

Monitoring Oregon's Healthcare Safety Net

Objective

- To gather information about demand for safety net healthcare services in Oregon
- To compile available data about safety net capacity in Oregon
- To identify gaps in available information

There is an "inability to find a single source" where safety net data is collected and analyzed. Furthermore, "information on the safety net takes years to assemble and important data is often missing or only describing the situation in a few communities."

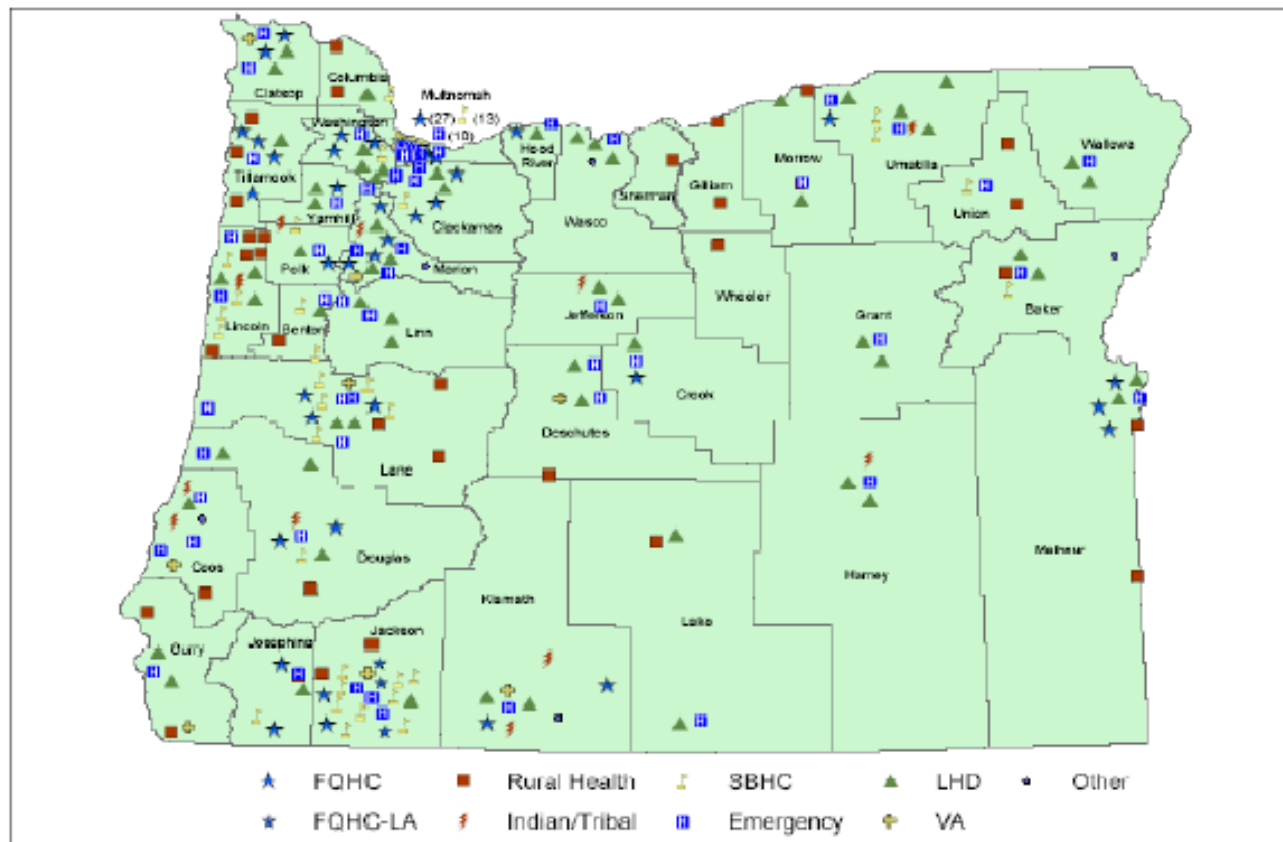
- *"America's Health Care Safety Net: Intact But Endangered"*

Unfortunately, Oregon is no exception to these statements. But this is a beginning.

A key challenge... how much primary care capacity is there for low-income, often uninsured people in the state?

We know where the clinics are located...

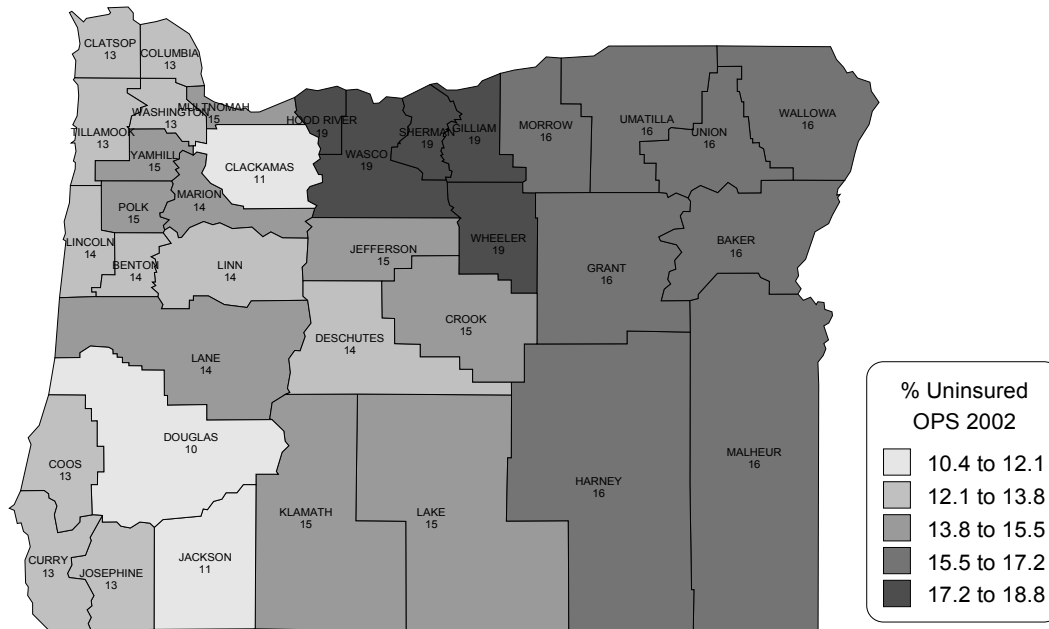
Oregon Safety Net Clinics 2004
(299 Sites: FQHC, FQHC-LA, RHC, SBHC, ED, Tribal, LHD, VA, Other)



Health Systems Planning Office 3/3/04

We know where the demand is...uninsured, low-income, geographically isolated, racial and ethnic minorities, homeless and migrant populations.

Uninsured: According to the 2002 OPS, the overall uninsurance rate is 14%, but there are regional and population variations.

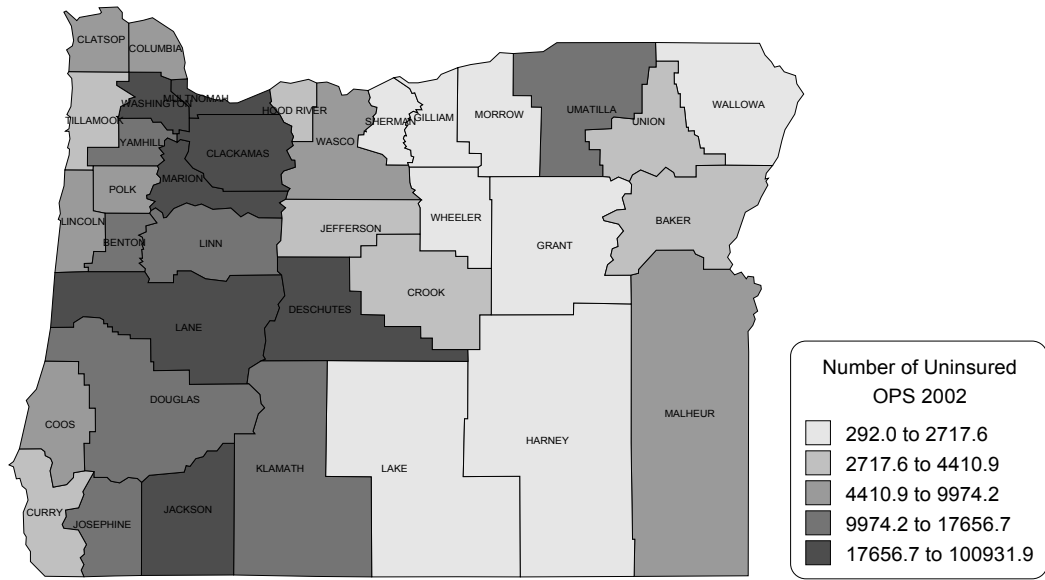


Uninsurance ranged from a low of 10.8% in Clackamas County to a high of 18.9% in the Columbia Gorge Region. There are also racial and ethnic disparities:

- 30.7% uninsured for the Hispanic population
- 13.9% uninsured for the African-American population
- 17.8% uninsured for the Native American population

And proportions only tell part of the story.

Number of Uninsured by County, 2002

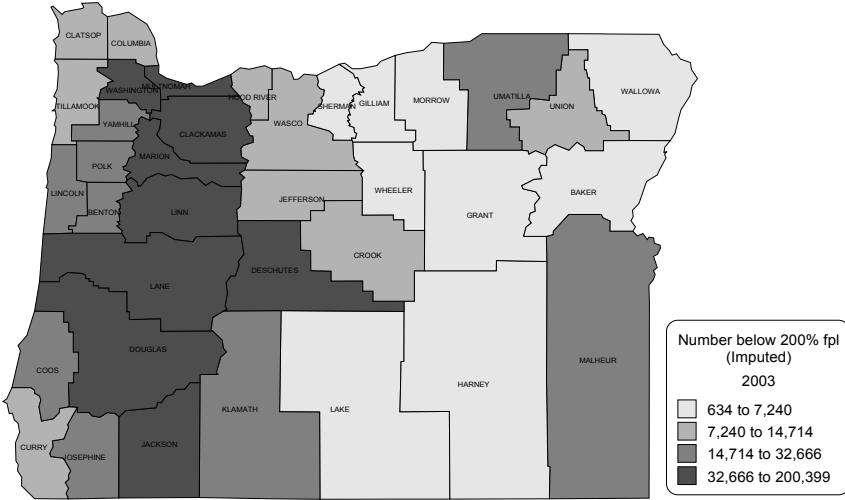
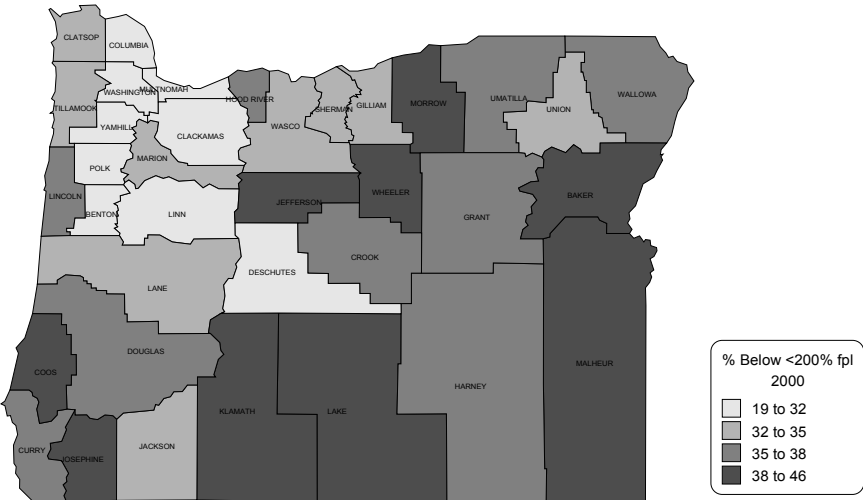


The I-5 Corridor carries less of the relative burden of the uninsured, but more in absolute numbers.

Understanding the numbers: Distribution of low-income population

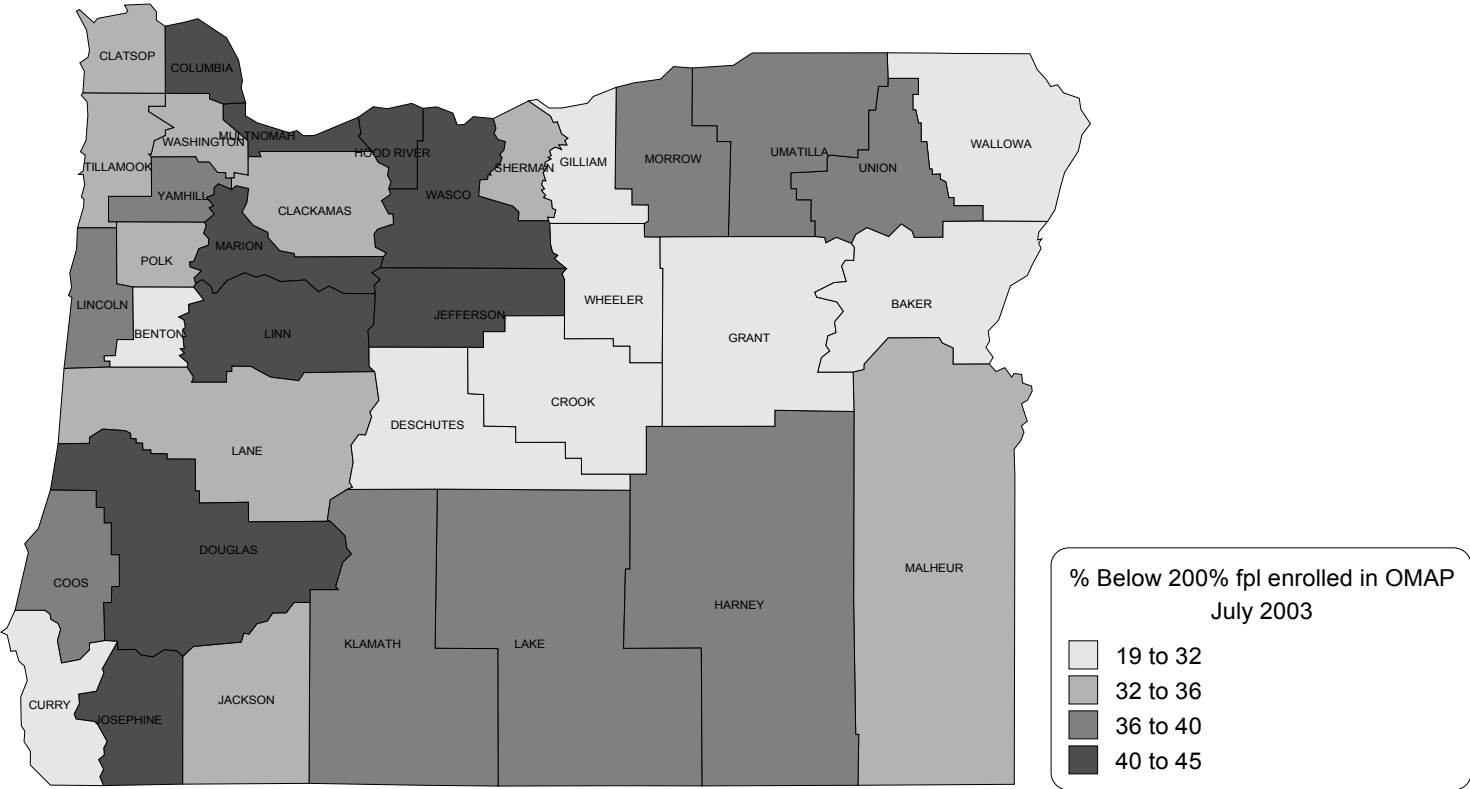
Low-income (<200% fpl) as a percentage of population:

Low-income (<200% fpl) as a raw number:



Understanding the numbers: Distribution of low-income and Medicaid coverage...

Percent of low-income population enrolled in the Oregon Health Plan



The Data: Demand

DEMAND: Population

| Area | Population (Est. 2003) | Square Miles | Population Density | % Population | | | % Population Change 1990-2000 | | | |
|-------------------|---------------------------|-----------------|-----------------------|--------------|---------------|-------------|-------------------------------|--------------|---------------|-------------|
| | | | | Ages 0-17 | Ages 18-64 | Ages 65+ | Total | Ages 0-17 | Ages 18-64 | Ages 65+ |
| Oregon | 3,541,500 | 96,545 | 37 | 24.7 | 62.5 | 12.8 | 20.4 | 16.9 | 23.7 | 12.0 |
| Baker County | 16,500 | 2,990 | 6 | 23.6 | 57.4 | 19.0 | 9.3 | -1.7 | 14.2 | 10.4 |
| Benton County | 80,500 | 656 | 123 | 23.4 | 66.4 | 10.3 | 10.4 | 15.8 | 7.6 | 17.5 |
| Clackamas County | 353,450 | 1,814 | 195 | 25.8 | 63.1 | 11.1 | 21.4 | 17.5 | 23.8 | 17.0 |
| Clatsop County | 36,300 | 714 | 51 | 23.7 | 60.8 | 15.6 | 7.0 | -1.5 | 12.0 | 2.6 |
| Columbia County | 45,000 | 779 | 58 | 26.7 | 61.6 | 11.6 | 16.0 | 7.9 | 21.8 | 7.3 |
| Coos County | 63,000 | 1,611 | 39 | 21.7 | 59.1 | 19.1 | 4.2 | -9.8 | 6.9 | 15.4 |
| Crook County | 20,300 | 2,963 | 7 | 25.9 | 59.4 | 14.7 | 35.9 | 28.5 | 42.4 | 25.6 |
| Curry County | 21,100 | 1,636 | 13 | 18.7 | 54.6 | 26.6 | 9.4 | -0.7 | 8.8 | 19.2 |
| Deschutes County | 130,500 | 3,460 | 38 | 24.5 | 62.4 | 13.1 | 53.9 | 46.3 | 59.2 | 45.1 |
| Douglas County | 101,800 | 5,034 | 20 | 23.7 | 58.5 | 17.8 | 6.1 | -6.6 | 7.5 | 22.8 |
| Gilliam County | 1,900 | 1,201 | 2 | 22.4 | 58.6 | 19.1 | 11.5 | -7.1 | 21.4 | 9.9 |
| Grant County | 7,650 | 4,494 | 2 | 25.0 | 58.3 | 16.8 | 1.0 | -7.0 | 0.9 | 16.7 |
| Harney County | 7,300 | 5,434 | 1 | 25.5 | 59.5 | 15.0 | 7.8 | -1.6 | 10.3 | 16.1 |
| Hood River County | 20,500 | 548 | 37 | 27.6 | 59.6 | 12.9 | 20.8 | 21.7 | 22.6 | 10.9 |
| Jackson County | 189,100 | 2,789 | 68 | 24.3 | 59.7 | 16.0 | 23.8 | 19.8 | 26.0 | 22.3 |
| Jefferson County | 19,900 | 1,767 | 11 | 29.2 | 58.3 | 12.4 | 39.0 | 29.8 | 44.1 | 38.9 |
| Josephine County | 78,350 | 1,651 | 47 | 22.8 | 57.1 | 20.1 | 20.9 | 13.4 | 25.0 | 18.7 |
| Klamath County | 64,600 | 6,033 | 11 | 25.7 | 59.4 | 14.9 | 10.5 | 6.5 | 11.1 | 15.6 |
| Lake County | 7,400 | 12,650 | 1 | 23.7 | 58.6 | 17.7 | 3.3 | -12.9 | 5.2 | 27.2 |
| Lane County | 329,400 | 4,631 | 71 | 23.2 | 63.5 | 13.3 | 14.2 | 8.5 | 16.0 | 15.8 |
| Lincoln County | 45,000 | 1,027 | 44 | 21.0 | 59.4 | 19.5 | 14.4 | 3.0 | 20.1 | 11.4 |
| Linn County | 104,900 | 2,355 | 45 | 25.8 | 59.7 | 14.5 | 13.0 | 9.2 | 15.3 | 10.6 |
| Malheur County | 32,000 | 9,944 | 3 | 27.7 | 58.7 | 13.7 | 21.4 | 9.9 | 32.3 | 6.5 |
| Marion County | 295,900 | 1,202 | 246 | 27.4 | 60.3 | 12.4 | 24.7 | 29.3 | 26.8 | 7.5 |
| Morrow County | 11,750 | 2,026 | 6 | 30.5 | 58.9 | 10.6 | 44.2 | 45.1 | 46.5 | 30.6 |
| Multnomah County | 677,850 | 423 | 1,601 | 22.5 | 66.4 | 11.1 | 13.1 | 10.1 | 18.6 | -7.3 |
| Polk County | 64,000 | 620 | 103 | 25.8 | 59.4 | 14.8 | 25.9 | 22.7 | 27.7 | 24.8 |
| Sherman County | 1,900 | 826 | 2 | 25.7 | 56.1 | 18.3 | 0.8 | -6.9 | 2.1 | 9.3 |
| Tillamook County | 24,900 | 1,079 | 23 | 21.8 | 58.5 | 19.8 | 12.5 | 4.0 | 18.3 | 6.6 |
| Umatilla County | 71,100 | 3,217 | 22 | 27.6 | 60.1 | 12.3 | 19.1 | 17.9 | 22.8 | 5.7 |
| Union County | 24,650 | 2,117 | 12 | 25.1 | 60.2 | 14.7 | 3.9 | -6.1 | 7.7 | 8.4 |
| Wallowa County | 7,150 | 3,147 | 2 | 23.4 | 57.8 | 18.9 | 4.6 | -8.4 | 9.0 | 10.3 |
| Wasco County | 23,550 | 2,388 | 10 | 24.9 | 58.4 | 16.7 | 9.7 | 1.3 | 15.4 | 4.7 |
| Washington County | 472,600 | 782 | 604 | 26.7 | 64.5 | 8.8 | 42.9 | 42.2 | 46.2 | 24.7 |
| Wheeler County | 1,550 | 1,719 | 1 | 21.1 | 55.6 | 23.3 | 10.8 | 5.6 | 9.2 | 20.4 |
| Yamhill County | 88,150 | 816 | 108 | 27.2 | 61.0 | 11.7 | 29.7 | 24.6 | 35.4 | 15.4 |

DEMAND: Economy

| Area | Median Household Income (\$) | % Households Income Under \$15,000 | % Households Income Over \$75,000 | % Households Under \$15,000 on Public Assistance | Mean Public Assistance Amount (\$) | % Ages 16+ Not In Labor Force | % Ages 16+ Unemployed |
|-------------------|------------------------------|------------------------------------|-----------------------------------|--|------------------------------------|-------------------------------|-----------------------|
| Oregon | 40,916 | 15.1 | 19.7 | 23.5 | 2,697 | 34.8 | 6.5 |
| Baker County | 30,367 | 22.2 | 8.6 | 18.5 | 1,748 | 44.4 | 8.3 |
| Benton County | 41,897 | 17.6 | 23.3 | 11.5 | 2,333 | 36.4 | 4.9 |
| Clackamas County | 52,080 | 8.9 | 30.9 | 24.6 | 2,948 | 31.4 | 5.0 |
| Clatsop County | 36,301 | 18.4 | 14.1 | 19.4 | 2,000 | 36.4 | 6.6 |
| Columbia County | 45,797 | 13.8 | 19.5 | 24.3 | 2,205 | 35.2 | 6.3 |
| Coos County | 31,542 | 22.6 | 10.7 | 23.4 | 2,590 | 45.7 | 8.5 |
| Crook County | 35,186 | 17.8 | 10.6 | 25.6 | 3,303 | 40.6 | 7.7 |
| Curry County | 30,117 | 23.0 | 9.6 | 16.5 | 3,111 | 50.7 | 7.3 |
| Deschutes County | 41,847 | 13.0 | 19.9 | 21.7 | 2,301 | 34.7 | 5.2 |
| Douglas County | 33,223 | 19.6 | 11.1 | 22.2 | 2,770 | 43.1 | 7.6 |
| Gilliam County | 33,611 | 17.8 | 11.7 | 12.8 | 5,168 | 34.1 | 6.8 |
| Grant County | 32,560 | 19.1 | 9.9 | 15.5 | 2,431 | 38.6 | 11.9 |
| Harney County | 30,957 | 19.8 | 12.7 | 16.1 | 5,650 | 36.2 | 9.4 |
| Hood River County | 38,326 | 14.1 | 14.4 | 22.6 | 2,595 | 33.5 | 6.6 |
| Jackson County | 36,461 | 17.3 | 16.4 | 21.8 | 2,453 | 38.7 | 7.3 |
| Jefferson County | 35,853 | 14.8 | 12.1 | 36.9 | 2,754 | 36.1 | 8.6 |
| Josephine County | 31,229 | 22.6 | 11.5 | 23.1 | 2,459 | 47.9 | 9.8 |
| Klamath County | 31,537 | 21.3 | 11.3 | 22.0 | 2,579 | 40.3 | 10.0 |
| Lake County | 29,506 | 24.1 | 9.2 | 15.5 | 1,809 | 42.2 | 8.5 |
| Lane County | 36,942 | 18.3 | 15.9 | 19.3 | 2,752 | 35.7 | 6.4 |
| Lincoln County | 32,769 | 19.0 | 12.4 | 22.3 | 2,664 | 41.7 | 8.4 |
| Linn County | 37,518 | 16.4 | 14.3 | 23.7 | 3,520 | 37.0 | 7.9 |
| Malheur County | 30,241 | 21.9 | 10.0 | 22.6 | 2,363 | 46.7 | 11.1 |
| Marion County | 40,314 | 14.7 | 17.1 | 29.5 | 2,965 | 36.3 | 7.7 |
| Morrow County | 37,521 | 13.6 | 12.6 | 39.7 | 2,477 | 34.9 | 10.7 |
| Multnomah County | 41,278 | 15.3 | 20.4 | 27.5 | 2,624 | 31.0 | 6.4 |
| Polk County | 42,311 | 15.9 | 19.3 | 19.5 | 2,580 | 35.9 | 6.2 |
| Sherman County | 35,142 | 21.3 | 12.0 | 7.0 | 2,542 | 40.1 | 7.3 |
| Tillamook County | 34,269 | 18.7 | 11.2 | 17.1 | 2,322 | 41.3 | 4.4 |
| Umatilla County | 36,249 | 16.8 | 13.8 | 20.3 | 2,184 | 36.8 | 7.5 |
| Union County | 33,738 | 21.8 | 13.1 | 19.3 | 2,863 | 38.6 | 7.9 |
| Wallowa County | 32,129 | 22.2 | 11.6 | 12.1 | 2,566 | 39.3 | 11.8 |
| Wasco County | 35,959 | 19.6 | 13.4 | 21.5 | 2,441 | 39.5 | 7.9 |
| Washington County | 52,122 | 8.6 | 29.7 | 26.2 | 2,947 | 27.7 | 4.6 |
| Wheeler County | 28,750 | 21.9 | 8.3 | 12.7 | 1,406 | 47.5 | 7.3 |
| Yamhill County | 44,111 | 12.6 | 19.3 | 24.1 | 2,416 | 35.5 | 6.4 |

