.5
16-17	29.3	23.0
18-19	79.1	26.3
20-21	92.4	51.0
22-24	100.0	30.4
25-34	96.2	49.5
35-44	93.8	47.7
45-64	90.0	54.7
65 and over	41.9	12.6

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

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.

en de la companya de	Number Employed			
Occupation	Male	Female	l Tota	
	1 0(1	015	0 77/	
Total employed, 16 years and over	1,861	915	2,776	
Professional, technical, and			~ ~ ~ ~	
kindred workers	179	164	34:	
Engineers	NA*	NA	1!	
Physicians and related				
practitioners	NA	NA	· · · · · · · · · · · · · · · · · · ·	
Other health workers	NA	NA	58	
Teachers	51	7,9	130	
Technicians, except health	14	5	19	
Other professional workers	83	33	110	
Managers and administrators	196	39	235	
Sales workers	49	76	125	
Clerical and kindred workers	53	229	282	
Craftsmen and kindred workers	376	25	40	
Operative except transport	292	20	312	
Transport	90		9(
Laborers except farm	174	16	190	
Farmers and farm managers	200	40	240	
Farm laborers	190	16	200	
Service workers	62	258	320	
Cleaning service	25	31	50	
Food service	4	146	150	
Health service	0	39	39	
Personal service	5	20	2	
Protective service	24	-0	2	
Private household	24	32	3	
	Ŭ	J2		

Table 33. Harney County Occupations, 1970

SOURCE: U.S. Bureau of the Census, Census of Population: <u>1970 General</u> <u>Social and Economic Characteristics</u>, Final Report PC(1) - C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972. Table 34. Number of Hired Seasonal Workers in Agriculture by Type of Worker, Harney County, 1965 and 1971, Midmonth Figures

Month	Loc	Local		state tory	Interstate Migratory	
	1965	1971	1965	1971	1965 1971	
May June July August September October		BY THE	STATISTICS A STATE EMPLO OR HARNEY CO	OYMENT DIV	VISION	
SOURCE: Oregon St 1966.	ate Departm	ent of Emp	oloyment, <u>19</u>	965 Oregor	n Farm Labor Report	

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

Table 35. Annual Average Labor Force in Harney County, 1968-1971

	N	umber of	Person	IS
Industry	1968	1969	1970	1971
Civilian labor force	3,310	3,190	3,240	3,340
Workers in labor management disputes	0	0	0	0,1
Unemployment	110	120	170	170
Percent of labor force	3.3	3.8	5.2	5.1
Employment	3,200	3,070	3,070	3,170
Agricultural	620	610	590	600
Nonagricultural	2,580	2,460	2,480	2,570
Self-employed, unpaid family and				
domestics	350	300	330	340
Wage and salary workers	2,230	2,130	2,150	2,230
Manufacturing	660	65!)	700	760
Lumber and wood products	650	640	700	750
Other	10	10	0	10
Nonmanufacturing	1,570	1,480	1,450	1,470
Contract construction	80	60	50	60
Transportation, communication,				
utilities	130	160	100	90
Wholesale and retail trade	400	400	390	380
Finance, insurance, and real estate	80	70	60	60
Service and miscellaneous	290	230	230	230
Government	590	620	620	650

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.

Occupation Group	1959	1969
Male, total with earnings	¢4 594	è7 167
Professional, managerial, and kindred	\$4,524	\$7,167
workers	6,527	8,648
Farmers and farm managers		5,289
Craftsmen, foremen, and kindred workers	5,446	8,117
Cperatives and kindred workers	4,246	7,175
Farm laborers	2,330	3,487
Laborers, excluding farm and mine	4,378	6,075
Female, total with earnings	\$1,607	\$2,867
Clerical and kindred workers		3,667
Operatives and kindred workers		

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

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

Table 37. Covered Payrolls and Employment by Industry, Harney County, 1970 and 1971

化乙酸酸盐 建苯基乙基 化过分增强 化分子子 化加速分子分子 化乙烯基乙烯乙烯	Average E	mployment	Annual Payroll
Industry	1970	1971	1971
Agriculture, forestry, and fisheries	0	0	\$ 0
Mining	0	1/	1/
Contract construction	54	47	403,510
Lumber and wood products manufacturing.	618	788	7,731,465
Food and kindred products manufacturing.	0	0	0
Other manufacturing	1/	1/	1/
Transportation, communication, electric,			
gas, and sanitary services	260	76	592,359
Wholesale and retail trade	383	395	1,726,743
Finance, insurance and real estate	59	54	305,872
Services and miscellaneous	193	187	508,012
Government	218	214	2,101,134
Yearly total	1,695	1,766	\$13,400,814

1/ unpublished county.

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.

County	1	Number of People		Percent of Labor Force	
	1968	1971	1968	1971	
HARNEY	110	170	3.3	5.1	
Crook	210	370	4.6	7.6	
Deschutes	620	890	5.4	6.3	
Grant	150	170	4.8	5.6	
Lake	210	210	7.0	7.0	
Malheur 1/	920	1,160	5.1	6.2	

Table 38. Number and Percent of Persons Unemployed in Harney and Bordering Counties, 1968 and 1971

1/ Includes Payette and Washington counties in Idaho.

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

Table 39. Major Occupation Group of Unemployed, Harney County, 1960 & 1970

Occupation Group	Number of Pe 1960	ersons 1970
Professional, technical, and kindred workers. Farmers and farm managers		38 <u>1</u> / NA*
Managers, officials and proprietors, except farm Clerical and kindred workers Sales workers	$\frac{-}{16}$	NA 24 12
Craftsmen, foremen, and kindred workers Service workers, including private household	14	47 50
Farm laborers Laborers, excluding farm and mine	8 35	10 10

 *NA - not available.
 1/ Includes managerial workers.
 SOURCE: U.S. Bureau of the Census, Census of Population: 1960 and 1970 <u>General Social and Economic Characteristics</u>, Final Report PC(1) - C39, Oregon, U.S. Government Printing Office, Washington, D.C., 1962, 1972.

Σtem	Employees and Earnings
Employees	394
$\mathbf{F}_{\mathbf{y}} = \mathbf{y} = \mathbf{y} = \mathbf{y}$	285
Full-time only	ζο)
	304
Full-time equivalent employment	
Education	155
Teachers only	116
Functions other than education	149
Highways	37
Public welfare	이는 것이 같은 것이 같은 것이라. 한 모두 가지 않는 것이 같이 가지 같은 것이 같은 것이 같은 것이 있는 것이 같이 있는 것이 같이
Hospitals	69
Health	
Police protection	8
Fire protection	물건이 가슴 봐야 봐요? 그는 것이 아니는 것이 같이 나는 것이 하는 것이 하는 것이 하는 것이 같이 했다.
Sewerage	4
Sanitation other than sewerage	
Parks and recreation	$(\mathbf{r}_{\mathbf{i}})_{\mathbf{i}} \in [\mathbf{r}_{\mathbf{i}}] \in [\mathbf{r}_{\mathbf{i}}]$. The set of the set
Natural resources	
Housing and urban renewal	영상 전 전 영화 이 영 <u>수</u> 이 것을 하는 것
Correction	$1 \leq 1 \leq 1 \leq 1 \leq 2 \leq 2 \leq 2 \leq 2 \leq 2 \leq 2 \leq $
Libraries	승규는 승규는 가슴을 흘러 가지 않는다.
	10
Financial administration	이 있는 것 같은 것 같은 것 같은 것 <u>~</u> 가지 않는 것 같은 것 같이 있다.
General control	7
Water supply	2011년 - 1911년 - 19 1 일 - 1912년 - 1913년
Other local utilities	이 물건을 하는 것을 수밖에 있는 것이다.
Other and unallocable	8
ctober payroll	\$148,000
Education	84,000
Teachers only	65,000
Functions other than education	63,000
Functions other than education	03,000
Average monthly earnings, full-time	
employment	
Teachers	\$558
0thers	427
SOURCE: U.S. Bureau of the Census. Census	of Governments 1967 Vol 3

