2022 REGIONAL HEALTH ASSESSMENT

*Linn, Benton, & Lincoln Counties*

Oregon

DATA REPORT

Project team:

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# Introduction

Layout / intended use of this report

Equity lens embedded in each chapter

# Who We Are

[narrative summary]

## Demographics

Figure 1‑1. Population pyramid for Linn County (source: 2020 Census)

Chart, bar chart

Description automatically generated

Figure 1‑2. Population pyramid for Benton County (source: 2020 Census)

Chart

Description automatically generated

Figure 1‑3. Population pyramid for Lincoln County (source: 2020 Census)

Chart

Description automatically generated

(we also have population pyramids for LBL Region and for Oregon…)

Figure 1‑4. Race/ethnicity and sex by county???

Figure 1‑1‑5. Percent of population with veteran status (Source: American Community Survey)

Figure 1‑1‑6. Percent of population that identifies as LGBTQ (Source: \*\*\*)

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## Economic profile

## Public health system

# Environmental Health

[narrative summary]

## Natural environment

Air Quality

Water Quality

Wildfire Season

Extreme heat season

## Built environment

Access to public transportation

Access to outdoor greenspace

Access to food

Tabacco free spaces

Urban/rural planning

Food safety

# Social Determinants of Health

[narrative summary]

## Income

Table 3‑1. Poverty rate by age (source: American Community Survey, years??)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Age** | **Linn County** | **Benton County** | **Lincoln County** |  | **Oregon** |
| Under 5 years | 15.1% | 16.9% | 31.1% |  | 18.0% |
| 5 to 11 years | 18.7% | 13.5% | 22.0% |  | 16.8% |
| 12 to 17 years | 14.0% | 12.4% | 23.6% |  | 15.1% |
| 18 to 24 years | 19.6% | 54.2% | 30.5% |  | 25.0% |
| 25 to 34 years | 15.1% | 20.5% | 18.7% |  | 14.1% |
| 35 to 44 years | 13.2% | 9.6% | 16.8% |  | 11.2% |
| 45 to 54 years | 12.3% | 7.5% | 16.4% |  | 10.2% |
| 55 to 64 years | 12.1% | 8.1% | 16.9% |  | 11.0% |
| 65 to 74 years | 6.5% | 5.6% | 6.9% |  | 7.4% |
| 75 years and over | 8.6% | 8.1% | 6.6% |  | 8.7% |

Table 3‑2. Poverty rate by race and ethnicity (source: American Community Survey, years??)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Race/Ethnicity** | **Linn County** | **Benton County** | **Lincoln County** | **Oregon** |
| American Indian and Alaska Native | 13.7 | 23.7 | 21.7 | 22.4 |
| Asian | 9.0 | 42.0 | 43.0 | 13.6 |
| Black or African American | 2.2 | 34.7 | 17.9 | 26.3 |
| Hispanic or Latino | 16.6 | 26.8 | 22.1 | 20.1 |
| Native Hawaiian or Other Pacific Islander | 64.2 | 15.2 | 15.8 | 21.0 |
| Some Other Race | 17.5 | 32.7 | 16.2 | 17.2 |
| Two or More Races | 15.9 | 21.9 | 16.3 | 17.9 |
| White | 12.7 | 15.9 | 15.2 | 11.3 |

Table 3‑3: Median household income by race/ethnicity (source American Community Survey)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Race/Ethnicity | Linn County | Benton County | Lincoln County | Regional | Oregon |
| American Indian and Alaska Native | 41,900 | 56,600 | 30,000 |  | 44,300 |
| Asian | 84,000 | 31,200 | 41,900 |  | 78,800 |
| Black or African American | 83,200 | NA | NA |  | 41,800 |
| Hispanic or Latino | 53,500 | 50,300 | 49,300 |  | 52,500 |
| Native Hawaiian or Other Pacific Islander | NA | NA | NA |  | 62,800 |
| Some Other Race | 58,400 | 38,300 | 61,000 |  | 54,400 |
| Two or More Races | 52,300 | 63,900 | 39,900 |  | 55,600 |
| White | 56,200 | 65,800 | 48,400 |  | 64,400 |