DEMAND: Poverty and Disability

| Area | Population (2003) | % Uninsured OPS 2002 | % Below Poverty (2000 Census) | | | | % Below 200% Poverty (2000 Census) | | | | SSI (2003) | | |
|-------------------|-------------------|----------------------|-------------------------------|-----------|------------|----------|------------------------------------|-----------|------------|----------|------------|------------------|--------|
| | | | Total | Ages 0-17 | Ages 18-64 | Ages 65+ | Total | Ages 0-17 | Ages 18-64 | Ages 65+ | Aged | Blind & Disabled | Total |
| Oregon | 3,541,500 | 14.0% | 11.6 | 14.0 | 11.2 | 7.6 | 29.6 | 37.2 | 26.7 | 29.2 | 7,587 | 49,919 | 57,506 |
| Baker County | 16,500 | 16.5% | 14.7 | 18.8 | 13.5 | 12.4 | 42.1 | 55.6 | 37.8 | 38.0 | 42 | 307 | 349 |
| Benton County | 80,500 | 13.5% | 14.6 | 10.6 | 17.1 | 4.9 | 30.4 | 29.5 | 32.5 | 19.5 | 71 | 556 | 627 |
| Clackamas County | 353,450 | 10.8% | 6.6 | 7.6 | 6.2 | 5.1 | 18.7 | 23.7 | 16.1 | 22.1 | 524 | 2,570 | 3,094 |
| Clatsop County | 36,300 | 12.9% | 13.2 | 16.8 | 12.5 | 8.0 | 31.9 | 40.3 | 29.1 | 30.4 | 74 | 644 | 718 |
| Columbia County | 45,000 | 12.9% | 9.1 | 11.6 | 8.1 | 7.0 | 23.5 | 29.2 | 19.7 | 30.1 | 28 | 393 | 421 |
| Coos County | 63,000 | 13.3% | 15.0 | 19.9 | 14.8 | 9.4 | 39.2 | 51.1 | 35.1 | 38.3 | 153 | 1,661 | 1,814 |
| Crook County | 20,300 | 14.5% | 11.3 | 13.9 | 10.6 | 8.1 | 35.7 | 46.8 | 29.5 | 41.2 | 32 | 202 | 234 |
| Curry County | 21,100 | 13.3% | 12.2 | 13.6 | 12.4 | 10.6 | 37.1 | 48.6 | 33.8 | 35.9 | 48 | 358 | 406 |
| Deschutes County | 130,500 | 13.5% | 9.3 | 10.4 | 9.2 | 6.1 | 27.2 | 34.3 | 24.5 | 26.6 | 118 | 1,248 | 1,366 |
| Douglas County | 101,800 | 10.4% | 13.1 | 16.6 | 12.6 | 9.2 | 35.4 | 44.1 | 31.1 | 38.5 | 169 | 1,844 | 2,013 |
| Gilliam County | 1,900 | 18.8% | 9.1 | 11.0 | 9.0 | 6.6 | 34.7 | 45.9 | 32.4 | 28.0 | 7 | 27 | 34 |
| Grant County | 7,650 | 16.5% | 13.7 | 16.6 | 13.1 | 10.2 | 37.6 | 48.7 | 33.6 | 34.3 | 12 | 125 | 137 |
| Harney County | 7,300 | 16.5% | 11.8 | 12.7 | 10.8 | 13.9 | 36.7 | 49.7 | 31.5 | 35.2 | 14 | 128 | 142 |
| Hood River County | 20,500 | 18.8% | 14.2 | 17.3 | 13.5 | 7.8 | 37.7 | 49.7 | 33.7 | 30.4 | 31 | 176 | 207 |
| Jackson County | 189,100 | 11.3% | 12.5 | 16.3 | 12.2 | 6.9 | 33.4 | 43.8 | 30.6 | 28.4 | 311 | 2,789 | 3,100 |
| Jefferson County | 19,900 | 14.5% | 14.6 | 22.2 | 12.7 | 5.9 | 38.1 | 53.8 | 31.9 | 30.1 | 36 | 279 | 315 |
| Josephine County | 78,350 | 13.3% | 15.0 | 21.1 | 15.1 | 6.8 | 40.1 | 52.8 | 37.2 | 33.7 | 157 | 1,575 | 1,732 |
| Klamath County | 64,600 | 15.4% | 16.8 | 22.4 | 16.4 | 7.7 | 40.5 | 52.5 | 36.8 | 35.0 | 151 | 1,310 | 1,461 |
| Lake County | 7,400 | 14.8% | 16.1 | 20.4 | 16.0 | 9.5 | 41.0 | 50.4 | 37.6 | 39.0 | 12 | 113 | 125 |
| Lane County | 329,400 | 14.1% | 14.4 | 16.1 | 14.9 | 7.5 | 33.0 | 39.2 | 31.5 | 29.4 | 442 | 5,169 | 5,611 |
| Lincoln County | 45,000 | 13.5% | 13.9 | 19.5 | 13.6 | 7.2 | 36.1 | 49.2 | 33.6 | 29.4 | 76 | 687 | 763 |
| Linn County | 104,900 | 13.5% | 11.4 | 14.8 | 10.6 | 7.1 | 31.1 | 40.0 | 26.8 | 33.2 | 194 | 2,044 | 2,238 |
| Malheur County | 32,000 | 16.5% | 18.6 | 25.8 | 16.5 | 11.6 | 46.0 | 58.7 | 41.4 | 37.3 | 109 | 600 | 709 |
| Marion County | 295,900 | 14.3% | 13.5 | 18.1 | 12.3 | 7.4 | 33.8 | 44.2 | 30.2 | 27.7 | 624 | 4,352 | 4,976 |
| Morrow County | 11,750 | 16.5% | 14.8 | 21.6 | 11.9 | 10.1 | 38.6 | 53.1 | 31.6 | 36.1 | 8 | 103 | 111 |
| Multnomah County | 677,850 | 14.9% | 12.7 | 15.4 | 12.0 | 9.8 | 29.6 | 37.6 | 26.9 | 29.4 | 2,606 | 13,110 | 15,716 |
| Polk County | 64,000 | 14.6% | 11.5 | 12.5 | 12.2 | 5.5 | 29.2 | 35.1 | 27.0 | 28.0 | 110 | 981 | 1,091 |
| Sherman County | 1,900 | 18.8% | 14.6 | 20.2 | 14.1 | 7.7 | 33.4 | 42.1 | 30.6 | 29.4 | ** | ** | 22 |
| Tillamook County | 24,900 | 12.9% | 11.4 | 13.4 | 11.1 | 8.1 | 34.5 | 45.4 | 30.9 | 33.1 | 48 | 343 | 391 |
| Umatilla County | 71,100 | 16.3% | 12.7 | 16.2 | 11.4 | 8.7 | 36.4 | 46.7 | 31.3 | 36.6 | 137 | 1,125 | 1,262 |
| Union County | 24,650 | 16.5% | 13.8 | 13.6 | 14.6 | 9.5 | 35.0 | 39.8 | 32.8 | 36.3 | 51 | 446 | 497 |
| Wallowa County | 7,150 | 16.5% | 14.0 | 18.3 | 12.5 | 11.4 | 37.9 | 50.2 | 32.7 | 38.2 | 18 | 99 | 117 |
| Wasco County | 23,550 | 18.7% | 12.9 | 17.7 | 12.4 | 7.3 | 33.5 | 43.0 | 29.5 | 33.0 | 50 | 460 | 510 |
| Washington County | 472,600 | 12.8% | 7.4 | 8.3 | 7.1 | 5.3 | 20.6 | 25.6 | 18.6 | 20.8 | 1,008 | 3,241 | 4,249 |
| Wheeler County | 1,550 | 18.8% | 15.6 | 22.2 | 16.7 | 4.2 | 45.3 | 66.8 | 40.6 | 36.0 | ** | ** | 12 |
| Yamhill County | 88,150 | 16.2% | 9.2 | 10.1 | 8.8 | 7.5 | 26.6 | 31.9 | 23.7 | 29.2 | 106 | 766 | 872 |

DEMAND: Disability

| Area | Population (Est. 2003) | % With a Disability (2000 Census) | | | SSI (SSA: 2003) | | | Need for Mental Health Services (SMI) (Adults 18+: HH, Inst. & Group)* | | | Need for Mental Health Services (SMI) (Adults 18+: HH < 200% fpl)* | | | Need for Mental Health Services (SMI) (Youth 0 to 17: HH, Inst. & Group)* | | |
|-------------------|------------------------|-----------------------------------|------------|----------|-----------------|------------------|--------|--|------------|---------|--|------------|---------|---|------------|---------|
| | | Ages 5-20 | Ages 21-64 | Ages 65+ | Aged | Blind & Disabled | Total | Cases | Population | Percent | Cases | Population | Percent | Cases | Population | Percent |
| | | | | | | | | | | | | | | | | |
| Oregon | 3,541,500 | 8.2 | 18.0 | 41.5 | 7,587 | 49,919 | 57,506 | 163,361 | 2,574,873 | 6.3 | 61,294 | 666,239 | 9.2 | 62,350 | 846,526 | 7.4 |
| Baker County | 16,500 | 7.7 | 21.9 | 49.4 | 42 | 307 | 349 | 828 | 12,688 | 6.5 | 356 | 3,796 | 9.4 | 309 | 4,054 | 7.6 |
| Benton County | 80,500 | 6.9 | 11.7 | 35.6 | 71 | 556 | 627 | 3,802 | 61,495 | 6.2 | 1,565 | 17,216 | 9.1 | 1,225 | 16,659 | 7.4 |
| Clackamas County | 353,450 | 7.5 | 15.1 | 38.8 | 524 | 2,570 | 3,094 | 14,512 | 249,871 | 5.8 | 3,999 | 44,038 | 9.1 | 6,210 | 88,520 | 7.0 |
| Clatsop County | 36,300 | 8.9 | 19.7 | 41.4 | 74 | 644 | 718 | 1,795 | 27,197 | 6.6 | 698 | 7,477 | 9.3 | 639 | 8,434 | 7.6 |
| Columbia County | 45,000 | 8.2 | 18.9 | 44.7 | 28 | 393 | 421 | 1,945 | 31,661 | 6.1 | 730 | 7,955 | 9.2 | 875 | 11,902 | 7.4 |
| Coos County | 63,000 | 10.9 | 25.5 | 45.8 | 153 | 1,661 | 1,814 | 3,266 | 49,010 | 6.7 | 1,482 | 15,884 | 9.3 | 1,056 | 13,769 | 7.7 |
| Crook County | 20,300 | 8.3 | 21.7 | 51.6 | 32 | 202 | 234 | 889 | 14,083 | 6.3 | 373 | 4,072 | 9.2 | 390 | 5,100 | 7.6 |
| Curry County | 21,100 | 10.8 | 27.7 | 39.9 | 48 | 358 | 406 | 1,008 | 17,073 | 5.9 | 461 | 5,374 | 8.6 | 308 | 4,065 | 7.6 |
| Deschutes County | 130,500 | 7.4 | 16.5 | 37.2 | 118 | 1,248 | 1,366 | 5,166 | 86,784 | 6.0 | 2,011 | 22,064 | 9.1 | 2,083 | 28,583 | 7.3 |
| Douglas County | 101,800 | 8.0 | 22.7 | 42.9 | 169 | 1,844 | 2,013 | 5,067 | 76,321 | 6.6 | 2,244 | 24,364 | 9.2 | 1,817 | 24,079 | 7.6 |
| Gilliam County | 1,900 | 4.8 | 17.6 | 42.9 | 7 | 27 | 34 | 85 | 1,470 | 5.8 | 34 | 393 | 8.6 | 33 | 445 | 7.3 |
| Grant County | 7,650 | 5.2 | 16.7 | 40.5 | 12 | 125 | 137 | 372 | 5,890 | 6.3 | 155 | 1,690 | 9.2 | 153 | 2,045 | 7.5 |
| Harney County | 7,300 | 6.2 | 20.8 | 44.9 | 14 | 128 | 142 | 379 | 5,635 | 6.7 | 153 | 1,704 | 9.0 | 154 | 1,975 | 7.8 |
| Hood River County | 20,500 | 6.1 | 16.4 | 40.5 | 31 | 176 | 207 | 980 | 14,702 | 6.7 | 401 | 4,554 | 8.8 | 448 | 5,709 | 7.9 |
| Jackson County | 189,100 | 8.2 | 19.1 | 41.0 | 311 | 2,789 | 3,100 | 8,880 | 137,009 | 6.5 | 3,811 | 41,374 | 9.2 | 3,347 | 44,260 | 7.6 |
| Jefferson County | 19,900 | 6.2 | 22.0 | 39.1 | 36 | 279 | 315 | 803 | 13,344 | 6.0 | 379 | 4,573 | 8.3 | 443 | 5,666 | 7.8 |
| Josephine County | 78,350 | 8.5 | 23.1 | 41.0 | 157 | 1,575 | 1,732 | 3,863 | 58,254 | 6.6 | 1,755 | 18,960 | 9.3 | 1,349 | 17,472 | 7.7 |
| Klamath County | 64,600 | 8.7 | 22.7 | 43.3 | 151 | 1,310 | 1,461 | 3,106 | 47,305 | 6.6 | 1,489 | 15,593 | 9.6 | 1,275 | 16,470 | 7.7 |
| Lake County | 7,400 | 5.5 | 21.1 | 44.6 | 12 | 113 | 125 | 349 | 5,576 | 6.3 | 171 | 1,789 | 9.5 | 143 | 1,847 | 7.7 |
| Lane County | 329,400 | 8.3 | 17.9 | 42.7 | 442 | 5,169 | 5,611 | 16,051 | 249,145 | 6.4 | 6,977 | 74,257 | 9.4 | 5,523 | 73,814 | 7.5 |
| Lincoln County | 45,000 | 11.8 | 21.7 | 39.3 | 76 | 687 | 763 | 2,172 | 34,945 | 6.2 | 930 | 10,096 | 9.2 | 732 | 9,536 | 7.7 |
| Linn County | 104,900 | 9.6 | 21.3 | 45.6 | 194 | 2,044 | 2,238 | 4,950 | 76,239 | 6.5 | 2,009 | 21,404 | 9.4 | 1,998 | 26,830 | 7.5 |
| Malheur County | 32,000 | 7.7 | 20.5 | 43.3 | 109 | 600 | 709 | 1,805 | 22,881 | 7.9 | 676 | 7,438 | 9.1 | 698 | 8,734 | 8.0 |
| Marion County | 295,900 | 8.7 | 19.6 | 42.1 | 624 | 4,352 | 4,976 | 14,579 | 206,871 | 7.1 | 5,458 | 57,955 | 9.4 | 5,970 | 77,963 | 7.7 |
| Morrow County | 11,750 | 5.9 | 19.5 | 44.7 | 8 | 103 | 111 | 487 | 7,611 | 6.4 | 234 | 2,552 | 9.2 | 263 | 3,385 | 7.8 |
| Multnomah County | 677,850 | 9.0 | 17.9 | 42.1 | 2,606 | 13,110 | 15,716 | 32,845 | 513,236 | 6.4 | 12,285 | 132,469 | 9.3 | 10,921 | 147,250 | 7.4 |
| Polk County | 64,000 | 7.3 | 18.2 | 43.0 | 110 | 981 | 1,091 | 2,986 | 46,565 | 6.4 | 1,082 | 11,550 | 9.4 | 1,155 | 15,815 | 7.3 |
| Sherman County | 1,900 | 5.7 | 16.4 | 32.6 | ** | ** | 22 | 84 | 1,423 | 5.9 | 39 | 423 | 9.2 | 39 | 511 | 7.7 |
| Tillamook County | 24,900 | 9.1 | 24.4 | 40.6 | 48 | 343 | 391 | 1,165 | 18,867 | 6.2 | 446 | 5,050 | 8.8 | 403 | 5,396 | 7.5 |
| Umatilla County | 71,100 | 7.9 | 19.4 | 44.1 | 137 | 1,125 | 1,262 | 3,585 | 50,956 | 7.0 | 1,424 | 15,531 | 9.2 | 1,495 | 19,592 | 7.6 |
| Union County | 24,650 | 7.5 | 18.9 | 45.1 | 51 | 446 | 497 | 1,197 | 18,484 | 6.5 | 520 | 5,427 | 9.6 | 452 | 6,046 | 7.5 |
| Wallowa County | 7,150 | 6.4 | 16.9 | 42.1 | 18 | 99 | 117 | 332 | 5,471 | 6.1 | 135 | 1,498 | 9.0 | 134 | 1,755 | 7.6 |
| Wasco County | 23,550 | 6.5 | 18.6 | 41.3 | 50 | 460 | 510 | 1,152 | 17,756 | 6.5 | 490 | 5,348 | 9.2 | 459 | 6,035 | 7.6 |
| Washington County | 472,600 | 7.4 | 14.0 | 39.3 | 1,008 | 3,241 | 4,249 | 18,206 | 325,724 | 5.6 | 4,908 | 55,712 | 8.8 | 8,293 | 119,618 | 6.9 |
| Wheeler County | 1,550 | 2.5 | 18.9 | 34.3 | ** | ** | 12 | 69 | 1,196 | 5.8 | 32 | 363 | 8.7 | 27 | 351 | 7.8 |
| Yamhill County | 88,150 | 8.2 | 19.6 | 39.4 | 106 | 766 | 872 | 4,261 | 62,149 | 6.9 | 1,309 | 14,408 | 9.1 | 1,653 | 22,843 | 7.2 |

Holzer, CE, "Estimation of Need for Mental Health Services," 2000. <http://psy.utmb.edu/estimation/estimation.htm> (May 2004).

DEMAND: Increasing diversity

Oregon is becoming more diverse; minority population is growing especially among younger ages.

- Some rural counties are in a process of demographic replacement. An aging white, non-Hispanic population is diminishing and minority population is growing, especially Latino populations.
- The Hispanic/Latino population is growing and is forecast to continue growing, based on immigration and fertility.
- The Hispanic/Latino population is not dispersed throughout rural areas. Populations are concentrated in small cities in rural counties, e.g., Hood River, Morrow and Malheur.

--Population Research Center, Portland State University, 2004.

| Area | Hispanic/Latino (of any race) April 1, 1990 and 2000 | | | | | | Total Population | |
|-------------------|--|---------|------------------|--------------------------|---------------------------|---------------------------|-----------------------------|-------------------------------------|
| | 1990 | 2000 | Change 1990-2000 | Percent Change 1990-2000 | Total Population (%) 1990 | Total Population (%) 2000 | % Speak Non-English at Home | % Speak English Less than Very Well |
| Oregon | 112,708 | 275,314 | 162,606 | 144% | 0.2 | 4.0% | 12.1 | 5.9 |
| Clatsop County | 648 | 1,597 | 949 | 146% | 0.2 | 1.9% | 7.1 | 3.3 |
| Crook County | 388 | 1,082 | 694 | 179% | 0.0 | 2.7% | 6.3 | 2.8 |
| Curry County | 354 | 761 | 407 | 115% | 0.1 | 1.8% | 5.4 | 1.1 |
| Deschutes County | 1,526 | 4,304 | 2,778 | 182% | 0.1 | 2.0% | 5.4 | 1.9 |
| Hood River County | 2,752 | 5,107 | 2,355 | 86% | 0.1 | 16.3% | 24.7 | 15.4 |
| Jefferson County | 1,448 | 3,372 | 1,924 | 133% | 0.2 | 10.6% | 19.0 | 9.3 |
| Josephine County | 1,749 | 3,229 | 1,480 | 85% | 0.1 | 2.8% | 4.8 | 1.4 |
| Klamath County | 2,984 | 4,961 | 1,977 | 66% | 0.1 | 5.2% | 8.1 | 3.4 |
| Lincoln County | 598 | 2,119 | 1,521 | 254% | 0.2 | 1.5% | 5.7 | 2.8 |
| Malheur County | 5,155 | 8,099 | 2,944 | 57% | 0.1 | 19.8% | 21.1 | 8.8 |
| Morrow County | 825 | 2,686 | 1,861 | 226% | 0.1 | 10.8% | 23.3 | 13.6 |
| Tillamook County | 374 | 1,244 | 870 | 233% | 0.2 | 1.7% | 6.3 | 2.7 |
| Wasco County | 1,065 | 2,214 | 1,149 | 108% | 0.5 | 4.9% | 10.5 | 5.2 |
| Wheeler County | 12 | 79 | 67 | 558% | 0.1 | 0.9% | 4.2 | 1.9 |

Source: 1990 and 2000 US Census of Population

Prepared by Population Research Center, Portland State University.

DEMAND: Diversity

| Area | % Population | | | | | | | % Population Hispanic (Any Race) | | | | |
|-------------------|--------------|-------|-------|-----------------|-------------------------|-------|----------|----------------------------------|---------|--------------|-------|-------|
| | Single Race | | | | | | 2+ Races | All Hispanic | Mexican | Puerto Rican | Cuban | Other |
| | White | Black | Asian | Native American | Hawaiian/Pacific Island | Other | | | | | | |
| Oregon | 86.6 | 1.6 | 3.0 | 1.3 | 0.2 | 4.2 | 3.1 | 8.0 | 6.3 | 0.1 | 0.1 | 1.5 |
| Baker County | 95.7 | 0.2 | 0.4 | 1.1 | 0.0 | 0.9 | 1.7 | 2.3 | 1.7 | 0.1 | 0.0 | 0.5 |
| Benton County | 89.2 | 0.8 | 4.5 | 0.8 | 0.2 | 1.9 | 2.6 | 4.7 | 3.2 | 0.2 | 0.1 | 1.2 |
| Clackamas County | 91.3 | 0.7 | 2.5 | 0.7 | 0.2 | 2.3 | 2.5 | 4.9 | 3.7 | 0.1 | 0.1 | 1.1 |
| Clatsop County | 93.1 | 0.5 | 1.2 | 1.0 | 0.2 | 1.6 | 2.3 | 4.5 | 3.5 | 0.2 | 0.0 | 0.8 |
| Columbia County | 94.4 | 0.2 | 0.6 | 1.3 | 0.1 | 0.8 | 2.5 | 2.5 | 1.6 | 0.1 | 0.1 | 0.8 |
| Coos County | 92.0 | 0.3 | 0.9 | 2.4 | 0.2 | 1.1 | 3.2 | 3.4 | 2.4 | 0.1 | 0.0 | 0.9 |
| Crook County | 93.0 | 0.0 | 0.4 | 1.3 | 0.0 | 3.8 | 1.4 | 5.6 | 4.6 | 0.0 | 0.0 | 1.0 |
| Curry County | 92.9 | 0.2 | 0.7 | 2.1 | 0.1 | 1.1 | 2.9 | 3.6 | 2.7 | 0.1 | 0.0 | 0.8 |
| Deschutes County | 94.8 | 0.2 | 0.7 | 0.8 | 0.1 | 1.4 | 2.0 | 3.7 | 2.7 | 0.1 | 0.0 | 0.9 |
| Douglas County | 93.9 | 0.2 | 0.6 | 1.5 | 0.1 | 1.0 | 2.7 | 3.3 | 2.3 | 0.1 | 0.0 | 0.8 |
| Gilliam County | 96.8 | 0.2 | 0.2 | 0.8 | 0.0 | 1.1 | 0.9 | 1.8 | 1.7 | 0.0 | 0.1 | 0.1 |
| Grant County | 95.7 | 0.1 | 0.2 | 1.6 | 0.0 | 0.7 | 1.7 | 2.1 | 1.2 | 0.1 | 0.0 | 0.7 |
| Harney County | 91.9 | 0.1 | 0.5 | 4.0 | 0.1 | 1.3 | 2.1 | 4.2 | 3.0 | 0.1 | 0.1 | 1.0 |
| Hood River County | 78.9 | 0.6 | 1.5 | 1.1 | 0.1 | 15.4 | 2.5 | 25.0 | 22.4 | 0.1 | 0.1 | 2.4 |
| Jackson County | 91.6 | 0.4 | 0.9 | 1.1 | 0.2 | 2.9 | 2.9 | 6.7 | 5.3 | 0.1 | 0.1 | 1.2 |
| Jefferson County | 69.0 | 0.3 | 0.3 | 15.7 | 0.2 | 11.3 | 3.2 | 17.7 | 14.4 | 0.2 | 0.0 | 3.2 |
| Josephine County | 93.9 | 0.3 | 0.6 | 1.3 | 0.1 | 1.2 | 2.7 | 4.3 | 3.0 | 0.2 | 0.1 | 1.0 |
| Klamath County | 87.3 | 0.6 | 0.8 | 4.2 | 0.1 | 3.4 | 3.5 | 7.8 | 6.2 | 0.2 | 0.1 | 1.3 |
| Lake County | 91.0 | 0.1 | 0.7 | 2.4 | 0.1 | 3.2 | 2.5 | 5.4 | 4.8 | 0.0 | 0.0 | 0.6 |
| Lane County | 90.6 | 0.8 | 2.0 | 1.1 | 0.2 | 1.9 | 3.3 | 4.6 | 3.3 | 0.2 | 0.0 | 1.1 |
| Lincoln County | 90.6 | 0.3 | 0.9 | 3.1 | 0.2 | 1.7 | 3.2 | 4.8 | 3.8 | 0.1 | 0.1 | 0.8 |
| Linn County | 93.2 | 0.3 | 0.8 | 1.3 | 0.1 | 1.8 | 2.5 | 4.4 | 3.3 | 0.1 | 0.0 | 0.9 |
| Malheur County | 75.8 | 1.2 | 2.0 | 1.0 | 0.1 | 17.4 | 2.6 | 25.6 | 19.8 | 0.1 | 0.0 | 5.7 |
| Marion County | 81.6 | 0.9 | 1.8 | 1.4 | 0.4 | 10.6 | 3.4 | 17.1 | 14.5 | 0.1 | 0.1 | 2.4 |
| Morrow County | 76.3 | 0.1 | 0.4 | 1.4 | 0.1 | 19.5 | 2.1 | 24.4 | 20.6 | 0.1 | 0.0 | 3.8 |
| Multnomah County | 79.2 | 5.7 | 5.7 | 1.0 | 0.4 | 4.0 | 4.1 | 7.5 | 5.5 | 0.2 | 0.2 | 1.6 |
| Polk County | 89.2 | 0.4 | 1.1 | 1.8 | 0.2 | 4.5 | 2.7 | 8.8 | 7.4 | 0.2 | 0.1 | 1.2 |
| Sherman County | 93.6 | 0.2 | 0.5 | 1.4 | 0.0 | 2.8 | 1.6 | 4.9 | 3.6 | 0.0 | 0.1 | 1.2 |
| Tillamook County | 93.9 | 0.2 | 0.6 | 1.2 | 0.2 | 1.9 | 2.0 | 5.1 | 4.1 | 0.1 | 0.1 | 0.8 |
| Umatilla County | 82.0 | 0.8 | 0.8 | 3.4 | 0.2 | 10.7 | 2.2 | 16.1 | 13.7 | 0.1 | 0.0 | 2.2 |
| Union County | 94.3 | 0.5 | 0.9 | 0.8 | 0.6 | 1.2 | 1.7 | 2.4 | 1.7 | 0.1 | 0.0 | 0.7 |
| Wallowa County | 96.5 | 0.0 | 0.2 | 0.7 | 0.0 | 1.0 | 1.5 | 1.7 | 1.3 | 0.1 | 0.0 | 0.3 |
| Wasco County | 86.6 | 0.3 | 0.8 | 3.8 | 0.5 | 5.6 | 2.4 | 9.3 | 8.1 | 0.1 | 0.0 | 1.1 |
| Washington County | 82.2 | 1.1 | 6.7 | 0.7 | 0.3 | 5.9 | 3.2 | 11.2 | 8.6 | 0.2 | 0.1 | 2.2 |
| Wheeler County | 93.3 | 0.1 | 0.3 | 0.8 | 0.1 | 3.5 | 1.9 | 5.1 | 3.2 | 0.1 | 0.1 | 1.7 |
| Yamhill County | 89.0 | 0.8 | 1.1 | 1.5 | 0.1 | 5.1 | 2.4 | 10.6 | 8.6 | 0.1 | 0.1 | 1.8 |

DEMAND: Immigration

| Area | % Population Foreign Born | Foreign Born | | Place of Foreign Birth | | | | | | % Speak Non-English at Home | % Speak English Less than Very Well |
|-------------------|---------------------------|----------------------------------|-----------------------|------------------------|--------|----------|----------|-----------------|-----------|-----------------------------|-------------------------------------|
| | | % Lived in U.S. 10 Years or Less | % Naturalized Citizen | % Latin America | % Asia | % Africa | % Europe | % North America | % Oceania | | |
| Oregon | 8.5 | 50.0 | 33.6 | 44.6 | 27.3 | 1.7 | 18.8 | 5.9 | 1.6 | 12.1 | 5.9 |
| Baker County | 1.8 | 42.8 | 48.4 | 44.1 | 22.7 | 0.0 | 23.0 | 10.2 | 0.0 | 4.0 | 1.7 |
| Benton County | 7.6 | 54.9 | 35.4 | 22.4 | 42.3 | 2.8 | 25.6 | 5.2 | 1.8 | 10.0 | 4.0 |
| Clackamas County | 7.1 | 43.3 | 38.6 | 33.9 | 28.3 | 1.9 | 26.8 | 7.8 | 1.3 | 9.6 | 4.1 |
| Clatsop County | 4.2 | 44.3 | 32.5 | 51.0 | 16.6 | 2.4 | 16.6 | 12.0 | 1.5 | 7.1 | 3.3 |
| Columbia County | 1.8 | 17.9 | 47.4 | 18.7 | 21.9 | 0.1 | 37.2 | 21.4 | 0.6 | 3.9 | 1.3 |
| Coos County | 2.7 | 26.3 | 47.4 | 30.0 | 18.8 | 2.8 | 33.1 | 13.2 | 2.2 | 4.5 | 1.3 |
| Crook County | 3.3 | 51.3 | 25.9 | 80.7 | 3.1 | 0.0 | 11.5 | 3.9 | 0.8 | 6.3 | 2.8 |
| Curry County | 3.7 | 17.1 | 61.4 | 16.1 | 12.5 | 0.6 | 47.7 | 17.4 | 5.8 | 5.4 | 1.1 |
| Deschutes County | 2.8 | 37.5 | 45.2 | 37.6 | 16.6 | 0.8 | 27.6 | 14.8 | 2.6 | 5.4 | 1.9 |
| Douglas County | 2.1 | 21.7 | 63.8 | 25.6 | 19.5 | 1.1 | 29.2 | 22.6 | 2.1 | 3.9 | 1.2 |
| Gilliam County | 1.7 | 9.4 | 56.3 | 40.6 | 12.5 | 0.0 | 15.6 | 21.9 | 9.4 | 3.2 | 0.9 |
| Grant County | 1.4 | 36.0 | 47.4 | 51.8 | 8.8 | 0.0 | 23.7 | 15.8 | 0.0 | 2.8 | 1.0 |
| Harney County | 2.1 | 10.9 | 44.2 | 35.3 | 19.9 | 0.0 | 30.8 | 14.1 | 0.0 | 6.0 | 1.5 |
| Hood River County | 16.4 | 46.1 | 18.4 | 86.4 | 4.7 | 0.2 | 4.9 | 3.5 | 0.3 | 24.7 | 15.4 |
| Jackson County | 4.9 | 36.4 | 38.8 | 56.5 | 12.7 | 0.5 | 20.5 | 8.5 | 1.3 | 7.7 | 3.2 |
| Jefferson County | 9.9 | 41.0 | 21.5 | 86.5 | 6.4 | 0.7 | 3.7 | 2.3 | 0.4 | 19.0 | 9.3 |
| Josephine County | 3.1 | 20.1 | 57.8 | 27.3 | 13.8 | 0.6 | 38.4 | 18.9 | 0.9 | 4.8 | 1.4 |
| Klamath County | 4.8 | 38.1 | 40.8 | 60.0 | 11.6 | 1.0 | 18.0 | 8.4 | 1.0 | 8.1 | 3.4 |
| Lake County | 3.4 | 42.8 | 38.4 | 50.0 | 21.2 | 0.0 | 22.8 | 5.2 | 0.8 | 4.8 | 2.9 |
| Lane County | 4.9 | 47.3 | 38.1 | 32.5 | 31.4 | 1.6 | 21.3 | 10.9 | 2.2 | 7.9 | 2.9 |
| Lincoln County | 4.2 | 46.7 | 35.5 | 49.4 | 12.6 | 1.8 | 22.7 | 10.2 | 3.2 | 5.7 | 2.8 |
| Linn County | 3.5 | 39.9 | 43.7 | 46.1 | 16.8 | 0.7 | 25.3 | 9.9 | 1.3 | 5.9 | 2.5 |
| Malheur County | 8.2 | 44.8 | 28.5 | 86.8 | 4.5 | 0.0 | 5.1 | 3.3 | 0.3 | 21.1 | 8.8 |
| Marion County | 12.6 | 53.0 | 25.5 | 69.4 | 13.0 | 0.6 | 12.2 | 3.5 | 1.3 | 19.5 | 11.1 |
| Morrow County | 14.5 | 51.6 | 17.1 | 93.0 | 3.6 | 0.0 | 2.1 | 1.1 | 0.2 | 23.3 | 13.6 |
| Multnomah County | 12.7 | 55.1 | 34.5 | 30.6 | 34.9 | 3.1 | 24.1 | 4.8 | 2.4 | 16.6 | 8.9 |
| Polk County | 6.5 | 47.0 | 30.5 | 60.5 | 13.2 | 1.1 | 16.6 | 7.7 | 0.9 | 10.0 | 5.0 |
| Sherman County | 2.5 | 52.1 | 14.6 | 77.1 | 12.5 | 0.0 | 10.4 | 0.0 | 0.0 | 8.0 | 2.9 |
| Tillamook County | 4.2 | 49.7 | 34.0 | 54.9 | 11.7 | 1.1 | 17.4 | 12.3 | 2.6 | 6.3 | 2.7 |
| Umatilla County | 8.4 | 43.6 | 26.9 | 84.8 | 6.8 | 0.2 | 4.2 | 3.6 | 0.4 | 16.2 | 7.8 |
| Union County | 2.7 | 49.8 | 35.9 | 28.1 | 26.0 | 2.1 | 16.5 | 13.9 | 13.4 | 4.5 | 1.6 |
| Wallowa County | 0.8 | 11.5 | 50.8 | 18.0 | 8.2 | 0.0 | 37.7 | 34.4 | 1.6 | 2.5 | 0.8 |
| Wasco County | 6.2 | 37.1 | 37.2 | 72.1 | 10.2 | 1.0 | 10.1 | 5.1 | 1.6 | 10.5 | 5.2 |
| Washington County | 14.2 | 53.1 | 32.1 | 42.9 | 37.6 | 1.4 | 12.9 | 4.3 | 0.9 | 18.6 | 9.2 |
| Wheeler County | 2.1 | 37.5 | 18.8 | 46.9 | 0.0 | 0.0 | 46.9 | 6.3 | 0.0 | 4.2 | 1.9 |
| Yamhill County | 7.6 | 54.7 | 26.2 | 76.2 | 7.9 | 0.1 | 9.7 | 5.6 | 0.4 | 11.2 | 5.6 |

But do we know how much capacity we have?

