



2023 Areas of Unmet Health Care Need in Oregon

Emerson Ong

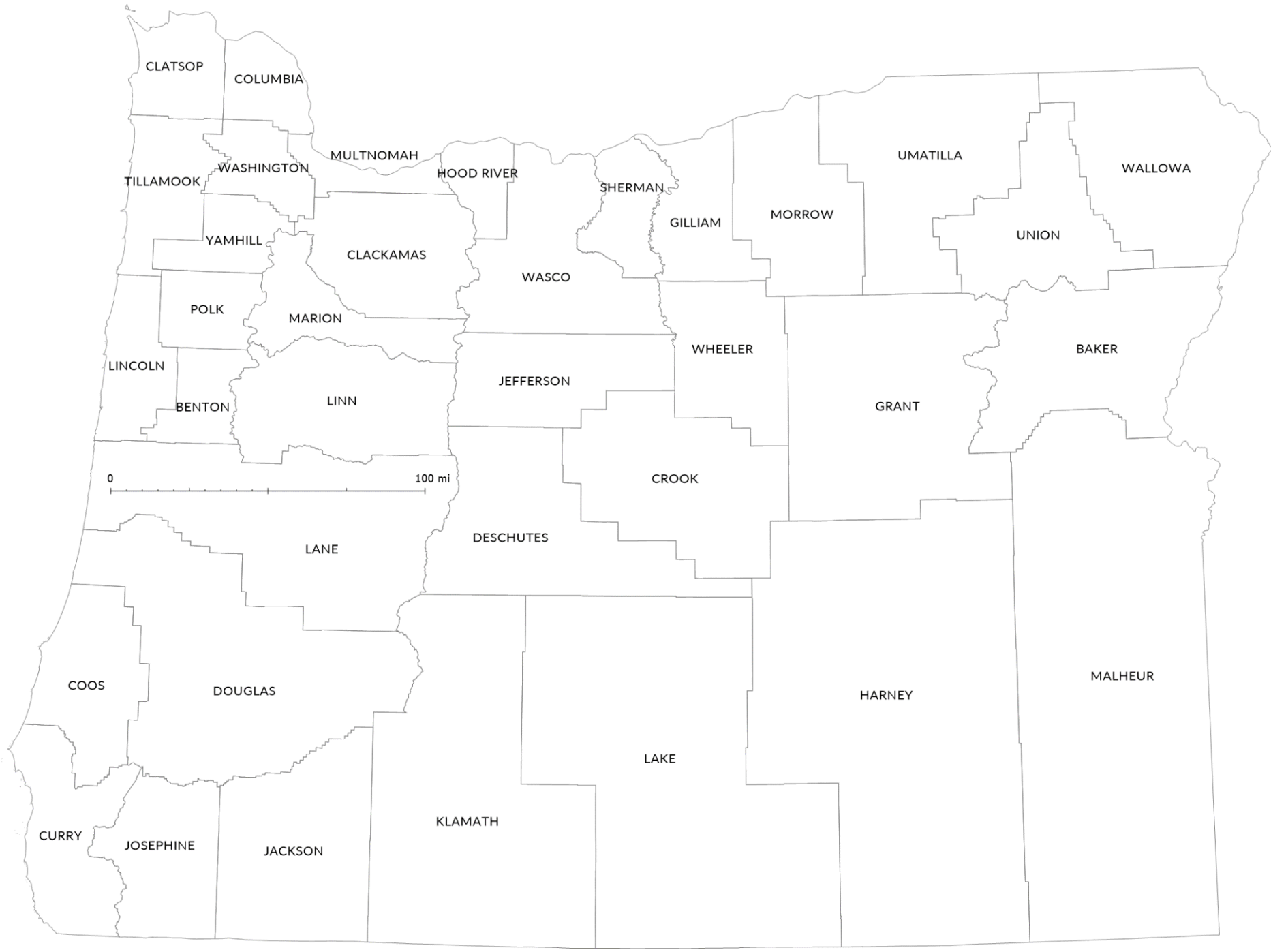
Data/GIS Analyst

OREGON OFFICE OF RURAL HEALTH

The mission of the Oregon Office of Rural Health is to improve the quality, availability and accessibility of health care for rural Oregonians.

The Oregon Office of Rural Health's vision is to serve as a state leader in providing resources, developing innovative strategies and cultivating collaborative partnerships to support Oregon rural communities in achieving optimal health and well-being.





CLATSOP

COLUMBIA

MULTNOMAH

HOOD RIVER

SHERMAN

UMATILLA

WALLOWA

TILLAMOOK

WASHINGTON

CLACKAMAS

WASCO

GILLIAM

MORROW

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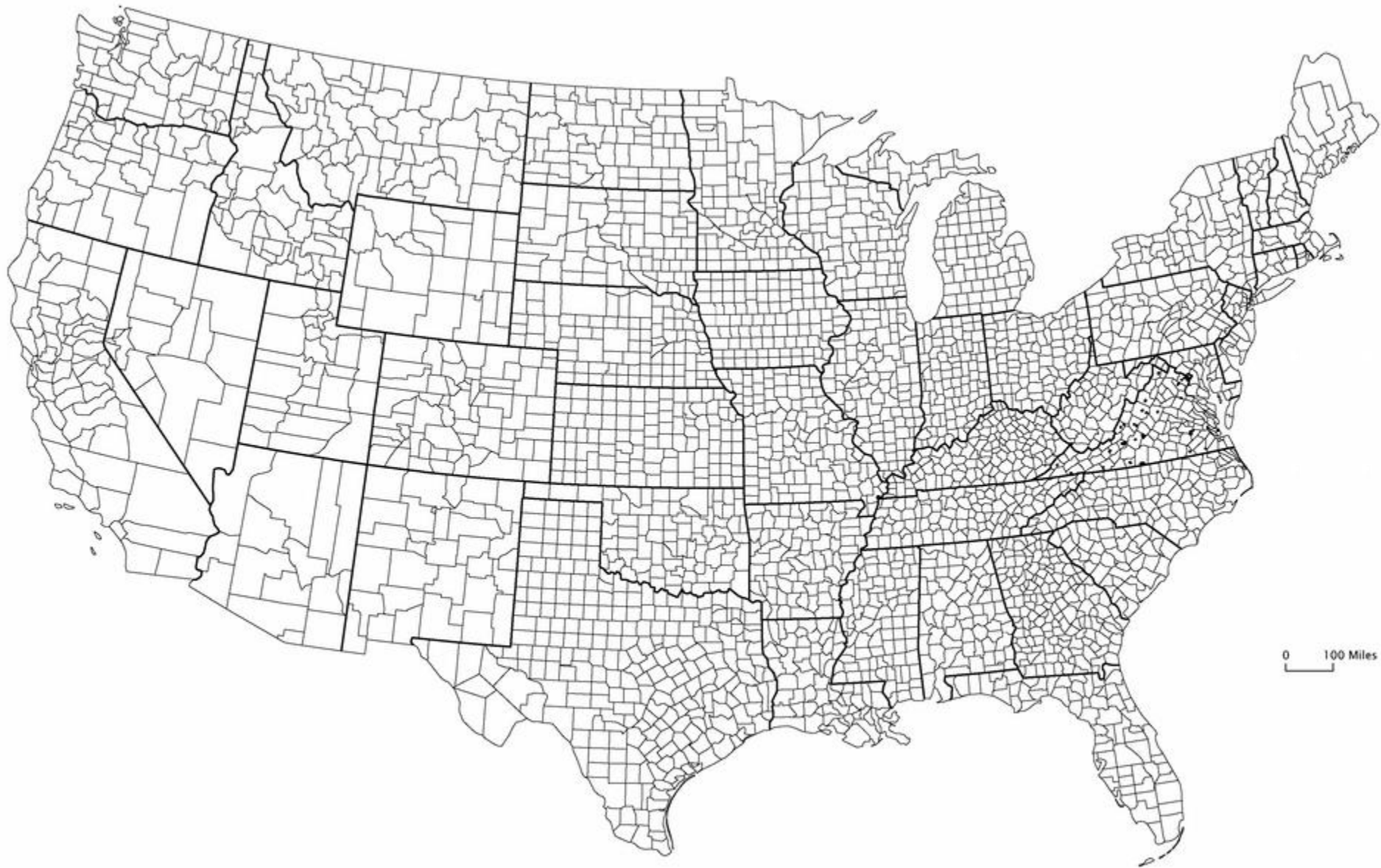
LAKE

