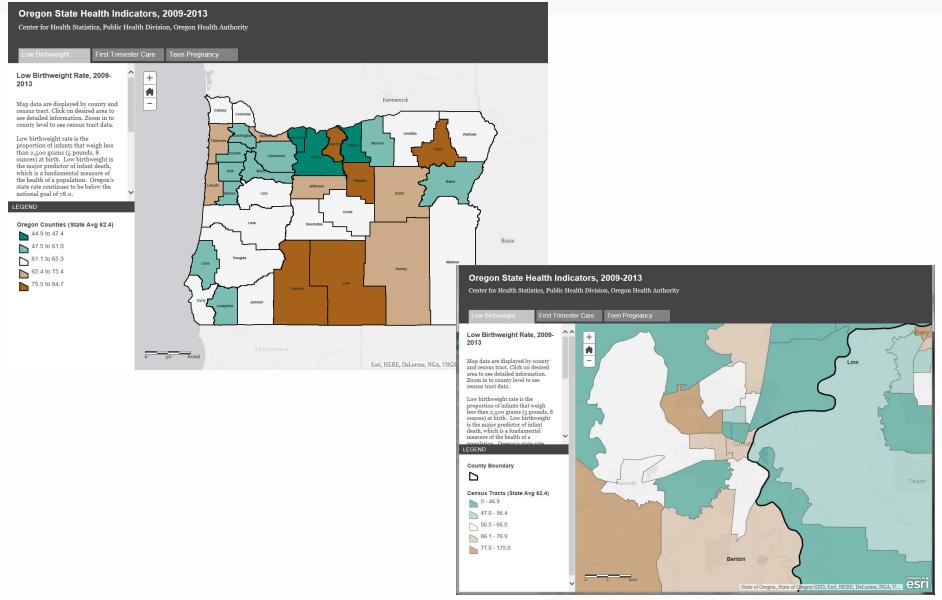
Explore your neighborhood: Introducing online birth and death-related data maps

Krista Markwardt, MS Research Analyst







Target audiences

- Public health professionals
- County and city officials
- General public



Oregon Public Health Division State Health Profile September 2012



Health

Maternal and child health: Low birthweight First trimester care Teen pregnancy

<u>Causes of Death:</u> Premature death before age 75 Age-adjusted mortality rate

Map Creation

- State health indicators were calculated from vital records data
- Joined with geographic files
 - o County
 - Census tract
 - ZIP code (teen pregnancy)
- Online maps were created





Accessing the indicator maps http://bit.ly/data-maps

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A	Need a vital record? Walk-in hours limited to 10 AM - 2 PM until mid-September
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Vital Statistics	Public Health > Birth and Death Certificates > Vital Statistics
Annual Reports Data Maps Birth Data	Data Maps
Death Data Marriage Data Divorce Data Domestic Partnership Data Dissolution of Domestic Partnership Data Fetal Death Data	The Oregon Health Authority's Center for Health Statistics (CHS) is responsible for the stewardship of vital statistic information for the State of Oregon. These vital statistics are analyzed and made available to researchers and the public through quarterly web tables and an annual report. CHS has embarked on a project to create data maps showing key health indicators involving birth, death, and teen pregnancy data. Since 2002, birth and death records have been geocoded to residential address. This allows for the creation of maps
Induced Abortion Data Teen Pregnancy Data	which displays data at sub-county-levels, such as census tract-level or ZIP code-level. View Maps Birth Data Maps Death Data Maps Teen Pregnancy Data Maps
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Vital Statistics	Public Health > Birth and Death Cer	tificates > Vital Statistics				🕈 🖾 💆 f
Annual Reports Data Maps Birth Data	Vital Statistics					
Death Data Marriage Data Divorce Data Domestic Partnership Data Dissolution of Domestic Partnership Data Fetal Death Data Induced Abortion Data Teen Pregnancy Data	Birth Data Maps Year-to-Date, Preliminary, and Final Data Births by County and ZIP Code Birth Outcomes by Planned Birth Place and Attendant Demographic Characteristics of Mother Medical or Health Characteristics of Birth Perinatal Trends • Divorces • Domestic Partnerships	ation and analysis of infor Oregon's Center for Heal data from these vital reco nformation about the heal ses of death, low birth we s data are used througho inning, and policy develop Date and Final Dat	th Statistics is re rds. Ith of Oregonian ight babies, and ut the state and oment.	sponsible for s comes from vital mother's access	Contact Us Find Us Health Statistic Records	s Unit - Vital
ublic.health.oregon.gov/BirthDeath	Dissolutions of Domestic Fetal Deaths Induced Abortions Teen Pregnancies (inclue Related Publications Related information can Information on how to or Calculating rates? Aggre Certificates/VitalStatistics/birth/Page	ding births and abortions) 5 be found in the Annual Re der birth, death, marriage	or divorce certific	ates can be found in	Vital Records F	AQ.