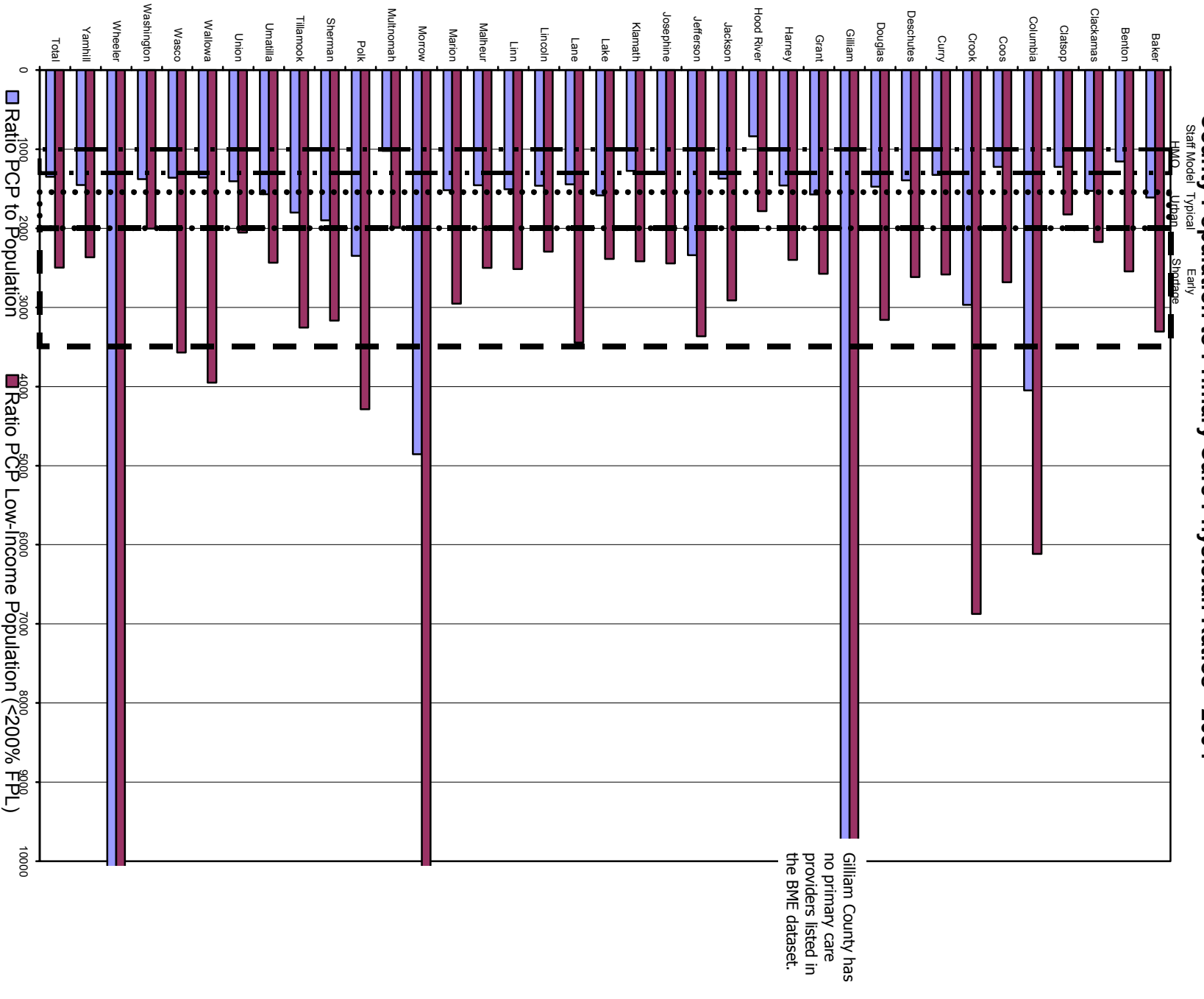
The descriptive data:

- Population to Primary Care Physician Ratio
- Population to Nurse Practitioner Ratios

Crude proxy for capacity.

Using survey data, the Office for Health Systems Planning develops estimates of primary care FTE for the general population and the low-income population. Based on imputation of self-reported time spent on direct patient care for both general population and low-income population.

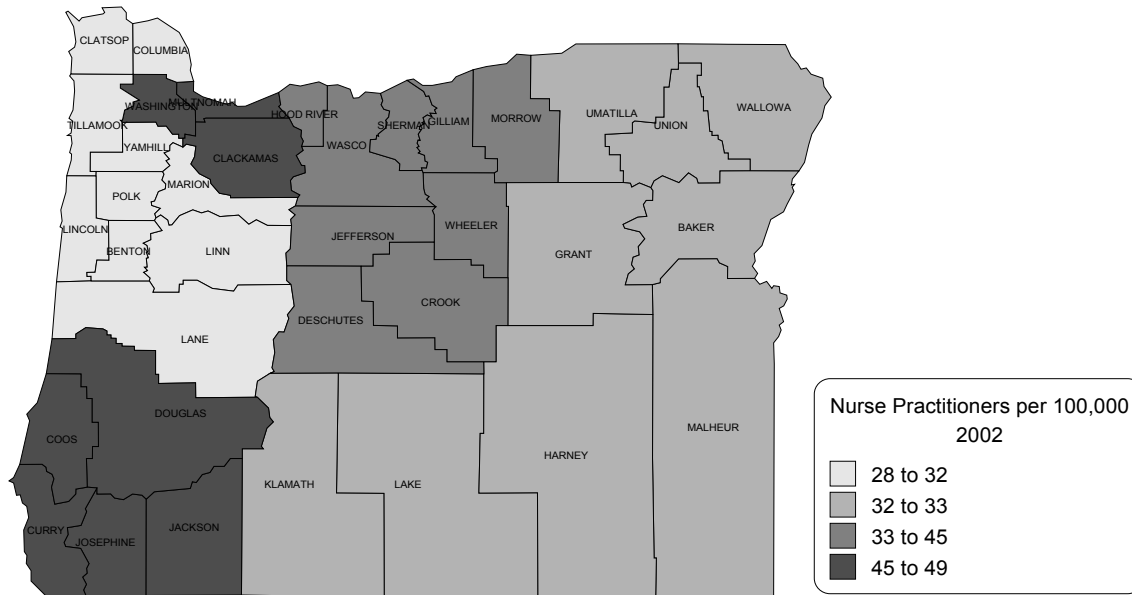
County Population to Primary Care Physician Ratios - 2004*



*Source: DHS Office of Health Systems Planning

**Staff-model HMO, normal demand, early shortage/stressed system, serious shortage ranges from Washington Office of Community and Rural Health.

Nurse Practitioners per 100,000*



Estimates less well defined for nurse practitioners. Do not know to what extent the available work force provides access to low-income and/or uninsured. Data show 19% with public or community clinic as their primary setting.

- Estimated number of practicing NPs per 100,000 Oregonians: 39.9
- Estimated number of practicing NPs per 100,000 Oregon residents living in urban areas: 43.1
- Estimated number of practicing NPs per 100,000 Oregon residents living in rural areas: 30.8

*Nurse Practitioner Workforce 2002: A Sourcebook, Oregon Health & Science University, Area Health Education Centers Program, Oregon Health Workforce Project.

Capacity: The Data

Capacity: Health Care Delivery System

| Area | Medicare Managed Care Penetration (%) | Primary Care Provider Supply per 100,000 | | | | Supply/Utilization per 1,000 | | | |
|-------------------|---------------------------------------|---|---|--|--------------------------------------|------------------------------|------------|-----------------------------|--|
| | | Primary Care Physician* FTE per 100,000 population 2004 | Primary Care Physician FTE per 100,000 Low-Income (<200% fpl) population 2004 | Population to PCP ratio for low-income population (<200% fpl) 2004 | Nurse Practitioners per 100,000 2002 | Inpatient Beds | Admissions | Emergency Department Visits | |
| Oregon | 36.2 | 74.2 | 40.0 | 460.2 | 39.9 | 1.86 | 95 | 280 | |
| Baker County | 1.1 | 62.1 | 30.2 | 3305.2 | 32.7 | 2.15 | 90 | 314 | |
| Benton County | 42.3 | 86.6 | 39.3 | 2546.3 | 28.7 | 1.90 | 95 | 231 | |
| Clackamas County | 55.3 | 65.5 | 46.0 | 2173.1 | 48.5 | 1.33 | 93 | 294 | |
| Clatsop County | 22.7 | 81.7 | 54.8 | 1825.1 | 27.7 | 1.75 | 99 | 559 | |
| Columbia County | 51.1 | 24.7 | 16.4 | 6115.4 | 27.7 | No Hosp | No Hosp | No Hosp | |
| Coos County | 0.8 | 81.7 | 37.3 | 2683.6 | 44.8 | 2.40 | 133 | 219 | |
| Crook County | 17.5 | 33.7 | 14.6 | 6875.5 | 33.2 | 1.68 | 55 | 320 | |
| Curry County | 5.5 | 75.5 | 38.7 | 2585.3 | 44.8 | 1.16 | 26 | 89 | |
| Deschutes County | 16.0 | 71.8 | 38.2 | 2617.8 | 33.2 | 2.00 | 109 | 276 | |
| Douglas County | 16.5 | 67.9 | 31.6 | 3159.6 | 44.8 | 2.69 | 95 | 297 | |
| Gilliam County | 1.4 | 0.0 | 0.0 | 10001 | 37.5 | No Hosp | No Hosp | No Hosp | |
| Grant County | 8.7 | 63.7 | 39.0 | 2574.7 | 32.7 | 2.73 | 61 | 410 | |
| Harney County | 11.2 | 68.5 | 41.7 | 2399.7 | 32.7 | 5.75 | 86 | 287 | |
| Hood River County | 2.0 | 119.7 | 56.0 | 1784.6 | 37.5 | 1.52 | 74 | 368 | |
| Jackson County | 31.6 | 72.8 | 34.3 | 2912.9 | 44.8 | 2.44 | 110 | 297 | |
| Jefferson County | 15.7 | 42.7 | 29.7 | 3364.5 | 33.2 | 2.02 | 47 | 343 | |
| Josephine County | 27.8 | 76.4 | 40.9 | 2445 | 44.8 | 0.95 | 89 | 379 | |
| Klamath County | 1.3 | 78.5 | 41.3 | 2418.8 | 31.7 | 2.15 | 108 | 248 | |
| Lake County | 2.8 | 63.1 | 41.9 | 2386.6 | 31.7 | 2.72 | 47 | 305 | |
| Lane County | 43.0 | 69.2 | 29.0 | 3445.2 | 28.7 | 1.67 | 87 | 256 | |
| Lincoln County | 3.1 | 68.4 | 43.6 | 2295.4 | 28.7 | 1.67 | 76 | 464 | |
| Linn County | 40.7 | 66.4 | 39.8 | 2514.5 | 28.7 | 1.09 | 59 | 324 | |
| Malheur County | 0.7 | 68.7 | 40.0 | 2500.2 | 32.7 | 2.42 | 122 | 606 | |
| Marion County | 46.2 | 65.9 | 33.9 | 2952.8 | 28.7 | 1.71 | 74 | 273 | |
| Morrow County | 1.5 | 20.6 | 8.5 | 11871.1 | 33.2 | 1.12 | 10 | 73 | |
| Multnomah County | 53.0 | 97.9 | 50.4 | 1985.7 | 48.5 | 2.90 | 144 | 315 | |
| Polk County | 43.5 | 42.6 | 23.3 | 4288.3 | 28.7 | 0.62 | 20 | 135 | |
| Sherman County | 1.9 | 52.6 | 31.6 | 3168.3 | 37.5 | No Hosp | No Hosp | No Hosp | |
| Tillamook County | 16.0 | 55.5 | 30.7 | 3255.4 | 27.7 | 1.25 | 57 | 372 | |
| Umatilla County | 2.7 | 63.7 | 41.0 | 2435.8 | 32.7 | 1.36 | 67 | 364 | |
| Union County | 4.6 | 71.1 | 48.7 | 2052.9 | 32.7 | 1.99 | 74 | 360 | |
| Wallowa County | 0.4 | 73.7 | 25.5 | 3950.2 | 32.7 | 3.26 | 88 | 319 | |
| Wasco County | 2.7 | 73.5 | 28.0 | 3568.9 | 37.5 | 2.14 | 123 | 586 | |
| Washington County | 51.6 | 72.6 | 49.9 | 2002.9 | 48.5 | 1.17 | 78 | 171 | |
| Wheeler County | 6.8 | 9.7 | 4.3 | 25626.9 | 37.5 | No Hosp | No Hosp | No Hosp | |
| Yamhill County | 44.8 | 68.8 | 42.3 | 2366.5 | 28.7 | 1.22 | 62 | 301 | |

*Primary care physicians include family practice, general practice, internal medicine, ob/gyn, and pediatrics.

Utilization and Capacity Data – The Gaps

Oregon Community Health Information Network (OCHIN) data: Unduplicated utilization and population demographics representing 70% FQHCs; 50% School based health clinics. Ability to determine appointment capacity and booking utilization for partner organizations.

Oregon Primary Care Association (OPCA): Comprehensive data for FQHCs. UDS data for utilization.

Department of Human Services School Based Health Clinic Program Office: Information about SBHC population and services offered.

Local Health Departments: Utilization data available at individual health departments.

Community Mental Health Centers: Comprehensive utilization data available through Oregon Mental Health and Addiction Services.

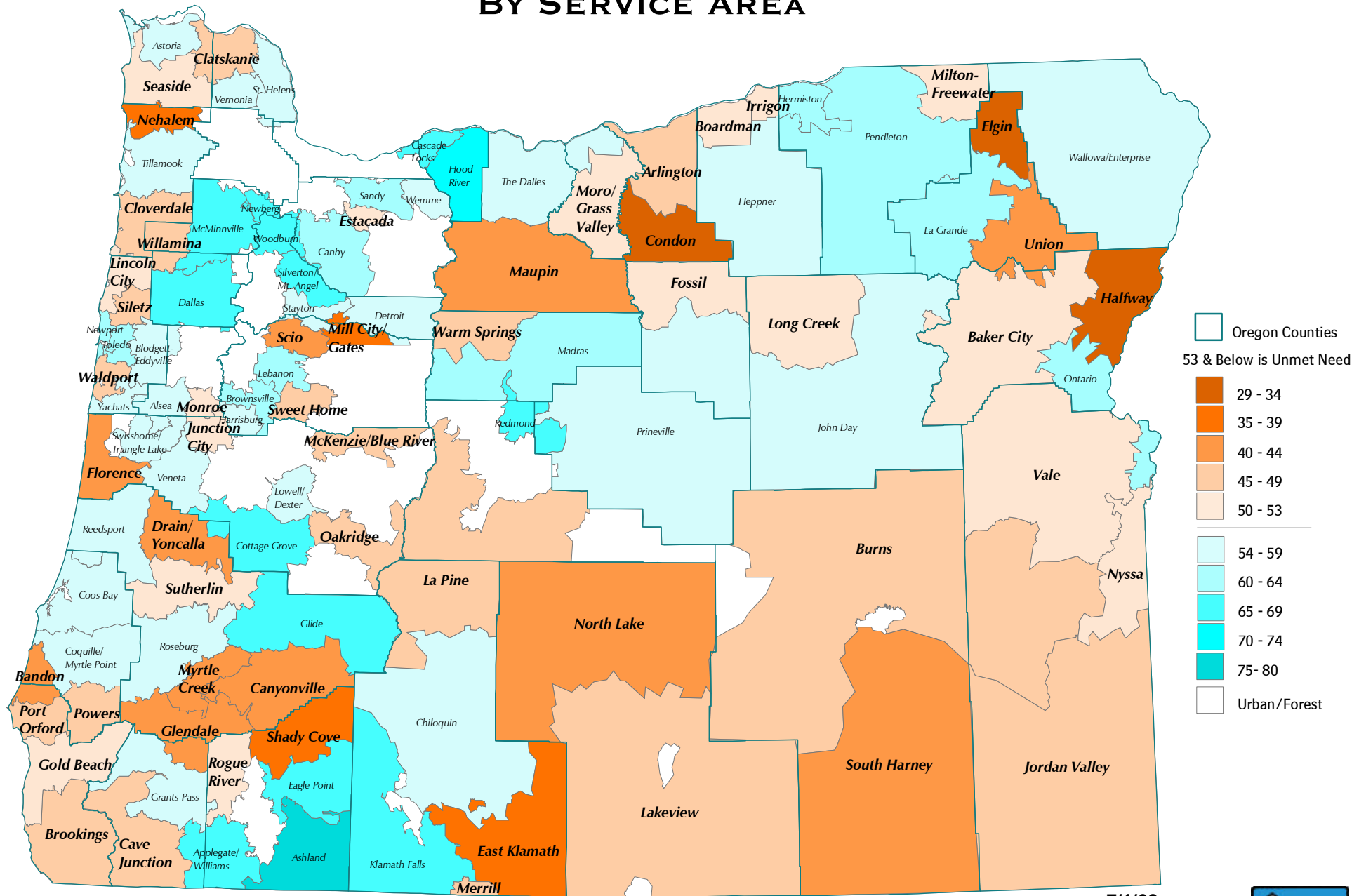
Inconsistent data about utilization of enabling services.

Very little data for Rural Health Clinics

No comprehensive source for data regarding financial stability of the safety net.

Office of Rural Health Primary Care Service Areas

2003-2004 OREGON RURAL UNMET HEALTHCARE NEED BY SERVICE AREA



0 50 100 Miles

7/1/03





GEOGRAPHY

County: Tillamook

Major Town: Tillamook

Zip Codes: 97107, 97118, 97134, 97136, 97141, 97143

Major Geographic Features: Mountains: 1,600 feet; Bay; Ocean; Five rivers

Elevation: 22

TRANSPORTATION

Miles from Tillamook to: _____
TYPE OF ROAD

Nearest Larger Town: Lincoln City

39 — Primary

County Seat: Tillamook

0 — n/a

Nearest Hospital: Tillamook

0 — n/a

Special Transportation Barriers: Mountains, Traffic congestion due to tourists

Systems: Tillamook County Transportation; Dial-a-ride for seniors and disabled

WEATHER

Climate Zone: The Coast, Coastal Range

Average Temperature (Winter): 42

Average Temperature (Summer): 58

DEMOGRAPHY (Claritas)

| | <u>Population</u> | <u>% Change</u> |
|------|-------------------|-----------------|
| 1980 | 15,463 | n/a |
| 1990 | 15,389 | -0.5% |
| 2003 | 17,794 | 15.6% |
| 2008 | 18,627 | 4.7% |

CHANGE FROM 1990 TO 2003

| <u>Age</u> | <u>1990 Pop.</u> | <u>2003 Pop.</u> | <u>% Change</u> |
|------------|------------------|------------------|-----------------|
| 0-14 | 3,145 | 3,146 | 0.0% |
| 15-44 | 5,794 | 6,419 | 10.8% |
| 45-64 | 3,419 | 4,881 | 42.8% |
| 65+ | 3,031 | 3,348 | 10.5% |
| Total | 15,389 | 17,794 | 15.6% |

DEMOGRAPHY (continued)

| 2003 POPULATION BREAKDOWN BY AGE | | | | | | | |
|----------------------------------|--------------|--------------|---------------|------------------|------------------|------------------|---------------|
| Age | Service Area | | | OREGON | | | |
| | Male | Female | Total | Male | Female | Total | Percent |
| 0-14 | 1,667 | 1,479 | 3,146 | 363,040 | 348,843 | 711,883 | 20.0% |
| 15-20 | 812 | 718 | 1,530 | 153,386 | 144,820 | 298,206 | 8.4% |
| 21-24 | 431 | 312 | 743 | 101,666 | 93,896 | 195,562 | 5.5% |
| 25-34 | 999 | 830 | 1,829 | 244,262 | 228,094 | 472,356 | 13.3% |
| 35-44 | 1,211 | 1,106 | 2,317 | 257,420 | 253,150 | 510,570 | 14.4% |
| 45-64 | 2,425 | 2,456 | 4,881 | 446,250 | 458,783 | 905,033 | 25.5% |
| 65-74 | 837 | 887 | 1,724 | 103,199 | 118,661 | 221,860 | 6.2% |
| 75-84 | 545 | 648 | 1,193 | 69,188 | 98,915 | 168,103 | 4.7% |
| 85+ | 136 | 295 | 431 | 22,871 | 48,565 | 71,436 | 2.0% |
| Total | 9,063 | 8,731 | 17,794 | 1,761,282 | 1,793,727 | 3,555,009 | 100.0% |

OTHER POPULATION CHARACTERISTICS (2003)

| | <u>Service Area</u> | <u>Oregon</u> |
|--|---------------------|---------------|
| Hispanic (all, including other and 2 or more, races) | 6.7% | 8.6% |
| Asian/Pacific Islander only (non-Hispanic) | 0.9% | 3.3% |
| African-American only (non-Hispanic) | 0.3% | 1.6% |
| Native American only (non-Hispanic) | 1.3% | 1.2% |
| Other, including 2 or more races (non-Hispanic) | 1.8% | 2.6% |
| Average Household Size | 2.3 | 2.5 |
| Median Age | 44.8 | 40.0 |

SOCIOECONOMICS (2000 Census)

| | <u>Service Area</u> | <u>County</u> | <u>Oregon</u> |
|--|---------------------|---------------|---------------|
| Percent of Population below Poverty Level (\$14,675 per year for family of 3 in 2003) | 12.0% | 11.4% | 11.6% |
| Percent of Population below 200% of Poverty Level | 35.6% | 34.5% | 29.6% |
| Single Moms w/Children as Percent of Families: | 7.7% | 6.7% | 9.0% |
| Percent Renter-Occupied Units | 31.8% | 28.1% | 35.7% |
| Percent of Population 16-64 with Disability and: Unable to Work | 21.9% | 23.2% | 17.4% |
| | 39.5% | 40.3% | 42.7% |
| Percent of Households receiving Public Assistance: | 3.4% | 7.5% | 3.6% |
| Percent of Population 25 and Over without High School Diploma | 15.9% | 15.9% | 14.9% |
| Percent Population Over 5 who Speak English Less than "very well" | 2.8% | 2.7% | 5.9% |
| Median Household Income in 1999 | \$30,405 | \$34,269 | \$37,938 |

SOCIOECONOMICS (various)

| | <u>County</u> | <u>Oregon</u> |
|--|---------------|---------------|
| Receiving Temporary Assistance for Needy Families (4/03) | 1.0% | 1.2% |
| Medicaid Eligibles (5/03) | 11.4% | 11.8% |
| Children Eligible for Free/Reduced Lunch (03-04 School Yr) | 47.5% | 40.6% |
| Receiving Food Stamps (4/03) | 10.2% | 11.7% |
| Government Employees as % of Total Employment (4/03) | 23.9% | 17.8% |
| Without Health Insurance (2002) | 12.9% | 14.0% |

| | |
|-----------------------------------|----------|
| County Per Capita Income, 2002 | \$25,734 |
| Rank Among All Oregon Counties | 10 of 36 |
| County Median Family Income, 2004 | \$48,500 |
| Rank Among All Oregon Counties | 20 of 36 |

AVERAGE ANNUAL UNEMPLOYMENT RATES

| | <u>County</u> | <u>Oregon</u> | <u>U.S.</u> |
|------|---------------|---------------|-------------|
| 1990 | 5.9% | 5.5% | 5.6% |
| 2000 | 4.4% | 4.9% | 4% |
| 2003 | 6.6% | 8.2% | 6% |

VITAL STATISTICS (Health Division)

| Maternity Characteristics | 1998-2002 (Average per year--rates are per 1000 births) | | | | | | |
|-------------------------------|--|-------|-------|-------|-------|-----------|-------|
| | TOTAL | Race | | | | Ethnicity | |
| | | White | Black | NaAm | Asian | | Other |
| Total Average Births | 175 | 169 | 1 | 3 | 2 | 0 | 27 |
| Low Birth Weight Rate | 55.9 | 56.7 | 0.0 | 0.0 | 90.9 | 0.0 | 30.1 |
| Inadequate Prenatal Care Rate | 38.8 | 36.6 | 0.0 | 133.3 | 90.9 | | 60.2 |
| Infant/Mortality Rate | 8.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| Teen Birth Rate | 146.0 | 146 | 0 | 200 | 91 | | 180 |
| Total Average Births | 45,343 | 41268 | 948 | 755 | 2225 | 21 | 7350 |
| Low Birth Weight Rate | 55.6 | 53.8 | 102.5 | 67.6 | 61.3 | | 55.4 |
| Inadequate Prenatal Care Rate | 53.1 | 51.4 | 63.9 | 113.4 | 54.8 | | 91.2 |
| Infant/Mortality Rate | 5.6 | 5.5 | 11.8 | 8.7 | 2.5 | | 6.0 |
| Teen Birth Rate | 112 | 111 | 189 | 202 | 30 | | 162 |

VITAL STATISTICS (Health Division--continued)

MORTALITY FIGURES (rates are per 100,000 persons)

CAUSE-SPECIFIC DEATH RATES (Average per year 99-02):

| | Service Area | OR | TOP 10 CAUSES OF DEATH IN COUNTY (2002): |
|-----------------------------------|--------------|-------|---|
| Heart Disease: | 276.8 | 201.7 | 1. Heart Disease |
| Cancer: | 247.3 | 198.4 | 2. Cancer |
| Cerebrovascular Disease | 91.3 | 74.7 | 3. Chronic Lower Respiratory Disease |
| Chronic Lower Respiratory Disease | 102.6 | 49.5 | 4. Unintended Injuries |
| Unintended Injuries: | 47.8 | 35.1 | 5. Cerebrovascular Disease |
| Alzheimers: | 22.5 | 27.7 | 6. Diabetes Mellitus |
| Diabetes: | 37.9 | 26.5 | 7. Alzheimer's Disease |
| Flu and Pneumonia: | 19.7 | 18.0 | 8. Alcohol Induced |
| Suicide: | 16.9 | 14.4 | 9. Hypertension |
| Alcohol Induced: | 22.5 | 11.0 | 10. Flu and Pneumonia |

| | Service Area | County | Oregon |
|--|--------------|--------|--------|
| Age-adjusted Death Rate, (Average per year 99-01) | 866.4 | 839.5 | 834.7 |
| Comparative Mortality Figure, (Average per year 99-01) | 1.3 | 1.4 | 1.0 |
| Years of Life Lost Index, (Average per year 99-01) | 1.2 | 1.2 | 1.0 |

Percent of Preventable Hospitalizations (00-02):
(COMPdata) 7.24% 4.82%

HEALTH RISK FACTORS (1997, 2000-2001 BRFSS)

| | County 97 | County 01 | Oregon 01 |
|---|-----------|-----------|-----------|
| % of Adults who Currently Smoke Cigarettes | 20% | 23% | 21% |
| % of Adults who Meet Recommended Activity Levels | 42% | 50% | 40% |
| % of Adults Overweight | 40% | 40% | 37% |
| % of Adults Obese | 20% | 20% | 20% |
| % of Adults who Eat 5 Fruits and Vegetables Daily | 34% | 27% | 25% |
| Had Cholesterol Check Within 5 Yrs (18+ yrs old) | 75% | 92% | 92% |
| Had Mammogram Within Past 2 Yrs (F 40+ only) | 70% | 75% | 85% |
| Had PAP Test Within Past 3 Yrs (F 18+ only) | 73% | 73% | 85% |

HEALTH CARE RESOURCES PRACTITIONERS IN SERVICE AREA

| Primary Care Practitioners | Licensed |
|-----------------------------|------------|
| Family Practitioners | 6 |
| General Practitioners | 0 |
| Obstetricians/Gynecologists | 2 |
| General Internists | 5 |
| Pediatricians | 0 |
| Specialists | |
| General Surgeons | 3 |
| Other Surgeons | 0 |
| Other Practitioners | |
| Certified Nurse Midwives | 0 |
| Nurse Practitioners | 5 |
| Dentists | 10 |
| Physician Assistants | 0 |
| Registered Nurses | 119 |
| Pharmacists | 9 |
| Dental Hygienists | 7 |
| Chiropractors | 4 |
| Naturopaths | 0 |
| Direct Entry Midwife | 0 |
| Optometrists | 7 |
| Nurse Anesthetists | 1 |
| School Guidance Counselors | 5 |
| Psychiatrists | 1 |
| Psychologists | 3 |
| Licensed Social Worker | 9 |
| Family Counselor | 3 |
| Drug/Alcohol Counselor | 7 |
| Total Practitioners | 206 |

SUPPLY AND DEMAND FOR PRIMARY CARE VISITS IN SERVICE AREA

Number of Persons Per Primary Care Provider: 1,369

Number of Visits Accommodated by:

| | |
|--------------------------|--------|
| Primary Care Physicians: | 53,450 |
| PA/NP: | 12,750 |
| Total: | 66,200 |

Number of Primary Care Visits Needed by 2003 Population: 49,727

HEALTH CARE RESOURCES (continued)

| CLINICS IN SERVICE AREA | <u>Number</u> |
|--|---------------|
| Rural Health Clinics (RHC): | 1 |
| Federally Qualified Health Clinics (FQHC): | 2 |
| School-Based Clinics: | 0 |

HOSPITALS IN SERVICE AREA (2001)

| | |
|------------------------|-----------------------------------|
| Name: | Tillamook County General Hospital |
| # of Staffed Beds: | 30 |
| Type: | A |
| Trauma Designation: | Level III |
| Other Designation: | |
| % Medicare Discharges: | 51.6 |
| % Medicaid Discharges: | 8.2 |
| Net Patient Revenue: | \$24,814,865 |
| # of Employees : | 227 |

DESIGNATIONS OF SHORTAGE BY SERVICE AREA

| Health Professional Shortage Area (HPSA) | |
|--|-----|
| 1. Geographic | No |
| 2. Population | Yes |
| 3. Mental Health | Yes |
| 4. Dental | Yes |
| Medically Underserved Area (MUA) | Yes |
| Population (MUP) | No |
| Office of Rural Health Unmet Need Area | No |

This report has been prepared by the Oregon Office of Rural Health at Oregon Health and Science University.