KLAMATH

CURRY

JOSEPHINE

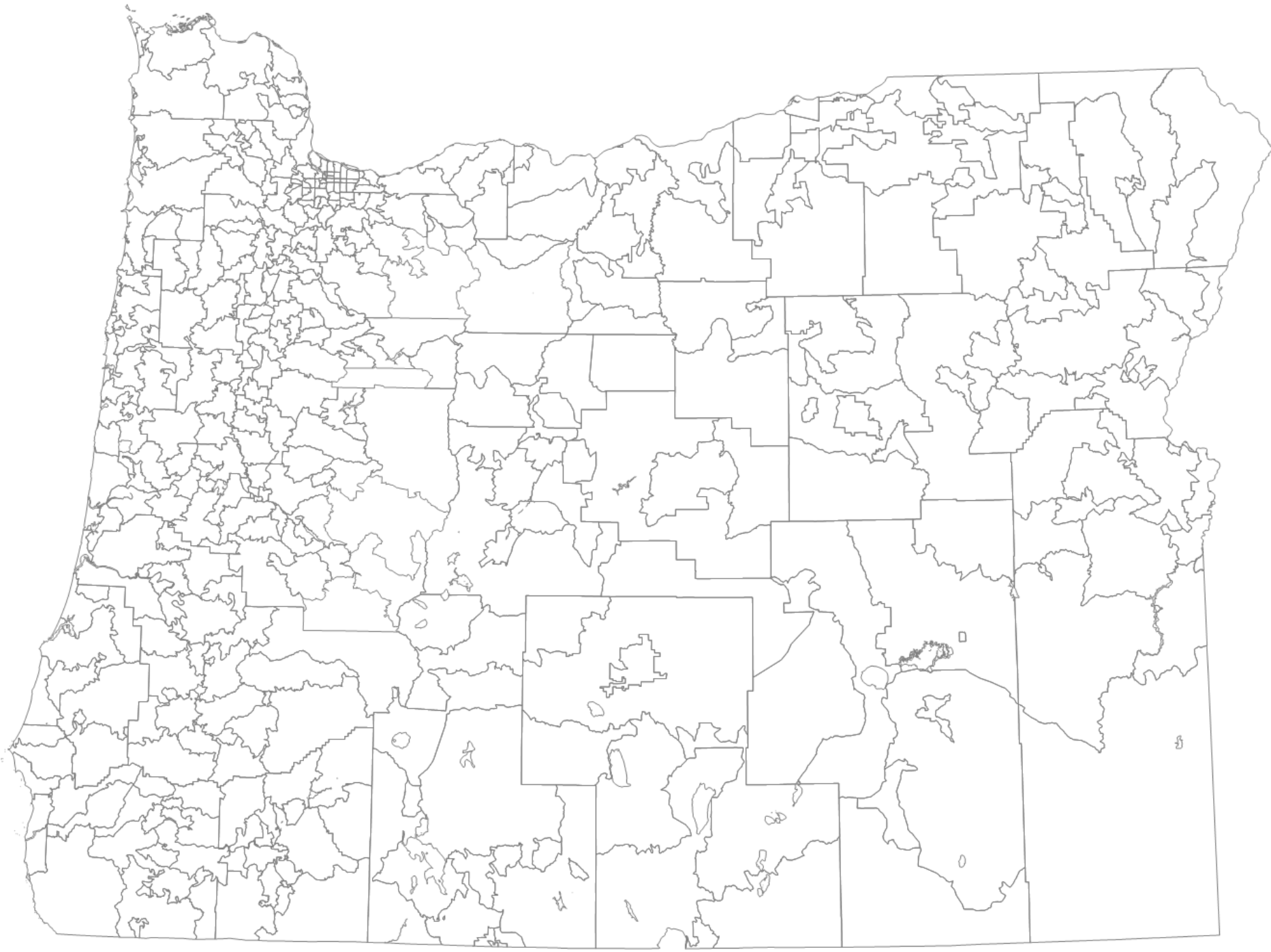
JACKSON

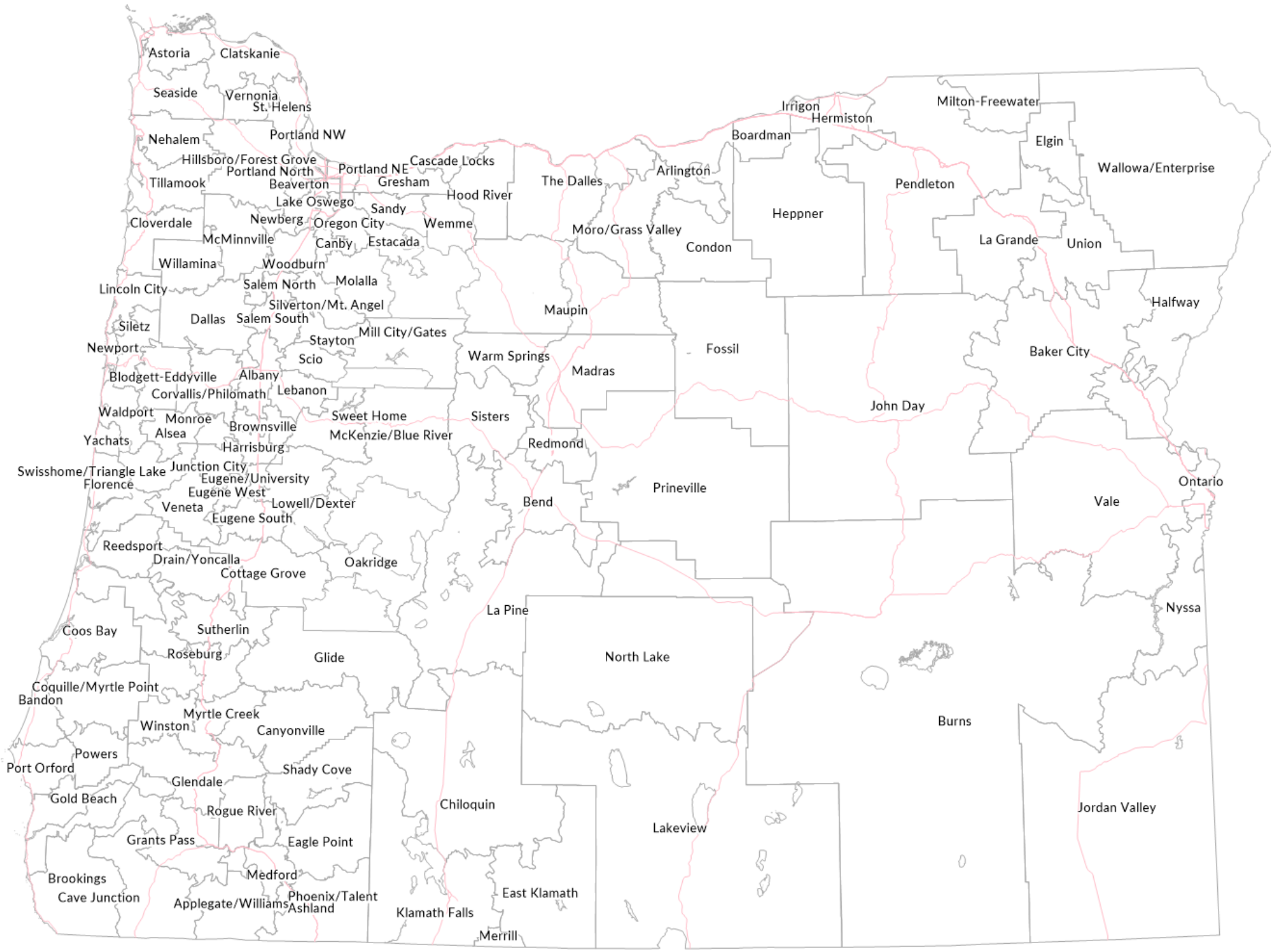


OFFICE OF RURAL HEALTH

Primary Care Service Areas

- Composed of one or more ZIP Codes—geographically contiguous and/or follow main roads
- At least 800-1000 people or more—able to theoretically support a midlevel provider
- Rational medical trade or market area/congruent with existing tax/hospital districts
- 128 Service Areas: 86 rural, 18 frontier, 24 urban







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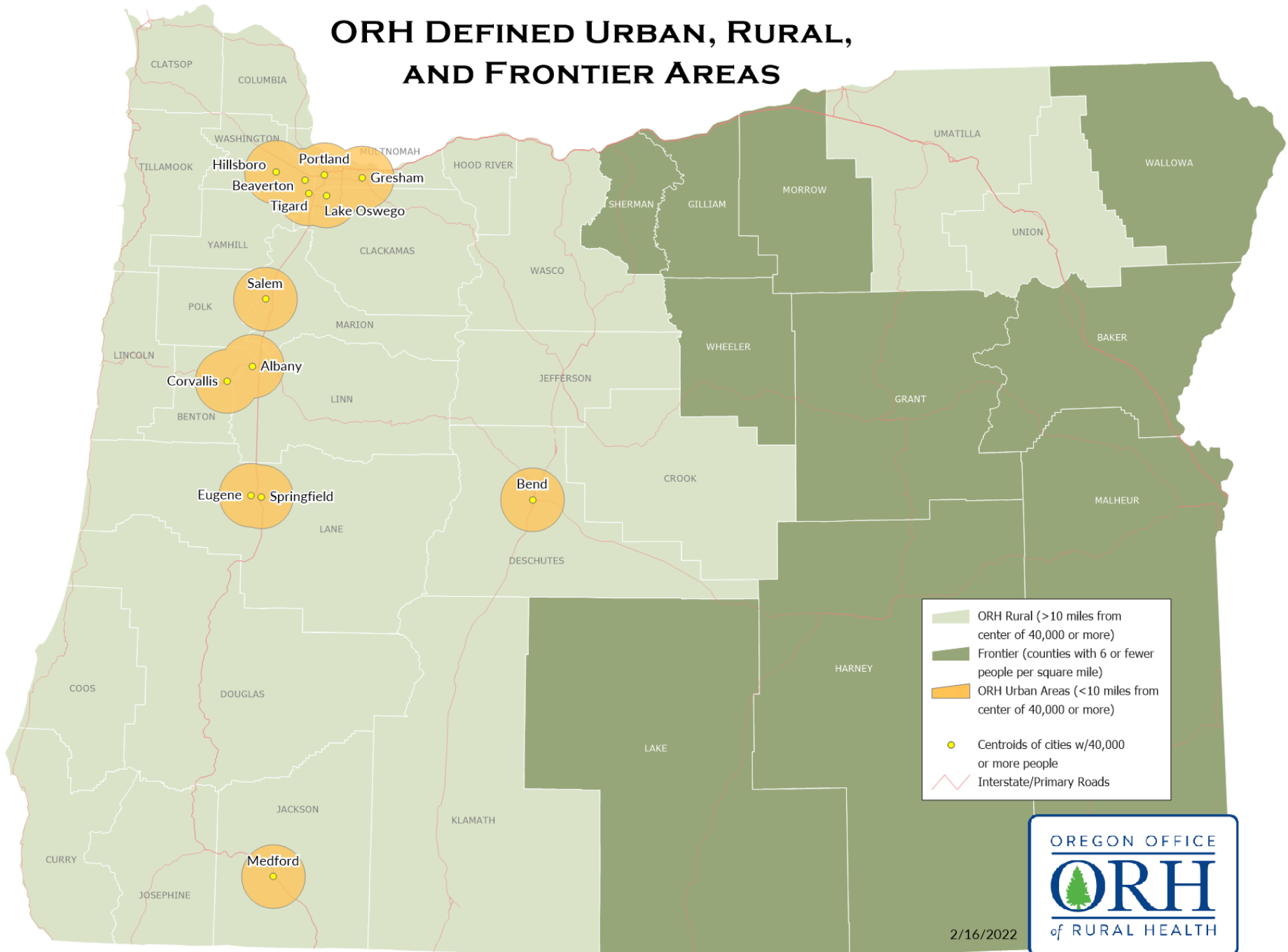
CURRY

JOSEPHINE

JACKSON

KLAMATH

ORH DEFINED URBAN, RURAL, AND FRONTIER AREAS



Which Variables?