Table 40. Local Government Employees and Payroll, Harney County, October 1967

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

Income

				and the second
	Net Dollars		Per Household	
Area	1967	1970	1967	1 1970
	thousand	dollars	doll	ars
Oregon Harney County	\$5,224,888 14,472	\$6,650,690 18,781	\$8,113 6,891	\$9,440 7,825

Table 41. Net Effective Buying Income Estimates, Baker County, 1967 and 1970 1/

1/ Net effective buying income is personal income--wages, salary, interest, dividends, profits, and property income minus federal, state, and local taxes.

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

Table 42. Bank Debits and Deposits, Harney County, 1965-1970	Table 42.	Bank Debits	and Dep	osits, Harney	County,	1965-1970
--	-----------	-------------	---------	---------------	---------	-----------

Year	Bank Debits <u>1</u> / Bank Deposits
	thousand dollars
1965	NA* \$11,213
1966	" 13,213
1967	" 14,701
1968	" 15,625
1969	15,735
1970	" 16,650

*NA - not available.

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 crust accounts. Excluded are cebits to U.S. government, interbank, time and savings accounts, and several other categories of accounts.

SOURCE: Bureau of Business and Economic Research, <u>Oregon Economic Statistics</u> 1969 and 1972, University of Oregon, 1969, 1972.

Item	Number	Percent	
Moon Traces			
Mean Income Families:			
그는 것 같은 것 같	00 600	1/	
All races	\$9,680	<u>1</u> /	
	9,746		
Spanish Language	9,023		
Black	5,671		
0ther	9,230	and an an an and an and an	
Unrelated individuals:			
All races	3,993		
Caucasian	4,050		
Spanish Language	1,350		
Black	3,750		
0ther	1,000		
Families by Family Income Class			
All races:			
under \$3,999	207	11.47	
\$4,000-\$5,999	252	13.96	
\$6,000-\$11,999	859	47.59	
\$12,000+	487	26.98	
total	1,805	100.00	
Caucasian:			
under \$3,999	179	10.55	
\$4,000-\$5,999	235	13.85	
\$6,000-\$11,999	821	48.38	
\$12,000+	462	27.22	
total	1,697	100.00	
Spanish Language:	-,,,,,,,,,,,,,-		
under \$3,999	17	22.97	
\$4,000-\$5,999	 9	12.16	
\$6,000-\$11,999	29	39.19	
\$12,000+	19	25.68	
total	74	100.00	
Black:	/ 4	100.00	
under \$3,999	5	35.71	
\$4,000-\$5,999	5	35.72	
	4	25.57	
\$6,000-\$11,999		7.17	
\$12,000+		100.00	
total	14	100.00	
Other:		20.00	
under \$3,999	6	30.00	
\$4,000-\$5,999	3	15.00	
\$6,000-\$11,999	5	25.00	
\$12,000+	6	30.00	
total	20	100.00	

Table 43. Income and Poverty Data for Racial Groups, Harney County, 1970

Table 43,	cont.	Income	and	Poverty	Data	for	Racial	Groups
		Har	nev (County.	1970			

Item	Number	Percent	
Income below Poverty Level (bp1)			
Families bpl			
All races	98	100.00	
Caucasian	81	82.65	
Spanish Language	8	8.17	
Black			
Other	9	9.18	
Persons in families bp1	383		
Unrelated individuals bpl			
Under 65	156		
65 and over	117		
Male family head, 14-64 yrs., bpl			
Employed	41		
Unemployed	5		
Not in labor force	5		
Female family heads bpl in labor			
force with children below 6 yrs			
Income source of families and			
unrelated individuals bpl	255	ander geheren in der einen einen sonen einen sonen einen einen sonen einen sonen einen sonen einen sonen einen Einen einen sonen einen sone	
Earnings	2 33		
Social security or railroad	100		
retirement	100		
Public assistance or welfare	41		

1/ Blank spaces indicate a zero, suppressed data, or not applicable.
SOURCE: Valde, Gary R. and Robert O. Coppedge, <u>Income and Poverty Data for</u>
<u>Racial Groups: A Compilation for Oregon Census County Divisions</u>,
Special Report 367, Oregon State University, Corvallis, Oregon, 1972.

Education

Table 44. Formal Education Facilities, Harney County, 1968-69 and 1971

School District, Type School,	Enrol	1ment 1/	High School Graduates 1971	
and Number of Each Type	1968-69	1971		
		_		
Burns School District #1				
Elementary - 3	552	494		
Junior high - 1	185	163		
Crane School District #4	나는 아이들 구간다.			
Elementary - 1	28	39		
Pine Creek School District #5				
Elementary - 1	6	8		
Diamond School District #7	, i i i i i i i i i i i i i i i i i i i	Č.		
Elementary - 1	19	18		
Suntex School District #10	17	10		
	9	11		
Elementary - 1	9	11		
Drewsey School District #13	1	10		
Elementary - 1	14	12		
Frenchglen School District #16				
Elementary - 1	26	30		
Lawen School District #18				
Elementary - 1	12	21		
Double 0 School District #29				
Elementary - 1	7	6		
Andrews School District #29				
Elementary - 1	8	8		
Hines School District #30				
Elementary - 1	411	432		
Sodhouse School District #32				
Elementary - 1	19	14		
Fields School District #33				
Elementary - 1	19	25		
Trout Creek School District #53				
Elementary - 1	3	7		
Crane Union High School District #701				
High school - 1	61	80	15	
Burns Union High School District #702	01	00	±J	
•	E 20	106	1.25	
High school - 1	520	496	125	
0				
County totals				
Elementary - 16	1,133	1,125	en e	
Junior high - 1	185	163		
High school - 2	581	576	140	
County grand total	1,898	1,864	140	

1/ Average daily membership. Enrollments may vary from year to year partially because student loads were shifted from one district to another. SOURCES: Oregon Board of Higher Education, 1969 School Directory, 1971-72 Oregon School-Community College Directory, and 1971 Oregon Public High School Graduates, School Finance and Statistical Services.