Printed on 6/7/2004

Additional information, maps, and lists are available at:

[www.ohsu.edu/oregonruralhealth/what is rural.html](http://www.ohsu.edu/oregonruralhealth/what%20is%20rural.html)

For questions, comments, or sources, please contact Emerson Ong at: ong@ohsu.edu



GEOGRAPHY

County: Crook

Major Town: Prineville

Zip Codes: 97750, 97751, 97752, 97754

Major Geographic Features: Mountains: 6,900 feet; Two rivers; Lake; Two reservoirs

Elevation: 2952

TRANSPORTATION

TYPE OF ROAD

| | |
|------------------------------|--------------|
| Miles from Prineville to: | |
| Nearest Larger Town: Redmond | 19 — Primary |
| County Seat: Prineville | 0 — n/a |
| Nearest Hospital: Prineville | 0 — n/a |

Special Transportation Barriers: Mountains, Gravel Roads, Unimproved Roads

Systems: Amtrak; Greyhound; dial-a-ride for seniors and disabled and fixed bus route to Bend

WEATHER

Climate Zone: The Cascades, The Northeastern Highlands

Average Temperature (Winter): 32

Average Temperature (Summer): 65

DEMOGRAPHY (Claritas)

| | <u>Population</u> | <u>% Change</u> |
|------|-------------------|-----------------|
| 1980 | 11,742 | n/a |
| 1990 | 13,388 | 14.0% |
| 2003 | 19,129 | 42.9% |
| 2008 | 21,316 | 11.4% |

CHANGE FROM 1990 TO 2003

| <u>Age</u> | <u>1990 Pop.</u> | <u>2003 Pop.</u> | <u>% Change</u> |
|------------|------------------|------------------|-----------------|
| 0-14 | 3,052 | 4,020 | 31.7% |
| 15-44 | 5,453 | 7,209 | 32.2% |
| 45-64 | 2,700 | 4,902 | 81.6% |
| 65+ | 2,183 | 2,998 | 37.3% |
| Total | 13,388 | 19,129 | 42.9% |

DEMOGRAPHY (continued)

| 2003 POPULATION BREAKDOWN BY AGE | | | | OREGON | | | |
|---|---------------------|---------------|---------------|------------------|------------------|------------------|----------------|
| Age | Service Area | | | OREGON | | | |
| | Male | Female | Total | Male | Female | Total | Percent |
| 0-14 | 2,042 | 1,978 | 4,020 | 363,040 | 348,843 | 711,883 | 20.0% |
| 15-20 | 1,002 | 791 | 1,793 | 153,386 | 144,820 | 298,206 | 8.4% |
| 21-24 | 455 | 403 | 858 | 101,666 | 93,896 | 195,562 | 5.5% |
| 25-34 | 1,056 | 1,053 | 2,109 | 244,262 | 228,094 | 472,356 | 13.3% |
| 35-44 | 1,199 | 1,250 | 2,449 | 257,420 | 253,150 | 510,570 | 14.4% |
| 45-64 | 2,480 | 2,422 | 4,902 | 446,250 | 458,783 | 905,033 | 25.5% |
| 65-74 | 752 | 846 | 1,598 | 103,199 | 118,661 | 221,860 | 6.2% |
| 75-84 | 443 | 553 | 996 | 69,188 | 98,915 | 168,103 | 4.7% |
| 85+ | 143 | 261 | 404 | 22,871 | 48,565 | 71,436 | 2.0% |
| Total | 9,572 | 9,557 | 19,129 | 1,761,282 | 1,793,727 | 3,555,009 | 100.0% |

OTHER POPULATION CHARACTERISTICS (2003)

| | <u>Service Area</u> | <u>Oregon</u> |
|--|---------------------|---------------|
| Hispanic (all, including other and 2 or more, races) | 6.2% | 8.6% |
| Asian/Pacific Islander only (non-Hispanic) | 0.5% | 3.3% |
| African-American only (non-Hispanic) | 0.1% | 1.6% |
| Native American only (non-Hispanic) | 1.2% | 1.2% |
| Other, including 2 or more races (non-Hispanic) | 1.3% | 2.6% |
| Average Household Size | 2.6 | 2.5 |
| Median Age | 40.8 | 40.0 |

SOCIOECONOMICS (2000 Census)

| | <u>Service Area</u> | <u>County</u> | <u>Oregon</u> |
|--|---------------------|---------------|---------------|
| Percent of Population below Poverty Level | 12.1% | 11.3% | 11.6% |
| (\$14,675 per year for family of 3 in 2003) | | | |
| Percent of Population below 200% of Poverty Level | 38.6% | 35.7% | 29.6% |
| Single Moms w/Children as Percent of Families: | 7.4% | 6.9% | 9.0% |
| Percent Renter-Occupied Units | 27.5% | 25.8% | 35.7% |
| Percent of Population 16-64 with Disability and: Unable to Work | 21.7% | 21.0% | 17.4% |
| | 47.0% | 45.6% | 42.7% |
| Percent of Households receiving Public Assistance: | 4.9% | 15.0% | 3.6% |
| Percent of Population 25 and Over without High School Diploma | 21.1% | 19.5% | 14.9% |
| Percent Population Over 5 who Speak English Less than "very well" | 2.9% | 2.8% | 5.9% |
| Median Household Income in 1999 | \$32,297 | \$35,186 | \$37,938 |

SOCIOECONOMICS (various)

| | <u>County</u> | <u>Oregon</u> |
|--|---------------|---------------|
| Receiving Temporary Assistance for Needy Families (4/03) | 0.7% | 1.2% |
| Medicaid Eligibles (5/03) | 13.2% | 11.8% |
| Children Eligible for Free/Reduced Lunch (03-04 School Yr) | 48.4% | 40.6% |
| Receiving Food Stamps (4/03) | 12.9% | 11.7% |
| Government Employees as % of Total Employment (4/03) | 20.1% | 17.8% |
| Without Health Insurance (2002) | 14.5% | 14.0% |

County Per Capita Income, 2002 \$21,859
Rank Among All Oregon Counties 28 of 36

County Median Family Income, 2004 \$47,900
Rank Among All Oregon Counties 21 of 36

AVERAGE ANNUAL UNEMPLOYMENT RATES

| | <u>County</u> | <u>Oregon</u> | <u>U.S.</u> |
|------|---------------|---------------|-------------|
| 1990 | 7% | 5.5% | 5.6% |
| 2000 | 8.4% | 4.9% | 4% |
| 2003 | 10.8% | 8.2% | 6% |

VITAL STATISTICS (Health Division)

| Maternity Characteristics | 1998-2002 (Average per year--rates are per 1000 births) | | | | | | |
|-------------------------------|--|-------|-------|-------|-------|-----------|-------|
| | TOTAL | Race | | | | Ethnicity | |
| | | White | Black | NaAm | Asian | | Other |
| Total Average Births | 213 | 206 | 0 | 6 | 1 | 0 | 20 |
| Low Birth Weight Rate | 63.9 | 64.2 | 0.0 | 66.7 | 0.0 | 0.0 | 81.6 |
| Inadequate Prenatal Care Rate | 25.4 | 26.3 | 0.0 | 0.0 | 0.0 | | 40.8 |
| Infant/Mortality Rate | 11.3 | 11.7 | 0.0 | 0.0 | 0.0 | 0 | 20.4 |
| Teen Birth Rate | 151.3 | 151 | 0 | 200 | 0 | | 184 |
| Total Average Births | 45,343 | 41268 | 948 | 755 | 2225 | 21 | 7350 |
| Low Birth Weight Rate | 55.6 | 53.8 | 102.5 | 67.6 | 61.3 | | 55.4 |
| Inadequate Prenatal Care Rate | 53.1 | 51.4 | 63.9 | 113.4 | 54.8 | | 91.2 |
| Infant/Mortality Rate | 5.6 | 5.5 | 11.8 | 8.7 | 2.5 | | 6.0 |
| Teen Birth Rate | 112 | 111 | 189 | 202 | 30 | | 162 |

VITAL STATISTICS (Health Division--continued)

MORTALITY FIGURES (rates are per 100,000 persons)

CAUSE-SPECIFIC DEATH RATES (Average per year 99-02):

| | Service Area | OR | TOP 10 CAUSES OF DEATH IN COUNTY (2002): |
|-----------------------------------|--------------|-------|---|
| Heart Disease: | 241.8 | 201.7 | 1. Heart Disease |
| Cancer: | 205.2 | 198.4 | 2. Cancer |
| Cerebrovascular Disease | 54.9 | 74.7 | 3. Arteriosclerosis |
| Chronic Lower Respiratory Disease | 70.6 | 49.5 | 4. Chronic Lower Respiratory Disease |
| Unintended Injuries: | 36.6 | 35.1 | 5. Cerebrovascular Disease |
| Alzheimers: | 20.9 | 27.7 | 6. Unintended Injuries |
| Diabetes: | 24.8 | 26.5 | 7. Congenital Anomalies |
| Flu and Pneumonia: | 9.1 | 18.0 | 8. Diabetes Mellitus |
| Suicide: | 13.1 | 14.4 | 9. Hypertension |
| Alcohol Induced: | 6.5 | 11.0 | 10. Alzheimers |

| | Service Area | County | Oregon |
|--|--------------|--------|--------|
| Age-adjusted Death Rate, (Average per year 99-01) | 863.5 | 863.2 | 834.7 |
| Comparative Mortality Figure, (Average per year 99-01) | 1.1 | 1.1 | 1.0 |
| Years of Life Lost Index, (Average per year 99-01) | 1.2 | 1.2 | 1.0 |

Percent of Preventable Hospitalizations (00-02): (COMPdata) 6.73% 4.82%

HEALTH RISK FACTORS (1997, 2000-2001 BRFSS)

| | County 97 | County 01 | Oregon 01 |
|---|-----------|-----------|-----------|
| % of Adults who Currently Smoke Cigarettes | 29% | 23% | 21% |
| % of Adults who Meet Recommended Activity Levels | 26% | 46% | 40% |
| % of Adults Overweight | 41% | 41% | 37% |
| % of Adults Obese | 14% | 20% | 20% |
| % of Adults who Eat 5 Fruits and Vegetables Daily | 24% | 23% | 25% |
| Had Cholesterol Check Within 5 Yrs (18+ yrs old) | 64% | 88% | 92% |
| Had Mammogram Within Past 2 Yrs (F 40+ only) | 62% | 78% | 85% |
| Had PAP Test Within Past 3 Yrs (F 18+ only) | 68% | 79% | 85% |

6/7/2004

Service Area: Prineville

HEALTH CARE RESOURCES PRACTITIONERS IN SERVICE AREA

| Primary Care Practitioners | Licensed |
|-----------------------------|----------|
| Family Practitioners | 9 |
| General Practitioners | 0 |
| Obstetricians/Gynecologists | 0 |
| General Internists | 1 |
| Pediatricians | 0 |
| Specialists | |
| General Surgeons | 2 |
| Other Surgeons | 0 |
| Other Practitioners | |
| Certified Nurse Midwives | 0 |
| Nurse Practitioners | 1 |
| Dentists | 6 |
| Physician Assistants | 3 |
| Registered Nurses | 81 |
| Pharmacists | 9 |
| Dental Hygienists | 6 |
| Chiropractors | 4 |
| Naturopaths | 0 |
| Direct Entry Midwife | 0 |
| Optometrists | 0 |
| Nurse Anesthetists | 3 |
| School Guidance Counselors | 5 |
| Psychiatrists | 0 |
| Psychologists | 0 |
| Licensed Social Worker | 1 |
| Family Counselor | 0 |
| Drug/Alcohol Counselor | 7 |
| Total Practitioners | 138 |

SUPPLY AND DEMAND FOR PRIMARY CARE VISITS IN SERVICE AREA

Number of Persons Per Primary Care Provider: 1,913

Number of Visits Accommodated by:

| | |
|--------------------------|---------------|
| Primary Care Physicians: | 47,350 |
| PA/NP: | <u>10,200</u> |
| Total: | 57,550 |

Number of Primary Care Visits Needed by 2003 Population: 50,968

HEALTH CARE RESOURCES (continued)

CLINICS IN SERVICE AREA

Number

| | |
|--|---|
| Rural Health Clinics (RHC): | |
| Federally Qualified Health Clinics (FQHC): | 1 |
| School-Based Clinics: | 0 |

HOSPITALS IN SERVICE AREA (2001)

| | |
|------------------------|--------------------------------------|
| Name: | Pioneer Memorial Hospital Prineville |
| # of Staffed Beds: | 35 |
| Type: | CAH |
| Trauma Designation: | Level IV |
| Other Designation: | |
| % Medicare Discharges: | 33.4 |
| % Medicaid Discharges: | 17.4 |
| Net Patient Revenue: | \$11,742,183 |
| # of Employees : | 117 |

DESIGNATIONS OF SHORTAGE BY SERVICE AREA

Health Professional Shortage Area (HPSA)

| | |
|--|-----|
| 1. Geographic | No |
| 2. Population | Yes |
| 3. Mental Health | Yes |
| 4. Dental | No |
| Medically Underserved Area (MUA) | Yes |
| Population (MUP) | No |
| Office of Rural Health Unmet Need Area | No |

This report has been prepared by the Oregon Office of Rural Health at Oregon Health and Science University.

Printed on 6/7/2004

Additional information, maps, and lists are available at:

[www.ohsu.edu/oregonruralhealth/what is rural.html](http://www.ohsu.edu/oregonruralhealth/what%20is%20rural.html)

For questions, comments, or sources, please contact Emerson Ong at: ong@ohsu.edu

**OREGON
OFFICE OF
RURAL HEALTH**



GEOGRAPHY

County: Baker

Major Town: Halfway

Zip Codes: 97834, 97840, 97870

Major Geographic Features: Mountains: 6,300 feet; Two Rivers; Lake; Flats

Elevation: 2660

TRANSPORTATION

Miles from Halfway to: _____
TYPE OF ROAD

Nearest Larger Town: Baker City 56 — Primary

County Seat: Baker City 56 — Primary

Nearest Hospital: Baker City 56 — Primary

Special Transportation Barriers: Mountains, Gravel Roads, Snow & Ice

Systems: Limited to fixed bus route between Halfway and Baker City for seniors only

WEATHER

Climate Zone: The Northeastern Highlands

Average Temperature (Winter): 25

Average Temperature (Summer): 67

DEMOGRAPHY (Claritas)

| | <u>Population</u> | <u>% Change</u> |
|------|-------------------|-----------------|
| 1980 | 1,855 | n/a |
| 1990 | 1,769 | -4.6% |
| 2003 | 1,859 | 5.1% |
| 2008 | 1,866 | 0.4% |

CHANGE FROM 1990 TO 2003

| <u>Age</u> | <u>1990 Pop.</u> | <u>2003 Pop.</u> | <u>% Change</u> |
|------------|------------------|------------------|-----------------|
| 0-14 | 387 | 270 | -30.2% |
| 15-44 | 577 | 530 | -8.1% |
| 45-64 | 445 | 637 | 43.1% |
| 65+ | 360 | 422 | 17.2% |
| Total | 1,769 | 1,859 | 5.1% |

DEMOGRAPHY (continued)

| 2003 POPULATION BREAKDOWN BY AGE | | | | | | |
|----------------------------------|--------------|------------|--------------|------------------|------------------|------------------|
| Age | Service Area | | | OREGON | | |
| | Male | Female | Total | Male | Female | Total |
| 0-14 | 138 | 132 | 270 | 363,040 | 348,843 | 711,883 |
| | | | | 14.5% | | 20.0% |
| 15-20 | 106 | 88 | 194 | 153,386 | 144,820 | 298,206 |
| | | | | 10.4% | | 8.4% |
| 21-24 | 29 | 24 | 53 | 101,666 | 93,896 | 195,562 |
| | | | | 2.9% | | 5.5% |
| 25-34 | 45 | 44 | 89 | 244,262 | 228,094 | 472,356 |
| | | | | 4.8% | | 13.3% |
| 35-44 | 90 | 104 | 194 | 257,420 | 253,150 | 510,570 |
| | | | | 10.4% | | 14.4% |
| 45-64 | 315 | 322 | 637 | 446,250 | 458,783 | 905,033 |
| | | | | 34.3% | | 25.5% |
| 65-74 | 110 | 95 | 205 | 103,199 | 118,661 | 221,860 |
| | | | | 11.0% | | 6.2% |
| 75-84 | 69 | 88 | 157 | 69,188 | 98,915 | 168,103 |
| | | | | 8.4% | | 4.7% |
| 85+ | 21 | 39 | 60 | 22,871 | 48,565 | 71,436 |
| | | | | 3.2% | | 2.0% |
| Total | 923 | 936 | 1,859 | 1,761,282 | 1,793,727 | 3,555,009 |
| | | | | 100.0% | | 100.0% |

OTHER POPULATION CHARACTERISTICS (2003)

| | <u>Service Area</u> | <u>Oregon</u> |
|--|---------------------|---------------|
| Hispanic (all, including other and 2 or more, races) | 1.7% | 8.6% |
| Asian/Pacific Islander only (non-Hispanic) | 0.2% | 3.3% |
| African-American only (non-Hispanic) | 0.1% | 1.6% |
| Native American only (non-Hispanic) | 1.6% | 1.2% |
| Other, including 2 or more races (non-Hispanic) | 1.2% | 2.6% |
| Average Household Size | 2.2 | 2.5 |
| Median Age | 49.1 | 40.0 |

SOCIOECONOMICS (2000 Census)

| | <u>Service Area</u> | <u>County</u> | <u>Oregon</u> |
|--|---------------------|---------------|---------------|
| Percent of Population below Poverty Level | 15.8% | 14.7% | 11.6% |
| (\$14,675 per year for family of 3 in 2003) | | | |
| Percent of Population below 200% of Poverty Level | 43.2% | 42.1% | 29.6% |
| Single Moms w/Children as Percent of Families: | 6.5% | 7.2% | 9.0% |
| Percent Renter-Occupied Units | 28.6% | 30.0% | 35.7% |
| Percent of Population 16-64 with Disability and: Unable to Work | 18.0% | 20.6% | 17.4% |
| Percent of Households receiving Public Assistance: | 52.1% | 52.8% | 42.7% |
| Percent of Population 25 and Over without High School Diploma | 4.0% | 7.2% | 3.6% |
| Percent Population Over 5 who Speak English Less than "very well" | 16.3% | 19.7% | 14.9% |
| Median Household Income in 1999 | 0.4% | 1.7% | 5.9% |
| | \$26,945 | \$30,367 | \$37,938 |

SOCIOECONOMICS (various)

| | <u>County</u> | <u>Oregon</u> |
|--|---------------|---------------|
| Receiving Temporary Assistance for Needy Families (4/03) | 1.4% | 1.2% |
| Medicaid Eligibles (5/03) | 13.2% | 11.8% |
| Children Eligible for Free/Reduced Lunch (03-04 School Yr) | 46.6% | 40.6% |
| Receiving Food Stamps (4/03) | 13.5% | 11.7% |
| Government Employees as % of Total Employment (4/03) | 25.3% | 17.8% |
| Without Health Insurance (2002) | 16.5% | 14.0% |

| | |
|-----------------------------------|----------|
| County Per Capita Income, 2002 | \$21,424 |
| Rank Among All Oregon Counties | 30 of 36 |
| County Median Family Income, 2004 | \$43,300 |
| Rank Among All Oregon Counties | 29 of 36 |

AVERAGE ANNUAL UNEMPLOYMENT RATES

| | <u>County</u> | <u>Oregon</u> | <u>U.S.</u> |
|------|---------------|---------------|-------------|
| 1990 | 7.4% | 5.5% | 5.6% |
| 2000 | 7.3% | 4.9% | 4% |
| 2003 | 9.5% | 8.2% | 6% |

VITAL STATISTICS (Health Division)

| Maternity Characteristics | 1998-2002 (Average per year--rates are per 1000 births) | | | | | | | |
|---------------------------|--|--------|-------|-------|-------|-------|-----------|----------|
| | TOTAL | Race | | | | | Ethnicity | |
| | | White | Black | NatAm | Asian | Other | | Hispanic |
| SES | Total Average Births | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
| RV | Low Birth Weight Rate | 23.3 | 23.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CE | Inadequate Prenatal Care Rate | 23.3 | 23.3 | 0.0 | 0.0 | 0.0 | | 0.0 |
| ARE | Infant Mortality Rate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| A | Teen Birth Rate | 162.8 | 163 | 0 | 0 | 0 | | 0 |
| OREGON | Total Average Births | 45,343 | 41268 | 948 | 755 | 2225 | 21 | 7350 |
| | Low Birth Weight Rate | 55.6 | 53.8 | 102.5 | 67.6 | 61.3 | | 55.4 |
| | Inadequate Prenatal Care Rate | 53.1 | 51.4 | 63.9 | 113.4 | 54.8 | | 91.2 |
| | Infant Mortality Rate | 5.6 | 5.5 | 11.8 | 8.7 | 2.5 | | 6.0 |
| | Teen Birth Rate | 112 | 111 | 189 | 202 | 30 | | 162 |

VITAL STATISTICS (Health Division--continued)

MORTALITY FIGURES (rates are per 100,000 persons)

CAUSE-SPECIFIC DEATH RATES (Average per year 99-02):

| | Service Area | | OR | TOP 10 CAUSES OF DEATH IN COUNTY (2002): |
|-----------------------------------|--------------|--------|----|--|
| | Halfway | County | | |
| Heart Disease: | 363.1 | 201.7 | | 1. Cancer |
| Cancer: | 242.1 | 198.4 | | 2. Heart Disease |
| Cerebrovascular Disease | 107.6 | 74.7 | | 3. Cerebrovascular Disease |
| Chronic Lower Respiratory Disease | 40.3 | 49.5 | | 4. Chronic Lower Respiratory Disease |
| Unintended Injuries: | 40.3 | 35.1 | | 5. Unintended Injuries |
| Alzheimers: | 13.4 | 27.7 | | 6. Influenza and Pneumonia |
| Diabetes: | 40.3 | 26.5 | | 7. Diabetes Mellitus |
| Flu and Pneumonia: | 26.9 | 18.0 | | 8. Alzheimers Disease |
| Suicide: | 53.8 | 14.4 | | 9. Alcohol Induced |
| Alcohol Induced: | 26.9 | 11.0 | | 10. Suicide |

| | Service Area | | |
|--|--------------|--------|--------|
| | Halfway | County | Oregon |
| Age-adjusted Death Rate, (Average per year 99-01) | 808.5 | 859.0 | 834.7 |
| Comparative Mortality Figure, (Average per year 99-01) | 1.5 | 1.5 | 1.0 |
| Years of Life Lost Index, (Average per year 99-01) | 0.8 | 1.4 | 1.0 |

Percent of Preventable Hospitalizations (00-02): (COMPrdata) 9.70% 4.82%

HEALTH RISK FACTORS (1997, 2000-2001 BRFSS)

| | County 97 | County 01 | Oregon 01 |
|---|-----------|-----------|-----------|
| % of Adults who Currently Smoke Cigarettes | 15% | 22% | 21% |
| % of Adults who Meet Recommended Activity Levels | 18% | 53% | 40% |
| % of Adults Overweight | 40% | 40% | 37% |
| % of Adults Obese | 16% | 20% | 20% |
| % of Adults who Eat 5 Fruits and Vegetables Daily | 20% | 18% | 25% |
| Had Cholesterol Check Within 5 Yrs (18+ yrs old) | 90% | 90% | 92% |
| Had Mammogram Within Past 2 Yrs (F 40+ only) | 73% | 84% | 85% |
| Had PAP Test Within Past 3 Yrs (F 18+ only) | 71% | 71% | 85% |

HEALTH CARE RESOURCES**PRACTITIONERS IN SERVICE AREA**

| Primary Care Practitioners | Licensed |
|-----------------------------|----------|
| Family Practitioners | 0 |
| General Practitioners | 0 |
| Obstetricians/Gynecologists | 0 |
| General Internists | 0 |
| Pediatricians | 0 |
| Specialists | |
| General Surgeons | 0 |
| Other Surgeons | 0 |
| Other Practitioners | |
| Certified Nurse Midwives | 0 |
| Nurse Practitioners | 2 |
| Dentists | 0 |
| Physician Assistants | 1 |
| Registered Nurses | 9 |
| Pharmacists | 0 |
| Dental Hygienists | 0 |
| Chiropractors | 1 |
| Naturopaths | 0 |
| Direct Entry Midwife | 0 |
| Optometrists | 0 |
| Nurse Anesthetists | 0 |
| School Guidance Counselors | 1 |
| Psychiatrists | 0 |
| Psychologists | 0 |
| Licensed Social Worker | 1 |
| Family Counselor | 0 |
| Drug/Alcohol Counselor | 0 |
| Total Practitioners | 15 |

SUPPLY AND DEMAND FOR PRIMARY CARE VISITS IN SERVICE AREA

Number of Persons Per Primary Care Provider: 0

Number of Visits Accommodated by:

Primary Care Physicians: 0

PA/NP: 7,650

Total: 7,650

Number of Primary Care Visits Needed by 2003 Population: 5,607

HEALTH CARE RESOURCES (continued)**CLINICS IN SERVICE AREA**Number

| | |
|--|---|
| Rural Health Clinics (RHC): | |
| Federally Qualified Health Clinics (FQHC): | 1 |
| School-Based Clinics: | 0 |

HOSPITALS IN SERVICE AREA (2001)

Name:
 # of Staffed Beds:
 Type:
 Trauma Designation:
 Other Designation:
 % Medicare Discharges:
 % Medicaid Discharges:
 Net Patient Revenue:
 # of Employees :

DESIGNATIONS OF SHORTAGE BY SERVICE AREA

Health Professional Shortage Area (HPSA)

- | | |
|------------------|-----|
| 1. Geographic | Yes |
| 2. Population | No |
| 3. Mental Health | Yes |
| 4. Dental | No |

| | |
|--|-----|
| Medically Underserved Area (MUA) | Yes |
| Population (MUP) | No |
| Office of Rural Health Unmet Need Area | Yes |

This report has been prepared by the Oregon Office of Rural Health at Oregon Health and Science University.