- Data has be available at the ZIP Code level
- Data has to be updated annually
- Data has to be available to the Office of Rural Health
- Cover primary care, dental, and mental health

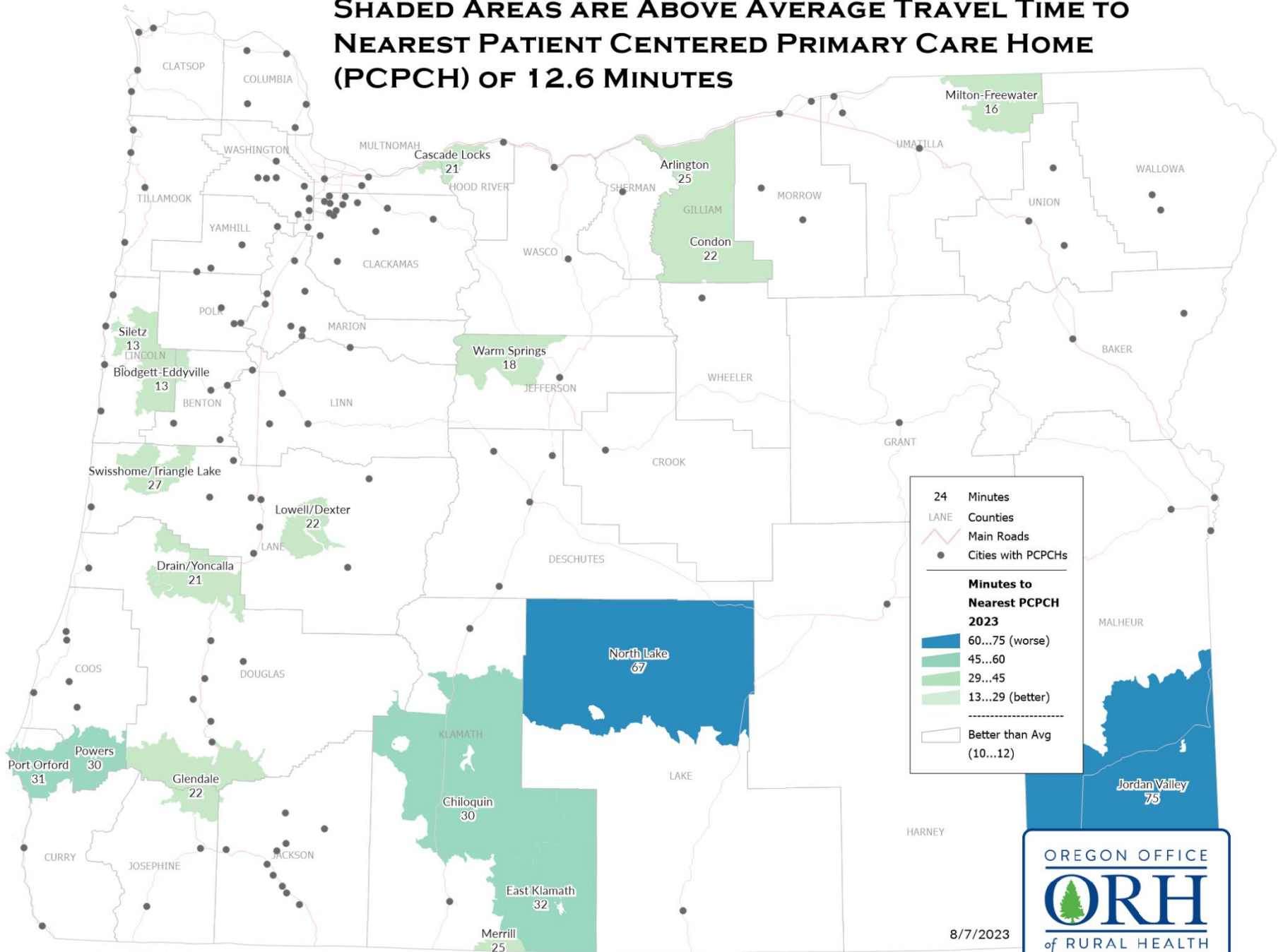
The 9 Variables

- **Category One: Availability of Care** *Are needed providers available locally? (4 variables)*
- **Category Two: Affordability of Care** *Is the community able to afford to see these providers? (1 variable)*
- **Category Three: Utilization** *Are primary physical, mental and oral health care being used? (4 variables)*

Category 1: Availability of Care

- 1) **Travel Time to Nearest Patient Centered Primary Care Home (PCPCH): 2023**
 - Officially recognized by the Oregon Health Authority (OHA) as passing a minimum set of 11 criteria
 - Screening and referral for mental health and substance abuse
 - 24/7 access to live clinical advice by telephone
 - Ongoing management of chronic diseases

SHADED AREAS ARE ABOVE AVERAGE TRAVEL TIME TO NEAREST PATIENT CENTERED PRIMARY CARE HOME (PCPCH) OF 12.6 MINUTES



Category 1: Availability of Care

- 2) Primary Care Capacity (Percent of Primary Care Visits Able to Be Met)