Table 3‑4: Median household income by single parents

Figure 3‑1: Unemployment rate

Table 3‑5: Snap benefits by age

Table 3‑6: Snap benefits by disability status

Figure 3‑2: WIC families served

Figure 3‑3: Working families who received WIC benefits

Figure 3‑4: Pregnant women who received WIC benefits

## Education

Table 3‑7: Highest educational level achieved (source:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Educational Level** | **Linn County** | **Benton County** | **Lincoln County** | **Regional** | **Oregon** |
| Less than high school | 11% | 4% | 9% | 8% | 9% |
| High school graduate | 29% | 13% | 27% | 24% | 23% |
| Some college or associate’s degree | 41% | 29% | 39% | 37% | 34% |
| Bachelor’s degree | 13% | 29% | 15% | 19% | 21% |
| Graduate or professional degree | 6% | 25% | 10% | 13% | 29% |

Table 3‑8: High school graduation rate by race/ethnicity

Table 3‑9: College graduation rate by race/ethnicity

Table 3‑10: College graduation rate by urban-rural classification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Linn County | Benton County | Lincoln County | Regional | Oregon |
| Urban |  |  |  |  |  |
| Rural |  |  |  |  |  |

Table 3‑11: College graduation rate by disability status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Linn County | Benton County | Lincoln County | Regional | Oregon |
| Disabled |  |  |  |  |  |
| Not disabled |  |  |  |  |  |

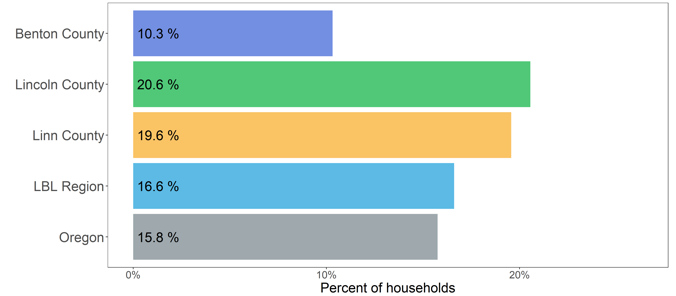
## Food insecurity

Figure 3‑5: Percent of population with food insecurity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Linn County | Benton County | Lincoln County | Regional | Oregon |
| Children |  |  |  |  |  |
| Adults |  |  |  |  |  |

Figure 3‑6: Food insecurity by disability status

Figure 3‑7: Percent of households utilizing SNAP benefits (source: \*\*\*)



## Housing

Table 3‑12: Homeownership by race/ethnicity

Table 3‑13: Housing costs

Figure 3‑8: Percent of Students enrolled in K-12 experiencing houselessness

Figure 3‑9: Unhoused adults

# Access to Health Services

[narrative summary]

## Insurance coverage

Figure 4‑1: Percent of population with health insurance coverage by age group

Figure 4‑2: Percent of population with health insurance coverage by income level

Figure 4‑3: Percent of population with health insurance coverage by race/ethnicity

Figure 4‑4: Public vs private insurance?

## Provider availability

Figure 4‑5: Ratio of health care provider to population (per ##### persons)

Hospital treatment data

Health navigation

## Preventive services

Adolescent well-care visits

Routine check-ups

Oral health

Chronic disease screenings

# Physical health

[narrative summary]

## Mortality (age adjusted)??

Figure 5‑1: Age adjusted death rate by race/ethnicity

Figure 5‑2: Death rate by age

Figure 5‑3: Age adjusted death rate by sex

## Unintentional injury

Figure 5‑4: Unintentional injury deaths

## Chronic disease

Figure 5‑5: Number of incident cancer diagnoses by cancer type

Figure 5‑6: Incidence cancers, all types

Figure 5‑7: Cancer mortality rate

Figure 5‑8: Incidence of cancer associated with tobacco products

Figure 5‑9: Incidence of lung cancer

Figure 5‑10: Lung cancer mortality

Figure 5‑11: Incidence of breast cancer

Figure 5‑12: Breast cancer mortality

Figure 5‑13: Incidence of prostate cancer

Figure 5‑14: Prostate cancer mortality

Figure 5‑15: Incidence rate of myocardial infarction

Figure 5‑16: Incidence rate of stroke

Figure 5‑17: Prevalence of hypertension

Figure 5‑18: Prevalence of diabetes mellitus

Figure 5‑19: Prevalence of chronic obstructive pulmonary disease

Oral health?