Printed on 6/7/2004

Additional information, maps, and lists are available at:
[www.ohsu.edu/oregonruralhealth/what is rural.html](http://www.ohsu.edu/oregonruralhealth/what%20is%20rural.html)

For questions, comments, or sources, please contact Emerson Ong at: ongem@ohsu.edu



GEOGRAPHY

County: Curry

Major Town: Brookings

Zip Codes: 97415

Major Geographic Features: Mountains: 4,700 feet; Three rivers; Ocean

Elevation: 129

TRANSPORTATION

Miles from Brookings to: TYPE OF ROAD

Nearest Larger Town: Gold Beach 29 — Primary

County Seat: Gold Beach 29 — Primary

Nearest Hospital: Gold Beach 29 — Primary

Special Transportation Barriers: Mountains, Fog, Gravel Roads

Systems: Greyhound; Limited to dial-a-ride for general public

WEATHER

Climate Zone: The Coast, Coastal Range

Average Temperature (Winter): 47

Average Temperature (Summer): 59

DEMOGRAPHY (Claritas)

| | <u>Population</u> | <u>% Change</u> |
|------|-------------------|-----------------|
| 1980 | 9,038 | n/a |
| 1990 | 11,665 | 29.1% |
| 2003 | 13,930 | 19.4% |
| 2008 | 14,880 | 6.8% |

CHANGE FROM 1990 TO 2003

| <u>Age</u> | <u>1990 Pop.</u> | <u>2003 Pop.</u> | <u>% Change</u> |
|------------|------------------|------------------|-----------------|
| 0-14 | 2,044 | 2,091 | 2.3% |
| 15-44 | 3,816 | 3,925 | 2.9% |
| 45-64 | 2,715 | 3,851 | 41.8% |
| 65+ | 3,090 | 4,063 | 31.5% |
| Total | 11,665 | 13,930 | 19.4% |

DEMOGRAPHY (continued)

| 2003 POPULATION BREAKDOWN BY AGE | | | | | OREGON | | | |
|----------------------------------|--------------|--------------|---------------|---------------|------------------|------------------|------------------|---------------|
| Age | Service Area | | | OREGON | | | | |
| | Male | Female | Total | Percent | Male | Female | Total | Percent |
| 0-14 | 1,091 | 1,000 | 2,091 | 15.0% | 363,040 | 348,843 | 711,883 | 20.0% |
| 15-20 | 448 | 436 | 884 | 6.3% | 153,386 | 144,820 | 298,206 | 8.4% |
| 21-24 | 245 | 233 | 478 | 3.4% | 101,666 | 93,896 | 195,562 | 5.5% |
| 25-34 | 521 | 536 | 1,057 | 7.6% | 244,262 | 228,094 | 472,356 | 13.3% |
| 35-44 | 760 | 746 | 1,506 | 10.8% | 257,420 | 253,150 | 510,570 | 14.4% |
| 45-64 | 1,804 | 2,047 | 3,851 | 27.6% | 446,250 | 458,783 | 905,033 | 25.5% |
| 65-74 | 1,011 | 1,005 | 2,016 | 14.5% | 103,199 | 118,661 | 221,860 | 6.2% |
| 75-84 | 706 | 829 | 1,535 | 11.0% | 69,188 | 98,915 | 168,103 | 4.7% |
| 85+ | 206 | 306 | 512 | 3.7% | 22,871 | 48,565 | 71,436 | 2.0% |
| Total | 6,792 | 7,138 | 13,930 | 100.0% | 1,761,282 | 1,793,727 | 3,555,009 | 100.0% |

OTHER POPULATION CHARACTERISTICS (2003)

| | <u>Service Area</u> | <u>Oregon</u> |
|--|---------------------|---------------|
| Hispanic (all, including other and 2 or more, races) | 4.2% | 8.6% |
| Asian/Pacific Islander only (non-Hispanic) | 0.9% | 3.3% |
| African-American only (non-Hispanic) | 0.2% | 1.6% |
| Native American only (non-Hispanic) | 2.2% | 1.2% |
| Other, including 2 or more races (non-Hispanic) | 2.8% | 2.6% |
| Average Household Size | 2.2 | 2.5 |
| Median Age | 49.7 | 40.0 |

SOCIOECONOMICS (2000 Census)

| | <u>Service Area</u> | <u>County</u> | <u>Oregon</u> |
|--|---------------------|---------------|---------------|
| Percent of Population below Poverty Level (\$14,675 per year for family of 3 in 2003) | 11.6% | 12.2% | 11.6% |
| Percent of Population below 200% of Poverty Level | 36.1% | 37.1% | 29.6% |
| Single Moms w/Children as Percent of Families: | 5.6% | 6.4% | 9.0% |
| Percent Renter-Occupied Units | 28.5% | 27.1% | 35.7% |
| Percent of Population 16-64 with Disability and: Unable to Work | 26.6% | 26.8% | 17.4% |
| | 40.8% | 42.7% | 42.7% |
| Percent of Households receiving Public Assistance: | 2.9% | 11.8% | 3.6% |
| Percent of Population 25 and Over without High School Diploma | 19.7% | 18.3% | 14.9% |
| Percent Population Over 5 who Speak English Less than "very well" | 0.8% | 1.1% | 5.9% |
| Median Household Income in 1999 | \$30,199 | \$30,117 | \$37,938 |

SOCIOECONOMICS (various)

| | <u>County</u> | <u>Oregon</u> |
|--|---------------|---------------|
| Receiving Temporary Assistance for Needy Families (4/03) | 1.2% | 1.2% |
| Medicaid Eligibles (5/03) | 12.2% | 11.8% |
| Children Eligible for Free/Reduced Lunch (03-04 School Yr) | 56.7% | 40.6% |
| Receiving Food Stamps (4/03) | 11.0% | 11.7% |
| Government Employees as % of Total Employment (4/03) | 20.5% | 17.8% |
| Without Health Insurance (2002) | 13.3% | 14.0% |

County Per Capita Income, 2002 \$24,679
Rank Among All Oregon Counties 17 of 36

County Median Family Income, 2004 \$42,300
Rank Among All Oregon Counties 34 of 36

AVERAGE ANNUAL UNEMPLOYMENT RATES

| | <u>County</u> | <u>Oregon</u> | <u>U.S.</u> |
|------|---------------|---------------|-------------|
| 1990 | 6.4% | 5.5% | 5.6% |
| 2000 | 6.3% | 4.9% | 4% |
| 2003 | 7.3% | 8.2% | 6% |

VITAL STATISTICS (Health Division)

| Maternity Characteristics | 1998-2002 (Average per year--rates are per 1000 births) | | | | | | |
|-------------------------------|--|-------|-------|-------|-------|-------|-----------|
| | TOTAL | Race | | | | | Ethnicity |
| | | White | Black | NaAm | Asian | Other | |
| Total Average Births | 104 | 99 | 0 | 3 | 2 | 0 | 10 |
| Low Birth Weight Rate | 48.1 | 48.6 | 0.0 | 0.0 | 125.0 | 0.0 | 20.8 |
| Inadequate Prenatal Care Rate | 92.3 | 89.1 | 0.0 | 235.3 | 0.0 | | 62.5 |
| Infant/Mortality Rate | 7.7 | 8.1 | 0.0 | 0.0 | 0.0 | 0 | 20.8 |
| Teen Birth Rate | 146.2 | 140 | 0 | 353 | 125 | | 146 |
| Total Average Births | 45,343 | 41268 | 948 | 755 | 2225 | 21 | 7350 |
| Low Birth Weight Rate | 55.6 | 53.8 | 102.5 | 67.6 | 61.3 | | 55.4 |
| Inadequate Prenatal Care Rate | 53.1 | 51.4 | 63.9 | 113.4 | 54.8 | | 91.2 |
| Infant/Mortality Rate | 5.6 | 5.5 | 11.8 | 8.7 | 2.5 | | 6.0 |
| Teen Birth Rate | 112 | 111 | 189 | 202 | 30 | | 162 |

VITAL STATISTICS (Health Division--continued)

MORTALITY FIGURES (rates are per 100,000 persons)

CAUSE-SPECIFIC DEATH RATES (Average per year 99-02):

| | Service Area | OR | TOP 10 CAUSES OF DEATH IN COUNTY (2002): |
|-----------------------------------|--------------|-------|---|
| Heart Disease: | 428.9 | 201.7 | 1. Cancer |
| Cancer: | 384.1 | 198.4 | 2. Heart Disease |
| Cerebrovascular Disease | 134.6 | 74.7 | 3. Cerebrovascular Disease |
| Chronic Lower Respiratory Disease | 82.6 | 49.5 | 4. Chronic Lower Respiratory Disease |
| Unintended Injuries: | 32.3 | 35.1 | 5. Alzheimers |
| Alzheimers: | 66.4 | 27.7 | 6. Unintended Injuries |
| Diabetes: | 50.3 | 26.5 | 7. Suicide |
| Flu and Pneumonia: | 30.5 | 18.0 | 8. Diabetes Mellitus |
| Suicide: | 32.3 | 14.4 | 9. Parkinson's Disease |
| Alcohol Induced: | 12.6 | 11.0 | 10. Flu and Pneumonia |

| | Service Area | County | Oregon |
|--|--------------|--------|--------|
| Age-adjusted Death Rate, (Average per year 99-01) | 833.4 | 871.8 | 834.7 |
| Comparative Mortality Figure, (Average per year 99-01) | 1.8 | 1.8 | 1.0 |
| Years of Life Lost Index, (Average per year 99-01) | 1.0 | 1.1 | 1.0 |

Percent of Preventable Hospitalizations (00-02):
(COMPdata) 4.78% 4.82%

HEALTH RISK FACTORS (1997, 2000-2001 BRFSS)

| | County 97 | County 01 | Oregon 01 |
|---|-----------|-----------|-----------|
| % of Adults who Currently Smoke Cigarettes | 21% | 20% | 21% |
| % of Adults who Meet Recommended Activity Levels | 16% | 48% | 40% |
| % of Adults Overweight | | 38% | 37% |
| % of Adults Obese | 15% | 24% | 20% |
| % of Adults who Eat 5 Fruits and Vegetables Daily | 36% | 29% | 25% |
| Had Cholesterol Check Within 5 Yrs (18+ yrs old) | 80% | 94% | 92% |
| Had Mammogram Within Past 2 Yrs (F 40+ only) | 69% | 76% | 85% |
| Had PAP Test Within Past 3 Yrs (F 18+ only) | 78% | 70% | 85% |

HEALTH CARE RESOURCES PRACTITIONERS IN SERVICE AREA

| Primary Care Practitioners | Licensed |
|-----------------------------|----------|
| Family Practitioners | 9 |
| General Practitioners | 0 |
| Obstetricians/Gynecologists | 0 |
| General Internists | 7 |
| Pediatricians | 0 |
| Specialists | |
| General Surgeons | 1 |
| Other Surgeons | 0 |
| Other Practitioners | |
| Certified Nurse Midwives | 0 |
| Nurse Practitioners | 7 |
| Dentists | 7 |
| Physician Assistants | 0 |
| Registered Nurses | 54 |
| Pharmacists | 8 |
| Dental Hygienists | 4 |
| Chiropractors | 5 |
| Naturopaths | 0 |
| Direct Entry Midwife | 0 |
| Optometrists | 2 |
| Nurse Anesthetists | 1 |
| School Guidance Counselors | 3 |
| Psychiatrists | 1 |
| Psychologists | 1 |
| Licensed Social Worker | 2 |
| Family Counselor | 1 |
| Drug/Alcohol Counselor | 4 |
| Total Practitioners | 117 |

SUPPLY AND DEMAND FOR PRIMARY CARE VISITS IN SERVICE AREA

Number of Persons Per Primary Care Provider: 871

Number of Visits Accommodated by:

| | |
|--------------------------|--------|
| Primary Care Physicians: | 66,850 |
| PA/NP: | 17,850 |
| Total: | 84,700 |

Number of Primary Care Visits Needed by 2003 Population: 44,634

HEALTH CARE RESOURCES (continued)

| CLINICS IN SERVICE AREA | <u>Number</u> |
|--|---------------|
| Rural Health Clinics (RHC): | 2 |
| Federally Qualified Health Clinics (FQHC): | 0 |
| School-Based Clinics: | 0 |

HOSPITALS IN SERVICE AREA (2001)

Name:
 # of Staffed Beds:
 Type:
 Trauma Designation:
 Other Designation:
 % Medicare Discharges:
 % Medicaid Discharges:
 Net Patient Revenue:
 # of Employees :

DESIGNATIONS OF SHORTAGE BY SERVICE AREA

| Health Professional Shortage Area (HPSA) | |
|--|-----|
| 1. Geographic | No |
| 2. Population | Yes |
| 3. Mental Health | Yes |
| 4. Dental | No |
| Medically Underserved Area (MUA) | Yes |
| Population (MUP) | No |
| Office of Rural Health Unmet Need Area | Yes |

This report has been prepared by the Oregon Office of Rural Health at Oregon Health and Science University.

Printed on 6/7/2004

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[www.ohsu.edu/oregonruralhealth/what is rural.html](http://www.ohsu.edu/oregonruralhealth/what%20is%20rural.html)

For questions, comments, or sources, please contact Emerson Ong at: ong@ohsu.edu



GEOGRAPHY

County: Klamath

Major Town: Klamath Falls

Zip Codes: 97601, 97603, 97625, 97627, 97634

Major Geographic Features: Mountains: 8,000 feet; Four lakes

Elevation: 4105

TRANSPORTATION

TYPE OF ROAD

Miles from Klamath Falls to: _____

Nearest Larger Town: Medford

76 — Primary

County Seat: Klamath Falls

0 — n/a

Nearest Hospital: Klamath Falls

0 — n/a

Special Transportation Barriers:

Systems: Amtrak and Greyhound; bus route to Lakeview on Red Ball Stage Lines; limited to dial-a-ride for seniors and disabled outside of Klamath Falls area

WEATHER

Climate Zone: The Cascades, High Plateau

Average Temperature (Winter): 21

Average Temperature (Summer): 82

DEMOGRAPHY (Claritas)

| | <u>Population</u> | <u>% Change</u> |
|------|-------------------|-----------------|
| 1980 | 47,841 | n/a |
| 1990 | 46,512 | -2.8% |
| 2003 | 52,888 | 13.7% |
| 2008 | 55,171 | 4.3% |

CHANGE FROM 1990 TO 2003

| <u>Age</u> | <u>1990 Pop.</u> | <u>2003 Pop.</u> | <u>% Change</u> |
|------------|------------------|------------------|-----------------|
| 0-14 | 10,086 | 11,027 | 9.3% |
| 15-44 | 20,564 | 20,713 | 0.7% |
| 45-64 | 9,106 | 13,329 | 46.4% |
| 65+ | 6,756 | 7,819 | 15.7% |
| Total | 46,512 | 52,888 | 13.7% |

DEMOGRAPHY (continued)

| 2003 POPULATION BREAKDOWN BY AGE | | | | | | | |
|---|---------------|---------------|---------------|------------------|------------------|------------------|---------------|
| Age | Service Area | | | OREGON | | | |
| | Male | Female | Total | Male | Female | Total | Percent |
| 0-14 | 5,668 | 5,359 | 11,027 | 363,040 | 348,843 | 711,883 | 20.0% |
| 15-20 | 2,549 | 2,175 | 4,724 | 153,386 | 144,820 | 298,206 | 8.4% |
| 21-24 | 1,456 | 1,371 | 2,827 | 101,666 | 93,896 | 195,562 | 5.5% |
| 25-34 | 3,209 | 3,109 | 6,318 | 244,262 | 228,094 | 472,356 | 13.3% |
| 35-44 | 3,366 | 3,478 | 6,844 | 257,420 | 253,150 | 510,570 | 14.4% |
| 45-64 | 6,626 | 6,703 | 13,329 | 446,250 | 458,783 | 905,033 | 25.5% |
| 65-74 | 1,806 | 2,037 | 3,843 | 103,199 | 118,661 | 221,860 | 6.2% |
| 75-84 | 1,224 | 1,610 | 2,834 | 69,188 | 98,915 | 168,103 | 4.7% |
| 85+ | 404 | 738 | 1,142 | 22,871 | 48,565 | 71,436 | 2.0% |
| Total | 26,308 | 26,580 | 52,888 | 1,761,282 | 1,793,727 | 3,555,009 | 100.0% |

OTHER POPULATION CHARACTERISTICS (2003)

| | <u>Service Area</u> | <u>Oregon</u> |
|--|---------------------|---------------|
| Hispanic (all, including other and 2 or more, races) | 7.8% | 8.6% |
| Asian/Pacific Islander only (non-Hispanic) | 1.0% | 3.3% |
| African-American only (non-Hispanic) | 0.6% | 1.6% |
| Native American only (non-Hispanic) | 3.3% | 1.2% |
| Other, including 2 or more races (non-Hispanic) | 2.8% | 2.6% |
| Average Household Size | 2.5 | 2.5 |
| Median Age | 38.8 | 40.0 |

SOCIOECONOMICS (2000 Census)

| | <u>Service Area</u> | <u>County</u> | <u>Oregon</u> |
|--|---------------------|---------------|---------------|
| Percent of Population below Poverty Level (\$14,675 per year for family of 3 in 2003) | 16.1% | 16.8% | 11.6% |
| Percent of Population below 200% of Poverty Level | 39.0% | 40.5% | 29.6% |
| Single Moms w/Children as Percent of Families: | 9.9% | 9.1% | 9.0% |
| Percent Renter-Occupied Units | 34.1% | 32.0% | 35.7% |
| Percent of Population 16-64 with Disability and: Unable to Work | 20.8% | 21.6% | 17.4% |
| | 46.5% | 49.5% | 42.7% |
| Percent of Households receiving Public Assistance: | 4.8% | 12.1% | 3.6% |
| Percent of Population 25 and Over without High School Diploma | 16.9% | 18.5% | 14.9% |
| Percent Population Over 5 who Speak English Less than "very well" | 3.0% | 3.4% | 5.9% |
| Median Household Income in 1999 | \$41,708 | \$31,537 | \$37,938 |

SOCIOECONOMICS (various)

| | <u>County</u> | <u>Oregon</u> |
|--|---------------|---------------|
| Receiving Temporary Assistance for Needy Families (4/03) | 0.8% | 1.2% |
| Medicaid Eligibles (5/03) | 16.3% | 11.8% |
| Children Eligible for Free/Reduced Lunch (03-04 School Yr) | 55.0% | 40.6% |
| Receiving Food Stamps (4/03) | 15.8% | 11.7% |
| Government Employees as % of Total Employment (4/03) | 26.2% | 17.8% |
| Without Health Insurance (2002) | 15.4% | 14.0% |

County Per Capita Income, 2002 \$23,002
 Rank Among All Oregon Counties 24 of 36

County Median Family Income, 2004 \$46,300
 Rank Among All Oregon Counties 24 of 36

AVERAGE ANNUAL UNEMPLOYMENT RATES

| | <u>County</u> | <u>Oregon</u> | <u>U.S.</u> |
|------|---------------|---------------|-------------|
| 1990 | 9.1% | 5.5% | 5.6% |
| 2000 | 8.1% | 4.9% | 4% |
| 2003 | 10.2% | 8.2% | 6% |

VITAL STATISTICS (Health Division)

| Maternity Characteristics | 1998-2002 (Average per year--rates are per 1000 births) | | | | | | |
|-------------------------------|--|-------|-------|-------|-------|-------|-----------|
| | TOTAL | Race | | | | | Ethnicity |
| | | White | Black | NaAm | Asian | Other | |
| Total Average Births | 686 | 637 | 7 | 32 | 9 | 1 | 83 |
| Low Birth Weight Rate | 56.0 | 53.4 | 114.3 | 81.3 | 44.4 | 0.0 | 45.6 |
| Inadequate Prenatal Care Rate | 48.1 | 43.3 | 28.6 | 143.8 | 66.7 | | 88.7 |
| Infant/Mortality Rate | 7.9 | 7.2 | 0.0 | 25.0 | 0.0 | 0 | 7.2 |
| Teen Birth Rate | 158.6 | 158 | 229 | 200 | 44 | | 201 |
| Total Average Births | 45,343 | 41268 | 948 | 755 | 2225 | 21 | 7350 |
| Low Birth Weight Rate | 55.6 | 53.8 | 102.5 | 67.6 | 61.3 | | 55.4 |
| Inadequate Prenatal Care Rate | 53.1 | 51.4 | 63.9 | 113.4 | 54.8 | | 91.2 |
| Infant/Mortality Rate | 5.6 | 5.5 | 11.8 | 8.7 | 2.5 | | 6.0 |
| Teen Birth Rate | 112 | 111 | 189 | 202 | 30 | | 162 |

VITAL STATISTICS (Health Division--continued)

MORTALITY FIGURES (rates are per 100,000 persons)

CAUSE-SPECIFIC DEATH RATES (Average per year 99-02):

| | Service Area | OR | TOP 10 CAUSES OF DEATH IN COUNTY (2002): |
|-----------------------------------|--------------|-------|--|
| Heart Disease: | 237.3 | 201.7 | 1. Cancer |
| Cancer: | 231.6 | 198.4 | 2. Heart Disease |
| Cerebrovascular Disease | 81.3 | 74.7 | 3. Chronic Lower Respiratory Disease |
| Chronic Lower Respiratory Disease | 89.3 | 49.5 | 4. Cerebrovascular Disease |
| Unintended Injuries: | 44.0 | 35.1 | 5. Unintended Injuries |
| Alzheimers: | 33.6 | 27.7 | 6. Diabetes Mellitus |
| Diabetes: | 35.9 | 26.5 | 7. Alzheimer's Disease |
| Flu and Pneumonia: | 25.1 | 18.0 | 8. Hypertension |
| Suicide: | 23.2 | 14.4 | 9. Influenza and Pneumonia |
| Alcohol Induced: | 18.4 | 11.0 | 10. Alcohol Induced |

| | Service Area | County | Oregon | |
|--|--------------|--------|--------|-------|
| Age-adjusted Death Rate, (Average per year 99-01) | | 952.5 | 960.6 | 834.7 |
| Comparative Mortality Figure, (Average per year 99-01) | | 1.2 | 1.2 | 1.0 |
| Years of Life Lost Index, (Average per year 99-01) | | 1.2 | 1.2 | 1.0 |

Percent of Preventable Hospitalizations (00-02): (COMPdata) 5.49% 4.82%

HEALTH RISK FACTORS (1997, 2000-2001 BRFSS)

| | County 97 | County 01 | Oregon 01 |
|---|-----------|-----------|-----------|
| % of Adults who Currently Smoke Cigarettes | 23% | 20% | 21% |
| % of Adults who Meet Recommended Activity Levels | 20% | 44% | 40% |
| % of Adults Overweight | | 35% | 37% |
| % of Adults Obese | 18% | 28% | 20% |
| % of Adults who Eat 5 Fruits and Vegetables Daily | 18% | 17% | 25% |
| Had Cholesterol Check Within 5 Yrs (18+ yrs old) | 82% | 92% | 92% |
| Had Mammogram Within Past 2 Yrs (F 40+ only) | 62% | 86% | 85% |
| Had PAP Test Within Past 3 Yrs (F 18+ only) | 75% | 77% | 85% |

6/7/2004

Service Area: Klamath Falls

HEALTH CARE RESOURCES PRACTITIONERS IN SERVICE AREA

| Primary Care Practitioners | Licensed |
|-----------------------------|----------|
| Family Practitioners | 40 |
| General Practitioners | 0 |
| Obstetricians/Gynecologists | 6 |
| General Internists | 11 |
| Pediatricians | 5 |
| Specialists | |
| General Surgeons | 6 |
| Other Surgeons | 5 |
| Other Practitioners | |
| Certified Nurse Midwives | 2 |
| Nurse Practitioners | 20 |
| Dentists | 28 |
| Physician Assistants | 7 |
| Registered Nurses | 356 |
| Pharmacists | 39 |
| Dental Hygienists | 31 |
| Chiropractors | 13 |
| Naturopaths | 0 |
| Direct Entry Midwife | 0 |
| Optometrists | 8 |
| Nurse Anesthetists | 1 |
| School Guidance Counselors | 18 |
| Psychiatrists | 3 |
| Psychologists | 5 |
| Licensed Social Worker | 11 |
| Family Counselor | 12 |
| Drug/Alcohol Counselor | 30 |
| Total Practitioners | 657 |

SUPPLY AND DEMAND FOR PRIMARY CARE VISITS IN SERVICE AREA

Number of Persons Per Primary Care Provider: 853

Number of Visits Accommodated by:

| | |
|--------------------------|---------------|
| Primary Care Physicians: | 276,750 |
| PA/NP: | <u>68,850</u> |
| Total: | 345,600 |

Number of Primary Care Visits Needed by 2003 Population: 139,351

HEALTH CARE RESOURCES (continued)**CLINICS IN SERVICE AREA**Number

| | |
|--|---|
| Rural Health Clinics (RHC): | |
| Federally Qualified Health Clinics (FQHC): | 1 |
| School-Based Clinics: | 0 |

HOSPITALS IN SERVICE AREA (2001)

| | |
|------------------------|---------------------------|
| Name: | Merie West Medical Center |
| # of Staffed Beds: | 131 |
| Type: | |
| Trauma Designation: | |
| Other Designation: | Rural Referral |
| % Medicare Discharges: | 38.8 |
| % Medicaid Discharges: | 23.2 |
| Net Patient Revenue: | \$72,176,430 |
| # of Employees : | 781 |

DESIGNATIONS OF SHORTAGE BY SERVICE AREA

| Health Professional Shortage Area (HPSA) | |
|--|-----|
| 1. Geographic | No |
| 2. Population | Yes |
| 3. Mental Health | Yes |
| 4. Dental | Yes |
| Medically Underserved Area (MUA) | No |
| Population (MUP) | No |
| Office of Rural Health Unmet Need Area | No |

This report has been prepared by the Oregon Office of Rural Health at Oregon Health and Science University.

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Additional information, maps, and lists are available at:

[www.ohsu.edu/oregonruralhealth/what is rural.html](http://www.ohsu.edu/oregonruralhealth/what%20is%20rural.html)

For questions, comments, or sources, please contact Emerson Ong at: ong@ohsu.edu

Sources for ORH Service Area Profiles

| | |
|-----------------------|---|
| Geography | <i>Geography and Weather</i> |
| 1 | Current Oregon Economic and Community Development Department, Community Profiles |
| <hr/> | |
| Geography | <i>Distances</i> |
| 2 | Current Mapblast |
| <hr/> | |
| Geography | <i>Transportation</i> |
| 3 | Current Tripcheck, Public Transportation |
| <hr/> | |
| Demography | <i>Population, Ethnicity, Race, Household Size, and Median Age</i> |
| 4 | 2003 Purchased annually from Claritas [by ZIP] |
| <hr/> | |
| Socioeconomics | <i>2000 Census</i> |
| 5 | 2000 2000 Census Summary File 3 (SF3). Purchased from Claritas. [by ZIP] |
| <hr/> | |
| Socioeconomics | <i>County Per Capita Income</i> |
| 6 | 2002 Bureau of Economic Analysis, Annual State Personal Income |
| <hr/> | |
| Socioeconomics | <i>County Median Family Income</i> |
| 7 | 2004 U.S. Department of Housing and Urban Development, Income Limits |
| <hr/> | |
| Socioeconomics | <i>Annual Unemployment Rates</i> |
| 8 | 2003 Oregon Employment Department, Annual Average Unemployment Rates [by county] |
| <hr/> | |
| Socioeconomics | <i>TANF, Food Stamp Eligibles</i> |
| 9 | 4/2003 Oregon Department of Human Services, Public Assistance Branch and Service Delivery Area Data, Oregon Public Assistance Programs, Historical Program Information by Branch and County |
| <hr/> | |
| Socioeconomics | <i>Reduced/Free Lunch Eligibles</i> |
| 10 | 03-04 Oregon Department of Education, Statistics and Reports, School Finance Data and Analysis, School Yr Reports, Students [by school] |
| <hr/> | |
| Socioeconomics | <i>Medicaid Eligibles</i> |
| 11 | 5/2003 Oregon Department of Human Services, Oregon Health Plan, OHP Eligibles...Medicaid Eligibles and Expenditures by County |
| <hr/> | |
| Socioeconomics | <i>Government Employees</i> |
| 12 | 4/2003 Oregon Employment Department, Current Employment by Industry [by county] |
| <hr/> | |
| Socioeconomics | <i>Uninsurance</i> |
| 13 | 2002 2002 Oregon Population Survey [by region] |

| | |
|------------------------------|--|
| Vital Statistics | <i>Maternity Characteristics by Race</i> |
| 14 | 98-02 Purchased annually from Oregon Department of Human Services, Oregon Public Health Services, Center for Health Statistics (and Vital Records) [by ZIP] |
| Vital Statistics | <i>Cause-Specific Death Rates</i> |
| 15 | 99-02 Purchased annually from Oregon Department of Human Services, Oregon Public Health Services, Center for Health Statistics (and Vital Records). Denominator is current Caritas population. Not age-adjusted. [by ZIP] |
| Vital Statistics | <i>Top 10 Causes of Death in County</i> |
| 16 | 2002 Oregon Department of Human Services, Health Services, Office of Disease Prevention and Epidemiology, Center for Health Statistics. Oregon Vital Statistics County Data 2002, Table 6-32 |
| Vital Statistics | <i>Death Rate, Mortality Figure, Years of Life Lost</i> |
| 17 | 99-01 Oregon Department of Human Services; Oregon Public Health Services; Center for Health Statistics (and Vital Records); Deaths by Age, County, and Zipcode (3-Year Aggregate). Denominator is current Caritas population. |
| Vital Statistics | <i>Preventable Hospitalizations</i> |
| 18 | 2000-2002 CompData patient origin system [by hospital and ZIP] |
| Health Risk Factors | <i>Health Risk Factors</i> |
| 19 | 2000-2001 Oregon Department of Human Services; Keeping Oregonians Healthy: Preventing Chronic Diseases by Reducing Tobacco Use, Improving Diet, and Promoting Physical Activity and Preventive Screenings. June 2003 [by county] |
| Health Care Resources | <i>Primary Care Practitioners, Specialists, PAs, and Psychiatrists</i> |
| 20 | 5/2004 Purchased annually from Board of Medical Examiners for the State of Oregon [by ZIP] |
| Health Care Resources | <i>Certified Nurse Midwives, NPs, RNs, and Nurse Anesthetists</i> |
| 21 | 5/2004 Purchased annually from Oregon State Board of Nursing [by ZIP] |
| Health Care Resources | <i>Dentists and Dental Hygienists</i> |
| 22 | 2003 Purchased from Oregon Board of Dentistry [by ZIP] |
| Health Care Resources | <i>Pharmacists</i> |
| 23 | 2003 Purchased from State Board of Pharmacy [by ZIP] |
| Health Care Resources | <i>Chiropractors</i> |
| 24 | 2001 Purchased from State Board of Chiropractic Examiners [by ZIP] |

| | | | |
|------------------------------|----|-----------|---|
| Health Care Resources | 25 | 2003 | Purchased from Board of Naturopathic Examiners [by ZIP] |
| Health Care Resources | 26 | 2003 | <i>Direct Entry Midwife</i> Oregon Board of Direct Entry Midwifery [by ZIP] |
| Health Care Resources | 27 | 2003 | <i>Optometrists</i> Oregon Board of Optometry [by ZIP] |
| Health Care Resources | 28 | 2003-2004 | <i>School Guidance Counselors</i> Oregon Department of Education [by ZIP] |
| Health Care Resources | 29 | 2001 | <i>Psychologists</i> Purchased from State Board of Psychologist Examiners [by ZIP] |
| Health Care Resources | 30 | 2001 | <i>Licensed Clinical Social Worker</i> State Board of Clinical Social Workers [by ZIP] |
| Health Care Resources | 31 | 2003 | <i>Professional Counselor/Marriage & Family Therapist</i> Oregon Board of Licensed Professional Counselors and Therapists [by ZIP] |
| Health Care Resources | 32 | 2001 | <i>Drug/Alcohol Counselor</i> Addiction Counselor Certification Board of Oregon [by ZIP] |
| Health Care Resources | 33 | 2001 | <i>Number of Visits Accommodated by PCP</i> Wasenarr, PhD, John D.; Thran, Sara L.; ed. (2003) "Table 14: Office Visits per Week, 2001" Physician Socioeconomic Statistics, 2003 Edition. American Medical Association, 49. |
| Health Care Resources | 34 | | <i>Number of Visits Accomodated by PA/NP</i> The average of the the figures derived by CMS (Centers for Medicare and Medicaid Services [formerly HCFA])--Form HCFA-222-92, "Visits and Overhead Cost for RHC/FQHC," Workshe B--and a study done by the Idaho Rural Health Education Center--Pryzbilla, J. (1996). A Step-by-Step Training Guide to Primary Care Provider Recruitment and Retention, 22-23. |
| Health Care Resources | | | <i>Primary Care Visits Needed</i> |

OREGON OFFICE OF RURAL HEALTH

35 2001 Cherry DK, Burt CW, Woodwell DA. National Ambulatory Medical Care Survey: 2001 Summary, Advance Data No. 337, Nation Center for Health Statistics. Aug 11, 2003, Table 3 Number, percent distribution, and annual rate of office visits with corresponding standard errors, by patient's age, sex, and race: United States, 2001

Health Care Resources *Clinics*

36 Current Periodic email updates from Nancy Abrams, Primary Care Program Planner at Department of Human Services

Health Care Resources *Hospitals*

37 2001-2002 American Hospital Directory and Oregon Association of Hospitals and Health Systems

Designations of Shortage *HPSA*

38 Current U.S. Dept. of Health and Human Services, Health Resources and Services Administration, Bureau of Health Professions, Health Professional Shortage Areas Database Query

Designations of Shortage *MUAP*

39 Current U.S. Dept. of Health and Human Services, Health Resources and Services Administration, Bureau of Primary Health Care, Medically Underserved Areas/Populations Database

Designations of Shortage *ORH Unmet Need*

40 2002 Oregon Office of Rural Health Unmet Need Designation

2003-2004 Areas of Unmet Medical Need in Rural Oregon

I. Background

In 1989 and again in 1991, the Oregon Legislature passed laws¹ requiring the Office of Rural Health to develop and utilize criteria of medical underservice in several applications:

- The Office of Rural Health is charged with determining eligible "medically underserved" practice sites for rural state loan repayment recipients.
- The Office has responsibility for granting exceptions to the state's rural hospital classification system as it applies to medical staff eligibility for the state's personal income tax credit program. In order for larger rural hospitals' medical staffs to receive this benefit, the Office must determine that the area is "medically underserved."
- Medically underserved criteria are applied to distribution of state funds for rural economic development grants (ORS 442.503) and Area Health Education Centers (ORS 352.095).
- SB 607, passed in 1991, requires the Office to devise a risk assessment formula for rural hospitals that includes a factor reflecting medical underservice.