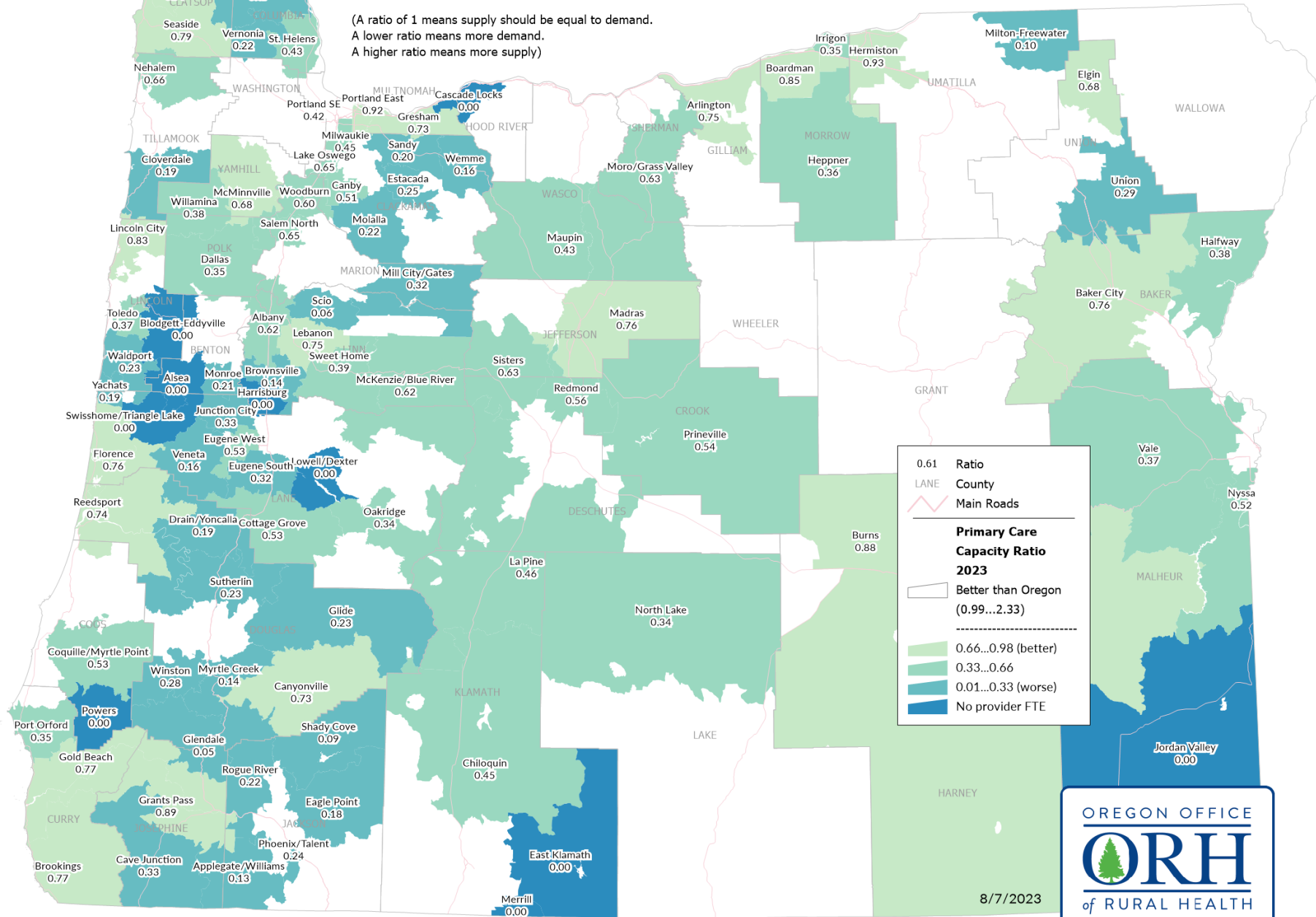
Category 1: Availability of Care

- 2) Primary Care Capacity (Percent of Primary Care Visits Able to Be Met)
 - Estimated # of visits PROVIDED by family/general practitioners, internists, OB/GYNs, pediatricians, primary care PAs, primary care NPs (patient care FTE only at both primary and secondary locations): 2022

 - Estimated # of visits NEEDED by local population based on gender and age breakdowns

SHADED AREAS ARE BELOW OREGON'S PRIMARY CARE CAPACITY RATIO OF 0.98

(A ratio of 1 means supply should be equal to demand.
A lower ratio means more demand.
A higher ratio means more supply)



0.61 Ratio

LANE County

Main Roads

Primary Care Capacity Ratio 2023

Better than Oregon (0.99...2.33)

0.66...0.98 (better)

0.33...0.66

0.01...0.33 (worse)