Birth Data

Birth Data Maps

Year-to-Date, Preliminary, and Final Data

Births by County and ZIP Code

Birth Outcomes by Planned Birth Place and Attendant

Demographic Characteristics of Mother

Medical or Health Characteristics of Birth

Perinatal Trends



Public Health > Birth and Death Certificates > Vital Statistics > Birth Data > Birth Data Maps Birth Data Maps

Tips for using data maps

- 1. We recommend maximizing your browser window and using Mozilla Firefox or Google Chrome to view the maps.
- 2. To view, click on the map image.
- 3. Allow a few moments for the maps to load.
- Once the maps have loaded, use the tabs across the top to view individual maps.
- 5. You can click on an individual county to open a pop-up window with detailed data for that county.
- Zoom in to access census tracts or ZIP codes. If you select a county, you can click Zoom to at the bottom of the pop-up window to zoom in to that county.

Use the zoom tool to zoom in or out, or to return to the "home" view.

NOTE: Census tract and ZIP code-level maps are only as accurate as the address information provided on the birth certificate. At least 95 percent of births recorded in Oregon contain sufficiently accurate address information to be geocoded at the level of residential address or street. For border counties, where residents regularly give birth in neighboring states, the accuracy of residential address information is dependent on that state's data collection procedures.

Oregon State Health Indicators, 2009-2013

These maps display three state health indicators. They were created in response to a growing demand for health indicator data at the county and census tract levels. To protect Oregonian's confidentiality and ensure data reliability, five years of data were combined for the following three health indicators:

- · Low birthweight (all ages)
- · Initiation of first trimester prenatal care (all ages), and
- Teen pregnancy (ages 15-17).

To use this map

- · Click on the map image (shown at right) to open the full mapping tool.
- Once the maps have loaded, use the tabs across the top to view individual maps for each of the three health indicators.