## Maternal & child health

Table 5‑1: Birth rate (per 1,000 women) by maternal age (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Race/ ethnicity | Linn County | Benton County | Lincoln County | Regional | Oregon |
| 10 to 14 | 0 | 0.0 | 0 | 0.1 | 0.1 |
| 15 to 17 | 6 | 1.3 | 7 | 4.7 | 4.9 |
| 18 to 19 | 42 | 4.1 | 46 | 18.4 | 26.4 |
| 20 to 24 | 99 | 12.0 | 97 | 45.7 | 57.8 |
| 25 to 29 | 115 | 60.1 | 100 | 92.9 | 82.8 |
| 30 to 34 | 87 | 93.0 | 76 | 87.5 | 87.0 |
| 35 to 39 | 39 | 53.6 | 41 | 43.7 | 48.4 |
| 40 to 44 | 8 | 11.4 | 12 | 9.8 | 11.0 |
| 45 to 49 | 0 | 0.5 | 0 | 0.4 | 0.7 |

Table 5‑2: Birth rate (per 1000 women) by maternal race/ethnicity (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Race/ ethnicity | Linn County | Benton County | Lincoln County | Regional | Oregon |
| American Indian/Alaska Native | 35.2 | 28.1 | 37.8 | 35.1 | 35.6 |
| Asian/ Pacific Islander | 35.6 | 24.7 | 36.2 | 27.6 | 36.9 |
| Black | 40.6 | 21.1 | 26.4 | 28.6 | 43.9 |
| Hispanic | 49.8 | 32.7 | 50.0 | 44.1 | 47.2 |
| White | 47.2 | 25.4 | 40.0 | 37.9 | 37.7 |

Birth rate by insurance provider

Table 5‑3: Percent of pregnancies with inadequate or no prenatal care services by maternal race/ ethnicity (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Race/ ethnicity | Linn County | Benton County | Lincoln County | Regional | Oregon |
| American Indian/Alaska Native | 14.5% | 20.0% | 23.3% | 19.2% | 22.1% |
| Asian/ Pacific Islander | 18.6% | 11.2% | 20.9% | 13.9% | 15.2% |
| Black | 13.9% | 13.0% | 23.3% | 14.9% | 19.6% |
| Hispanic | 15.3% | 15.5% | 17.5% | 15.8% | 16.3% |
| White | 10.2% | 10.5% | 14.1% | 10.9% | 11.3% |

Table 5‑4: Percent of pregnancies with inadequate or no prenatal care services by maternal age (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Maternal Age (years) | Linn County | Benton County | Lincoln County | Regional | Oregon |
| 10 to 14 | 50.0% | 0.0% | 0.0% | 28.6% | 48.0% |
| 15 to 17 | 23.0% | 42.1% | 17.2% | 24.2% | 26.4% |
| 18 to 19 | 16.6% | 19.4% | 24.5% | 18.6% | 21.3% |
| 20 to 24 | 12.8% | 17.9% | 18.2% | 14.7% | 17.6% |
| 25 to 29 | 9.4% | 11.1% | 14.3% | 10.5% | 12.8% |
| 30 to 34 | 9.2% | 8.8% | 12.2% | 9.5% | 10.0% |
| 35 to 39 | 11.3% | 8.5% | 13.9% | 10.6% | 9.8% |
| 40 to 44 | 18.5% | 10.7% | 17.8% | 15.5% | 12.5% |
| 45 to 49 | 6.7% | 15.4% | 20.0% | 12.1% | 11.1% |