No provider FTE

8/7/2023

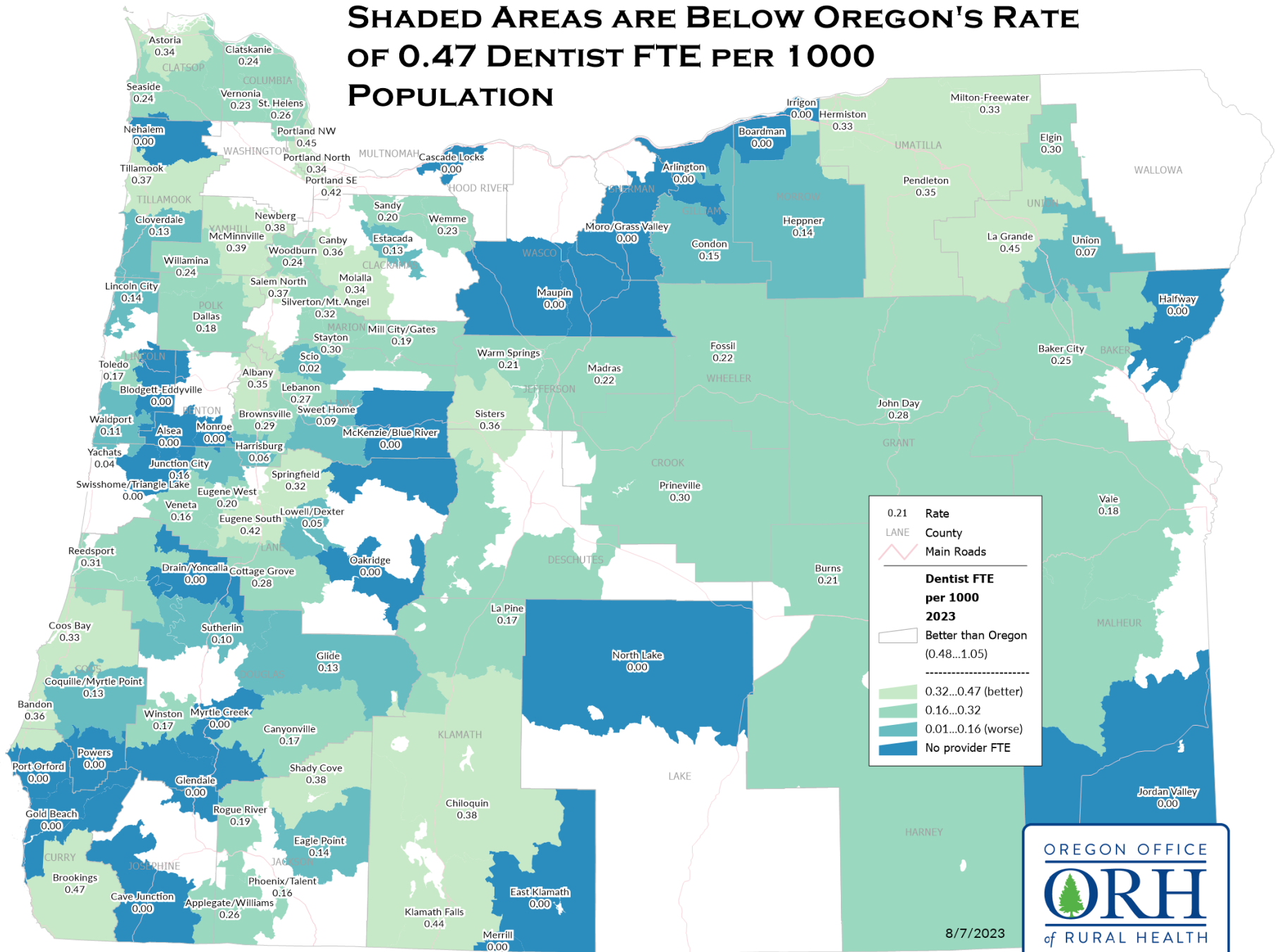


Category 1: Availability of Care

3) Dentists per 1,000 Population

- Dentist patient care FTE at both primary and secondary locations: 2022

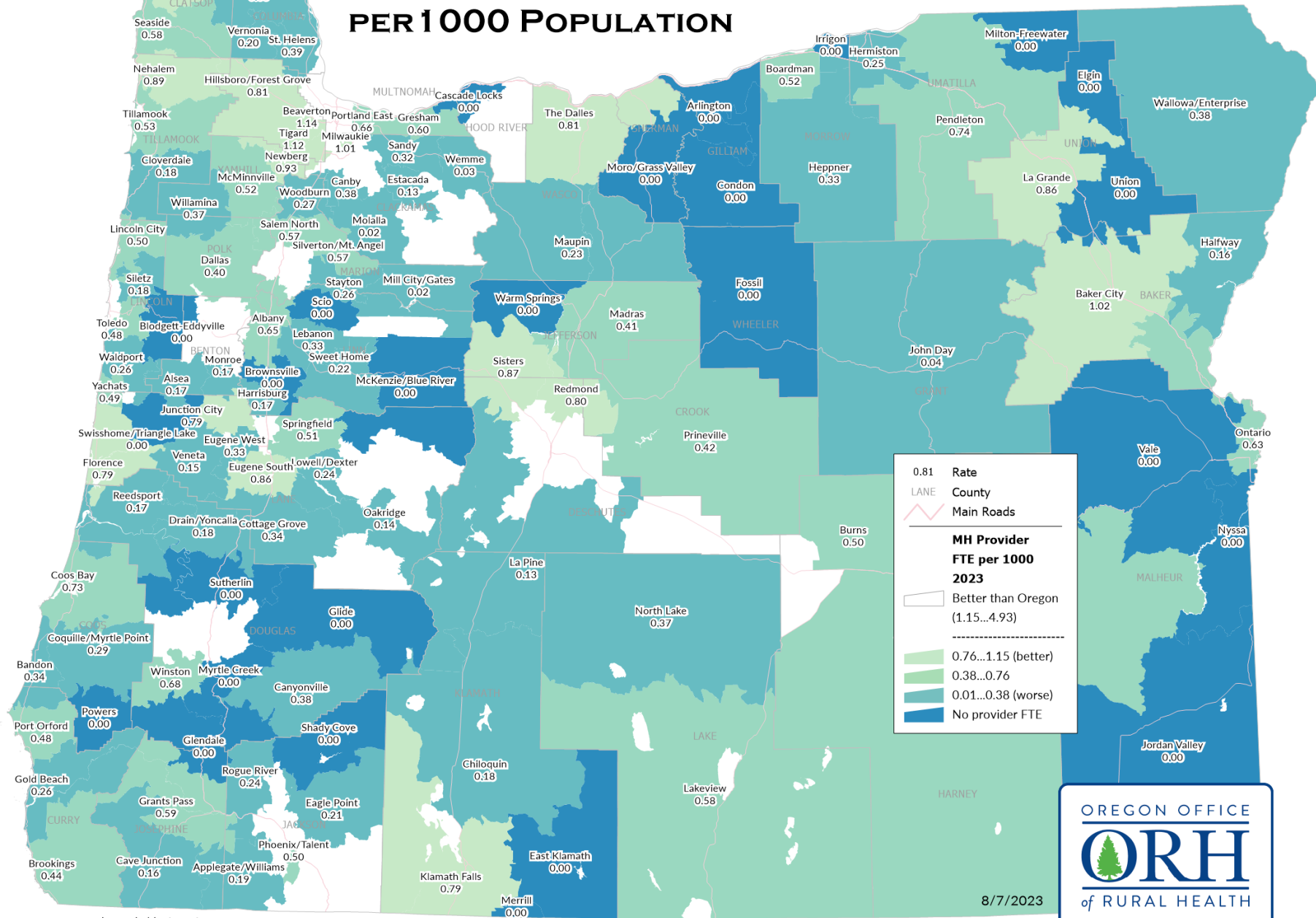
SHADED AREAS ARE BELOW OREGON'S RATE OF 0.47 DENTIST FTE PER 1000 POPULATION



Category 1: Availability of Care