In response to these requirements, The Office of Rural Health developed a single evolved set of criteria that can be employed in each of the required applications while helping our constituents evaluate their overall health delivery systems and more clearly understand their status and potential for assistance.

¹ Senate Bills 438 (1989) and SB 607 (1991)

II. Selecting a Level of Analysis

In most other states, county boundaries are relatively small, so county-level data is widely used to disseminate information. However, because of the large sizes and wide variations in geography and population centers of many of Oregon's 36 counties, sub-county units were determined to more accurately represent community use of primary medical care services. Postal ZIP code boundaries, which follow logical transportation and market patterns, are used as the building blocks of our sub-county areas. A large amount of demographic, socioeconomic and health status information is currently available at the ZIP code level, including hospital utilization and market share data. The Office of Rural Health grouped these ZIP codes into 130 Oregon "Primary Care Service Areas" using the following criteria:

1. Health resources are generally located within 30 to 40 minutes travel time.
2. Defined areas are not smaller than a single ZIP code and ZIP codes used are geographically contiguous.
3. Defined areas contain a population of generally 800 to 1,000 or more people.
4. Areas constitute a "rational" medical trade or market area considering topography, social and political boundaries, and travel patterns. Additional considerations for service areas are boundaries that:
 - a. Are congruent with any existing special taxing districts (e.g., health or hospital districts); and
 - b. Include a population which has a local perception that it constitutes a "community of need" for primary health care services, or demonstrates demographic, socioeconomic or ethnic homogeneity. The population should be large enough (800 to 1,000) to be financially capable of supporting at least a single midlevel medical provider.

Using the Office of Rural Health definition of "rural"—"a geographic area 10 or more miles from the centroid of a population center of 30,000 or more"—104 **rural** primary care service areas were delineated. These service area profiles were assembled and hundreds of their demographic, socioeconomic, and healthcare variables were computed in the Primary Care Service Area database. These variables are used in updating the 2003-2004 edition of "Assessing Health Care Needs in Rural Oregon."

III. Methodology

The Office of Rural Health selected five different variables to represent crucial aspects of access to health services in rural areas:

1. Percentage of Primary Care Needs Met
2. Ambulatory Care Sensitive Conditions (ACSC) Ratio
3. Travel Time to Nearest Hospital
4. Comparative Mortality Ratio
5. Low Birth Weight Rate

Data specific to each service area are derived from the Oregon Center for Health Statistics, the Board of Medical Examiners, the Board of Nursing, Claritas, COMData, and Mapblast.com. Each variable is converted from a raw score, (e.g., percentage, rate or number) to a uniform score of 0 (worst) to 20 (best), using a method that measures incremental deviations from the mean (set at 10).

Deviations from mean to lowest score = (Mean – Lowest Score)/10

Deviations from mean to highest score = (Highest Score – Mean)/10

Each variable (V) is equally weighted in calculating each service area's total Medical Underservice Score, as follows:

$$V_1 + V_2 + V_3 + V_4 + V_5 = \text{Medical Underservice Score}$$

The best possible Medical Underservice Score is 100. The highest and lowest total scores are discarded and the mean is calculated. Service areas with totals below the mean Medical Underservice Score are the most medically underserved. An explanation each of the variables follows:

V₁ = PERCENTAGE OF PRIMARY CARE NEEDS MET:

This variable attempts to determine practitioner availability with an estimate of the visits a primary care practitioner is able to provide vs. practitioner visits needed by the service area population. Only *primary care* physicians, nurse practitioners and physician assistants are included in this equation as a measure of access to basic health care.

For doctors, visit capacity, meaning the estimated number of office visits a practitioner typically has each year, is taken from the latest issue of the annual Physician Socioeconomic Statistics², based on surveys of nonfederal patient care physicians. For NP/PAs, visit capacity is the average of the the figures derived by CMS (Centers for Medicare and Medicaid Services [formerly HCFA])³ and a study done by the Idaho Rural Health Education Center⁴.

² Wassenarr, PhD, John D; Thran, Sara L.; ed. (2003) "Table 14: Office Visits per Week, 2001" *Physician Socioeconomic Statistics, 2003 Edition*. American Medical Association, 49.

³ Form HCFA-222-92. "Visits and Overhead Cost for RHC/FQHC," Worksheet B

| SPECIALTY | VISIT CAPACITY |
|-----------|----------------|
| GP/FP | 4900 |
| PEDS | 4320 |
| OB/GYN | 3900 |
| INT | 3250 |
| NP/PA | 2550 |

Primary care visits needed by the population is a measure calculated using annually adjusted rates from the National Center for Health Statistics⁵ according to each gender and age breakdown:

$$\begin{aligned} \text{Total \# of Primary Care Visits Needed} &= 0.8 \times \\ &(([\text{Female Population 0-14}] \times 2.3) + \\ &([\text{Female Population 15-24}] \times 2.3) + \\ &([\text{Female Population 25-44}] \times 3.1) + \\ &([\text{Female Population 45-64}] \times 4.1) + \\ &([\text{Female Population 65-74}] \times 6.1) + \\ &([\text{Female Population 75+}] \times 6.4) + \\ &([\text{Male Population 0-14}] \times 2.4) + \\ &([\text{Male Population 15-24}] \times 1.2) + \\ &([\text{Male Population 25-44}] \times 1.6) + \\ &([\text{Male Population 45-64}] \times 3.0) + \\ &([\text{Male Population 65-74}] \times 5.4) + \\ &([\text{Male Population 75+}] \times 6.7)) \end{aligned}$$

Visit capacity for each specialty is multiplied by the number of practitioners in the service area, then these 5 numbers are summed to derive the total visit capacity. Total visit capacity is then divided by the total number of primary care visits needed. The final variable is a percentage of need being met, using the following formula:

$$V_1 = \frac{p_1(4900) + p_2(4320) + p_3(3900) + p_4(3250) + p_5(2550)}{\text{Total \# of primary care visits needed}}$$

⁴ Pyszbylla, J. (1996). *A Step-by-Step Training Guide to Primary Care Provider Recruitment and Retention*, 22-23

⁵Cherry DK, Woodwell DA. (2002) National Ambulatory Medical Care Survey: 2000 summary. *Advance data from Vital and Health Statistics*; no. 328, 12.

(Note: p_1 = # of FP/GPs ; p_2 = # of pediatricians; p_3 = # of OB/GYNs; p_4 = # of internists; and p_5 = # of NP/PAs .)

A V_1 score of 0 means that there are no primary care providers in the service area.

V_2 = AMBULATORY CARE SENSITIVE CONDITIONS (ACSC) RATIO:

Ambulatory care sensitive conditions (also known as preventable hospitalizations) are a set of inpatient diagnoses that would likely have been preventable or unnecessary had they been treated with timely and effective ambulatory care. These include many common conditions such as asthma, diabetes, hypertension, and pneumonia. Many studies have shown that high rates of admissions for these conditions can be indicative of serious access or primary care performance problems⁶. Other studies have also shown that areas with high numbers of elderly and low-income residents, minorities, and the uninsured tend to have higher rates of preventable hospitalizations⁷.

For this calculation, we utilized the widely-used list of (ICD-9-CM) ACSC diagnoses pioneered by John Billings⁸. Three years' worth (2000-2002) of Oregon inpatient admissions by ZIP Code were retrieved from COMPdata.

$$\text{ACSC Rate} = \frac{\text{2000-2002 ACSC Admissions}}{\text{2000-2002 Total Admissions}}$$

$$V_2 = \frac{\text{ACSC Rate for Service Area}}{\text{ACSC Rate for State}}$$

An ACSC ratio less than "1.00" indicates that the area has a lower preventable hospitalization rate than the state as a whole; a value equal to "1.00" equals the state's rate; and a value greater than "1.00" indicates above average hospitalization for preventable diseases.

V_3 = TRAVEL TIME TO NEAREST HOSPITAL:

This third variable is used to account for a service area's remoteness or proximity from a comprehensive source of hospital care. A service area may appear to be underserved because of a low primary care capacity percentage, when, in fact, it is near a larger city or town that is able to meet some of its needs.

Accordingly, mileage is calculated from the largest town/city in each of the 104 rural service areas to the nearest town/city with a hospital, unless the city already has a hospital, in

⁶Bindman, Andrew B.; Grumbach, Kevin; et. al. Preventable Hospitalizations and Access to Health Care.

The Journal of the American Medical Association (274) July 26, 1995: 305-311

⁷Billings, John; Zeitel, Lisa; et. al. Impact of Socioeconomic Status on Hospital Use In New York City. *Health Affairs* (Spring 1993): 162-173

⁸Billings, John; Anderson, Geoffrey M.; Newman, Laurie S. Recent Findings On Preventable Hospitalizations. *Health Affairs* (Fall 1996): 239-249

which case the driving time is defaulted to 10 minutes. Driving time and distance are calculated annually by using the online directions at www.mapblast.com.

V₄ = COMPARATIVE MORTALITY RATIO:

This variable compares the service area's crude death rate (not adjusted for age or other factors) to the death rate for the entire state. This non-age-adjusted rate is a valuable measure because it reflects a number of unique qualities that may affect rural areas, e.g., a higher proportion of elderly, a greater number of laborers in dangerous occupations, lack of emergency medical transport systems, and disadvantaged ethnic populations. Three years' worth of mortality data are used (1999-2001), and then averaged for one year in order to control for aberrations that may occur annually with small numbers in some service areas.

$$\text{Crude Death Rate} = \frac{\text{Resident Deaths}}{\text{Population}} \times 1000$$

$$V_4 = \frac{\text{Crude Death Rate for Service Area}}{\text{Crude Death Rate for State}}$$

A comparative mortality ratio less than "1.00" indicates that the area has a lower death rate than the state as a whole; a value equal to "1.00" equals the state's death rate; and a value greater than "1.00" indicates above average mortality.

V₅ = LOW BIRTH WEIGHT RATE:

In calculating the final variable, several different options were considered to reflect access to care for the most vulnerable populations. While infant mortality is the most typical choice in this category, problems arise when using this measure in a rural context because in many very small communities, infant mortality is a very rare event. Because this index relies on relativity for its validity, a more common event, low birth weight (< 2500 grams or 5.5 pounds), was chosen instead, and data averaged from the last five years (1997-2001) to account for small populations in certain areas.

Infant mortality is commonly used to target a failure in the health care system. Similarly, rates of low birth weight babies are highest for mothers who receive inadequate prenatal care.⁹ Low birth weight values can also be used to predict future demands on the health care (and social) systems of a community. Low birth weight infants:

- account for nearly half of all infant deaths in the first year of life and 70% of all deaths in the first four weeks of life.
- are significantly more likely to suffer from long term handicapping conditions such as mental retardation, cerebral palsy, visual and hearing defects and lung disease.

⁹Curry, Mary Ann and Kellerhouse, Kristine. *Oregon's Babies: How Healthy Are They?* The Oregon Healthy Mothers, Healthy Babies Coalition, April 1991.

- are more likely to have some form of learning disability.⁹

$$V_5 \text{ (Five-Year Average Low Birth Weight Rate)} = ((\text{1st Year Total Low Birth Weight Amount})/(\text{1st Year Total Births})) + ((\text{2nd Year Total Low Birth Weight Amount})/(\text{2nd Year Total Births})) + ((\text{3rd Year Total Low Birth Weight Amount})/(\text{3rd Year Total Births})) + ((\text{4th Year Total Low Birth Weight Amount})/(\text{4th Year Total Births})) + ((\text{5th Year Total Low Birth Weight Amount})/(\text{5th Year Total Births}))/5 * 1000$$

IV. Findings and Conclusions

Oregon's rural service areas display a range of scores from 29 to 80, with a mean (average) of 53.1. A score of 53 or less is considered to have unmet health care needs.

Using this method, 54 of the 104 rural service areas have unmet healthcare needs. Halfway, Condon, Elgin, Shady Cove, East Klamath, Mill City/Gates, and Nehalem all scored below 40. In contrast, the highest ranked service area, Ashland, scored an 80 out of 100. The Unmet Need areas are scattered throughout the state, but it is worth noting that three of the largest service area groupings—the southern coast, the Mid-Columbia region, and the southeast—are also concentrated in areas where health districts exist. In these areas, local citizens recognized that their health care needs were underserved and have voted to tax themselves in order to financially support a hospital, clinic or ambulance service. In a few cases, however, such as in Bandon, Florence, Lakeview, or Burns, the location of a hospital alone does not keep the area from having unmet healthcare needs. These places still suffer from high preventable hospitalizations, high mortality rates, and/or above average low birth weight rates.

Although many of these regions have also been designated by the federal government as either medically underserved (MUA/MUPs) or Health Professions Shortage Areas (HPSAs), the intent of this exercise is not to replace or challenge the federal designations, but rather to complement them using more complex measures that are uniquely sensitive to Oregon's rural health environment.

The Office of Rural Health, state agencies, legislators, and other advocates of rural healthcare will find this instrument a useful means to evaluate health care services in rural Oregon. Its greatest strengths lie in its sensitivity to small variations among rural service areas, and the ability to be updated annually, as new data become available. Further, the Primary Care Service Area database is linked to an in-house GIS system, which provides mapping capability for all of the various results, from the statewide to ZIP code levels. This makes it easier for the reader to visually comprehend and compare this complex data, furthering the cause of rural health in Oregon.

V. Notes

1. Physician/physician assistant licensure data: Oregon Board of Medical Examiners, May 2003
2. Nurse practitioner licensure data: Oregon Board of Nursing, May 2003

3. Death data: Oregon Center for Health Statistics, 1999-2001
4. Low birthweight data: Oregon Center for Health Statistics, 1997-2001
5. 2002 population estimates: Claritas
6. ACSC Hospitalizations: COMPdata
7. Distance data: Mapblast.com

Additional information, maps, and rankings of all the service areas are available at:

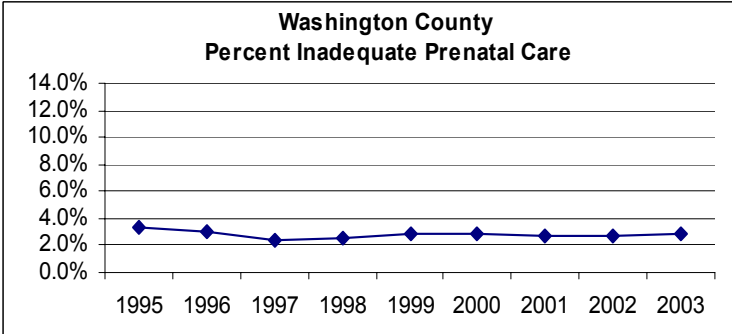
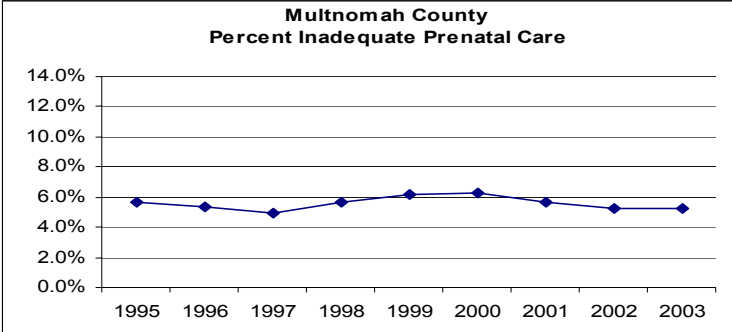
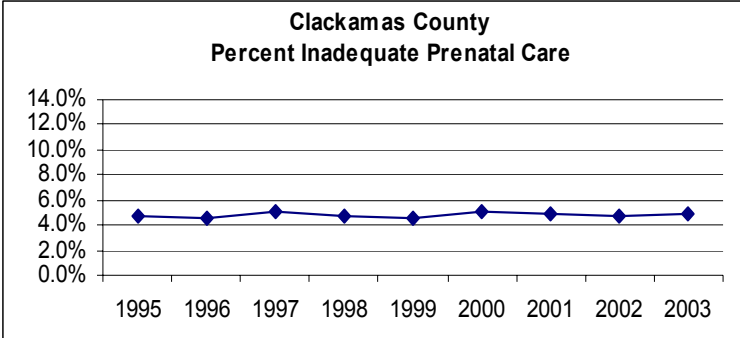
www.ohsu.edu/oregonruralhealth/what%20is%20rural.html

For questions, contact Emerson Ong at the Oregon Office of Rural Health, Oregon Health and Science University, (503) 494-5226 or email ong@ohsu.edu.

Selected Access-Related Outcomes Measures

- Inadequate Prenatal Care
- Selected Ambulatory Care Sensitive Conditions

Portland Metropolitan Region: Inadequate Prenatal Care, 1995-2003

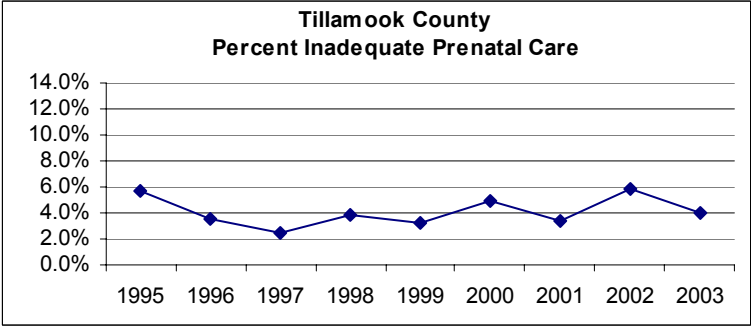
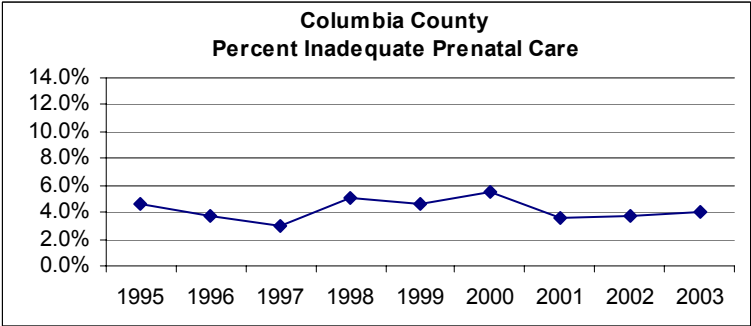
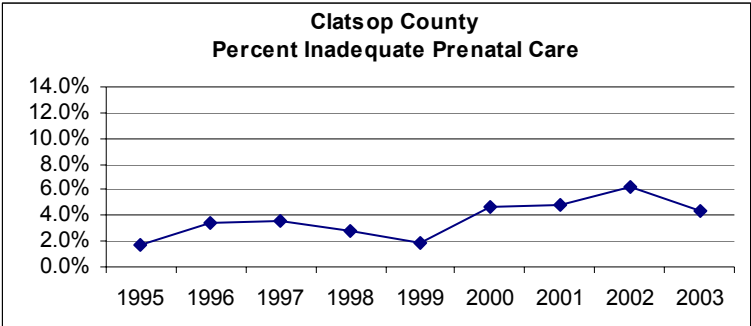


Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

North Coast Region: Inadequate Prenatal Care, 1995-2003

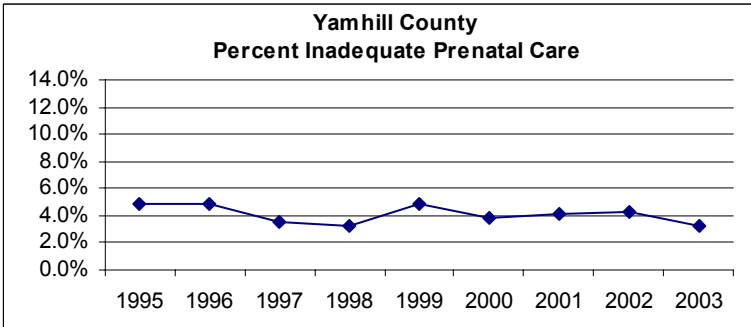
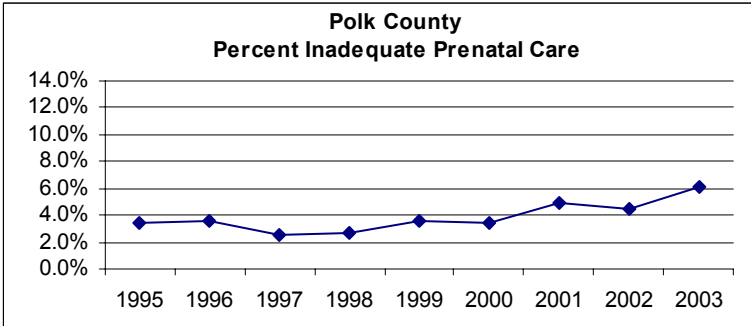
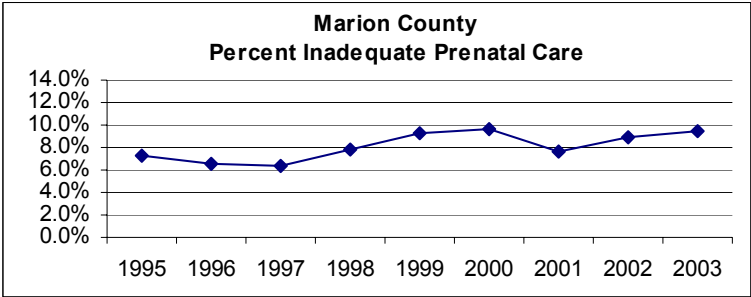


Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

Mid-Willamette Valley Region: Inadequate Prenatal Care, 1995-2003

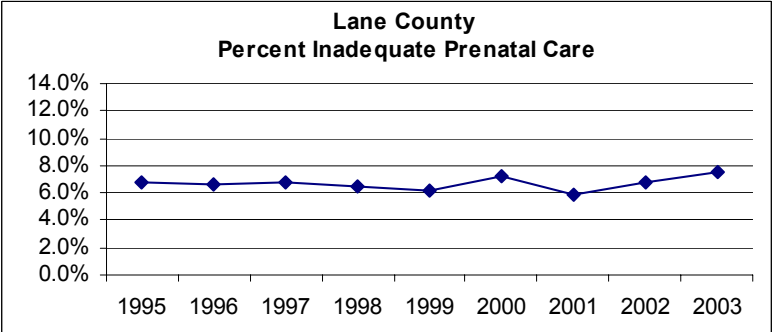
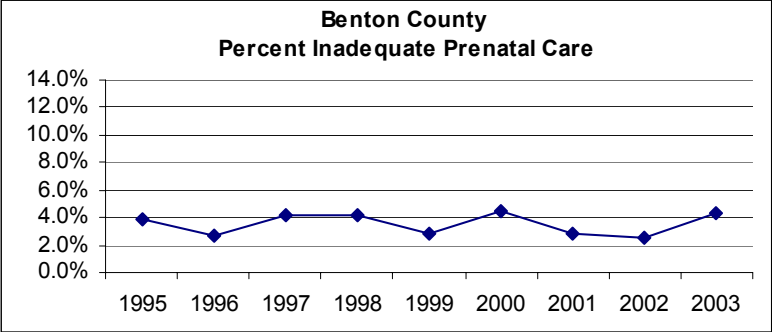
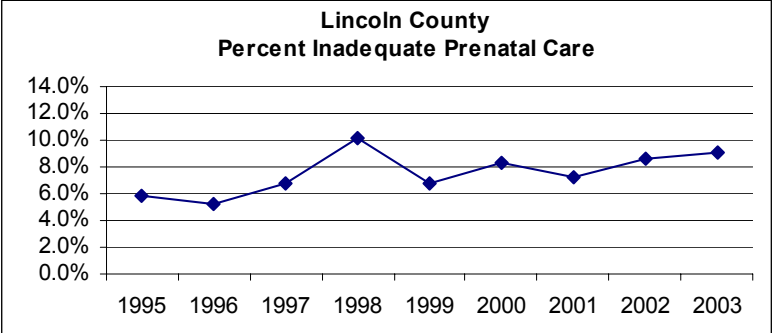
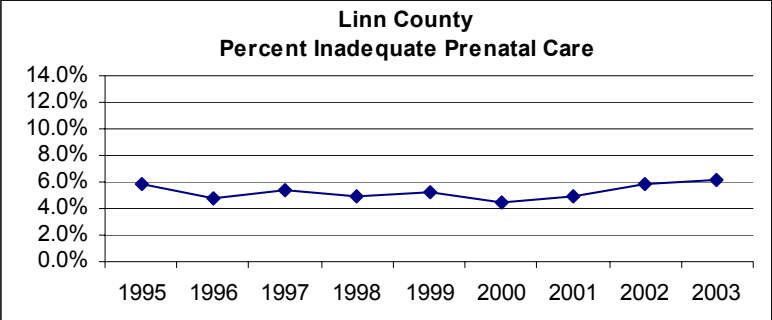


Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

South Willamette Valley Region: Inadequate Prenatal Care, 1995-2003

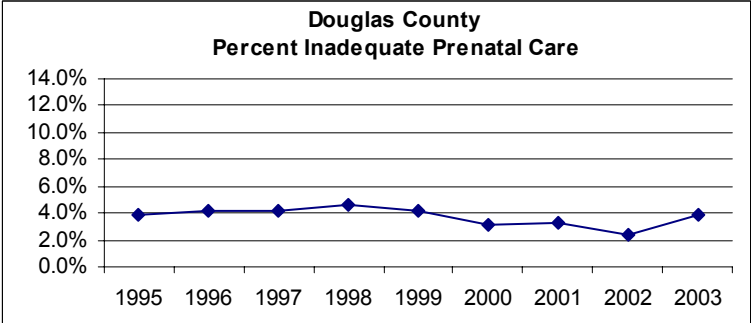
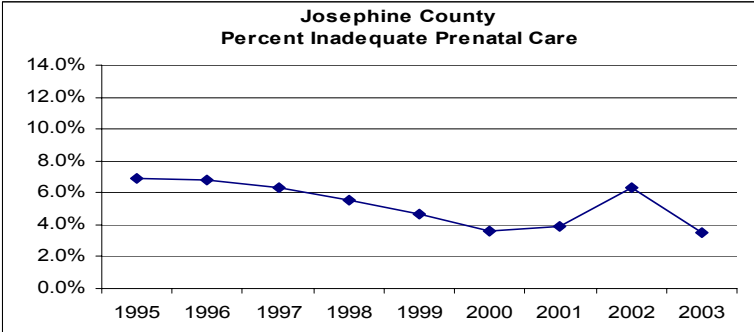
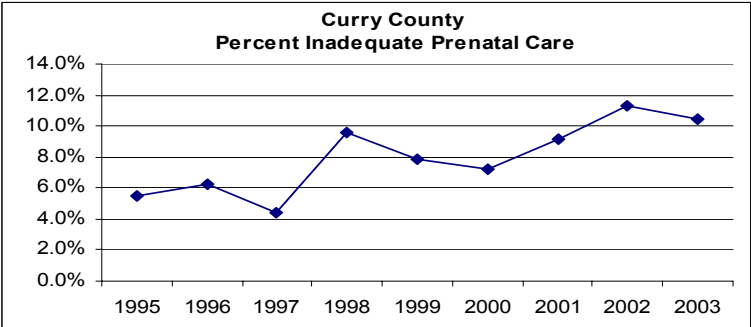
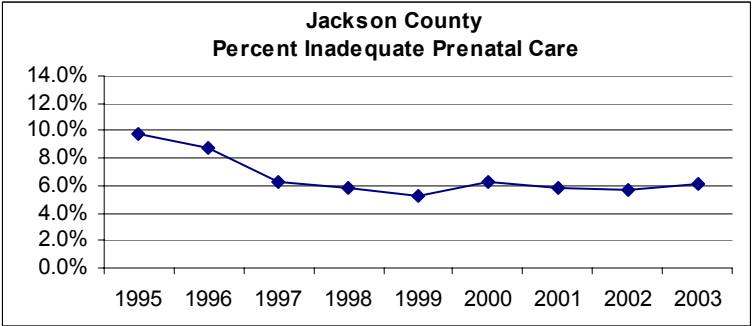
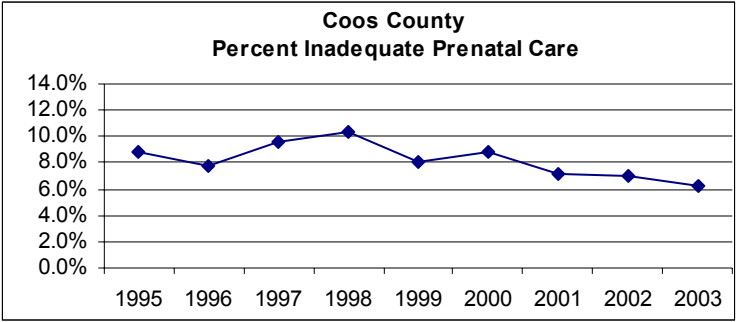


Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

Southwestern Region: Inadequate Prenatal Care, 1995-2003

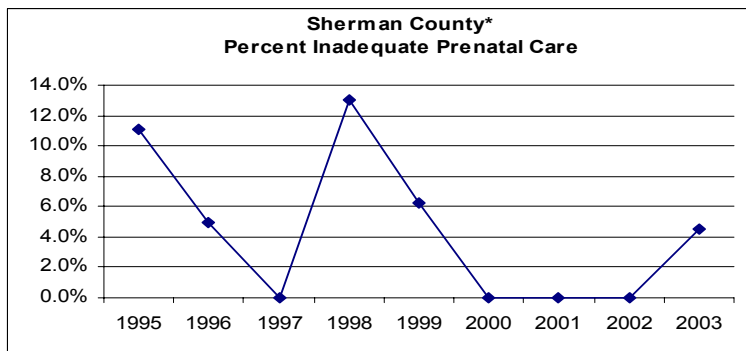
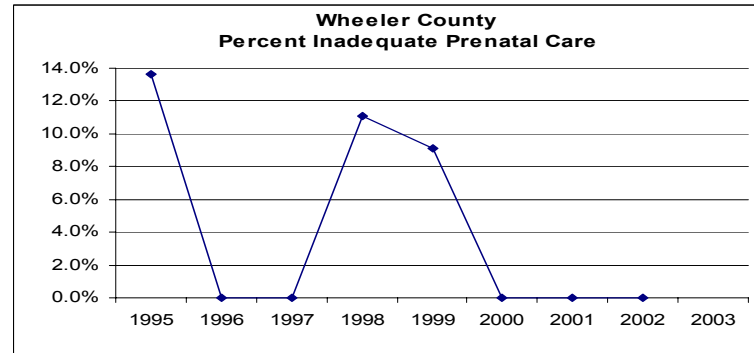
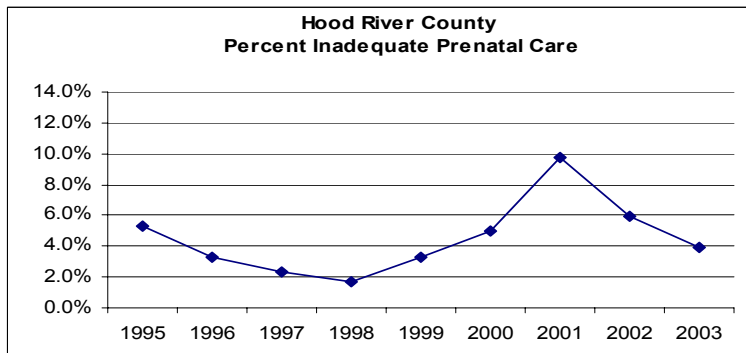
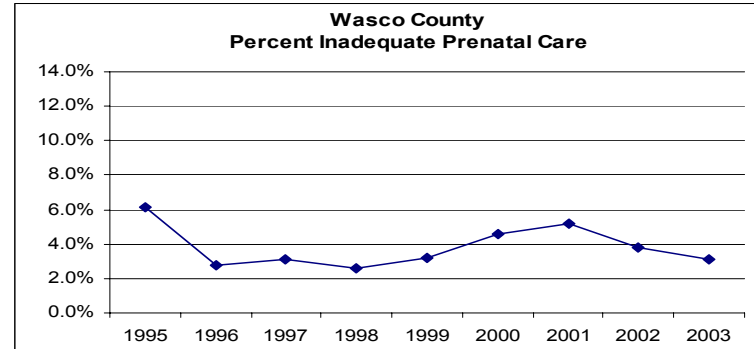
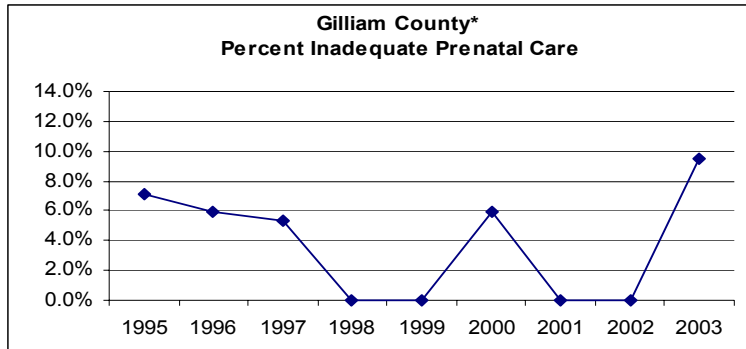


Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

Columbia Gorge Central Region: Inadequate Prenatal Care, 1995-2003



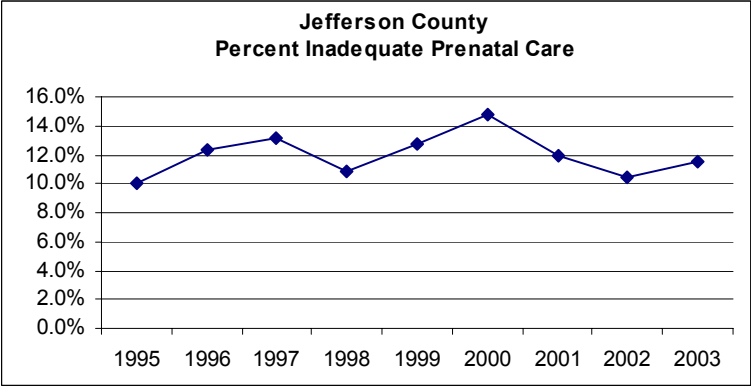
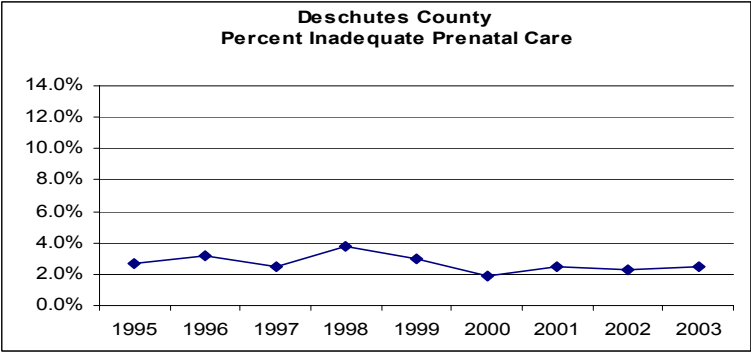
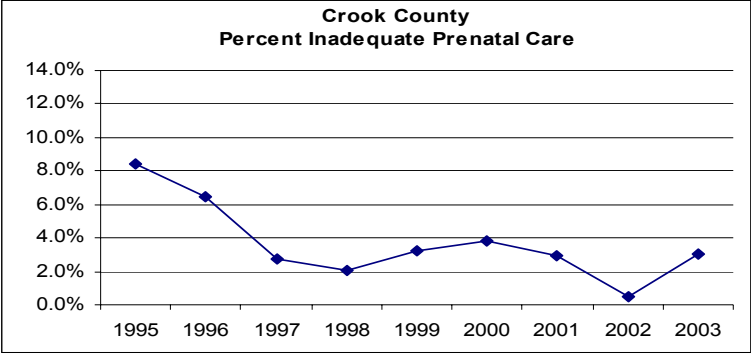
Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

*Less than 30 annual births in Gilliam, Sherman, and Wheeler counties.

Central Region: Inadequate Prenatal Care, 1995-2003

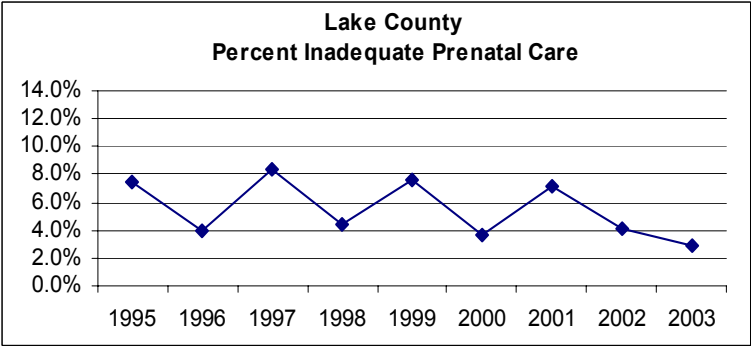
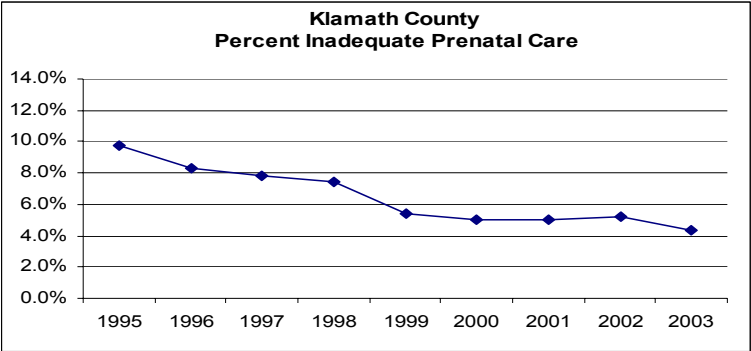


Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

South Central Region: Inadequate Prenatal Care, 1995-2003

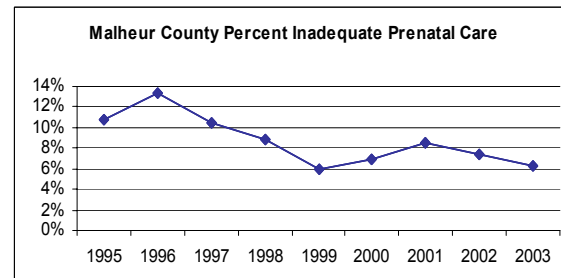
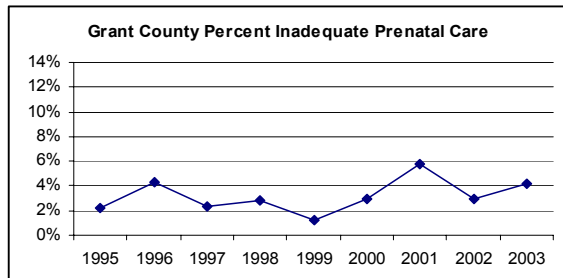
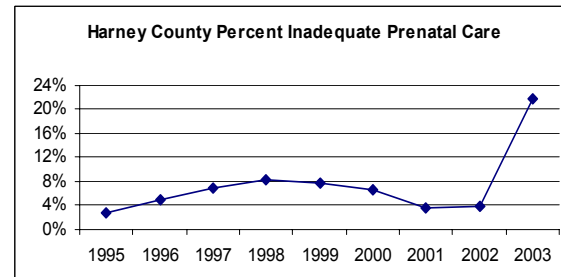
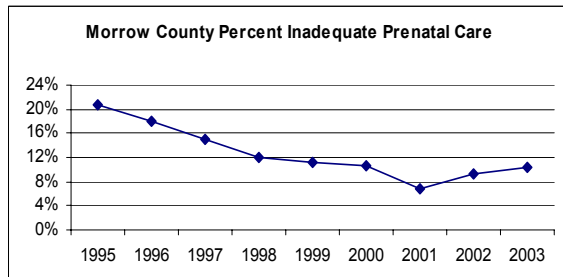
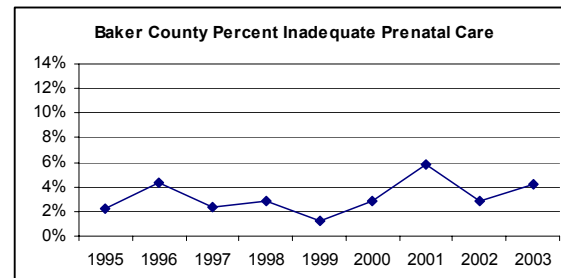
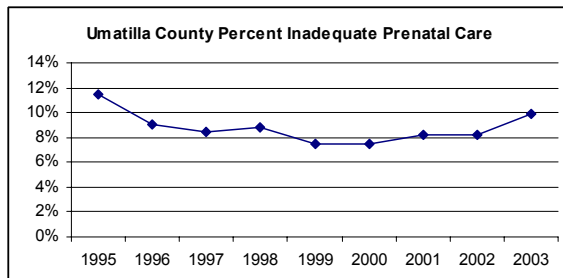
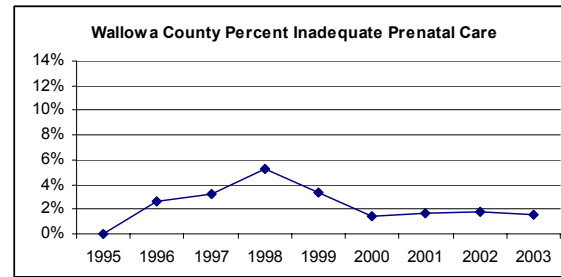
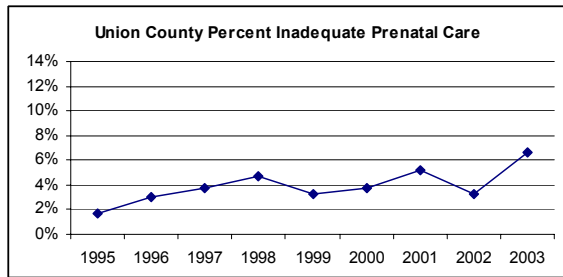


Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

Eastern Region: Inadequate Prenatal Care, 1995-2003



Inadequate prenatal care:

Less than 5 prenatal visits or prenatal care that began in the third trimester.

Source: Oregon Department of Human Services, Center for Health Statistics.

Ambulatory Care Sensitive Conditions

Agency for Healthcare Research and Quality (AHRQ)
Prevention Quality Indicators

AHRQ Prevention Quality Indicators

- Bacterial pneumonia
- Adult asthma
- Diabetes long-term complication
- Urinary tract infection
- Dehydration
- Congestive heart failure (CHF)
- Chronic obstructive pulmonary disease (COPD)

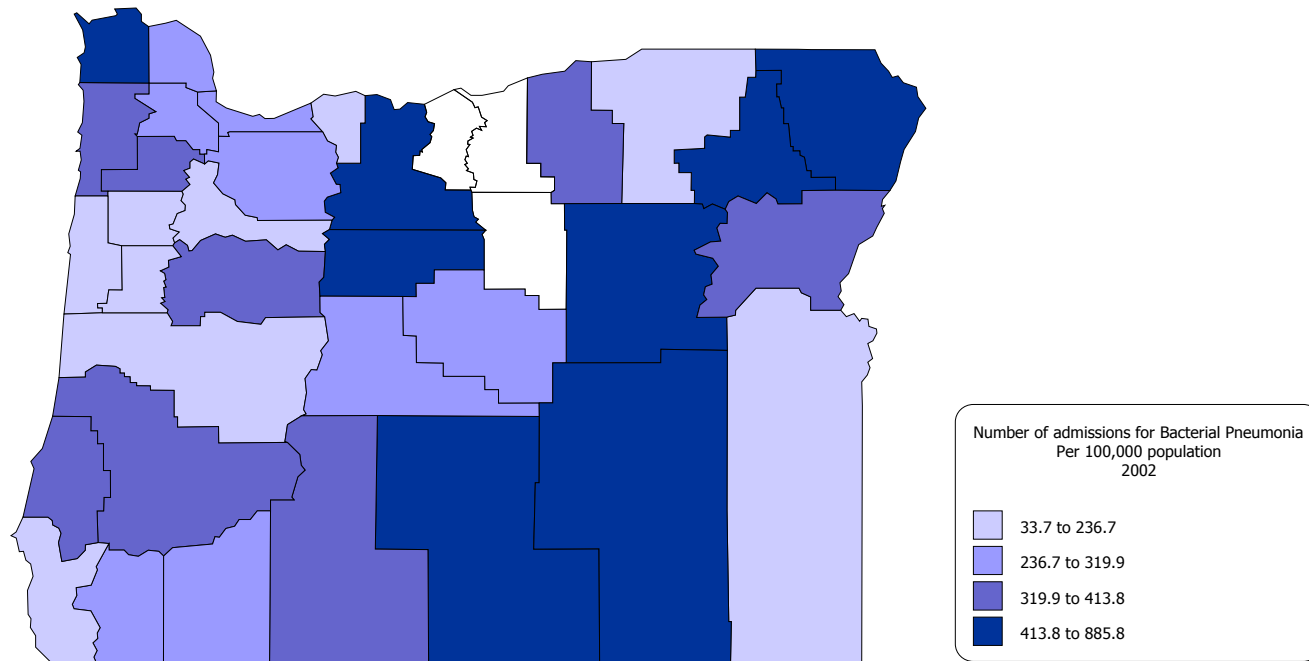
The following indicators are not included as there were too few counties with adequate numbers (>20) to be included in the analysis:

- Diabetes short-term complications
- Angina without procedure
- Perforated appendix
- Hypertension
- Pediatric asthma
- Uncontrolled diabetes
- Pediatric gastroenteritis
- Lower-extremity amputation among patients with diabetes

AHRQ Prevention Quality Indicators

- Set of measures that can be used with hospital inpatient discharge data to identify "ambulatory care sensitive conditions." These are conditions for which good outpatient care can potentially prevent the need for hospitalization or for which early intervention can prevent complications or more severe disease.
- 2002 Oregon hospital discharge data.
- Analysis conducted by patient's county of residence rather than hospital location.
- AHRQ recommends benchmarking against statewide or regional rates.

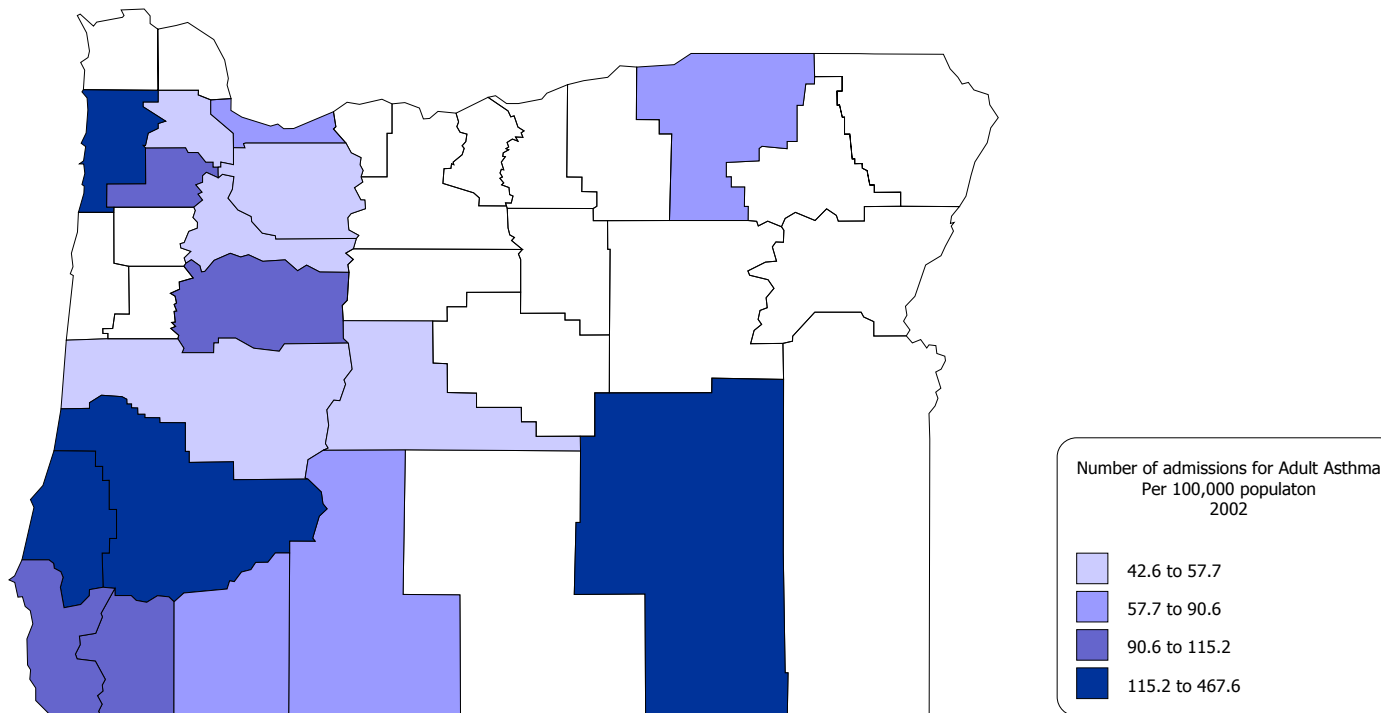
Admissions for Bacterial Pneumonia



- Counties with no shading indicate data suppressed; less than 20 cases.
- Rational for inclusion in AHRQ indicator set: Bacterial pneumonia is a relatively common acute condition, treatable for the most part with antibiotics.*
- Risk adjusted for age and sex.
- State population rate = 262.0 admissions per 100,000 population.

*AHRQ, Guide to Prevention Indicators, AHRQ Pub. No. 02-R0203, Oct. 2001, Revision 3 (January 9, 2004).

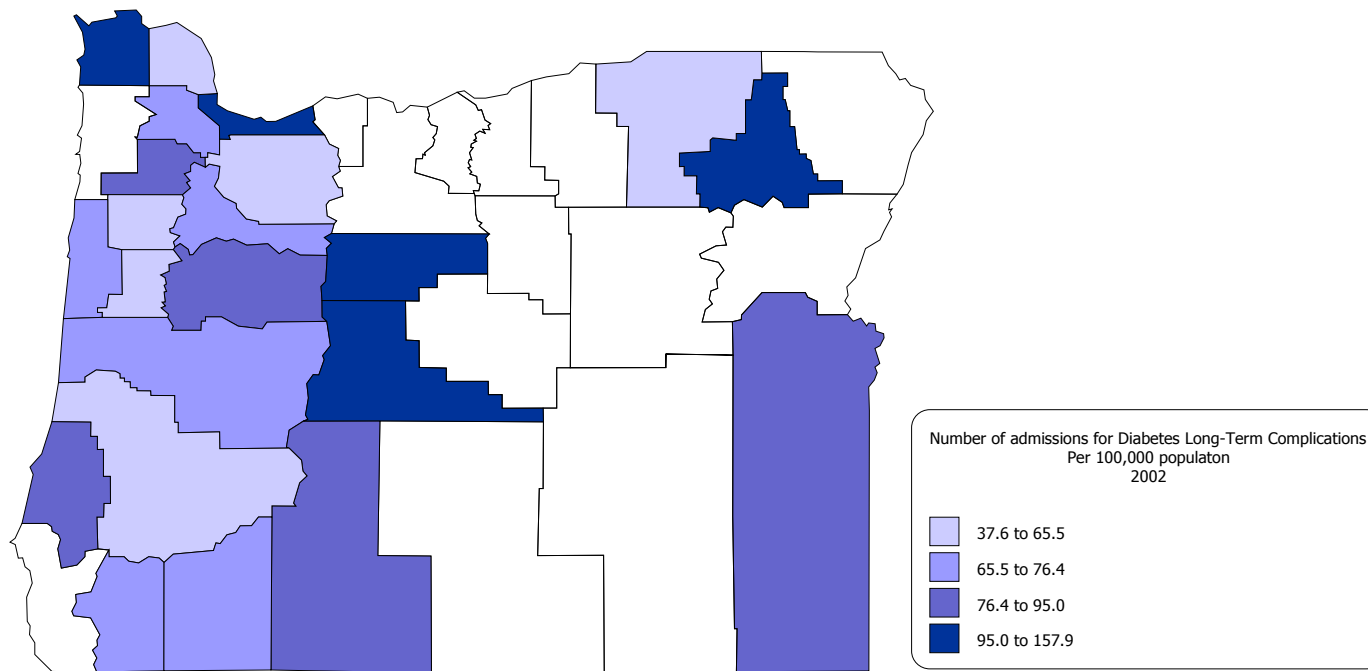
Admissions for Adult Asthma



- Counties with no shading indicate data suppressed; less than 20 cases.
- Rational for inclusion in AHRQ indicator set: Asthma is one of the most common reasons for hospital admission and emergency room care. Most cases of asthma can be managed with proper ongoing therapy on an outpatient basis.*
- Risk adjusted for age and sex.
- State population rate = 69.1 admissions per 100,000 population.

*AHRQ, Guide to Prevention Indicators, AHRQ Pub. No. 02-R0203, Oct. 2001, Revision 3 (January 9, 2004).

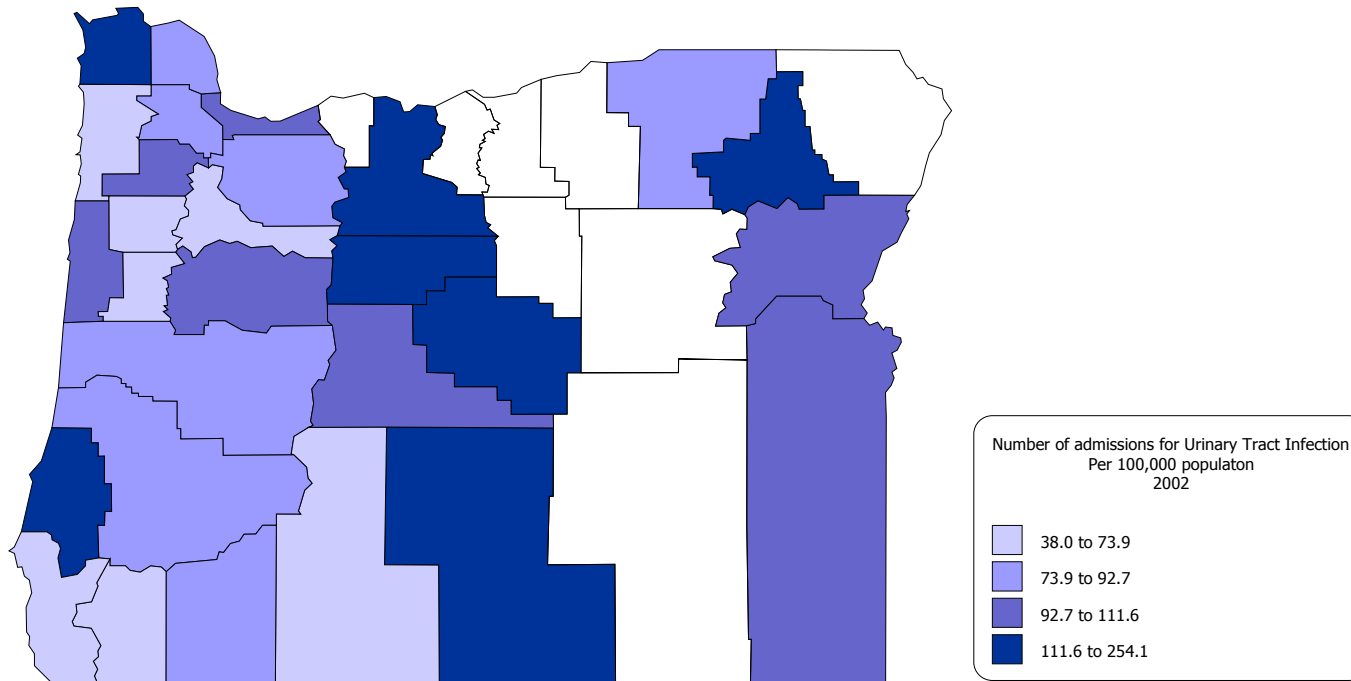
Admissions for Diabetes Long-Term Complications



- Counties with no shading indicate data suppressed; less than 20 cases.
- Rational for inclusion in AHRQ indicator set: Proper outpatient treatment and adherence to care may reduce the incidence of diabetic long-term complications.*
- Risk adjusted for age and sex.
- State population rate = 72.3 admissions per 100,000 population.