Table 5‑5: Accessibility to prenatal care services by insurance provider

Table 5‑6: Prenatal tobacco use by maternal age (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Maternal Age (years) | Linn County | Benton County | Lincoln County | Regional | Oregon |
| 10 to 14 | 50.0% | 0.0% | 0.0% | 28.6% | 7.3% |
| 15 to 17 | 23.2% | 7.9% | 25.0% | 21.6% | 12.2% |
| 18 to 19 | 26.7% | 21.9% | 26.5% | 26.0% | 16.5% |
| 20 to 24 | 21.2% | 14% | 24.2% | 20.4% | 15.4% |
| 25 to 29 | 14.3% | 7.1% | 17.6% | 13.0% | 10.1% |
| 30 to 34 | 10.8% | 4.2% | 15.7% | 9.2% | 6.3% |
| 35 to 39 | 11.8% | 3.6% | 12.3% | 8.7% | 5.0% |
| 40 to 44 | 9.8% | 4.4% | 10.2% | 7.9% | 4.7% |
| 45 to 49 | 0.0% | 0% | 20.0% | 3.0% | 2.3% |

Table 5‑7: Prevalence of maternal smoking during pregnancy by insurance provider

Table 5‑8: Percent of newborns with low birthweight by maternal age (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Maternal Age (years) | Linn County | Benton County | Lincoln County | Regional | Oregon |
| 10 to 14 | 0.0% | 0.0% | 33.3% | 14.3% | 4.6% |
| 15 to 17 | 10.2% | 7.9% | 9.4% | 9.7% | 8.4% |
| 18 to 19 | 7.5% | 9.0% | 10.8% | 8.4% | 7.7% |
| 20 to 24 | 6.4% | 6.4% | 6.4% | 6.4% | 6.7% |
| 25 to 29 | 5.4% | 5.1% | 6.0% | 5.4% | 5.8% |
| 30 to 34 | 5.4% | 4.3% | 7.4% | 5.3% | 6.1% |
| 35 to 39 | 8.1% | 6.0% | 12.1% | 7.9% | 7.1% |
| 40 to 44 | 10.9% | 10.2% | 6.8% | 9.9% | 9.1% |
| 45 to 49 | 20.0% | 15.4% | 0.0% | 15.2% | 15.0% |

Table 5‑9: Percent of newborns with low birthweight by maternal race/ ethnicity (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Race/ ethnicity | Linn County | Benton County | Lincoln County | Regional | Oregon |
| American Indian/Alaska Native | 5.8% | 7.3% | 8.3% | 7.1% | 7.5% |
| Asian/ Pacific Islander | 6.0% | 4.9% | 7.0% | 5.4% | 7.8% |
| Black | 10.2% | 11.7% | 10.0% | 10.7% | 9.8% |
| Hispanic | 6.3% | 6.6% | 7.9% | 6.7% | 6.6% |
| White | 6.1% | 5.1% | 7.3% | 6.0% | 6.1% |

Table 5‑10: Low birth weight by insurance provider

Table 5‑11: Percent of premature births by maternal age (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Maternal Age (years) | Linn County | Benton County | Lincoln County | Regional | Oregon |
| 10 to 14 | 0.0% | 0.0% | 33.3% | 14.3% | 8.6% |
| 15 to 17 | 9.7% | 5.3% | 12.5% | 9.8% | 8.9% |
| 18 to 19 | 8.8% | 11.6% | 9.3% | 9.4% | 8.2% |
| 20 to 24 | 7.7% | 5.9% | 5.9% | 7.1% | 7.7% |
| 25 to 29 | 6.9% | 5.9% | 8.0% | 6.8% | 7.1% |
| 30 to 34 | 7.4% | 5.4% | 8.7% | 6.9% | 7.5% |
| 35 to 39 | 10.8% | 7.2% | 12.7% | 9.7% | 8.9% |
| 40 to 44 | 13.4% | 10.3% | 7.6% | 11.2% | 11.4% |
| 45 to 49 | 46.7% | 38.5% | 20.0% | 39.4% | 18.8% |