Technical Notes

Data source: Birth records compiled by the Oregon Center for Health Statistics

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Annual Reports

Volume 1 - Natality

Volume 2 - Mortality

Health Statistics Unit

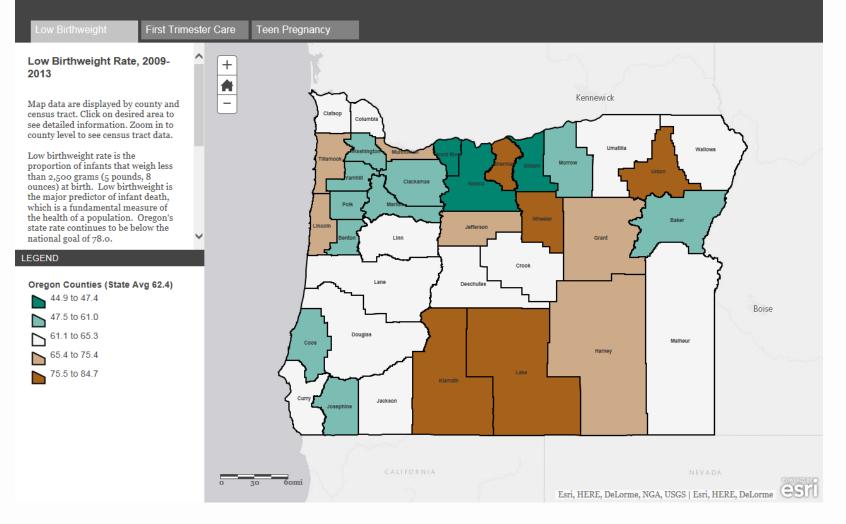
Contact Us

Map



Oregon State Health Indicators, 2009-2013

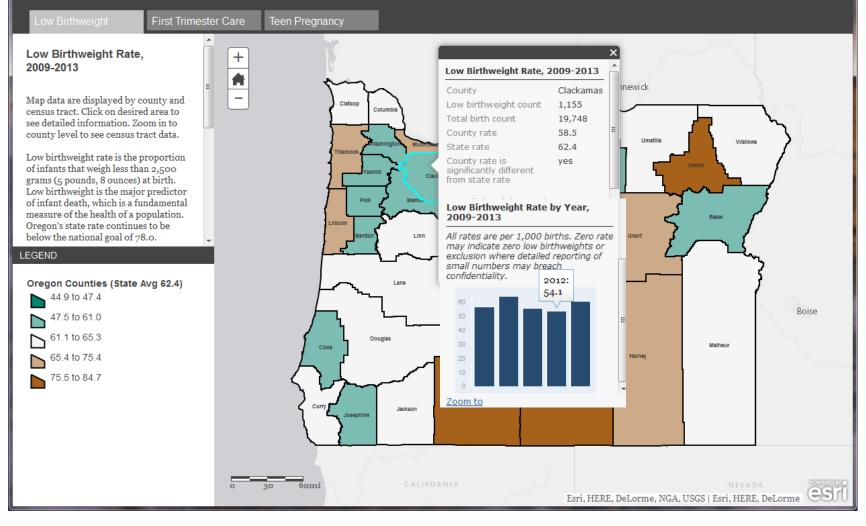
Center for Health Statistics, Public Health Division, Oregon Health Authority





Oregon State Health Indicators, 2009-2013

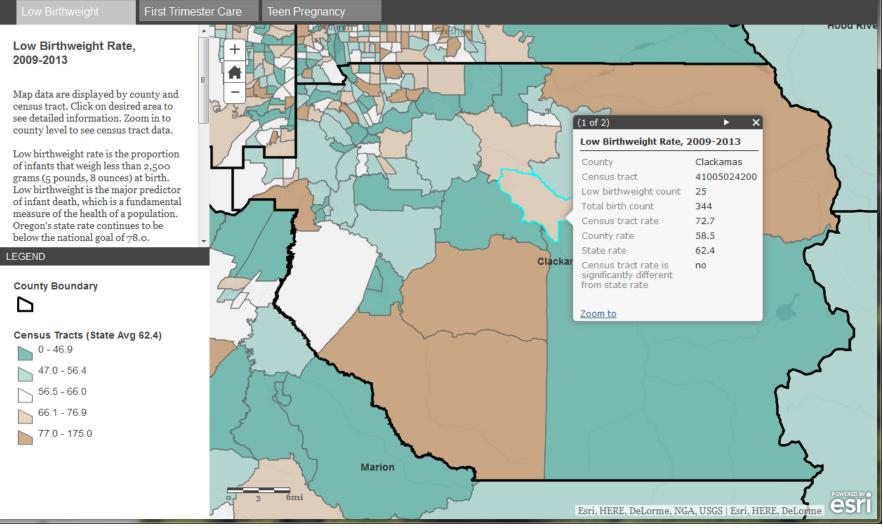
Center for Health Statistics, Public Health Division, Oregon Health Authority



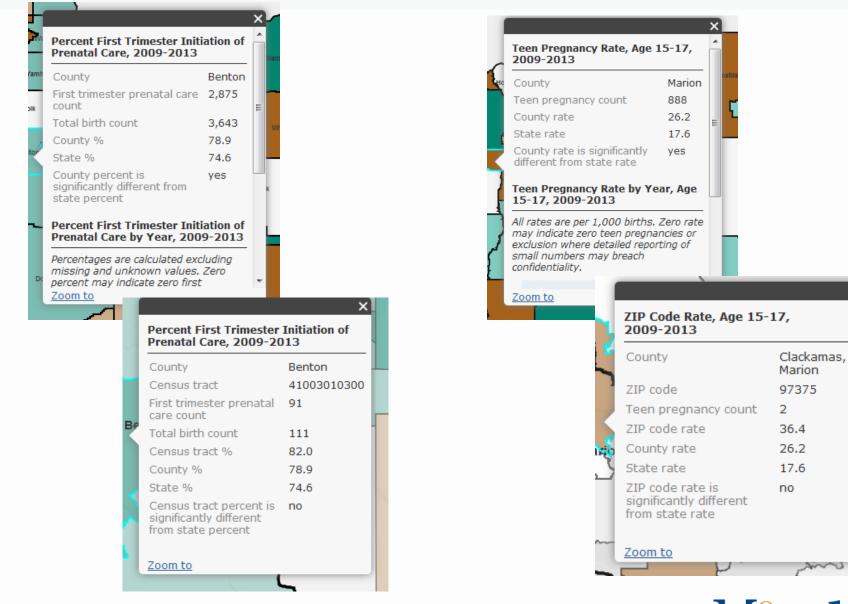


Oregon State Health Indicators, 2009-2013

Center for Health Statistics, Public Health Division, Oregon Health Authority







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Oregon State Health Indicators