District	White	Black	American Indian	Spanish Surname	0 ther $\frac{1}{}$	Total
				f students		
			number o	I students		
Andrews	6	· · · - · ·	— 1	-		6
Burns	470	3	24	17	20 ¹⁸ : <mark>-</mark> 영화가	514
Burns UHS	. 471	_	7	1	15	494
Crane	40	-	-			40
Crane UHS	89	2	1		-	92
Diamond	16	-	-	_	-	16
Double 0	4	_		-	-	4
Drewsey	14	-	-	-	e de la companya de l	14
Fields	26	-	-		-	26
Frenchglen	21	· -			-	21
Hines	272	_	1	2	2	277
Lawen	16	-			이 같이 올 수 있는	16
Pine Creek	6	-	-	-	-	6
Sodhouse	19	_				19
Suntex	5		-	-	-	5
Trout Creek	5	.			=	5
Total	1,480	5	33	20	17	1,555

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

1/ Includes Japanese, Chinese, Filipino, and others. SOURCE: Compiled from Oregon Board of Education reports by Oregon State University Extension Service.

Table 46. Years of School Completed by Population 25 Years and Over, Harney County, 1970

Education	Number Males	Number Females	Total	Percent
	- -			100.0
Total, 25 years and over	2,127	1,934	4,061	100.0
No school years completed	17		17	0.4
Elementary: 1-4 years	18	17	35	0.9
5-7 years	185	137	322	7.9
8 years	367	278	645	15.9
High school: 1-3 years	420	398	818	20.1
4 years	690	692	1,382	34.0
College: 1-3 years	200	306	506	12.5
4 yrs. or more.	230	106	336	8.3
Median school years completed.	12.1	12.2	NA*	

*NA - not available.

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

Institution	Number Enrolled
Total enrolled	129
Eastern Oregon College	129
Oregon College of Education	1 3
Oregon State University	15 15
Portland State University	0
Southern Oregon College	18
University of Oregon	21
Oregon Technical Institute	7
University of Oregon Dental School	0
University of Oregon Medical School	2
Total in private and independent	
institutions	12
Total in public community	
institutions	38

Table 47. Harney County Residents Enrolled in Higher Education Institutions, Fall 1971

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

Table 48. Youth Organizations, Harney County

Organization	Membership
Pour Socuto	NA*
Boy Scouts	NA"
Camp Fire Girls	() where 1 , 1 , 1 , 1 , 1 , 1 , 1
4–H	409
Future Farmers	1/
Girl Scouts	$17\overline{1}$
YMCA	
YWCA	$\overline{1}$

*NA - not available. 1/ No chapter in county.

SOURCE: 1972 FFA figures - State Department of Education; 1972 4-H figures -State Extension Office, 4-H Division, unpublished data; October 1972 Girl Scout figures - Boise, Idaho office, unpublished data. Although Harney 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 49. Felonies and Juvenile Delinquency, Harney County, 1968

Subject	Number
Commitments to felony and correctional institutions, 1967-68	
Total commitments Oregon State Penitentiary Oregon State Correctional Institution MacLaren (boys' training school) <u>1</u> / Hillcrest (girls' training school) <u>1</u> /	8 4 3 1 0
Juvenile court cases, 1968 All cases Delinquency Traffic Other	255 207 10 38

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

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

Health and Vital Statistics

The following tables indicate the number of health facilities and health personnel available to Harney County residents. In general, there are fewer health personnel per capita in Harney County than for the state as a whole.

Table 50. Diagnostic or Treatment Center Facilities, Harney County, 1970

	Outpatient Visits	1/
Name and Location	During Year	Services ¹
Harney County Hospital, Burns	NA*	A, H, I

*NA - not available.

1/ Service code, 1964 data: 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.

	Number of Faci		ber of	
Category and Community	Existing N	leeded Exis	ting I	Needed
General hospitals				
Burns	1	1 4	8	45
ong-torm apro forilition				
ong-term care facilities Burns	1	1 4	9	60
	an an an a n an		,	00
Diagnostic and treatment centers				
Burns	1	- 1	-	
Tuberculosis hospitals: none. Rehabilitation facilities: no service in area hospitals. SOURCE: Oregon State Board of Hea <u>zation of Hospitals, Publ</u> Annual Revision, Health F Table 52. Percent Occupanc Harney	facilities are lth, <u>Oregon Pla</u> <u>ic Health Cente</u> acility Plannir	in for Constru rs and Medica g and Constru	ction a <u>1 Faci</u> ction S	and Mode Lities,
		Total		cent of
Name of Facility	Location	Capacity	0cci	ipancy
<u>General Hospitals</u> Harney County Hospital	Burns	48		52

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

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

Burns

49

93

Long-term Care Facilities 1/

Burns Nursing Home.....

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

In 1969, Harney County allocated a total of \$52,172 to its county health department or \$7.17 per capita. This compares with \$5.70 spent per capita on the average by all counties in the state. 1/

1/ Oregon State Executive Department, Program Planning Division, District Facts, 1970. Table 53. Number of Licensed Medical Personnel and Ratio of Population Per Professional, Harney County, 1969

	Harney	Harney County		
Profession	Number	Ratio <u>1</u> /	Ratio <u>1</u> /	
Medical doctors and doctors of osteopathy.	6	1,213	770	
Dentists	4	1,819	1,412	
Registered nurses	28	260	276	
Licensed practical nurses	4	1,819	1,002	
Pharmacists	3	2,425	1,375	

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

Table 54. Number of Admissions to State Psychiatric Hospitals and Mental Health Clinics and Ratio per 100,000 Population, Harney County, 1969

	Harney Cour	nty State
Facility	Number	Ratio Ratio
Psychiatric hospitals	7	96 134
Mental health clinics	59	811 460

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

From 1968 to 1971, both Harney County's death rate and its birth rate fell. The county's birth rate in 1971 of 15.4 per 1,000 population was slightly below the overall state rate and the county's death rate of 9.7 was above the state's. Although the county's accidental death rate fell from 1961 to 1971, it remained above the state rate.

Table 55. Births and Deaths by Major Category, Harney County and State of Oregon, 1968 and 1971

			<u></u>		and the second	
	Harney County				State	
Category	Number		Rate		Rate	
	1968	1971	1968	1971	1971	
All births 1/	125	111	16.6	15.4	15.6	
All deaths 1/	55	70	7.3	9.7	9.4	
[llegitimate births 2/	4	6	32.0	54.1	78.1	
Premature births 2/	7	5	56.0	45.0	57.4	
Infant deaths 2/	3	4	24.0	36.0	18.4	
Accidental deaths 3/	7	6	93.1	83.1	61.3	
1/ Rates per 1,000 population. 3/ Rate per 100,000 population	•				ve births.	
SOURCES: Oregon State Departme				-		

Division, Vital Statistics Section, <u>1968 Statistical Report</u>, 1969; and Vital Statistics Annual Report, 1971.