- 4) Mental Health Providers per 1,000 Population
 - Psychiatrists, family/marriage therapists, psychologists, social workers, psychiatric NPs and psychiatric PAs—patient care FTE in primary and secondary locations: 2022

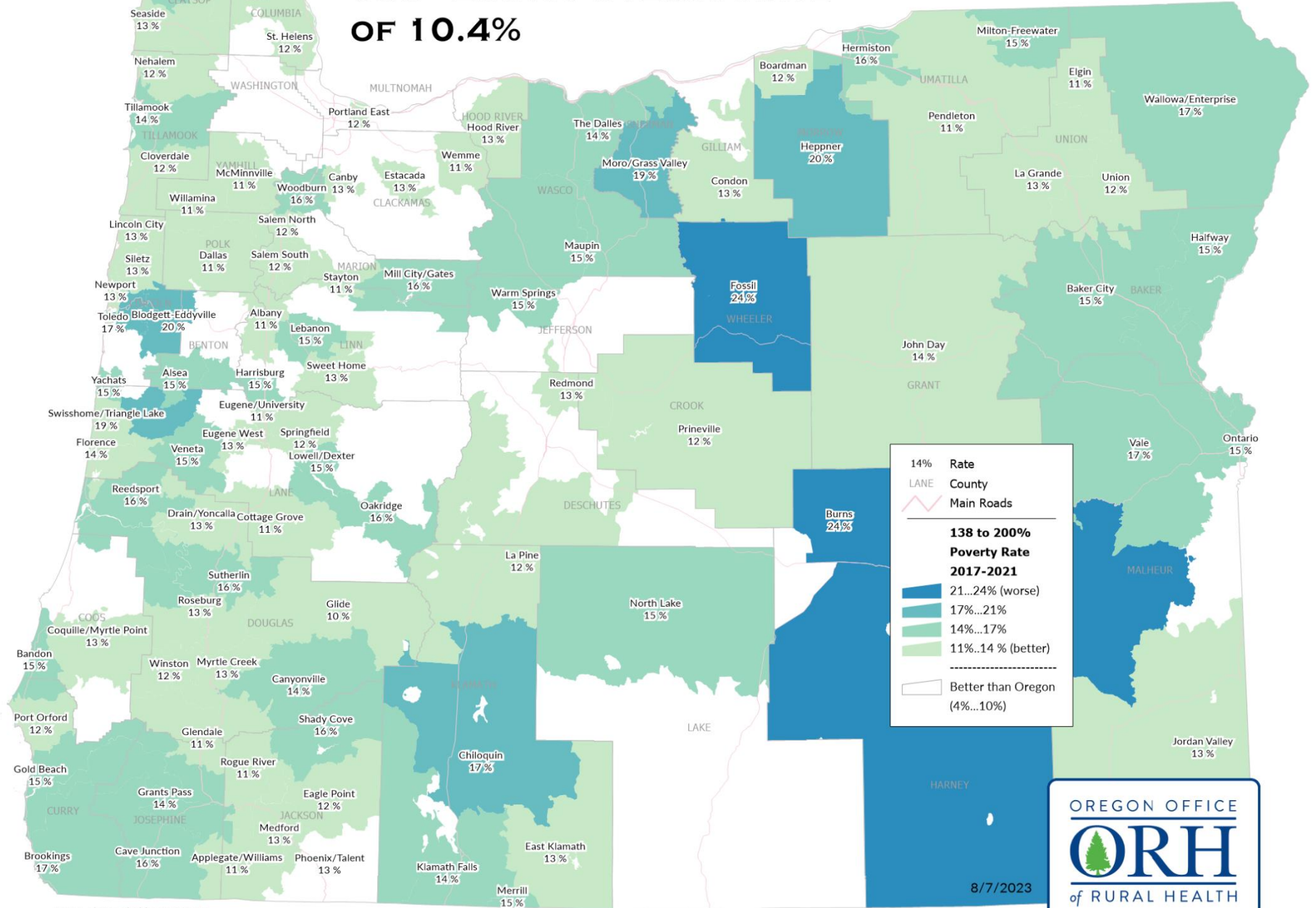
SHADED AREAS ARE BELOW OREGON'S RATE OF 1.15 MENTAL HEALTH PROVIDER FTE PER 1000 POPULATION