*AHRQ, Guide to Prevention Indicators, AHRQ Pub. No. 02-R0203, Oct. 2001, Revision 3 (January 9, 2004).

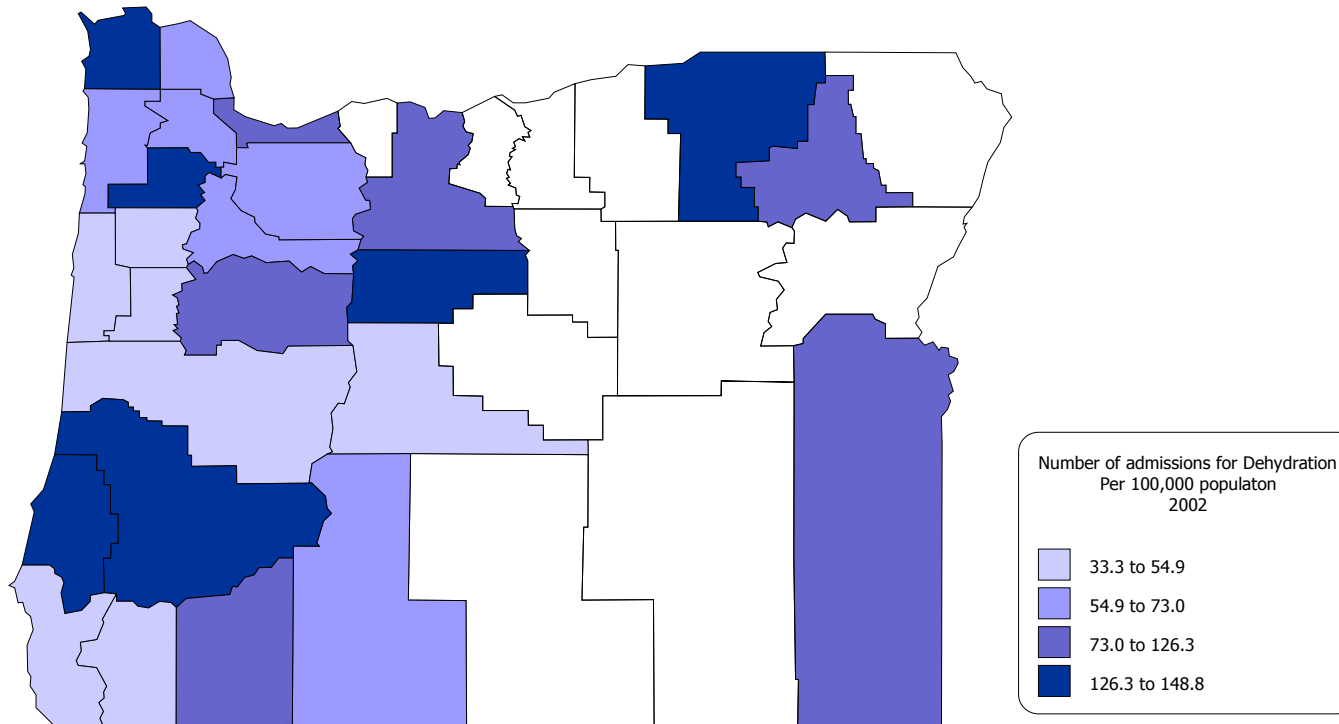
Admissions for Urinary Tract Infections



- Counties with no shading indicate data suppressed; less than 20 cases.
- Rational for inclusion in AHRQ indicator set: Urinary tract infection is a common acute condition that can usually be treated with antibiotics in an outpatient setting.*
- Risk adjusted for age and sex.
- State population rate = 89.1 admissions per 100,000 population.

*AHRQ, Guide to Prevention Indicators, AHRQ Pub. No. 02-R0203, Oct. 2001, Revision 3 (January 9, 2004).

Admissions for Dehydration

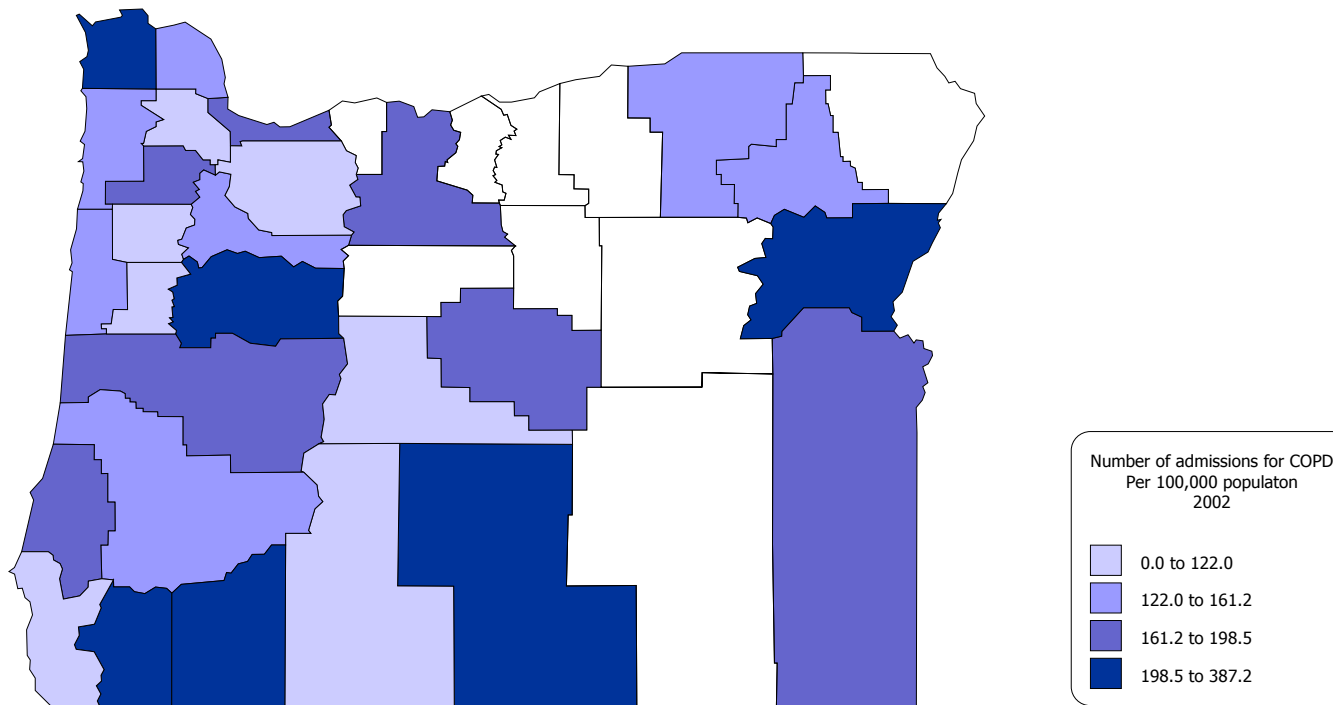


- Counties with no shading indicate data suppressed; less than 20 cases.
- Rational for inclusion in AHRQ indicator set: Dehydration is a serious acute condition that occurs in frail patients and patients with other underlying illnesses following insufficient attention and support for fluid intake.*
- Riskadjusted for age and sex.
- State population rate = 70.8 admissions per 100,000 population.

*AHRQ, Guide to Prevention Indicators, AHRQ Pub. No. 02-R0203, Oct. 2001, Revision 3 (January 9, 2004).

Monitoring Oregon's Health Care Safety Net

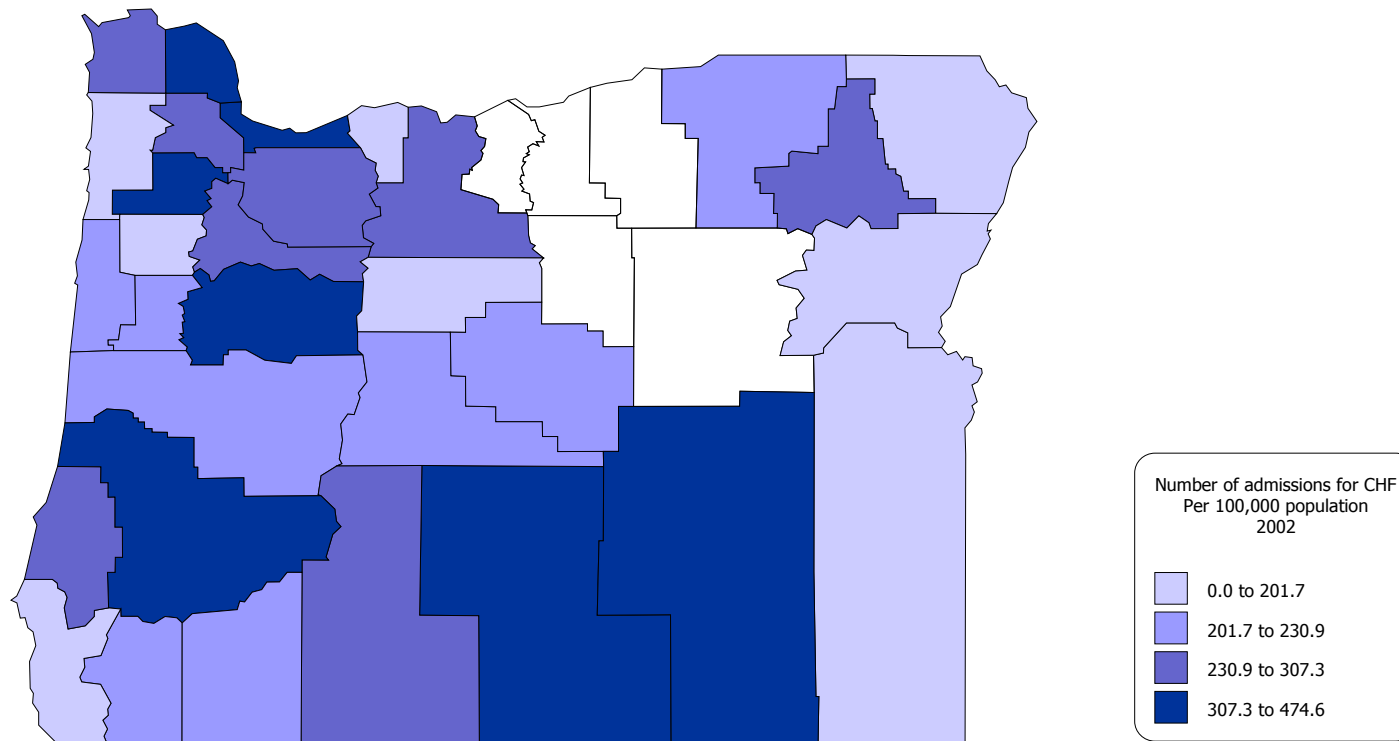
Admissions for Chronic Obstructive Pulmonary Disease (COPD)



- Counties with no shading indicate data suppressed; less than 20 cases.
- Rational for inclusion in AHRQ indicator set: proper outpatient treatment may reduce admissions for COPD.*
- Risk adjusted for age and sex.
- State population rate = 145.2 admissions per 100,000 population.

*AHRQ, Guide to Prevention Indicators, AHRQ Pub. No. 02-R0203, Oct. 2001, Revision 3 (January 9, 2004).

Admissions for Congestive Heart Failure



- Counties with no shading indicate data suppressed; less than 20 cases.
- Rational for inclusion in AHRQ indicator set: Congestive heart failure (CHF) can be controlled in an outpatient setting for the most part; however, the disease is a chronic progressive disorder for which some hospitalizations are appropriate.*
- Risk adjusted for age and sex.
- State population rate = 263.6 admissions per 100,000 population.

*AHRQ, Guide to Prevention Indicators, AHRQ Pub. No. 02-R0203, Oct, 2001, Revision 3 (January 9, 2004).

Safety Net Sites in Oregon - 2004

Baker

| Site Type | Name |
|--------------|--|
| Hospital | St. Elizabeth Health Services |
| LHD | Baker County Health Department-Mountain Valley |
| LHD | Baker County Health Department |
| Other | Pine Eagle Clinic |
| Rural Health | Baker Clinic |
| SBHC | Baker High Student Health Center |

Benton

| Site Type | Name |
|--------------|--|
| Hospital | Good Samaritan Regional Medical Center |
| LHD | Benton County Health Department |
| Rural Health | Aisea Rural Health Care, Inc. |
| SBHC | Monroe Middle School |
| SBHC | Lincoln Elementary School |

Clackamas

| Site Type | Name |
|-----------|--|
| FQHC | Clackamas County Public Health Division Oregon City |
| FQHC | Clackamas County Public Health Division Molalla Clinic |
| FQHC | Clackamas County Public Health Division Sandy Health |
| Hospital | Willamette Falls Hospital |
| Hospital | Kaiser Sunnyside Medical Center |
| Hospital | Legacy Meridian Park Hospital |
| Hospital | Providence Milwaukie Hospital |
| LHD | Clackamas County Mental Health |
| LHD | Clackamas County Public Health Division |
| SBHC | Oregon City High School |

Clatsop

| Site Type | Name |
|------------------|--|
| FQHC | Coastal Family Health Center |
| FQHC | Clatsop Behavioral Health Clinic |
| Hospital | Columbia Memorial Hospital |
| Hospital | Providence Seaside Hospital |
| LHD | Clatsop County Health & Human Services |
| LHD | Clatsop County Health & Human Services |
| Rural Health | Providence North Coast Clinic |
| V/A | PVAMC Warrenton Camp Rilea Clinic |

Columbia

| Site Type | Name |
|------------------|--|
| LHD | Columbia County Public Health Services |
| Rural Health | Clatskanie Clinic |
| Rural Health | Providence Family Medicine Vernonia |
| SBHC | Sacagawea Health Center |

Coos

| Site Type | Name |
|------------------|--|
| Hospital | Bay Area Hospital |
| Hospital | Coquille Valley Hospital |
| Hospital | Southern Coos Hospital |
| Indian/Tribal | Coquille Community Health Center-Coquille Tribe |
| Indian/Tribal | Coos, Lower Umpqua & Siuslaw Confederated Tribes |
| LHD | Coos County Public Health |
| Other | Waterfall Clinic |
| Rural Health | Powers Clinic |
| V/A | Bandon Community Based Outpatient Clinic |

Crook

| Site Type | Name |
|------------------|--------------------------------|
| FQHC | Ochoco Community Clinic |
| Hospital | Pioneer Memorial Hospital |
| LHD | Crook County Health Department |

Curry

| Site Type | Name |
|------------------|---|
| Hospital | Curry General Hospital |
| LHD | Curry County Health Department |
| LHD | Curry County Health Department |
| LHD | Curry County Mental Health Program |
| LHD | Curry County Health Department |
| Rural Health | Curry Family Medical |
| Rural Health | Oak Street Health Clinic |
| Rural Health | The Brookings Clinic |
| V/A | Brookings Community Based Outpatient Clinic |

Deschutes

| Site Type | Name |
|------------------|--------------------------------------|
| Hospital | St. Charles Medical Center - Redmond |
| Hospital | St. Charles Medical Center - Bend |
| LHD | Becky Johnson Community Center |
| LHD | Deschutes County Human Services |
| Rural Health | La Pine Community Clinic |
| V/A | PVAMC Bend Clinic |

Douglas

| Site Type | Name |
|------------------|---|
| FQHC | Umpqua Community Health Clinic |
| FQHC | Umpqua Community Health Clinic |
| Hospital | Mercy Medical Center |
| Hospital | Lower Umpqua Hospital |
| Indian/Tribal | Cow Creek Health & Wellness Center-Cow Creek Band |
| LHD | West Douglas County Office |
| LHD | North Douglas County Office |
| LHD | Douglas County Health & Social Services |
| LHD | South Douglas County Office |
| Rural Health | Mercy Health Clinic |
| SBHC | Roseburg High School |

Gilliam

| Site Type | Name |
|------------------|-------------------------------|
| Rural Health | Arlington Medical Center |
| Rural Health | Gilliam County Medical Center |

Grant

| Site Type | Name |
|------------------|--|
| Hospital | Blue Mountain Hospital |
| LHD | Grant Mental Health Clinic & Drug Out patient tx |
| LHD | Grant County Health Office |

Harney

| Site Type | Name |
|------------------|---|
| Hospital | Harney District Hospital |
| Indian/Tribal | Waditka Health Center- Burns Paiute Tribe |
| LHD | Harney Behavioral Health |
| LHD | Harney County Health Department |

Hood River

| Site Type | Name |
|------------------|---|
| FQHC | La Clinica del Carino |
| Hospital | Providence Hood River Memorial Hospital |
| LHD | Hood River County Health Department |

Jackson

| Site Type | Name |
|------------------|---|
| FQHC | La Clinica del Valle |
| FQHC-LA | Community Health Center |
| Hospital | Providence Medford Medical Center |
| Hospital | Ashland Community Hospital |
| Hospital | Rogue Valley Medical Center |
| LHD | Jackson County Health & Human Services |
| Rural Health | Shady Cove Clinic |
| Rural Health | Rogue River Health Clinic |
| SBHC | Scenic Middle School |
| SBHC | Phoenix High School |
| SBHC | Kids Health Connection Jackson Elementary School |
| SBHC | Kids Health Connection Washington Elementary School |
| SBHC | Crossroads Alternative High School |
| SBHC | Ashland High School |
| SBHC | Jewett Elementary School |
| SBHC | Kids Health Connection Oak Grove Elementary School |
| SBHC | Crater High School |
| VA | VA Southern Oregon Rehabilitation Center & Clinics |

Jefferson

| Site Type | Name |
|------------------|--|
| Hospital | Mountain View Hospital |
| Indian/Tribal | Warm Springs Health & Wellness Center-Confederated |
| LHD | Best Care Treatment Services/Jefferson County |
| LHD | Jefferson County Health Department |

Josephine

| Site Type | Name |
|------------------|---|
| FQHC | Siskiyou Community Health Center |
| Hospital | Three Rivers Community Hospital |
| LHD | Josephine County Public Health Department |
| Rural Health | Siskiyou Pediatric Clinic, LLP |
| SBHC | Lorna Byrne Middle School |

Klamath

| Site Type | Name |
|------------------|--|
| FQHC | Klamath Health Partnerships |
| FQHC | Sprague Valley Medical Center |
| Hospital | Merle West Medical Center |
| Indian/Tribal | Klamath Tribal Dental Clinic-Klamath Tribes |
| Indian/Tribal | Klamath Tribal Health & Family Services-Klamath Tribes |
| Indian/Tribal | Klamath Tribal Medical Clinic |
| LHD | Klamath County Department of Public Health |
| LHD | Klamath Mental Health Center |
| Other | Bonanza Clinic |
| VA | Klamath Falls Community Based Outpatient Clinic |

Lake

| Site Type | Name |
|------------------|--|
| Hospital | Lake District Hospital |
| LHD | North Lake County Health Department |
| LHD | Lutheran Community Services NW/Lake County |
| Rural Health | North Lake Clinic |

Lane

| Site Type | Name |
|------------------|--|
| FQHC | Lane County Human Services-Metro |
| FQHC | Lane County Human Services-New Roads for Youth |
| FQHC | White Bird Clinic |
| Hospital | Peace Harbor Hospital |
| Hospital | McKenzie-Willamette Hospital |

| | |
|--------------|---|
| Hospital | Cottage Grove Community Hospital |
| Hospital | Sacred Heart Medical Center |
| LHD | Lane County Health & Human Services |
| LHD | Lane County Health & Human Services Mental Health |
| Rural Health | John Herscher D.O. |
| Rural Health | Peace Health - CGSLMG |
| Rural Health | McKenzie River Clinic |
| Rural Health | Health Associates of Peace Harbor Hospital |
| Rural Health | The Lakeside Clinic |
| SBHC | North Eugene High School |
| SBHC | South Eugene High School |
| SBHC | Springfield High School |
| SBHC | Churchill High School |
| SBHC | Sheldon High School |
| V/A | Eugene Community Based Outpatient Clinic |

Lincoln

| Site Type | Name |
|---------------|---|
| Hospital | Samaritan North Lincoln Hospital |
| Hospital | Samaritan Pacific Communities Hospital |
| Indian/Tribal | Siletz Community Health Clinic-Confederated Tribes of |
| Indian/Tribal | Siletz Community Clinic |
| LHD | Lincoln City Mental Health |
| LHD | Lincoln County Mental Health Program |
| LHD | Lincoln County Human Services Department |
| Rural Health | Samaritan Coastal Clinic |
| Rural Health | Samaritan Physicians Clinic |
| Rural Health | Yachats Community Clinic |
| Rural Health | Coastal Health Practitioners |
| Rural Health | Lincoln City Medical Center |
| SBHC | Waldport SBHC |
| SBHC | Toledo High School |
| SBHC | Taft High School |
| SBHC | Newport High School |

Linn

| Site Type | Name |
|-----------|---|
| Hospital | Samaritan Lebanon Community Hospital |
| Hospital | Samaritan Albany General Hospital |
| LHD | Linn County Department of Health Services |

Safety Net Sites

June 2004

| | |
|-----|---|
| LHD | Linn County Department of Health Services |
| LHD | Linn County Department of Health Services |

Malheur

| Site Type | Name |
|------------------|---|
| FQHC | Valley Family Health Care-Ontario Clinic |
| FQHC | Valley Family Health Care |
| FQHC | Valley Family Health Care-Nyssa Health Care |
| Hospital | Holy Rosary Medical Center |
| LHD | Malheur County Health Department |
| LHD | Lifeways Behavioral Health-Malheur County |
| Rural Health | Malheur River Clinic |
| Rural Health | Malheur Memorial Health Center |
| Rural Health | Jordan Valley Health Clinic, Inc. |

Marion

| Site Type | Name |
|------------------|---|
| FQHC | West Salem Clinic |
| FQHC | Yakima Valley Farmworkers Clinic-Silverton Pediatric |
| FQHC | Lancaster Women's Clinic |
| FQHC | Yakima Valley Farmworkers Clinic-Salud Medical Center |
| Hospital | Silverton Hospital |
| Hospital | Salem Hospital |
| Hospital | Santiam Memorial Hospital |
| Indian/Tribal | Chemawa Health Center |
| LHD | Marion County Health Department |
| LHD | Marion County Children's Mental Health |
| LHD | Marion County Health Department |
| Other | Willamette Family Medical Clinic |
| VA | PVAMC Salem Clinic |

Morrow

| Site Type | Name |
|------------------|---------------------------------|
| Hospital | Pioneer Memorial Hospital |
| LHD | Morrow County Health Department |
| Rural Health | Irrigon Medical Clinic |
| Rural Health | Pioneer Memorial Clinic |

Multnomah

| Site Type | Name |
|------------------|---|
| FQHC | Southeast Health Center |
| FQHC | Taft Hotel |
| FQHC | Yakima Valley Farmworkers Clinic |
| FQHC | Native American Rehabilitation Association |
| FQHC | Gateway Children's Center |
| FQHC | DCD-Donald Long |
| FQHC | Metro Child Care Resource & Referral MH |
| FQHC | Clara Vista Family Resource Center MH |
| FQHC | Saint Francis Dining Hall |
| FQHC | Russell Street Dental Clinic |
| FQHC | Multnomah County Mental Health & Addiction Services |
| FQHC | Central Parole & Probation MH |
| FQHC | CARES NW Mental Health |
| FQHC | Portland Alternative Health Center |
| FQHC | Rockwood Neighborhood Health Access Center |
| FQHC | North Portland Health Center |
| FQHC | La Clinica de Buena Salud |
| FQHC | Parkrose Neighborhood Health Access Center |
| FQHC | Mid-County Health Center |
| FQHC | North Portland Clinic Health Services |
| FQHC | Hooper Detox |
| FQHC | New Avenues for Youth |
| FQHC | Westside Health Center |
| FQHC | Northeast Health Center |
| FQHC | Multnomah County Primary Care |
| FQHC | Old Town Clinic |
| FQHC | Outside In |
| FQHC | East County Health Center |
| Hospital | Shriners Hospital for Children |
| Hospital | Portland Veteran Affairs Medical Center |
| Hospital | Oregon Health & Science University |
| Hospital | Legacy Good Samaritan Hospital |
| Hospital | Legacy Emanuel Hospital & Health Center |
| Hospital | Legacy Mount Hood Medical Center |
| Hospital | Adventist Medical Center |
| Hospital | Providence Portland Medical Center |

Safety Net Sites

June 2004

| | |
|-------|--|
| LHD | Multnomah County Health Department STD/TB/HIV |
| Other | North Portland Nurse Practitioner Community Health |
| Other | PACS Family Health Center |
| Other | West Burnside Chiropractic Clinic |
| Other | The Wallace Medical Concern |
| SBHC | Marshall High School |
| SBHC | Cleveland High School |
| SBHC | Lincoln Park Elementary School |
| SBHC | Parkrose High School |
| SBHC | Lane Middle School |
| SBHC | Portsmouth Middle School |
| SBHC | Jefferson High School |
| SBHC | Roosevelt High School |
| SBHC | George Middle School |
| SBHC | Madison High School |
| SBHC | Grant High School |
| SBHC | Binnsmead Middle School |
| SBHC | Whitaker (Lakeside) |

Polk

| | |
|------------------|---|
| Site Type | Name |
| FQHC | Total Health Community Clinic |
| Hospital | West Valley Community Hospital |
| Indian/Tribal | Grand Ronde Health & Wellness Center-Confederated |
| LHD | Polk County Health Department |

Sherman

| | |
|------------------|----------------------|
| Site Type | Name |
| Rural Health | Morro Medical Center |

Tillamook

| | |
|------------------|---|
| Site Type | Name |
| FQHC | Tillamook County Health Department |
| FQHC | Tillamook County Health Department |
| FQHC | Tillamook County Dental Clinic |
| FQHC | Tillamook County Health Department |
| Hospital | Tillamook County General Hospital |
| LHD | Tillamook Family Counseling-Tillamook County Mental |
| Rural Health | Bayshore Family Medicine |
| Rural Health | The Rinehart Clinic |
| Rural Health | Tillamook Medical Associates, PC |

Umatilla

| Site Type | Name |
|------------------|--|
| FQHC | Yakima Valley Farmworkers Clinic-Hermiston |
| Hospital | Good Shepherd Medical Center |
| Hospital | St. Anthony Hospital |
| Indian/Tribal | Yellow Hawk Clinic-Confederated Tribes of Umatilla |
| LHD | Umatilla County Public Health Division |
| LHD | Umatilla County Public Health Division |
| LHD | Umatilla County Mental Health Program |
| LHD | Umatilla County Public Health Division |
| Rural Health | Good Shepherd Medical Group |
| SBHC | Pendleton High School |
| SBHC | Sunridge Middle School |

Union

| Site Type | Name |
|------------------|----------------------------|
| Hospital | Grande Ronde Hospital |
| Rural Health | Elgin Family Health Center |
| Rural Health | Union Family Health Center |
| SBHC | La Grande High School |

Wallowa

| Site Type | Name |
|------------------|-------------------------------------|
| Hospital | Wallowa Memorial Hospital |
| LHD | Wallowa County Health Department |
| LHD | Wallowa County Mental Health Clinic |

Wasco-Sherman

| Site Type | Name |
|------------------|---|
| FQHC | La Clinica del Carino in The Dalles |
| Hospital | Mid-Columbia Medical Center |
| LHD | Wasco Sherman Public Health Department |
| LHD | Gilliam, Hood River, Wasco, Sherman Mental Health |
| LHD | Wasco Sherman Mid Columbia Center for Living |
| Other | Greater Oregon Behavioral Health |

Washington

| Site Type | Name |
|------------------|--|
| FQHC | Virginia Garcia Memorial Healthy Start OB Clinic |
| FQHC | Virginia Garcia Memorial Health Center |
| FQHC | Virginia Garcia Memorial Health Center |
| FQHC | Virginia Garcia Memorial Health Center |

Safety Net Sites

June 2004

| | |
|----------|--|
| Hospital | Providence St. Vincent Medical Center |
| Hospital | Willamette Valley Medical Center |
| Hospital | Tuality Community Hospital |
| LHD | Washington County Department of Health & Human |
| LHD | Washington County Department of Health & Human |
| LHD | Washington County Department of Health & Human |
| LHD | Washington County Health & Human Services Mental |
| SBHC | Merlo Station High School |

Wheeler

| Site Type | Name |
|------------------|--------------|
| Rural Health | Asher Clinic |

Yamhill

| Site Type | Name |
|------------------|--|
| FQHC | Virginia Garcia Memorial Health Center |
| Hospital | Providence Newberg Hospital |
| LHD | Yamhill County Public Health |
| LHD | Yamhill County Mental Health Programs |
| SBHC | Willamina High School |