	Harney County		State	
Item	Number	Rate1/	Rate <u>1</u> /	
Morbidity				
Tuberculosis	1	13.9	11.6	
Syphilis			5.3	
Gonorrhea	7	97.0	422.0	
Influenza	155	2,146.8	1,171.7	
Hepatitis (infectious)		<u> </u>	39.4	
Measles (Rubella)			18.1	
Deaths from all causes	70	9.7 <u>3</u> /	9.4	
Malignant neoplasms (cancer)	12	166.2	168.4	
Diabetes mellitus			13.3	
Heart diseases	23	318.6	349.6	
Cerebrovascular diseases	7	97.0	110.9	
Arteriosclerosis	1	13.9	21.2	
Other cardiovascular diseases	2	27.7	17.3	
Influenza and pneumonia	2	27.7	26.4	
Bronchitis, emphysema, asthma			26.9	
Peptic ulcer	2	27.7	4.3	
Cirrhosis of liver	1	13.9	15.8	
Congenital anomalies			8.2	
Certain infancy mortality causes	3	41.6	14.7	
All other diseases	7	97.0	76.9	
Accidents	6	83.1	61.3	
Suicide	4	55.4	14.9	
Homicides		 _	3.8	
		a na sana sa		

Table 56. Health Statistics, Harney County, 1971

Rate per 100,000 population.

 $\frac{1}{2}$ 1966-68 average, taken from Office of the Governor, Planning Division, Health Facts, 1969.

3/ Rate per 1,000 population.

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

Public Welfare

Category	Number of Cases	Average Payments
Cases receiving non-medical payments		
Old Age Assistance	16	\$ 62.69
Aid to the Blind.	1	120.00
Aid to the Disabled	15	84.73
Aid to Dependent Children	132 1/	44.52
General Assistance		34.69
Foster Care	NA*	J4.09 NA
ruster vare	NA	NA
Physicians services 1/		
0AA	2	\$ 16.50
AB		φ 10. 50
AD	Ŭ Å	24.94
ADC	27	22.64
GA	3	11.83
FC	, , , , , , , , , , , , , , , , , , ,	±1.00
Hospital payments 1/		
0AA	4	\$ 63.75
AB	0	
AD	1	78.20
ADC	Ō	,0.20
GA	ĭ	39.01
FC	2	318.31
		510.51
Drug payments 1/		
OAA	24	\$ 14.96
AB	0	Y 17.JU
AD	9	23.86
ADC	23	4.91
GA	1	4.25
FC	2	5.56
<u>.</u> • • • • • • • • • • • • • • • • • • •	4	5.50

Table 57. Public Welfare Payments for Assistance, Harney County, August 1972

*NA - not available.

1/ Persons, not cases.

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

	Average Payment	Per Case
Type of Service	1968-69	1971-72
Old Age Assistance	\$ 48.24	\$ 58.13
Aid to the Disabled	66.76	132.00
Aid to the Blind	141.33	97.77
General Assistance	49.56	40.98
Aid to Dependent Children 1/		
UN <u>2</u> /	the second s	41.30
Basic 2/	40.94	42.97

Table 58. Average Monthly Public Welfare Payments by Type of Service, Harney County, Fiscal Years 1968-69 and 1971-72

1/ Payment per person, not case.

2/ The UN figure represents payments to families where the male parent is in the home but unemployed. The basic figure represents all others. SOURCE: Unpublished data received from Sondra Lipman, Oregon Public Welfare Division, Research and Statistics Section, May 1973.

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

Housing

Table 59. Housing Occupancy and Facilities for Places with Over 2,500 Inhabitants, Harney County, 1970

- 2011년 1월 1일 - 2월 1일 - 2월 1일 - 2월 1일 - 2월 1일 - 1월 1일 - 2월 1일 - 2월 1일 - 2월 1일	E	urns
Subject	Number	Percent
Occupancy		
All year-round housing units	1,295	100.0
Owner occupied	693	53.5
Renter occupied	446	34.4
Vacant year-round	156	12.0
Facilities		
Telephone available	900	69.5
Air conditioning	174	13.4
Median gross rent of renter occupied $1/$.	\$86	

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

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

	Harney Cou	nty	State
Subject	Number Units	Percent	Percent
Occupancy			
All housing units	2,616	100.0	100.0
Vacant - seasonal or migratory	31	1.2	1.3
Owner occupied	1,494	57.1	61.3
Renter occupied	819	31.3	31.5
Vacant year-round	303	11.6	5.9
Population in housing units per unit			
Owner occupied	2.9		
Renter occupied	2.3		
Persons per room			
All occupied units	2,313	100.0	100.0
1.00 or less	2,101	90.8	94.7
1.01 to 1.50	184	7.9	4.2
1.51 or more	28	1.2	1.1
Facilities			
Lacking some or all plumbing			
facilities	118	4.5	3.6
Telephone available	1,888	72.3	89.5
Air conditioning	418	16.0	10.3
AII CONDICIONING	710	10.0	
	-number -	-	- number
Mean number of rooms	4.9		5.0
Median value 1/	\$11,400		\$11,300
Median gross rent <u>2</u> /	\$88		\$107
1/ Specified owner occupied. Limited to	one-family homes	on less	than 10

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

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: <u>1970 Detailed Housing</u> <u>Characteristics</u>, Final Report, HC(1) - B39, Oregon, U.S. Government Printing Office, Washington, D.C., 1972.

THE COUNTY'S ECONOMY

Agriculture, particularly livestock raising, and lumbering are the major industries in Harney County's economy. Recreation and tourism also contribute to the county's economy.

There are few manufacturing firms in the county. A low population density and substantial distances to markets are negative factors concerning growth of manufacturing.

The major employer in the county is the lumber industry.

Agriculture

In 1970, agriculture contributed nearly \$10 million in sales to Harney County's economy. Much of the county's land area is used to support livestock production, either through grazing or growing forage crops. Livestock sales in 1970 alone totaled over \$8,800,000. Crops grown in the county include: alfalfa hay, cereal grain, pasture, and grass seeds.

Subject	1959	1964	1969
		-	
Approximate acres of land area	6,483,840	6,506,250	6,506,048
Proportion in farms	23.7%	21.7%	21.7%
Total number of farms	292	279	276
Acres in farms	1,535,096	1,416,750	1,413,126
Average size of farms	5,257.2	5,077.8	5,120.0
Value of land and buildings		en al serie de la composition de la co Composition de la composition de la comp	
Average per farm	\$115,049	\$179,525	\$202,645
Average per acre	\$18.95	\$35.36	\$39.57

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

SOURCE: U.S. Bureau of the Census, <u>Census of Agriculture</u>, <u>1969</u>, Vol. 1, <u>Area Reports</u>, Part 47, <u>Oregon</u>, U.S. Government Printing Office, Washington, D.C., <u>1972</u>. As the following table illustrates, most farms in Harney County are quite large. Nearly half of the county's farms in 1969 were over 2,000 acres. Over 82 percent were over 260 acres in size.