Category 2: Affordability of Care

- 5) Percent of Population Between 138% and 200% of Federal Poverty Level (FPL): (2017-2021)
 - This is the percentage above the Medicaid cutoff of 138% but still too poor to get health insurance on their own without a job that provides it

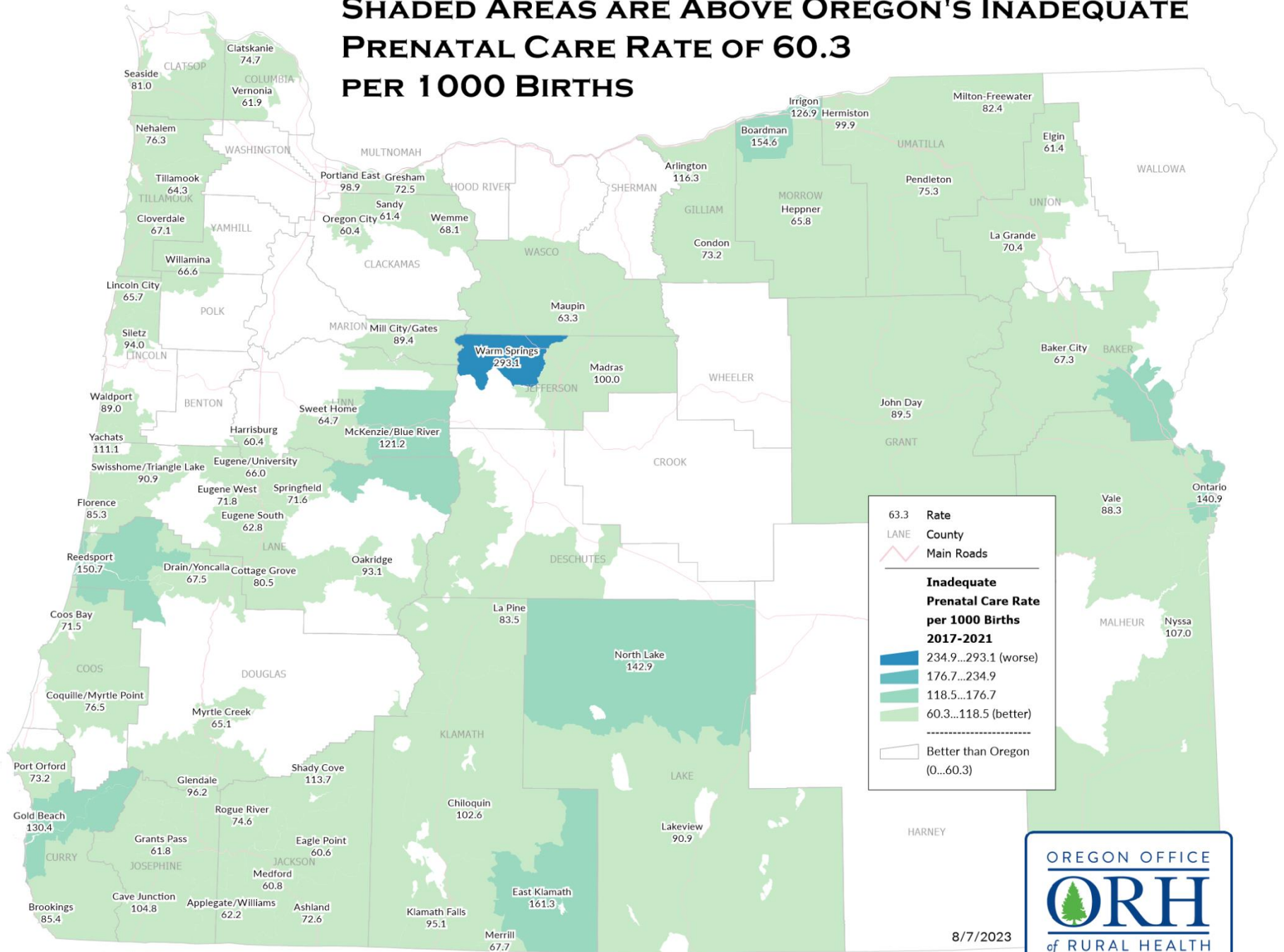
SHADED AREAS ARE ABOVE OREGON'S 138 - 200% POVERTY RATE OF 10.4%



Category 3: Utilization of Care

- 6) Inadequate Prenatal Care per 1000 Births (2017-2021)
- Care that did not begin until the third trimester, or consisted of fewer than 5 prenatal visits.
 - Inadequate prenatal care more often results in higher rates of low-birthweight babies , premature births, stillbirths, neonatal death, and infant death.