Table 5‑12: Percent of premature births by maternal race/ethnicity (source: Oregon Public Health Assessment Tool)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Race/ ethnicity | Linn County | Benton County | Lincoln County | Regional | Oregon |
| American Indian/Alaska Native | 7.5% | 10.9% | 5.2% | 6.9% | 10.0% |
| Asian/ Pacific Islander | 4.7% | 4.9% | 8.1% | 5.2% | 7.9% |
| Black | 11.1% | 14.3% | 10.0% | 12.1% | 9.7% |
| Hispanic | 8.2% | 7.4% | 9.5% | 8.3% | 8.2% |
| White | 7.8% | 6.0% | 8.3% | 7.4% | 7.5% |

Premature birth rate by insurance provider

Child abuse rates by residence

Foster care rate by residence

ACES rate

Up to date immunization rate by race/ethnicity

Breastfeeding rates by residence

Early education enrollment by residence

3rd grade reading

8th grade reading

High school graduation rate

## Communicable disease (non-COVID)

Incidence of laboratory confirmed E. coli infection by age (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed E. coli infection by race/ethnicity (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed Salmonella infection by age (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed Salmonella infection by race/ethnicity (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed foodborne illness by age (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed foodborne illness by race/ethnicity (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed Chlamydia infection by age (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed Chlamydia infection by race/ethnicity (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed Gonorrhea infection by age (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed Gonorrhea infection by race/ethnicity (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed Syphilis infection by age (source: Oregon Public Health Assessment Tool)

Incidence of laboratory confirmed Syphilis infection by race/ethnicity (source: Oregon Public Health Assessment Tool)

Incidence of HIV infection by residence (source: Oregon Public Health Assessment Tool)

Incidence of Hepatitis C infection by residence (source: Oregon Public Health Assessment Tool)

# Mental & behavioral health

[narrative summary]

## Adults – mental health, substance use

Figure 6‑1: Quality of life

Figure 6‑2: Depression rate

Figure 6‑3: Mental health treatment

Table 6‑1: Suicide rate by sex

Table 6‑2: Suicide rate by age group

Table 6‑3: suicide rate by race/ethnicity

Figure 6‑4: Substance use in adults

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Linn County | Benton County | Lincoln County | Regional | Oregon |
| Cigarettes |  |  |  |  |  |
| E-cigarettes |  |  |  |  |  |
| Marijuana |  |  |  |  |  |
| Alcohol |  |  |  |  |  |
| Other drugs |  |  |  |  |  |

Number of drug overdoses that resulted in hospitalization

Number of drug overdoses that resulted in death

Substance use treatment

## Adolescents – mental health, substance use

Figure 6‑5: Positive youth development score

Figure 6‑6: Depression rate among persons \*\*\* years old

Figure 6‑7: Suicidal ideation rates among persons \*\*\* years old

Figure 6‑8: Suicidal attempt rate among persons \*\*\* years old

Figure 6‑9: bullying

Figure 6‑10: abuse

Figure 6‑11: mental health treatment

Table 6‑4: Substance use in adolescents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Linn County | Benton County | Lincoln County | Regional | Oregon |
| Cigarettes |  |  |  |  |  |
| E-cigarettes |  |  |  |  |  |
| Marijuana |  |  |  |  |  |
| Alcohol |  |  |  |  |  |
| Other drugs |  |  |  |  |  |

# COVID-19

[narrative summary]

## Case rates

Incident COVID-19 case rates 2020-2022 (source: OPERA)

Incident COVID-19 case rates by age (source: OPERA)

Incident COVID-19 case rates by race/ethnicity (source: OPERA)

Incident COVID-19 case rates by urban-rural classification (OPERA)

## Hospitalizations

COVID-19 Hospitalizations 2020-2022 (source: OPERA)

## Mortality

COVID-19 mortality rates 2020-2022 (source: OPERA)

## Vaccination

COVID-19 vaccination rates by age (source: ALERT)

COVID-19 vaccination rates by race/ethnicity (source: ALERT)

COVID-19 vaccination rates by urban-rural classification (source: ALERT)

# Conclusions