		Number	n Asta		Percent	en e
Size	1959	1964	1969	1959	1964	1969
Less than 10 acres	2	7	13	0.7	2.5	4.7
10 to 49 acres	16	24	13	5.5	8.7	4.7
50 to 69 acres	1		1	0.3		0.4
70 to 99 acres		1	4		0.4	1.4
100 to 139 acres	4	4		1.4	1.4	1.4
140 to 179 acres	1	5	6	0.3	1.8	2.2
180 to 219 acres	2	2	5	0.7	0.7	1.8
220 to 259 acres	3	3	. 3	1.0	1.1	1.1
260 to 499 acres	16	25	23	5.5	9.0	8.3
500 to 999 acres	45	32	33	15.4	11.5	11.9
1,000 to 1,999 acres	47	46	37	16.1	16.5	13.4
2,000 acres or more	155	130	134	53.1	46.6	48.5
Total farms	292	279	276	100.0	100.0	100.0
	. ·					

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

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

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

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

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		Number			Percent	
Economic Class	1959	1964	1969	1959	1964	1969
Commercial farms	225	222	243	84.9	79.6	88.0
Class I (sales of \$40,000						
or more)	40	26	58	15.1	9.3	21.0
Class II (sales of \$20,000						
to \$39,999)	52	54	53	19.6	19.3	19.2
Class III (sales of \$10,000						
to \$19,999)	56	50	43	21.1	17.9	15.6
Class IV (sales of \$5,000						
to \$9,999)	38	48	49	14.3	17.2	17.7
Class V (sales of \$2,500	1					
to \$4,999)	36	29	32	13.6	10.4	11.6
Class VI (sales of \$50						
to \$2,499)	3	15	8	1.1	5.4	2.9
Other farms	40	57	33	15.1	20.4	12.0
Part-time	17	40	25	6.4	14.3	9.1
Part-retirement	21	15	5	7.9	5.4	
Abnormal	2	2	3	0.6	0.7	1.1
Total farms	265	279	276	100.0	100.0	100.0

Table 63. Farms by Economic Class, Harney County, 1959, 1964, and 1969

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

Table 64. Farm Operators by Age and Years of School Completed, Harney County, 1959, 1964, and 1969

	All and the second s	
1959	1964	1969
52.5	52.1	51.8
47	• 44	48
NA*	10	NA
	5	П
u	76	tt i sta
	42	1 H
п	92	н
T	30	Ħ
- 1	24	11
	52.5 47	52.5 52.1 47 . 44 NA* 10 " 5 " 76 " 42 " 92 " 30

*NA - not available.

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

	Table 65.	Farm Operators	by	Tenure,	Harney	County,	1959.	1964,	and 1969
--	-----------	----------------	----	---------	--------	---------	-------	-------	----------

Tenure	1959	1964	1969
Full owners	119 143	141	141 104
Part owners Managers Tenants	143 4 26	97 9 32	104 31
Total operators	292	279	276

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

Income from the sale of crops and livestock in Harney County during 1970 was over \$9,600,000. The sale of livestock accounted for almost 92 percent of the agricultural income. Other significant products were: hay, 4 percent; small grains, 2.1 percent; sheep and lambs, 1.7 percent; and seed crops, 1.2 percent.

Table 66. Value of Farm Products Sold, $\frac{1}{}$ Harney County, 1966-1970

Product	1966	1967	1968	1969	1970 <u>2</u>
		thous	sand dol	lars ·	
All arong livesteck and livesteck					
All crops, livestock and livestock products	7,325	8,444	8,801	10,058	9,607
A11 crops	401	512	550	991	802
All grain, hay and seeds	393	489	392	774	710
All seed crops	1	44	62	76	119
All grain and hay	392	445	330	698	591
All hay	219	309	294	393	385
All grains	173	136	36	305	206
Wheat	28	22	5	28	23
Barley	117	86	18	234	143
Vegetables, fresh and for					
processing					
All berries	<u> </u>				
All tree fruits and nuts			— <u>—</u>		<u> </u>
Specialty field crops					
Specialty horticultural crops	4	10	14	14	10
Potatoes	3	6	141	198	77
All l ivestoc k and livestock					
products	6,924	7,932	8,251	9,067	8,805
Dairy products	10	12	10	10	10
Poultry products	15	9	9	9	9
Cattle and calves	6,599	7,618	7,966	8,779	8,538
Sheep and lambs	200	207	170	177	165
Hogs	15	12	11	11	8

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

	the second s	
Crops Harvested	1969	1970 <u>1</u> /
Corn for grain Small grains		
Wheat	900	800
0ats	500	1,000
Barley	10,000	8,500
Hay crops	116,000	109,500
Field seed crops	2/	<u>2/</u>
Other field crops	$\overline{2}/$	$\frac{\overline{2}}{2}$
Vegetables	$\overline{2}/$	$\overline{2}/$
Berries	$\overline{2}/$	$\overline{\underline{2}}/$
Tree fruits, nuts, and grapes $3/$		NA*

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

*NA - not available. 1/ preliminary.

 $\frac{2}{1}$ Not reported; either no or little acreage.

 $\overline{3}$ / From U.S. Census of Agriculture, 1969.

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

Total cattle numbers in Harney County increased from 1950 to 1960 and remained fairly constant from 1960 to 1970. Numbers of other livestock generally declined during these periods.

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

				and the second
Category $\underline{1}/$	1950	1960	196 9	1970 <u>2</u> /
All cattle	81,000	96,000	98,000	97,000
Dairy cattle	900	600	300	300
Sheep and lambs	21,000 1,100	21,500 500	12,000 200	9,000 NA*
Chickens	NA	NA	4,000	4,000
Turkeys raised	NA	NA	100	

*NA - not available.

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

2/ preliminary.

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

		the second s		
	Number o	f Firms	Employn	nent
Product Group	1968	I 1970	1968	1970
			land I have a	5 - 1 - 1 - 1 -
Meat products	0	0		
Dairy products	0	0		
Canned fruits, vegetables, and				
seafood	0	0		
Grain mill products	0	0		
Bakery products	0	0		
Beverages	1	0	NA*	
Miscellaneous food preparations	0	0		
Total	1	•	ЪТΆ	
10La1		U	NA	

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

*NA - not available.

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

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

Logging and Wood Products

Logging and wood products manufacturing are major segments of Harney County's economy, both in terms of employment and in value added by production.

Table 70.	Lumber	and Wood	Products	Manufacturing	Excluding	Furniture,
		Harney	y County,	1968 and 1970	n ^a r tin tin Ti	

			Number	of	Firms	Emplo	yment
Produc	ct Group		1968		1970	1968	1970
Sawmills and plan Millwork plants. Veneer and plywoo Wood products not	d contractors ning mills od plants t elsewhere	•	1 0 1 0		4 0 1 0	4 925 	26 925
Total	• • • • • • • • • • • • • • • •	•	2		5	929	951
Director	State Department o ry of Oregon Manuf State Executive De	actur	ers - 19	68.			

Directory of Oregon Manufacturers - 1970.

Between 1960 and 1970, timber harvested in Harney County varied from about 28,000,000 board feet in 1963 to over 78,000,000 board feet in 1965. The average harvest for the 1960-1970, eleven year period, was approximately 58,000,000 board feet.

Ownership	Production ^{2/}	Percent of Total
Total timber harvest	60,200	100.0
Private 3/	3,682	6.1
Bureau of Land Management 4/	131	0.2
National forest 5/	56,387	93.7
State <u>3</u> /		

Timber Harvest by Ownership, Harney County, $1970^{1/2}$ Table 71.