SHADED AREAS ARE ABOVE OREGON'S INADEQUATE PRENATAL CARE RATE OF 60.3 PER 1000 BIRTHS



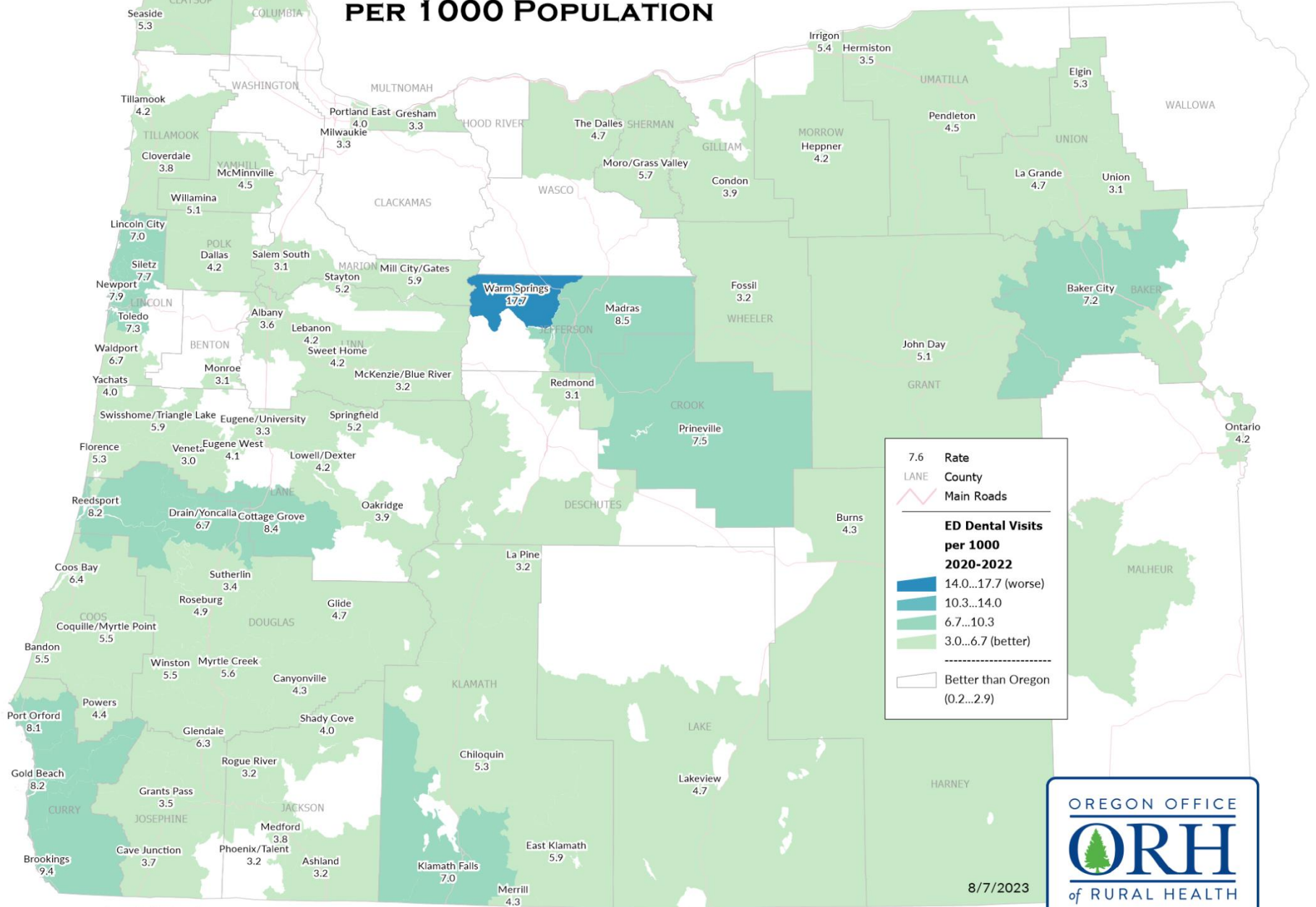
Category 3: Utilization of Care

- 7) Ambulatory Care Sensitive Conditions (ACSC)/
Preventable Hospitalizations per 1,000 Population
 - Inpatient discharges that may have been preventable had they been treated with timely and effective primary care: 2020-2022
 - These include common conditions such as asthma, diabetes, hypertension, and pneumonia, that should not have resulted in inpatient admissions.

Category 3: Utilization of Care

- 8) Emergency Dept Non-Traumatic Dental Visits per 1000 Population (2020-2022)
- Inpatient and outpatient ED visits with a primary diagnosis of dental problems that are not a result of trauma
 - Most of these visits result in opioid and/or antibiotic prescriptions rather than definitive dental care

SHADED AREAS ARE ABOVE OREGON'S EMERGENCY DEPT NON-TRAUMATIC DENTAL VISIT RATE OF 3.0 PER 1 000 POPULATION



Category 3: Utilization of Care

- 9) Emergency Dept Mental Health/Substance Abuse Visits per 1000 Population (2020-2022)
- Inpatient and outpatient ED visits with a primary diagnosis of mood disorders, anxiety, alcohol, drug use, schizophrenia and other psychoses, suicide attempts, and suicidal ideations
 - In the Mental Health America (MHA) 2023 ranking, Oregon has the highest prevalence of adult and youth mental illness and substance use issues of all 50 states and the District of Columbia.

Final Unmet Need Score

- Each variable is given a score of 0 to 10 depending on variances of the lowest and highest numbers from the mean.
- The scores are added together to produce a final Unmet Need Total Score:

$$V1+V2+V3+V4+V5+V6+V7+V8+V9 =$$

Unmet Need Total Score (0-90)

- Result: All but 2 of the areas that fall under the mean are either rural or frontier.

Figure 2. Ranked Service Area Scores (Highest Unmet Need to Lowest)

The worst score in each column is darkest orange, and the best score is darkest blue with graduated shading for the numbers between the best and worst.

Service Area	Designation	Total Score	Travel Time to Nearest PCPCH	Primary Care Capacity Ratio	Dentists per 1,000	Mental Health Providers per 1,000	138-200% of Federal Poverty Level	Inadequate Prenatal Care Rate	Preventable Hospitalizations per 1,000	Emergency Dept Dental Visits per 1,000	Emergency Dept Mental Visits per 1,000
Warm Springs	Rural	22	18	2.09	0.21	0.00	15%	293.1	22.2	17.7	74.5
East Klamath	Rural	26	32	0.00	0.00	0.00	13%	161.3	7.9	5.9	16.8
Swisshome/ Triangle Lake	Rural	28	27	0.00	0.00	0.00	19%	90.9	4.8	5.9	17.6
Glendale	Rural	29	22	0.05	0.00	0.00	11%	96.2	10.0	6.3	16.8
North Lake	Frontier	32	67	0.34	0.00	0.37	15%	142.9	10.9	1.6	11.9
Drain/Yoncalla	Rural	32	21	0.19	0.00	0.18	13%	67.5	7.8	6.7	12.6
Merrill	Rural	32	25	0.00	0.00	0.00	15%	67.7	6.3	4.3	12.2
Port Orford	Rural	34	31	0.35	0.00	0.48	12%	73.2	9.5	8.1	16.5
Cave Junction	Rural	35	10	0.33	0.00	0.16	16%	104.8	10.7	3.7	17.8
Chiloquin	Rural	35	30	0.45	0.38	0.18	17%	102.6	9.1	5.3	16.0
Lowell/Dexter	Rural	36	22	0.00	0.05	0.24	15%	52.9	6.4	4.2	10.6
Myrtle Creek	Rural	36	10	0.14	0.00	0.00	13%	65.1	6.0	5.6	15.5
Powers	Rural	36	30	0.00	0.00	0.00	9%	19.2	8.8	4.4	15.1
Gold Beach	Rural	37	10	0.77	0.00	0.26	15%	130.4	10.3	8.2	22.5
Oakridge	Rural	37	10	0.34	0.00	0.14	16%	93.1	9.9	3.9	14.7
Shady Cove	Rural	37	10	0.09	0.38	0.00	16%	113.7	11.3	4.0	17.6
Yachats	Rural	37	12	0.19	0.04	0.49	15%	111.1	10.1	4.0	7.7



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ORH Announcements

Next Community Conversations | May 23 | 12:00 p.m.
Tackling Workforce Challenges Through Recruitment & Retention - [Register here](#)

Rural Population Health Incubator Grants | Applications due May 3, 2024
([More information here](#))

June 12-13, Virtual | 1st Annual Forum on Rural Population Health & Health Equity
([Register here](#))

October 2-4, Bend, OR | 41st Annual Oregon Rural Health Conference
([More information here](#))