Center for Health Statistics, Public Health Division, Oregon Health Authority

Age-Adj. Death Rate

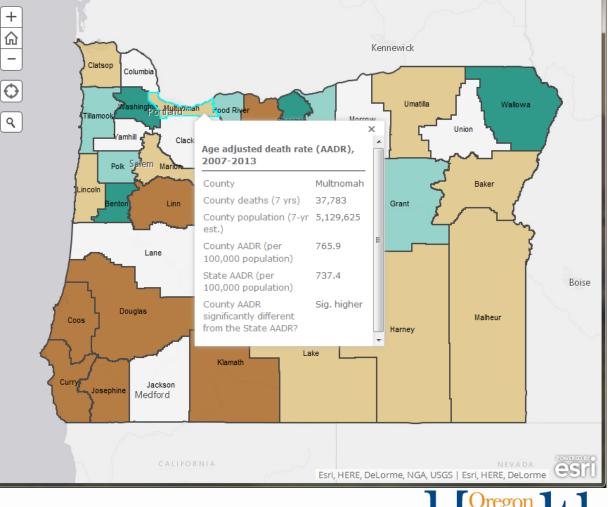
Age-Adj. Years of Potential Life Lost

deaths and the estimated population by county and age groups for the seven-year period. All rates are per 100,000 population.

Census tract level rates are calculated with usable census tract records (i.e. records with census tract information geocodable at or below street name level). These rates may differ from those reported in the Oregon Vital Statistics Annual Reports, which are reported at county and state levels. Census tract level rates for Oregon counties bordering other states may be less reliable due to varying data completeness. Usable records accounted for 99.87% of all death records in the seven-year period.

For more information about Oregon vital statistics, please visit the following Center for Health Statistics web pages: <u>Vital</u> <u>Statistics, Oregon Death Data, Annual Reports</u>.





Oregon State Health Indicators

Center for Health Statistics, Public Health Division, Oregon Health Authority

Age-Adj. Death Rate

Age-Adj. Years of Potential Life Lost

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For more information about Oregon vital statistics, please visit the following Center for Health Statistics web pages: <u>Vital</u>	SE STEELE ST H			Census tract AADR (per 100,000 population)	759.4	
Statistics, Oregon Death Data, Annual Reports.	INSLEY ST			County AADR (per 100,000 population)	765.9	а М С
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Oregon State Health Indicators

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Age-Adj. Death Rate

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Age-Adjusted Years of Potential Life Lost before age 75 (YPLL75) Ratio, 2007-2013

Map data are displayed by county and census tract. Click on the desired area to see detailed information. Zoom in to county level to see census tract data.

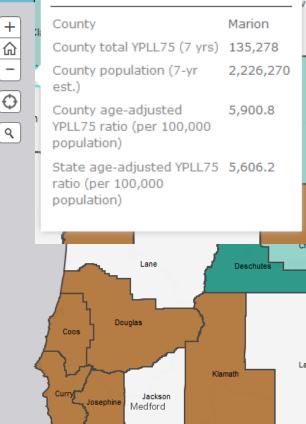
Age-adjusted years of potential life lost before age 75 (YPLL75) is a standardized measure of premature deaths that allows for comparisons across geographic areas. YPLL75 quantifies premature deaths occurring in younger age groups. These ratios are calculated from the average count of years lost for premature deaths before age 75 and the estimated population by county and age groups for the seven-year period. All rates are per 100,000 population.

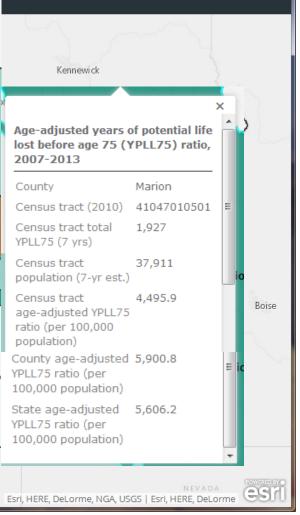
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PUBLIC HEALTH DIVISION Center for Health Statistics

Age-adjusted years of potential life lost before age 75 (YPLL75) ratio, 2007-2013

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Real world applications

Exploratory

Research

Resource allocation

Replicating with other data



Looking Forward



Potential mapping project expansion

- Frequency of updates
- Five primary indicators by CCO region
- Other state health profile indicators by
 - -Census tract
 - -CCO
- Major indicators by socio-economic status



Potential mapping project expansion (cont'd)

- Birth rate
- Fertility rate
- Tobacco use (birth and death)
- Leading causes of death
- Vehicle accident deaths
- Suicide deaths



Questions / Comments?

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Vivian Siu, death data maps vivian.w.siu@state.or.us (971) 673-1150