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

Scribner log rule - thousand board feet.

<u>2/</u> 3/ Compiled by State Forestor.

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 Harney and Morrow Counties (data reported together to avoid disclosure) used 56,362,000 board feet of Harney County's log production. While no logs were exported from Harney County, Morrow and Harney Counties together imported 83,083,000 board feet for processing.

Table 72. Log	Consumption in Thousand	Board Feet	by	Species	and In	dustry,
	Harney County	v. 1968 1/				

	Тур	e of Industry	
Species	Sawmills ^{2/}	Veneer and Plywood <u>3</u> /	Shake and Shingle
All species	118,227	156,160	4/
Douglas fir	11,758	91,541	
True firs	2,629	46,851	
Ponderosa and Jeffrey pines	103,840	5,870	
Other softwoods		11,898	
Hardwoods			

Scribner log rule. 1/

2/ Combined with Morrow County to avoid disclosure.

3/ Combined with Baker, Grant, and Union Counties to avoid disclosure. 4/ None reported.

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

Table 73. Installed 8-Hour Capacity of Wood-Using Industries, Harney County, 1968

Industry	Capacity
Sawmill - lumber 1/ Veneer and plywood 2/ Pulp and board mills 3/	190,000 105,000 <u>4</u> /
<pre>1/ Scribner log rule, board feet. 2/ square feet, 3/8 inch basis. 3/ 24 hour capacity in tons. 4/ None reported.</pre>	
	pate, and Donald R. Gedney, <u>Oregon</u> onsumption and <u>Mill Characteristics</u> , stry jointly with U.S. Forest Service,

Over 123,649 tons of wood residue were produced by Harney and Morrow County sawmills in 1968 (data reported together to avoid disclosure). Over 120,000 tons of the residue were consumed for such uses as pulp, particle board, or fuel.

Manufacturing

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

Item	V alu e Added	Percent of Total
All manufacturing		
Food and kindred products	에 가장 왕 부 에 가장 한다. 1997년 - 1993년 - 1997년 -	
Lumber and wood products		

1/ Amount not reported to avoid disclosure. SOURCE: U.S. Bureau of the Census, Census of Manufacturers, 1967, <u>Area</u> <u>Services</u>, 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, Harney County, 1968 and 1970

	Number o	of Firms	Employ	yment
Product Group	1968	1970	1968	1970
Ordnance and accessories	0	0		
Textile mill products	0	0		
Apparel and other finished fabric				
products	0	0		
Printing, publishing, and allied				
industries				
Newspapers, publishing, and printing	1	1	7	7
Furniture and fixtures	0	0		
Chemicals and allied products	0	0		
Rubber and miscellaneous plastics	0	0		· -
Miscellaneous machinery, except				
electrical	1	0	NA*	
Electrical machinery	0	0		
Transportation equipment	0	0		
Miscellaneous manufacturing industries	0	0		
	a start a ser en ser e	an a		
Total	2	1	7	7
	-			

*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 Harney County is derived from sand, gravel, and stone, and varies from year to year depending on the current construction activities within the county.

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

Year	Value 1	Minerals Produced in Order of Value
1963 1965	\$284,000 261,000	Stone, sand and gravel Stone, sand and gravel
1970	<u>1</u> /	Sand and gravel, stone

1/ Withheld to avoid disclosure.

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

	Number of Firms	Employment
Product Group	1968 1970	1968 1 9 70
Petroleum refining and related		
industries	0 0	and a state of the
Stone, clay and glass products	1 0	ата "
Ready-mixed concrete		NA*
Primary metal industries Fabricated metal products	0 0	
Total	1 0	NA

Table 77. Mineral, Metal and Related Manufacturing, Harney County, 1968 and 1970

*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.

<u>Outdoor Recreation $\frac{1}{}$ </u>

Malheur National Wildlife Refuge is located in Harney County. The 181,000 acre refuge attracts thousands of visitors to observe and photograph some of the 234 known species of birdlife which inhabit the refuge.

There are several undeveloped ski areas in the northern portion of the basin.

Thousands of rock hounds visit the county annually. There are also Indian relics and writings on rocks and cliffs.

Hunting is a major outdoor activity in Harney County. Each year thousands of hunters hunt deer, elk, pheasant, ducks, geese, and other wildlife in the county. In 1971, nearly 12,000 hunters participated in the deer season in the Harney County area.

Sport fishing is also popular in a few county streams and lakes.

The undeveloped nature of large areas of the county is attractive to many people from urban areas who are seeking a change of environment. Recreation use statistics for the county have shown an increase in participation in outdoor recreation in recent years.

1/ Oregon State Water Resources Board, Malheur Lake Drainage Basin, 1971.

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Ownership and Name	Facilities and Activities $\frac{1}{}$
J.S. National Forest	나는 것 같은 것 같은 것은 것이 같아요. 나는 것
Delintment Lake	C, P, B, F, H, S
Idlewild	C, Tc, P, H, Hi
Joaquin Miller	C, Tc, P, H, Hi
Rock Spring	C, P, H, Hi
Yellowjacket	Tc, B, F, H, Hi
ureau of Land Management	
Page Springs	NA*
Chickahominy	$\mathcal{M}_{\mathcal{M}}$, the proof $\hat{\mathbf{NA}}$, are any constrained by the second secon
regon State Game Commission	
Fish Lake	P, F, S
larney County	
Theimer	NA
NA - not available.	
/ B - boating H - hu	v
C - camping Hi - hi	•
-	cnicking camping
OURCES: U.S. Forest Service, Pacific	
	-Washington, U.S. Government Printing
Of fice, 1971.	
	ransportation, Oregon State Highway
	creation Section, "State Park Acreages
1972.	ter en

Table 78. Harney County Park and Recreation Facilities, 1968

There are no state parks located in Harney County, so no attendance figures are available.

	Hu	inters	Н	arvest	
Game		Percent of		Percent of	Days
	Number	State Total	Number	State Total	Hunted
Pheasant	397	0.55	1,558	0.64	1,395
Quai1	332	1.27	3,061	1.93	1,725
Chukar partridge	478	2,89	1,313	1.14	1,324
Hungarian partridge.	26	0.50	126	0.79	75
Ducks	940	1.68	5,290	0.92	4,500
Geese	880	3.13	2,090	3.28	4,120
Deer 1/	11,930	4.27	4,210	4.79	NA*
Elk <u>1</u> 7	970	1.30	120	1.16	6,700

Table 79. Harney County Game Harvest

*NA - not available.

1/ Figures for Juniper, Steens Mountain, Silvies, and Malheur River State Game Commission management units, which are not completely within Harney County's borders and do not completely cover the county.

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

Business

Product Group	Number Establish- ments	Number Faid <u>1/</u> Employees	Sales (\$1,000)
Retail trade, total	89	377	\$12,285
umber, building materials, hard-			
ware, farm equipment dealers $2/$	8	NA*	792
eneral merchandise group stores	6	11 11	677
ood stores	9	1997 - 11 99	3,427
utomotive dealers	8	11	2,913
asoline service stations	11	11	1,635
pparel, accessory stores urniture, home furnishing,	6		401
equipment stores	2	e ser H arala	3/
ating, drinking places	21	H	<u>3/</u> 943
rug, proprietary stores	1	11 - English - E	3/
ther retail stores	12	11	<u>3/</u> 1,504
onstore retailers	5	na en el 1870 - 11 70 - 1970 Sente de la constante de la cons Sente de la constante de la cons	<u>3</u> /
Wholesale trade, total	12	n -	<u>3</u> /
erchant wholesalers <u>4</u> /	3/	ti di second	3/
ther operating types	$\frac{3}{7}$	n in state of the	3/ 2,420
NA - not available.			
<pre>/ Excludes active proprietors of uni / Data reported for specific kinds of or more retail establishments. / Withheld to avoid disclosure.</pre>			es with 500
/ Data reported for specific kinds of	of business on.	ly for countie	es with 100
or more wholesale establishments.			
OURCES: U.S. Bureau of the Census, (Census of Busin	ness, 1967 Ret	ail Trade
<u>Oregon</u> , BC 67 - RA 39, U.S. D.C., 1969.	Government Pr:	inting Office,	Washingt
U.S. Bureau of the Census, (Census of Busin	ness, 1967 Who	olesale
orbi Daroda or che ochbab,			
Trade: Oregon, BC 67 - WA 3 Washington, D.C., 1969.			
Trade: Oregon, BC 67 - WA			

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

Product Group	Number Establish- ments	Receipts (\$1,000)	Number Paid <u>1</u> / Employees
Selected services, total	46	\$1,031	108
Hotels, motels, tourist courts, camps 2/	10	NA*	NA
Personal services Miscellaneous business services	15 5	n an	11 11
Auto repair services, garages Miscellaneous repair services	3 10	н (т. 1997) 1973 — П. 1973 — 1973 1974 — П. 1974 — 1974 — 1974 — 1974 — 1974 — 1974 — 1974 — 1974 — 1974 — 1974 — 1974 — 19	11
Motion pictures Amusement, recreation services,	1	ана на селото на село При селото на селото н При селото на селото н	n.
exc. motion pictures	2	nan an an Arrange. Arrange an Arrange	11

Table 81. Selected Services, Harney County, 1967

*NA - not available.

1/ Excludes active proprietors of unincorporated businesses.

 $\overline{2}$ / Data reported for specific kinds of business only for counties with 300 or more establishments.

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

PUBLIC SERVICES

Transportation

Each of the major highways in Harney County connects with Burns. Federal Highway 395 goes north from Burns to Grant County and Federal Highway 20 runs east and west through Burns across the northern portion of the state. State Highway 205 goes south from Burns to the central part of the county. The final major roadway in the county, State Highway 78, runs southeast from Burns to Malheur County.

Regularly scheduled bus service is available on the county's major highways. The Oregon and Northwest Railroad and the Union Pacific Corporation also operate in the county. Burns has a municipal airport where charter flights are available.

Agency	Miles
Federal agency roads	3,196
State agency roads	293
County and public usage roads <u>1</u> /	2,400
City streets	35
Total	5,924

Table 82. Miles of Roadway in Harney County, 1968

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

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

Table 83. Motor Vehicle Registration, Harney County, 1970 and 1972

W-LJ-1-	Number of V	ehicles	
Vehicle	1970	1972	
Passenger vehicles Buses	4,656	4,972	
Trucks All trailers	452 414	600 199	
Motorcycles Recreational 1/	232 422	284 541	
Snowmobiles	NA*	61	
Total	6,178	6,657	

*NA - not available. <u>1</u>/ Includes campers and travel trailers. SOURCES: Oregon State Department of Transportation, Motor Vehicles Division, 1970 figures taken from Bureau of Business and Economic Research, Oregon Economic Statistics, 1972, University of Oregon, 1972; 1972 figures from a telephone interview with State Motor Vehicles Division.

Table 84.	Number o	f Aircraft	and Boats	in Harney	County, 1968

		Subject		Number	
 1997 - 1997 1997 -		and the second second			
	Aircraft		••••	34	
1 . 1		• • • • • • • • • • •		197	

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

Communication

Harney County is served with one radio station and others from surrounding areas. There are no locally owned television stations within the county; however, several are received from outside the county. Telephone service is provided by United Telephone Company of the Northwest and Pacific Northwest Bell.

			Network
	Type of Service	Location	Affiliation
Radio stati			
KRNS	· • • • • • • • • • • • • • • • • • • •	Burns	
- 1 1			
Telephone		- 1	
	thwest Bell	Bend	
	ephone Company of the	.	
Northwest		Burns	
m 1 · ·			
Television			
	ed in the county, but		
	itside the county can		
be received			
Newspapers		.	
	s-Herald	Burns	
(Fortland	l papers available)		
			<u> </u>
	Dregon Association of Broadcast		r kadio and lele-
	vision Stations for the State of		а . с <u>а</u>
	Dregon State Executive Departme		Secretary of Stat
	Dregon Blue Book, 1973-74, Janu		
1	Pacific Northwest Bell, unpubl	ished data.	

Table 85. Communication Facilities, Harney County

	Number of Hous	sing Units
Facilities	1960	1970
Battery radio sets YesNo	NA* NA	1,979 466
Telephone availableYesNo	1,319 718	1,888 425
Television setsOneTwo or moreNone	1,363 74 600	1,743 289 393
UHF equipped television Yes No	NA NA	1,508 524

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

*NA - not available.

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

Library Facilities

During the 1969-70 fiscal year, \$4,000 of city funds and \$18,579 of county funds were provided to support library facilities in Harney County, while expenditures totaled \$17,555. The county's circulation per capita of 4.2 and expenditure per capita of \$2.41 compare with average figures for all counties in Oregon of 6.3 and \$3.48.

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

City	Volumes	Circu- lation	Circ./ Capita	Hrs. Open Per Week	Operating Expend.	Expend./ Capita
Burns <u>1</u> / Extension Service	16,595	30,788	4.2	32	\$17,555	\$2.41
County total	16,595	30,788	4.2	32	\$17,55 5	\$2.41

1/ City library.

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

Utilities

Harney	State	
Number	Percent17	Percent1/
1,816	69.4	79.8
745	28.5	16.9
55	2.1	3.3
1,822	69.6	61.0
726	27.7	37.5
68	2.6	1.5
	Number 1,816 745 55 1,822 726	1,816 69.4 745 28.5 55 2.1 1,822 69.6 726 27.7

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

1/ Percent of all year-round housing.

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

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

	Burns	
Subject	Number	Percent <u>1</u> /
Water source		
Public system or private company. Individual well	1,245 46	96.1 3.6
Sewage disposal Public sewer	1,278	98.7
Septic tank or cesspool Other or none	13	1.0

1/ Percent of all year-round housing.

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

Type of Fuel	Home Heating Fuel		Water Heating Fuel		Cooking Fuel	
	1960	1970	1960	1970	1960	1970
				t de Terres	•	
Utility gas	25	62	15		15	23
Fuel oil, kerosene, etc	1,069	1,580	21	45		
Coal or coke	155	60	29		15	
Wood	601	126	20	17	245	81
Electricity	15	303	1,733	2,144	1,504	2,079
Bottled, tank, or LP gas.	100	294	46	131	258	24 2
Other fuel	72			- <u></u>		
None			173	88		1
All occupied housing units	2,037	2,425				

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

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

No hydroelectric power is generated in Harney County, but Harney Electric Cooperative in Burns has a fuel powered electricity generating plant with a capacity of 6,000 kilowatts. California-Pacific Utilities Company also serves the county with imported electricity.

PUBLIC FINANCE

	Harne	State	
Item	Total Amount	Per Capita Amount	Per Capita Amount
	- \$1,000 -	dollars	
General revenue, exc. interlocal	\$3,289	\$433	\$308
Intergovernmental revenue	817	108	97
From state government	784	103	83
From local sources	2,472	325	210
Taxes	1,378	181	156
Property	1,354	178	151
0ther	24	3	5
Charges and miscellaneous	1,094	144	54
Direct general expenditure	2,900	382	316
Capital outlay	119	16	62
Other	2,781	366	254
Education	1,455	191	180
Other than capital outlay	1,391	183	152
Highways	344	45	30
Other than capital outlay	344	45	20
Public welfare	14	2	2
Hospitals	540	71	6
Other than capital outlay	487	64	
Health	50	7	4
Police protection	69	9	12
Fire protection	15	2	9
Sewerage	18	2	8
Other than capital outlay	18	2	3
Sanitation other than sewerage			2
Parks and recreation	5	1	10
Natural resources	50	7	4
Housing and urban renewal			4
Correction	13	2	2
Libraries	6	1	3
Financial administration	44	6	5
General control	59	8	8
General public buildings	16	2	3
Interest on general debt	53	7	6
Other and unallocable	149	20	21
Water supply revenue	72	10	12
Water supply expenditure	51	7	13
General debt outstanding	1,310	172	214
Long-term	1,310	172	203
Local schools	834	110	101
0ther	476	63	101

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

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

Item	Amount in Dollars
Taulan	
<u>Levies</u>	
County	\$ 356,119
Cities	116,376
Community colleges	;
Elementary and secondary school districts	
Intermediate county	3,007,807
Education joint	32,331
Elementary and unified	2,082,485
Union high	164,730
County unit	
Total school districts	1,779,750
Special districts	
Cemetery	이 가지 않는 것이 가지 않 <mark>수요</mark> 가슴이 있다.
Fire protection	la ferra de la constante de la
Hospital	
Park and recreation	26,886
Port	영양 이 같아. 말 것 같아. 이 것 않는
Road	
Sanitary	
Water supply	
Other	
Total special districts	26,886
Total gross ad valorem levies	2,279,131
Special assessments	
Fire patrol	4,154
Forest fee	
Diking and drainage	
Irrigation	
Lighting	가는 가지 않는 것이 같은 것이 있는 것이 있다. 이는 것이 같은 것이 같은 것이 같은 것이 같은 것이 같이
Other	n an
Total special assessments	4,154
Total gross levies and assessments	2,283,285
Less property relief money	(/ 001)
Senior citizens	(4,981)
Game Commission	
Total net ad valorem levies	2,274,150
Net ad valorem taxes by class	1 (00 000
Real property	1,608,000
Personal property	473,782
Utility property	192,368

Table 92. Summary of 1971-72 Property Tax Levies and Assessments, Harney County

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

Item	Assessed Value	Percent of Total
C1acc		
<u>Class</u>		
Real property		
Lands inside corporate limits	\$ 4,622,770	5.1
	25,760,510	28.5
Lands outside corporate limits		18.6
Improvements inside corporate limits Improvements outside corporate limits	16,831,555	18.0
	16,407,955	10.1
Timber (excludes land)		0.5
Less veterans exemptions	(414,765)	
Less senior citizens residence exemptions	(167,180)	0.2
Taxable real property	63,040,845	69.7
Personal property		
Merchandise and stock in trade	3,295,087	3.6
Furniture, fixtures and equipment	432,596	0.5
	2,240,355	2.5
Farm machinery and equipment		1.9
Other machinery and equipment	1,771,469	
Livestock	11,197,978	12.4
Miscellaneous	977,561	1.1
Less veterans exemptions	(7,290)	$\frac{1}{1}$
Less senior citizens residence exemptions	(4,425)	$\underline{1}/$
Taxable personal property	19,903,331	22.0
Total taxable real and personal property	82,944,176	91.7
Utilities		
Airline companies		
Electric companies	2,812,831	3.1
Express companies		
Gas companies		· · · · · · · · · · · · · · · ·
Heating companies		
Pipeline companies		
Railroad companies	2,415,510	2.7
Tank and private car companies		
Telegraph companies	1,700	$\frac{1}{2.5}$
Telephone companies	2,269,818	2.5
Water companies		
Water transportation companies		
Taxable utility property	7,499,859	8.3
Total taxable real, personal and utility		an an an Arrange ann an Arrange. An Arrange anns an Arrange anns anns anns an Ar
property	90,444,035	100.0

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

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

Item	Burns	Hines	
Population	3,290	1,415	
True cash value (TCV)	\$19,285,099	\$6,088,365	
Per capita TCV	5,862	4,303	
City tax	118,310	18,022	
Consolidated tax	562,856	164,812	
Per capita tax			
City	30	13	
Consolidated	178	16 16	
	1/0	10	
Percentage of total levy	10.0		
County	12.9	14.5	
City	16.8	10.9	
School	68.3	72.3	
Other	2.0	2.3	
Average rate/\$TCV basis			
County	3.93	3.93	
City	5.10	2.96	
School	20.78	19.57	
Other	0.61	0.61	
Total	30.42	27.07	

Table 94. City Valuation, Tax Rates and Taxes Extended in Harney County for 1971-72 Fiscal Year

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

Table 95. Amount and Percent of Unpaid 1970-71 Property Tax, As of June 30, 1971, Harney County

Item	Total Amount	Amount Unpaid	Percent Unpaid
Property taxable			
Real	\$1,541,984	\$228,550	14.8
Personal	457,625	28,602	6.3
Public utilities	188,876	23,520	12.5
Western Oregon additional			
timber tax			
Yield tax		 _	
Other	36,584	i de la companye de l	
Total for collection	2,225,069	818,004	36.8

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

- Bureau of Business and Economic Research, Univerity 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, Fublic 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
- 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
- Governor's Office, Economic Development Special Projects, State Capitol Building, Salem, Oregon 97310

- 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
- Oregon Educational Coordinating Council, 4263 Commercial S.E., Salem, Oregon 97310
- Oregon State Department of Revenue, State Office Building, Salem, Oregon 97310
- 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
- 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
- Soil Conservation Service, U.S.D.A., 1218 S.W. Washington, Portland, Oregon 97205
- 27. State Water Resources Board, 1158 Chemeketa N.E., Salem, Oregon 97310
- 28. U.S. Department of Commerce, 921 S.W. Washington, Portland, Oregon 97204 (for copies of U.S. Census publications)

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